

ALMANAC LVI TRANSITS VISIBLE FROM URANUS IN CE

The almanac LVI contains a list of transits visible from Uranus from the 1st millennium CE to the 125th millennium CE.

During the period of 250 000 years, the total number of transits visible from Uranus is 196 824 transits visible from Uranus (73 928 transits of Mercury, 55 766 transits of Venus, 29 404 transits of Earth, 29 380 transits of Moon, 7 818 transits of Mars, 461 transits of Jupiter, 67 transits of Saturn).

1ST MILLENNIUM CE

This is a list of transits visible from Uranus in the 1st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	4-07-28 03:07 J		1722727.38	1722727.63	1722727.93	0.0135	0.0053	
Mercury	4-08-28 10:04 J		1722758.87	1722758.92	1722758.98	0.0135	0.0120	
Mercury	4-11-24 13:12 J		1722846.97	1722847.05	1722847.14	0.0135	0.0103	
Mercury	5-02-20 16:19 J		1722935.08	1722935.18	1722935.29	0.0135	0.0085	
Mercury	5-05-19 19:26 J		1723023.20	1723023.31	1723023.43	0.0135	0.0067	
Mercury	5-08-15 22:33 J		1723111.32	1723111.44	1723111.57	0.0135	0.0050	
Mercury	5-11-12 01:40 J		1723199.45	1723199.57	1723199.70	0.0135	0.0032	
Mercury	6-02-08 04:47 J		1723287.57	1723287.70	1723287.83	0.0136	0.0014	
Mercury	6-05-07 07:55 J		1723375.70	1723375.83	1723375.97	0.0136	0.0005	
Mars	6-06-29 06:43 J		1723428.55	1723428.78	1723429.02	0.0136	0.0087	
Mercury	6-08-03 11:02 J		1723463.83	1723463.96	1723464.09	0.0136	0.0022	
Mercury	6-10-30 14:09 J		1723551.97	1723552.09	1723552.22	0.0136	0.0039	
Mercury	7-01-26 17:16 J		1723640.10	1723640.22	1723640.34	0.0136	0.0057	
Mercury	7-04-24 20:09 J		1723728.24	1723728.34	1723728.46	0.0136	0.0075	
Mercury	7-07-21 23:31 J		1723816.38	1723816.48	1723816.57	0.0136	0.0092	
Mercury	7-10-18 02:24 J		1723904.53	1723904.60	1723904.68	0.0136	0.0110	
Mercury	8-01-14 05:16 J		1723992.69	1723992.72	1723992.78	0.0136	0.0129	
Earth	12-11-11 10:47 J		1725755.81	1725755.95	1725756.08	0.0138	0.0116	
Moon	12-11-11 13:55 J		1725755.94	1725756.08	1725756.24	0.0138	0.0110	*
Venus	13-04-25 18:28 J		1725921.24	1725921.27	1725921.32	0.0139	0.0136	
Moon	13-11-15 18:43 J		1726125.10	1726125.28	1726125.48	0.0139	0.0091	
Earth	13-11-15 22:04 J		1726125.24	1726125.42	1726125.63	0.0139	0.0086	*
Venus	13-12-08 02:09 J		1726147.44	1726147.59	1726147.77	0.0139	0.0090	
Venus	14-07-22 10:47 J		1726373.74	1726373.95	1726374.15	0.0139	0.0043	
Earth	14-11-20 10:33 J		1726494.71	1726494.94	1726495.17	0.0139	0.0055	

Moon	14-11-20 13:26 J	1726494.84	1726495.06	1726495.29	0.0139	0.0054 *
Venus	15-03-05 18:57 J	1726600.08	1726600.29	1726600.51	0.0140	0.0005
Venus	15-10-18 03:21 J	1726826.45	1726826.64	1726826.85	0.0140	0.0053
Moon	15-11-24 20:09 J	1726864.09	1726864.34	1726864.59	0.0140	0.0021
Earth	15-11-24 23:31 J	1726864.24	1726864.48	1726864.73	0.0140	0.0023 *
Venus	16-05-31 12:00 J	1727052.85	1727053.00	1727053.15	0.0140	0.0101
Earth	16-11-28 12:57 J	1727233.80	1727234.04	1727234.30	0.0140	0.0010
Moon	16-11-28 16:04 J	1727233.92	1727234.17	1727234.41	0.0140	0.0005 *
Moon	17-12-03 00:43 J	1727603.29	1727603.53	1727603.77	0.0141	0.0049
Earth	17-12-03 03:21 J	1727603.41	1727603.64	1727603.88	0.0141	0.0042 *
Earth	18-12-07 18:14 J	1727973.06	1727973.26	1727973.48	0.0141	0.0075
Moon	18-12-07 20:52 J	1727973.17	1727973.37	1727973.60	0.0141	0.0068 *
Moon	19-12-12 08:24 J	1728342.70	1728342.85	1728343.01	0.0142	0.0112
Earth	19-12-12 10:19 J	1728342.78	1728342.93	1728343.10	0.0142	0.0108 *
Earth	20-12-16 03:07 J	1728712.60	1728712.63	1728712.66	0.0142	0.0141
Moon	20-12-16 04:47 J	1728712.67	1728712.70	1728712.76	0.0142	0.0139
Mars	45-02-14 22:19 J	1737539.13	1737539.43	1737539.75	0.0143	0.0022
Mercury	45-03-23 12:00 J	1737575.95	1737576.00	1737576.08	0.0143	0.0133
Mercury	45-06-19 20:09 J	1737664.22	1737664.34	1737664.48	0.0143	0.0103
Mercury	45-09-16 04:19 J	1737752.53	1737752.68	1737752.86	0.0143	0.0073
Mercury	45-12-13 12:43 J	1737840.85	1737841.03	1737841.22	0.0143	0.0043
Mercury	46-03-11 20:52 J	1737929.18	1737929.37	1737929.57	0.0143	0.0013
Mercury	46-06-08 05:16 J	1738017.53	1738017.72	1738017.91	0.0143	0.0018
Mercury	46-09-04 13:26 J	1738105.88	1738106.06	1738106.24	0.0143	0.0048
Mercury	46-12-01 21:35 J	1738194.25	1738194.40	1738194.57	0.0142	0.0079
Mercury	47-02-28 05:45 J	1738282.63	1738282.74	1738282.88	0.0142	0.0110
Mercury	47-05-27 14:09 J	1738371.07	1738371.09	1738371.14	0.0142	0.0140
Moon	52-05-10 23:31 J	1740181.38	1740181.48	1740181.59	0.0140	0.0126
Earth	52-05-11 03:07 J	1740181.51	1740181.63	1740181.76	0.0140	0.0122 *
Venus	52-12-29 07:26 J	1740413.74	1740413.81	1740413.91	0.0140	0.0129

Earth	53-05-15 23:31 J	1740551.30	1740551.48	1740551.69	0.0140	0.0090
Moon	53-05-16 02:52 J	1740551.44	1740551.62	1740551.82	0.0140	0.0092 *
Venus	53-08-12 16:47 J	1740640.03	1740640.20	1740640.39	0.0139	0.0081
Venus	54-03-27 02:24 J	1740866.38	1740866.60	1740866.81	0.0139	0.0032
Moon	54-05-20 15:50 J	1740920.93	1740921.16	1740921.42	0.0139	0.0053
Earth	54-05-20 19:26 J	1740921.08	1740921.31	1740921.55	0.0139	0.0057 *
Venus	54-11-08 11:16 J	1741092.75	1741092.97	1741093.19	0.0139	0.0015
Earth	55-05-25 14:24 J	1741290.86	1741291.10	1741291.37	0.0139	0.0025
Moon	55-05-25 17:16 J	1741290.97	1741291.22	1741291.46	0.0139	0.0031 *
Venus	55-06-22 19:40 J	1741319.14	1741319.32	1741319.53	0.0139	0.0063
Venus	56-02-04 04:19 J	1741545.56	1741545.68	1741545.83	0.0138	0.0109
Moon	56-05-29 06:28 J	1741660.51	1741660.77	1741661.03	0.0138	0.0015
Earth	56-05-29 09:07 J	1741660.62	1741660.88	1741661.14	0.0138	0.0008 *
Earth	57-06-03 02:38 J	1742030.36	1742030.61	1742030.86	0.0138	0.0040
Moon	57-06-03 04:33 J	1742030.46	1742030.69	1742030.94	0.0138	0.0036 *
Moon	58-06-07 17:45 J	1742400.03	1742400.24	1742400.48	0.0137	0.0072
Earth	58-06-07 19:26 J	1742400.10	1742400.31	1742400.54	0.0137	0.0071 *
Earth	59-06-12 11:16 J	1742769.82	1742769.97	1742770.16	0.0137	0.0102
Moon	59-06-12 13:12 J	1742769.89	1742770.05	1742770.22	0.0137	0.0103 *
Moon	60-06-16 02:24 J	1743139.51	1743139.60	1743139.72	0.0136	0.0126
Earth	60-06-16 02:52 J	1743139.58	1743139.62	1743139.71	0.0136	0.0132 *
Mercury	88-06-21 13:55 J	1753372.08	1753372.08	1753372.09	0.0135	0.0134
Mercury	88-09-17 17:02 J	1753460.15	1753460.21	1753460.28	0.0135	0.0117
Mercury	88-12-14 20:09 J	1753548.26	1753548.34	1753548.44	0.0135	0.0099
Mercury	89-03-12 23:16 J	1753636.37	1753636.47	1753636.58	0.0135	0.0081
Mars	89-03-22 17:16 J	1753645.92	1753646.22	1753646.52	0.0135	0.0001
Mercury	89-06-09 02:38 J	1753724.49	1753724.61	1753724.72	0.0135	0.0063
Mercury	89-09-05 05:31 J	1753812.61	1753812.73	1753812.86	0.0135	0.0046
Mercury	89-12-02 08:52 J	1753900.74	1753900.87	1753901.00	0.0135	0.0028
Mercury	90-02-28 12:00 J	1753988.86	1753989.00	1753989.13	0.0135	0.0011

Mercury	90-05-27 15:07 J	1754076.99	1754077.13	1754077.26	0.0136	0.0008
Mercury	90-08-23 18:00 J	1754165.13	1754165.25	1754165.39	0.0136	0.0026
Mercury	90-11-19 21:07 J	1754253.26	1754253.38	1754253.51	0.0136	0.0043
Mercury	91-02-16 00:14 J	1754341.40	1754341.51	1754341.63	0.0136	0.0061
Mercury	91-05-15 03:21 J	1754429.54	1754429.64	1754429.75	0.0136	0.0078
Mercury	91-08-11 06:28 J	1754517.68	1754517.77	1754517.86	0.0136	0.0096
Mercury	91-11-07 09:35 J	1754605.83	1754605.90	1754605.97	0.0136	0.0114
Mercury	92-02-03 12:28 J	1754694.00	1754694.02	1754694.06	0.0136	0.0132
Moon	95-11-08 04:33 J	1756067.66	1756067.69	1756067.77	0.0138	0.0134
Earth	96-11-11 19:12 J	1756437.18	1756437.30	1756437.47	0.0138	0.0113
Moon	96-11-11 22:47 J	1756437.34	1756437.45	1756437.59	0.0138	0.0120 *
Venus	97-08-07 09:50 J	1756705.79	1756705.91	1756706.04	0.0139	0.0112
Moon	97-11-16 03:50 J	1756806.45	1756806.66	1756806.87	0.0139	0.0077
Earth	97-11-16 06:57 J	1756806.60	1756806.79	1756807.00	0.0139	0.0082 *
Venus	98-03-21 18:00 J	1756932.06	1756932.25	1756932.44	0.0139	0.0065
Venus	98-11-03 02:09 J	1757158.38	1757158.59	1757158.81	0.0139	0.0019
Earth	98-11-20 18:57 J	1757176.08	1757176.29	1757176.54	0.0139	0.0052
Moon	98-11-20 22:47 J	1757176.23	1757176.45	1757176.69	0.0139	0.0053 *
Venus	99-06-17 10:19 J	1757384.73	1757384.93	1757385.15	0.0140	0.0030
Moon	99-11-25 05:02 J	1757545.46	1757545.71	1757545.96	0.0140	0.0021
Earth	99-11-25 08:24 J	1757545.60	1757545.85	1757546.10	0.0140	0.0019 *
Venus	100-01-29 18:57 J	1757611.11	1757611.29	1757611.47	0.0140	0.0077
Venus	100-09-12 03:21 J	1757837.56	1757837.64	1757837.75	0.0140	0.0126
Earth	100-11-28 21:35 J	1757915.16	1757915.40	1757915.66	0.0140	0.0014
Moon	100-11-29 00:57 J	1757915.30	1757915.54	1757915.79	0.0140	0.0019 *
Moon	101-12-03 08:38 J	1758284.63	1758284.86	1758285.12	0.0141	0.0040
Earth	101-12-03 12:14 J	1758284.78	1758285.01	1758285.25	0.0141	0.0046 *
Earth	102-12-08 03:21 J	1758654.43	1758654.64	1758654.85	0.0141	0.0079
Moon	102-12-08 05:45 J	1758654.56	1758654.74	1758654.95	0.0141	0.0086 *
Moon	103-12-12 15:50 J	1759024.01	1759024.16	1759024.35	0.0142	0.0106

Earth	103-12-12 18:57 J	1759024.15	1759024.29	1759024.46	0.0142	0.0112	*
Mars	127-11-06 22:19 J	1767754.35	1767754.43	1767754.56	0.0144	0.0136	
Mercury	129-04-12 18:28 J	1768277.20	1768277.27	1768277.36	0.0143	0.0129	
Mercury	129-07-10 02:38 J	1768365.48	1768365.61	1768365.75	0.0143	0.0099	
Mercury	129-10-06 10:47 J	1768453.79	1768453.95	1768454.12	0.0143	0.0069	
Mars	129-10-11 09:21 J	1768458.60	1768458.89	1768459.20	0.0143	0.0041	
Mercury	130-01-02 18:57 J	1768542.11	1768542.29	1768542.48	0.0143	0.0039	
Mercury	130-04-01 03:21 J	1768630.45	1768630.64	1768630.83	0.0143	0.0009	
Mercury	130-06-28 11:31 J	1768718.79	1768718.98	1768719.17	0.0143	0.0022	
Mercury	130-09-24 19:40 J	1768807.15	1768807.32	1768807.51	0.0143	0.0052	
Mercury	130-12-22 04:04 J	1768895.52	1768895.67	1768895.83	0.0142	0.0083	
Mercury	131-03-20 12:00 J	1768983.90	1768984.00	1768984.14	0.0142	0.0114	
Moon	136-05-11 06:00 J	1770862.63	1770862.75	1770862.92	0.0140	0.0116	
Earth	136-05-11 10:04 J	1770862.80	1770862.92	1770863.07	0.0140	0.0119	*
Venus	137-04-11 23:02 J	1771198.33	1771198.46	1771198.61	0.0140	0.0105	
Earth	137-05-16 06:57 J	1771232.58	1771232.79	1771232.99	0.0140	0.0086	
Moon	137-05-16 10:04 J	1771232.74	1771232.92	1771233.14	0.0140	0.0087	*
Venus	137-11-24 08:24 J	1771424.65	1771424.85	1771425.05	0.0139	0.0056	
Moon	138-05-20 23:02 J	1771602.24	1771602.46	1771602.71	0.0139	0.0058	
Earth	138-05-21 02:38 J	1771602.38	1771602.61	1771602.85	0.0139	0.0053	*
Venus	138-07-08 17:31 J	1771651.01	1771651.23	1771651.45	0.0139	0.0009	
Venus	139-02-20 02:24 J	1771877.39	1771877.60	1771877.81	0.0139	0.0039	
Earth	139-05-25 21:35 J	1771972.15	1771972.40	1771972.66	0.0139	0.0021	
Moon	139-05-26 00:57 J	1771972.29	1771972.54	1771972.80	0.0139	0.0014	*
Venus	139-10-04 11:02 J	1772103.79	1772103.96	1772104.13	0.0138	0.0086	
Venus	140-05-17 19:26 J	1772330.26	1772330.31	1772330.38	0.0138	0.0132	
Moon	140-05-29 13:12 J	1772341.79	1772342.05	1772342.32	0.0138	0.0005	
Earth	140-05-29 16:04 J	1772341.92	1772342.17	1772342.43	0.0138	0.0012	*
Earth	141-06-03 09:35 J	1772711.67	1772711.90	1772712.16	0.0138	0.0044	
Moon	141-06-03 12:14 J	1772711.78	1772712.01	1772712.26	0.0138	0.0049	*

Moon	142-06-08 00:00 J	1773081.28	1773081.50	1773081.73	0.0137	0.0071
Earth	142-06-08 02:52 J	1773081.40	1773081.62	1773081.83	0.0137	0.0075 *
Earth	143-06-12 18:57 J	1773451.13	1773451.29	1773451.46	0.0137	0.0105
Moon	143-06-12 20:38 J	1773451.21	1773451.36	1773451.53	0.0137	0.0103 *
Earth	144-06-16 10:33 J	1773820.92	1773820.94	1773821.00	0.0136	0.0135
Mars	171-12-15 08:52 J	1783863.65	1783863.87	1783864.11	0.0135	0.0086
Mercury	172-07-11 20:52 J	1784073.35	1784073.37	1784073.40	0.0135	0.0131
Mercury	172-10-08 00:14 J	1784161.44	1784161.51	1784161.58	0.0135	0.0113
Mercury	173-01-04 03:07 J	1784249.55	1784249.63	1784249.73	0.0135	0.0096
Mercury	173-04-02 06:14 J	1784337.66	1784337.76	1784337.88	0.0135	0.0078
Mercury	173-06-29 09:35 J	1784425.78	1784425.90	1784426.02	0.0135	0.0060
Mercury	173-09-25 12:43 J	1784513.90	1784514.03	1784514.15	0.0135	0.0043
Mars	173-11-15 07:55 J	1784564.57	1784564.83	1784565.13	0.0135	0.0051
Mercury	173-12-22 15:50 J	1784602.03	1784602.16	1784602.29	0.0135	0.0025
Mercury	174-03-20 18:57 J	1784690.16	1784690.29	1784690.42	0.0135	0.0007
Mercury	174-06-16 22:04 J	1784778.29	1784778.42	1784778.55	0.0136	0.0011
Mercury	174-09-13 00:57 J	1784866.42	1784866.54	1784866.68	0.0136	0.0029
Mercury	174-12-10 04:04 J	1784954.55	1784954.67	1784954.80	0.0136	0.0046
Mercury	175-03-08 07:12 J	1785042.69	1785042.80	1785042.92	0.0136	0.0064
Mercury	175-06-04 10:19 J	1785130.83	1785130.93	1785131.04	0.0136	0.0081
Mercury	175-08-31 13:26 J	1785218.97	1785219.06	1785219.15	0.0136	0.0099
Mercury	175-11-27 16:19 J	1785307.13	1785307.18	1785307.26	0.0136	0.0117
Mercury	176-02-23 19:26 J	1785395.30	1785395.31	1785395.34	0.0136	0.0135
Earth	179-11-08 17:16 J	1786749.22	1786749.22	1786749.25	0.0138	0.0138
Earth	180-11-12 04:04 J	1787118.53	1787118.67	1787118.84	0.0138	0.0109
Moon	180-11-12 07:40 J	1787118.66	1787118.82	1787119.00	0.0138	0.0102 *
Venus	181-04-06 17:02 J	1787264.18	1787264.21	1787264.28	0.0139	0.0135
Moon	181-11-16 12:00 J	1787487.82	1787488.00	1787488.22	0.0139	0.0085
Earth	181-11-16 16:04 J	1787487.96	1787488.17	1787488.38	0.0139	0.0078 *
Venus	181-11-19 01:12 J	1787490.39	1787490.55	1787490.72	0.0139	0.0088

Venus	182-07-03 09:21 J	1787716.69	1787716.89	1787717.10	0.0139	0.0041
Earth	182-11-21 04:04 J	1787857.44	1787857.67	1787857.91	0.0139	0.0047
Moon	182-11-21 07:26 J	1787857.58	1787857.81	1787858.05	0.0139	0.0046 *
Venus	183-02-14 17:45 J	1787943.02	1787943.24	1787943.45	0.0139	0.0006
Venus	183-09-29 02:09 J	1788169.39	1788169.59	1788169.79	0.0140	0.0054
Moon	183-11-25 13:12 J	1788226.81	1788227.05	1788227.31	0.0140	0.0015
Earth	183-11-25 17:02 J	1788226.96	1788227.21	1788227.46	0.0140	0.0016 *
Venus	184-05-12 10:19 J	1788395.80	1788395.93	1788396.10	0.0140	0.0102
Earth	184-11-29 06:28 J	1788596.53	1788596.77	1788597.03	0.0140	0.0017
Moon	184-11-29 10:04 J	1788596.67	1788596.92	1788597.17	0.0140	0.0013 *
Moon	185-12-03 17:31 J	1788966.01	1788966.23	1788966.47	0.0141	0.0057
Earth	185-12-03 20:52 J	1788966.15	1788966.37	1788966.61	0.0141	0.0050 *
Earth	186-12-08 11:45 J	1789335.80	1789335.99	1789336.21	0.0141	0.0083
Moon	186-12-08 15:21 J	1789335.94	1789336.14	1789336.36	0.0141	0.0075 *
Moon	187-12-13 00:57 J	1789705.42	1789705.54	1789705.68	0.0142	0.0121
Earth	187-12-13 03:35 J	1789705.53	1789705.65	1789705.81	0.0142	0.0116 *
Mars	212-07-02 11:16 J	1798673.70	1798673.97	1798674.25	0.0143	0.0072
Mercury	213-05-03 00:28 J	1798978.44	1798978.52	1798978.62	0.0143	0.0126
Mercury	213-07-30 08:38 J	1799066.73	1799066.86	1799067.01	0.0143	0.0096
Mercury	213-10-26 16:47 J	1799155.04	1799155.20	1799155.38	0.0143	0.0066
Mercury	214-01-23 01:12 J	1799243.37	1799243.55	1799243.74	0.0143	0.0036
Mercury	214-04-21 09:21 J	1799331.70	1799331.89	1799332.09	0.0143	0.0006
Mars	214-06-06 17:16 J	1799378.01	1799378.22	1799378.44	0.0143	0.0101
Mercury	214-07-18 17:45 J	1799420.05	1799420.24	1799420.43	0.0143	0.0025
Mercury	214-10-15 01:40 J	1799508.40	1799508.57	1799508.76	0.0143	0.0056
Mercury	215-01-11 10:04 J	1799596.77	1799596.92	1799597.08	0.0142	0.0086
Mercury	215-04-09 18:14 J	1799685.16	1799685.26	1799685.38	0.0142	0.0116
Moon	220-05-11 12:57 J	1801543.92	1801544.04	1801544.17	0.0140	0.0121
Earth	220-05-11 16:19 J	1801544.05	1801544.18	1801544.34	0.0140	0.0115 *
Venus	220-12-10 04:19 J	1801756.62	1801756.68	1801756.78	0.0140	0.0130

Earth	221-05-16 12:43 J	1801913.84	1801914.03	1801914.25	0.0140	0.0083
Moon	221-05-16 16:19 J	1801913.99	1801914.18	1801914.40	0.0140	0.0084 *
Venus	221-07-24 13:40 J	1801982.91	1801983.07	1801983.26	0.0140	0.0082
Venus	222-03-07 23:16 J	1802209.26	1802209.47	1802209.69	0.0139	0.0033
Moon	222-05-21 04:47 J	1802283.47	1802283.70	1802283.95	0.0139	0.0047
Earth	222-05-21 08:38 J	1802283.63	1802283.86	1802284.11	0.0139	0.0050 *
Venus	222-10-20 08:09 J	1802435.63	1802435.84	1802436.07	0.0139	0.0015
Earth	223-05-26 03:50 J	1802653.41	1802653.66	1802653.92	0.0139	0.0017
Moon	223-05-26 07:12 J	1802653.55	1802653.80	1802654.06	0.0139	0.0024 *
Venus	223-06-03 17:02 J	1802662.02	1802662.21	1802662.41	0.0139	0.0062
Venus	224-01-16 01:26 J	1802888.44	1802888.56	1802888.71	0.0138	0.0109
Moon	224-05-29 18:57 J	1803023.04	1803023.29	1803023.56	0.0138	0.0023
Earth	224-05-29 22:33 J	1803023.19	1803023.44	1803023.70	0.0138	0.0015 *
Earth	225-06-03 16:19 J	1803392.94	1803393.18	1803393.42	0.0138	0.0047
Moon	225-06-03 19:26 J	1803393.07	1803393.31	1803393.55	0.0138	0.0041 *
Moon	226-06-08 06:43 J	1803762.57	1803762.78	1803763.00	0.0137	0.0081
Earth	226-06-08 09:21 J	1803762.69	1803762.89	1803763.11	0.0137	0.0078 *
Earth	227-06-13 01:40 J	1804132.43	1804132.57	1804132.74	0.0137	0.0109
Moon	227-06-13 04:33 J	1804132.55	1804132.69	1804132.86	0.0137	0.0109 *
Moon	228-06-16 15:35 J	1804502.12	1804502.15	1804502.22	0.0136	0.0134
Mercury	256-08-01 03:50 J	1814774.63	1814774.66	1814774.71	0.0135	0.0128
Mars	256-08-08 22:33 J	1814782.15	1814782.44	1814782.73	0.0135	0.0036
Mercury	256-10-28 06:57 J	1814862.72	1814862.79	1814862.88	0.0135	0.0110
Mercury	257-01-24 10:19 J	1814950.84	1814950.93	1814951.03	0.0135	0.0092
Mercury	257-04-22 13:26 J	1815038.95	1815039.06	1815039.17	0.0135	0.0075
Mercury	257-07-19 16:33 J	1815127.07	1815127.19	1815127.31	0.0135	0.0057
Mercury	257-10-15 19:40 J	1815215.20	1815215.32	1815215.45	0.0135	0.0039
Mercury	258-01-11 22:47 J	1815303.32	1815303.45	1815303.58	0.0135	0.0022
Mercury	258-04-10 01:55 J	1815391.45	1815391.58	1815391.72	0.0135	0.0005
Mercury	258-07-07 05:02 J	1815479.58	1815479.71	1815479.84	0.0136	0.0014

Mars	258-07-10 23:02 J	1815483.29	1815483.46	1815483.68	0.0136	0.0103
Mercury	258-10-03 08:09 J	1815567.71	1815567.84	1815567.97	0.0136	0.0032
Mercury	258-12-30 11:16 J	1815655.85	1815655.97	1815656.09	0.0136	0.0049
Mercury	259-03-28 14:24 J	1815743.98	1815744.10	1815744.21	0.0136	0.0067
Mercury	259-06-24 17:16 J	1815832.13	1815832.22	1815832.33	0.0136	0.0085
Mercury	259-09-20 20:24 J	1815920.27	1815920.35	1815920.44	0.0136	0.0103
Mercury	259-12-17 23:31 J	1816008.42	1816008.48	1816008.54	0.0136	0.0120
Moon	263-11-08 23:31 J	1817430.38	1817430.48	1817430.57	0.0138	0.0126
Earth	263-11-09 02:24 J	1817430.56	1817430.60	1817430.68	0.0138	0.0134 *
Earth	264-11-12 13:26 J	1817799.91	1817800.06	1817800.24	0.0138	0.0105
Moon	264-11-12 17:02 J	1817800.07	1817800.21	1817800.36	0.0138	0.0112 *
Venus	265-07-19 08:52 J	1818048.75	1818048.87	1818049.01	0.0139	0.0111
Moon	265-11-16 21:50 J	1818169.20	1818169.41	1818169.64	0.0139	0.0069
Earth	265-11-17 01:26 J	1818169.35	1818169.56	1818169.77	0.0139	0.0074 *
Venus	266-03-02 17:02 J	1818275.02	1818275.21	1818275.41	0.0139	0.0064
Venus	266-10-15 01:26 J	1818501.34	1818501.56	1818501.78	0.0139	0.0017
Earth	266-11-21 13:26 J	1818538.83	1818539.06	1818539.30	0.0139	0.0043
Moon	266-11-21 17:02 J	1818538.98	1818539.21	1818539.46	0.0139	0.0047 *
Venus	267-05-29 09:35 J	1818727.70	1818727.90	1818728.12	0.0139	0.0031
Moon	267-11-25 23:02 J	1818908.22	1818908.46	1818908.72	0.0140	0.0012
Earth	267-11-26 02:38 J	1818908.36	1818908.61	1818908.86	0.0140	0.0011 *
Venus	268-01-10 18:00 J	1818954.08	1818954.25	1818954.44	0.0140	0.0079
Venus	268-08-24 02:38 J	1819180.54	1819180.61	1819180.71	0.0140	0.0127
Earth	268-11-29 16:04 J	1819277.93	1819278.17	1819278.42	0.0140	0.0021
Moon	268-11-29 19:40 J	1819278.08	1819278.32	1819278.57	0.0140	0.0027 *
Moon	269-12-04 03:07 J	1819647.40	1819647.63	1819647.87	0.0141	0.0048
Earth	269-12-04 06:43 J	1819647.55	1819647.78	1819648.01	0.0141	0.0054 *
Earth	270-12-08 21:50 J	1820017.21	1820017.41	1820017.61	0.0141	0.0087
Moon	270-12-09 00:57 J	1820017.37	1820017.54	1820017.73	0.0141	0.0094 *
Moon	271-12-13 09:35 J	1820386.77	1820386.90	1820387.07	0.0142	0.0113

Earth	271-12-13 13:12 J	1820386.94	1820387.05	1820387.20	0.0142	0.0120	*
Mars	297-02-26 00:14 J	1829593.19	1829593.51	1829593.82	0.0143	0.0010	
Mercury	297-05-23 06:57 J	1829679.70	1829679.79	1829679.89	0.0143	0.0122	
Mercury	297-08-19 15:07 J	1829767.99	1829768.13	1829768.28	0.0143	0.0092	
Mercury	297-11-15 23:16 J	1829856.30	1829856.47	1829856.65	0.0143	0.0062	
Mercury	298-02-12 07:26 J	1829944.63	1829944.81	1829945.00	0.0143	0.0032	
Mercury	298-05-11 15:50 J	1830032.96	1830033.16	1830033.35	0.0143	0.0004	
Mercury	298-08-07 23:45 J	1830121.31	1830121.49	1830121.69	0.0143	0.0029	
Mercury	298-11-04 08:09 J	1830209.67	1830209.84	1830210.02	0.0142	0.0059	
Mercury	299-01-31 16:04 J	1830298.04	1830298.17	1830298.34	0.0142	0.0090	
Mercury	299-04-30 00:28 J	1830386.43	1830386.52	1830386.64	0.0142	0.0120	
Moon	304-05-11 19:12 J	1832225.15	1832225.30	1832225.48	0.0140	0.0107	
Earth	304-05-11 22:47 J	1832225.31	1832225.45	1832225.61	0.0140	0.0111	*
Venus	305-03-23 19:26 J	1832541.19	1832541.31	1832541.47	0.0140	0.0107	
Earth	305-05-16 18:57 J	1832595.09	1832595.29	1832595.52	0.0140	0.0079	
Moon	305-05-16 22:33 J	1832595.24	1832595.44	1832595.67	0.0140	0.0081	*
Venus	305-11-05 04:47 J	1832767.51	1832767.70	1832767.91	0.0139	0.0059	
Moon	306-05-21 11:31 J	1832964.74	1832964.98	1832965.23	0.0139	0.0049	
Earth	306-05-21 14:52 J	1832964.89	1832965.12	1832965.38	0.0139	0.0046	*
Venus	306-06-19 13:55 J	1832993.87	1832994.08	1832994.31	0.0139	0.0011	
Venus	307-01-31 23:02 J	1833220.25	1833220.46	1833220.67	0.0139	0.0037	
Earth	307-05-26 10:19 J	1833334.67	1833334.93	1833335.19	0.0139	0.0013	
Moon	307-05-26 14:09 J	1833334.83	1833335.09	1833335.35	0.0139	0.0007	*
Venus	307-09-15 07:26 J	1833446.65	1833446.81	1833447.00	0.0138	0.0085	
Venus	308-04-28 16:04 J	1833673.12	1833673.17	1833673.25	0.0138	0.0131	
Moon	308-05-30 01:26 J	1833704.30	1833704.56	1833704.82	0.0138	0.0012	
Earth	308-05-30 04:47 J	1833704.45	1833704.70	1833704.96	0.0138	0.0020	*
Earth	309-06-03 22:33 J	1834074.21	1834074.44	1834074.69	0.0138	0.0051	
Moon	309-06-04 02:09 J	1834074.36	1834074.59	1834074.82	0.0138	0.0057	*
Moon	310-06-08 12:14 J	1834443.80	1834444.01	1834444.24	0.0137	0.0077	

Earth	310-06-08 15:35 J	1834443.96	1834444.15	1834444.37	0.0137	0.0082 *
Earth	311-06-13 08:24 J	1834813.71	1834813.85	1834814.00	0.0137	0.0112
Moon	311-06-13 11:02 J	1834813.83	1834813.96	1834814.12	0.0137	0.0112 *
Mars	339-05-03 17:16 J	1845000.11	1845000.22	1845000.37	0.0135	0.0121
Mercury	340-08-21 10:47 J	1845475.91	1845475.95	1845476.01	0.0135	0.0125
Mercury	340-11-17 13:55 J	1845564.01	1845564.08	1845564.17	0.0135	0.0107
Mercury	341-02-13 17:16 J	1845652.12	1845652.22	1845652.32	0.0135	0.0089
Mars	341-04-03 11:02 J	1845700.67	1845700.96	1845701.27	0.0135	0.0015
Mercury	341-05-12 20:24 J	1845740.24	1845740.35	1845740.47	0.0135	0.0072
Mercury	341-08-08 23:31 J	1845828.36	1845828.48	1845828.61	0.0135	0.0054
Mercury	341-11-05 02:38 J	1845916.49	1845916.61	1845916.74	0.0135	0.0036
Mercury	342-02-01 05:45 J	1846004.61	1846004.74	1846004.88	0.0136	0.0019
Mercury	342-04-30 08:52 J	1846092.74	1846092.87	1846093.01	0.0136	0.0004
Mercury	342-07-27 12:00 J	1846180.87	1846181.00	1846181.14	0.0136	0.0018
Mercury	342-10-23 15:07 J	1846269.01	1846269.13	1846269.26	0.0136	0.0035
Mercury	343-01-19 18:14 J	1846357.14	1846357.26	1846357.38	0.0136	0.0053
Mercury	343-04-17 21:21 J	1846445.28	1846445.39	1846445.50	0.0136	0.0070
Mercury	343-07-15 00:14 J	1846533.42	1846533.51	1846533.62	0.0136	0.0088
Mercury	343-10-11 03:35 J	1846621.57	1846621.65	1846621.73	0.0136	0.0106
Mercury	344-01-07 06:28 J	1846709.72	1846709.77	1846709.83	0.0136	0.0123
Moon	347-11-09 09:07 J	1848111.86	1848111.88	1848111.94	0.0138	0.0136
Earth	347-11-09 12:00 J	1848111.93	1848112.00	1848112.10	0.0138	0.0129 *
Earth	348-11-12 23:16 J	1848481.30	1848481.47	1848481.65	0.0138	0.0100
Moon	348-11-13 02:24 J	1848481.43	1848481.60	1848481.80	0.0138	0.0093 *
Venus	349-03-18 16:47 J	1848607.16	1848607.20	1848607.27	0.0138	0.0133
Venus	349-10-31 01:12 J	1848833.38	1848833.55	1848833.72	0.0139	0.0086
Moon	349-11-17 07:55 J	1848850.63	1848850.83	1848851.04	0.0139	0.0076
Earth	349-11-17 11:02 J	1848850.75	1848850.96	1848851.18	0.0139	0.0069 *
Venus	350-06-14 09:07 J	1849059.68	1849059.88	1849060.09	0.0139	0.0039
Earth	350-11-21 23:16 J	1849220.24	1849220.47	1849220.72	0.0139	0.0039

Moon	350-11-22 02:38 J	1849220.37	1849220.61	1849220.86	0.0139	0.0035 *
Venus	351-01-26 17:31 J	1849286.02	1849286.23	1849286.45	0.0139	0.0008
Venus	351-09-10 02:09 J	1849512.39	1849512.59	1849512.79	0.0140	0.0056
Moon	351-11-26 08:52 J	1849589.63	1849589.87	1849590.12	0.0140	0.0007
Earth	351-11-26 12:28 J	1849589.78	1849590.02	1849590.28	0.0140	0.0007 *
Venus	352-04-23 10:33 J	1849738.81	1849738.94	1849739.09	0.0140	0.0104
Earth	352-11-30 02:24 J	1849959.35	1849959.60	1849959.85	0.0140	0.0026
Moon	352-11-30 05:45 J	1849959.49	1849959.74	1849959.99	0.0140	0.0023 *
Moon	353-12-04 13:12 J	1850328.84	1850329.05	1850329.28	0.0141	0.0066
Earth	353-12-04 16:47 J	1850328.98	1850329.20	1850329.44	0.0141	0.0059 *
Earth	354-12-09 07:55 J	1850698.64	1850698.83	1850699.02	0.0141	0.0091
Moon	354-12-09 11:16 J	1850698.78	1850698.97	1850699.18	0.0141	0.0084 *
Moon	355-12-13 19:55 J	1851068.26	1851068.33	1851068.45	0.0142	0.0131
Earth	355-12-13 23:45 J	1851068.38	1851068.49	1851068.61	0.0142	0.0124 *
Mars	379-11-18 02:24 J	1859808.44	1859808.60	1859808.77	0.0144	0.0122
Mercury	381-06-12 13:40 J	1860380.98	1860381.07	1860381.19	0.0143	0.0117
Mercury	381-09-08 21:50 J	1860469.27	1860469.41	1860469.57	0.0143	0.0087
Mars	381-10-22 14:52 J	1860512.84	1860513.12	1860513.42	0.0143	0.0053
Mercury	381-12-06 06:00 J	1860557.58	1860557.75	1860557.93	0.0143	0.0057
Mercury	382-03-04 14:24 J	1860645.91	1860646.10	1860646.29	0.0143	0.0027
Mercury	382-05-31 22:33 J	1860734.25	1860734.44	1860734.63	0.0143	0.0003
Mercury	382-08-28 06:43 J	1860822.60	1860822.78	1860822.97	0.0143	0.0034
Mercury	382-11-24 14:52 J	1860910.95	1860911.12	1860911.30	0.0142	0.0064
Mercury	383-02-20 23:02 J	1860999.33	1860999.46	1860999.61	0.0142	0.0094
Mercury	383-05-20 07:12 J	1861087.72	1861087.80	1861087.91	0.0142	0.0125
Earth	387-05-08 09:07 J	1862536.87	1862536.88	1862536.93	0.0141	0.0140
Moon	387-05-08 12:28 J	1862536.94	1862537.02	1862537.11	0.0141	0.0132
Moon	388-05-12 03:35 J	1862906.52	1862906.65	1862906.81	0.0140	0.0113
Earth	388-05-12 06:14 J	1862906.61	1862906.76	1862906.95	0.0140	0.0107 *
Venus	388-11-21 01:55 J	1863099.52	1863099.58	1863099.67	0.0140	0.0131

Earth	389-05-17 03:07 J	1863276.41	1863276.63	1863276.85	0.0140	0.0074
Moon	389-05-17 06:00 J	1863276.55	1863276.75	1863276.99	0.0140	0.0074 *
Venus	389-07-05 11:16 J	1863325.80	1863325.97	1863326.16	0.0140	0.0083
Venus	390-02-16 20:38 J	1863552.15	1863552.36	1863552.58	0.0139	0.0034
Moon	390-05-21 18:57 J	1863646.06	1863646.29	1863646.55	0.0139	0.0040
Earth	390-05-21 22:47 J	1863646.21	1863646.45	1863646.70	0.0139	0.0041 *
Venus	390-10-01 05:45 J	1863778.52	1863778.74	1863778.96	0.0139	0.0013
Venus	391-05-15 14:24 J	1864004.91	1864005.10	1864005.30	0.0139	0.0061
Earth	391-05-26 18:00 J	1864015.99	1864016.25	1864016.51	0.0139	0.0009
Moon	391-05-26 21:21 J	1864016.14	1864016.39	1864016.66	0.0139	0.0015 *
Venus	391-12-27 23:16 J	1864231.33	1864231.47	1864231.60	0.0138	0.0108
Moon	392-05-30 08:52 J	1864385.62	1864385.87	1864386.12	0.0138	0.0031
Earth	392-05-30 12:43 J	1864385.78	1864386.03	1864386.29	0.0138	0.0023 *
Earth	393-06-04 06:14 J	1864755.53	1864755.76	1864756.00	0.0138	0.0056
Moon	393-06-04 09:50 J	1864755.68	1864755.91	1864756.16	0.0138	0.0049 *
Moon	394-06-08 19:55 J	1865125.15	1865125.33	1865125.54	0.0137	0.0091
Earth	394-06-08 23:31 J	1865125.29	1865125.48	1865125.69	0.0137	0.0087 *
Earth	395-06-13 15:50 J	1865495.05	1865495.16	1865495.32	0.0137	0.0117
Moon	395-06-13 19:55 J	1865495.20	1865495.33	1865495.47	0.0137	0.0115 *
Mars	423-12-27 04:19 J	1875918.45	1875918.68	1875918.95	0.0135	0.0072
Mercury	424-09-10 18:00 J	1876177.20	1876177.25	1876177.31	0.0135	0.0121
Mercury	424-12-07 21:07 J	1876265.30	1876265.38	1876265.47	0.0135	0.0104
Mercury	425-03-06 00:14 J	1876353.41	1876353.51	1876353.62	0.0135	0.0086
Mercury	425-06-02 03:21 J	1876441.53	1876441.64	1876441.76	0.0135	0.0068
Mercury	425-08-29 06:28 J	1876529.65	1876529.77	1876529.90	0.0135	0.0051
Mercury	425-11-25 09:50 J	1876617.78	1876617.91	1876618.04	0.0136	0.0033
Mars	425-11-27 01:26 J	1876619.30	1876619.56	1876619.83	0.0136	0.0065
Mercury	426-02-21 12:57 J	1876705.91	1876706.04	1876706.17	0.0136	0.0015
Mercury	426-05-20 16:04 J	1876794.04	1876794.17	1876794.30	0.0136	0.0004
Mercury	426-08-16 19:12 J	1876882.17	1876882.30	1876882.43	0.0136	0.0021

Mercury	426-11-12 22:19 J	1876970.30	1876970.43	1876970.55	0.0136	0.0038
Mercury	427-02-09 01:12 J	1877058.44	1877058.55	1877058.68	0.0136	0.0056
Mercury	427-05-08 04:19 J	1877146.57	1877146.68	1877146.79	0.0136	0.0074
Mercury	427-08-04 07:26 J	1877234.72	1877234.81	1877234.91	0.0136	0.0091
Mercury	427-10-31 10:19 J	1877322.86	1877322.93	1877323.02	0.0136	0.0109
Mercury	428-01-27 13:40 J	1877411.02	1877411.07	1877411.12	0.0136	0.0127
Moon	431-11-09 18:43 J	1878793.17	1878793.28	1878793.42	0.0138	0.0118
Earth	431-11-09 21:21 J	1878793.31	1878793.39	1878793.52	0.0138	0.0125 *
Earth	432-11-13 09:07 J	1879162.70	1879162.88	1879163.06	0.0138	0.0095
Moon	432-11-13 11:16 J	1879162.82	1879162.97	1879163.16	0.0138	0.0103 *
Venus	433-06-30 08:52 J	1879391.75	1879391.87	1879392.01	0.0139	0.0109
Moon	433-11-17 17:45 J	1879532.03	1879532.24	1879532.48	0.0139	0.0059
Earth	433-11-17 20:38 J	1879532.16	1879532.36	1879532.60	0.0139	0.0065 *
Venus	434-02-11 17:02 J	1879618.02	1879618.21	1879618.41	0.0139	0.0062
Venus	434-09-26 01:40 J	1879844.35	1879844.57	1879844.78	0.0139	0.0015
Earth	434-11-22 09:21 J	1879901.65	1879901.89	1879902.14	0.0139	0.0033
Moon	434-11-22 12:28 J	1879901.79	1879902.02	1879902.28	0.0139	0.0038 *
Venus	435-05-10 09:50 J	1880070.71	1880070.91	1880071.13	0.0139	0.0033
Moon	435-11-26 19:40 J	1880271.08	1880271.32	1880271.57	0.0140	0.0002
Earth	435-11-26 22:47 J	1880271.20	1880271.45	1880271.70	0.0140	0.0001 *
Venus	435-12-22 18:28 J	1880297.10	1880297.27	1880297.45	0.0140	0.0081
Venus	436-08-05 03:07 J	1880523.56	1880523.63	1880523.72	0.0140	0.0129
Earth	436-11-30 12:28 J	1880640.78	1880641.02	1880641.27	0.0140	0.0031
Moon	436-11-30 16:04 J	1880640.93	1880641.17	1880641.42	0.0140	0.0035 *
Moon	437-12-04 23:31 J	1881010.27	1881010.48	1881010.72	0.0141	0.0059
Earth	437-12-05 02:52 J	1881010.41	1881010.62	1881010.85	0.0141	0.0064 *
Earth	438-12-09 18:00 J	1881380.08	1881380.25	1881380.44	0.0141	0.0096
Moon	438-12-09 21:07 J	1881380.23	1881380.38	1881380.57	0.0141	0.0105 *
Moon	439-12-14 05:45 J	1881749.64	1881749.74	1881749.89	0.0142	0.0122
Earth	439-12-14 09:50 J	1881749.81	1881749.91	1881750.02	0.0142	0.0129 *

Mars	464-07-13 23:45 J	1890728.21	1890728.49	1890728.80	0.0143	0.0056
Mercury	465-04-05 13:12 J	1890994.02	1890994.05	1890994.10	0.0143	0.0139
Mercury	465-07-02 21:21 J	1891082.27	1891082.39	1891082.51	0.0143	0.0109
Mercury	465-09-29 05:16 J	1891170.57	1891170.72	1891170.89	0.0143	0.0080
Mercury	465-12-26 13:26 J	1891258.89	1891259.06	1891259.25	0.0143	0.0050
Mercury	466-03-24 21:35 J	1891347.22	1891347.40	1891347.60	0.0143	0.0020
Mars	466-06-18 07:26 J	1891432.65	1891432.81	1891433.01	0.0143	0.0116
Mercury	466-06-21 06:00 J	1891435.56	1891435.75	1891435.94	0.0143	0.0011
Mercury	466-09-17 14:09 J	1891523.90	1891524.09	1891524.27	0.0142	0.0041
Mercury	466-12-14 22:04 J	1891612.27	1891612.42	1891612.60	0.0142	0.0071
Mercury	467-03-13 06:14 J	1891700.64	1891700.76	1891700.91	0.0142	0.0102
Mercury	467-06-09 14:38 J	1891789.05	1891789.11	1891789.19	0.0142	0.0131
Earth	471-05-08 18:28 J	1893218.22	1893218.27	1893218.37	0.0140	0.0135
Moon	472-05-12 12:43 J	1893587.87	1893588.03	1893588.23	0.0140	0.0097
Earth	472-05-12 15:35 J	1893587.99	1893588.15	1893588.34	0.0140	0.0102 *
Venus	473-03-04 18:57 J	1893884.15	1893884.29	1893884.44	0.0140	0.0106
Earth	473-05-17 12:00 J	1893957.78	1893958.00	1893958.23	0.0140	0.0069
Moon	473-05-17 14:52 J	1893957.90	1893958.12	1893958.35	0.0140	0.0072 *
Venus	473-10-17 04:04 J	1894110.48	1894110.67	1894110.88	0.0139	0.0058
Moon	474-05-22 04:33 J	1894327.45	1894327.69	1894327.94	0.0139	0.0038
Earth	474-05-22 07:55 J	1894327.58	1894327.83	1894328.08	0.0139	0.0036 *
Venus	474-05-31 13:12 J	1894336.83	1894337.05	1894337.27	0.0139	0.0010
Venus	475-01-12 22:04 J	1894563.21	1894563.42	1894563.63	0.0139	0.0038
Earth	475-05-27 03:07 J	1894697.37	1894697.63	1894697.89	0.0139	0.0004
Moon	475-05-27 06:43 J	1894697.52	1894697.78	1894698.04	0.0139	0.0002 *
Venus	475-08-27 06:28 J	1894789.61	1894789.77	1894789.96	0.0138	0.0086
Venus	476-04-09 15:07 J	1895016.09	1895016.13	1895016.21	0.0138	0.0132
Moon	476-05-30 18:00 J	1895067.00	1895067.25	1895067.51	0.0138	0.0022
Earth	476-05-30 21:21 J	1895067.14	1895067.39	1895067.65	0.0138	0.0029 *
Earth	477-06-04 15:21 J	1895436.91	1895437.14	1895437.37	0.0138	0.0060

Moon	477-06-04 18:57 J	1895437.07	1895437.29	1895437.52	0.0138	0.0067 *
Moon	478-06-09 04:33 J	1895806.50	1895806.69	1895806.91	0.0137	0.0086
Earth	478-06-09 08:24 J	1895806.67	1895806.85	1895807.05	0.0137	0.0091 *
Earth	479-06-14 00:57 J	1896176.43	1896176.54	1896176.66	0.0137	0.0121
Moon	479-06-14 04:19 J	1896176.58	1896176.68	1896176.81	0.0137	0.0122 *
Mars	508-08-20 15:35 J	1906836.86	1906837.15	1906837.45	0.0135	0.0022
Mercury	508-10-01 00:57 J	1906878.48	1906878.54	1906878.60	0.0135	0.0118
Mercury	508-12-28 03:50 J	1906966.58	1906966.66	1906966.76	0.0135	0.0101
Mercury	509-03-26 07:12 J	1907054.70	1907054.80	1907054.91	0.0135	0.0083
Mercury	509-06-22 10:19 J	1907142.82	1907142.93	1907143.05	0.0135	0.0065
Mercury	509-09-18 13:26 J	1907230.94	1907231.06	1907231.19	0.0136	0.0048
Mercury	509-12-15 16:33 J	1907319.06	1907319.19	1907319.32	0.0136	0.0030
Mercury	510-03-13 19:40 J	1907407.19	1907407.32	1907407.46	0.0136	0.0013
Mercury	510-06-09 22:47 J	1907495.32	1907495.45	1907495.59	0.0136	0.0007
Mars	510-07-22 15:35 J	1907538.01	1907538.15	1907538.32	0.0136	0.0116
Mercury	510-09-06 01:55 J	1907583.45	1907583.58	1907583.71	0.0136	0.0024
Mercury	510-12-03 05:02 J	1907671.59	1907671.71	1907671.84	0.0136	0.0041
Mercury	511-03-01 08:09 J	1907759.72	1907759.84	1907759.96	0.0136	0.0059
Mercury	511-05-28 11:16 J	1907847.86	1907847.97	1907848.08	0.0136	0.0076
Mercury	511-08-24 14:09 J	1907936.01	1907936.09	1907936.19	0.0136	0.0095
Mercury	511-11-20 17:31 J	1908024.16	1908024.23	1908024.30	0.0136	0.0112
Mercury	512-02-16 20:24 J	1908112.32	1908112.35	1908112.40	0.0136	0.0130
Moon	515-11-10 04:47 J	1909474.62	1909474.70	1909474.81	0.0138	0.0126
Earth	515-11-10 06:43 J	1909474.67	1909474.78	1909474.91	0.0138	0.0120 *
Earth	516-11-13 18:00 J	1909844.07	1909844.25	1909844.45	0.0138	0.0091
Moon	516-11-13 20:24 J	1909844.16	1909844.35	1909844.57	0.0138	0.0084 *
Venus	517-02-27 16:19 J	1909950.13	1909950.18	1909950.26	0.0139	0.0132
Venus	517-10-12 00:43 J	1910176.37	1910176.53	1910176.71	0.0139	0.0085
Moon	517-11-18 03:35 J	1910213.44	1910213.65	1910213.87	0.0139	0.0067
Earth	517-11-18 06:00 J	1910213.53	1910213.75	1910213.98	0.0139	0.0060 *

Venus	518-05-26 08:52 J	1910402.67	1910402.87	1910403.09	0.0139	0.0038
Earth	518-11-22 18:43 J	1910583.04	1910583.28	1910583.53	0.0139	0.0029
Moon	518-11-22 21:21 J	1910583.14	1910583.39	1910583.65	0.0139	0.0025 *
Venus	519-01-07 17:16 J	1910629.01	1910629.22	1910629.44	0.0139	0.0011
Venus	519-08-22 01:55 J	1910855.39	1910855.58	1910855.78	0.0140	0.0058
Moon	519-11-27 05:02 J	1910952.46	1910952.71	1910952.95	0.0140	0.0003
Earth	519-11-27 08:09 J	1910952.59	1910952.84	1910953.09	0.0140	0.0004 *
Venus	520-04-04 10:19 J	1911081.81	1911081.93	1911082.09	0.0140	0.0106
Earth	520-11-30 21:35 J	1911322.17	1911322.40	1911322.65	0.0140	0.0037
Moon	520-12-01 00:28 J	1911322.29	1911322.52	1911322.78	0.0140	0.0035 *
Moon	521-12-05 08:52 J	1911691.67	1911691.87	1911692.09	0.0141	0.0075
Earth	521-12-05 12:00 J	1911691.80	1911692.00	1911692.24	0.0141	0.0069 *
Earth	522-12-10 03:07 J	1912061.47	1912061.63	1912061.82	0.0141	0.0101
Moon	522-12-10 06:43 J	1912061.60	1912061.78	1912061.97	0.0141	0.0093 *
Moon	523-12-14 15:50 J	1912431.13	1912431.16	1912431.20	0.0142	0.0140
Earth	523-12-14 18:43 J	1912431.22	1912431.28	1912431.39	0.0142	0.0134
Mars	549-03-09 19:40 J	1921648.01	1921648.32	1921648.64	0.0143	0.0010
Mercury	549-04-25 20:24 J	1921695.29	1921695.35	1921695.43	0.0143	0.0132
Mercury	549-07-23 04:33 J	1921783.56	1921783.69	1921783.83	0.0143	0.0102
Mercury	549-10-19 12:43 J	1921871.87	1921872.03	1921872.20	0.0143	0.0072
Mercury	550-01-15 20:38 J	1921960.19	1921960.36	1921960.55	0.0143	0.0043
Mercury	550-04-14 05:02 J	1922048.52	1922048.71	1922048.90	0.0143	0.0012
Mercury	550-07-11 13:12 J	1922136.86	1922137.05	1922137.24	0.0143	0.0018
Mercury	550-10-07 21:21 J	1922225.21	1922225.39	1922225.57	0.0142	0.0048
Mercury	551-01-04 05:16 J	1922313.57	1922313.72	1922313.90	0.0142	0.0079
Mercury	551-04-02 13:40 J	1922401.96	1922402.07	1922402.20	0.0142	0.0108
Mercury	551-06-29 21:50 J	1922490.38	1922490.41	1922490.46	0.0142	0.0139
Earth	555-05-09 04:47 J	1923899.61	1923899.70	1923899.80	0.0140	0.0130
Moon	555-05-09 06:28 J	1923899.66	1923899.77	1923899.91	0.0140	0.0123 *
Moon	556-05-12 23:31 J	1924269.33	1924269.48	1924269.67	0.0140	0.0104

Earth	556-05-13 01:26 J	1924269.39	1924269.56	1924269.76	0.0140	0.0097	*
Venus	556-11-02 02:52 J	1924442.53	1924442.62	1924442.70	0.0140	0.0128	
Earth	557-05-17 21:50 J	1924639.19	1924639.41	1924639.65	0.0139	0.0064	
Moon	557-05-18 00:28 J	1924639.29	1924639.52	1924639.77	0.0139	0.0062	*
Venus	557-06-16 12:00 J	1924668.82	1924669.00	1924669.18	0.0139	0.0080	
Venus	558-01-28 21:07 J	1924895.17	1924895.38	1924895.60	0.0139	0.0032	
Moon	558-05-22 14:52 J	1925008.88	1925009.12	1925009.37	0.0139	0.0031	
Earth	558-05-22 18:00 J	1925009.00	1925009.25	1925009.50	0.0139	0.0031	*
Venus	558-09-12 06:14 J	1925121.54	1925121.76	1925121.97	0.0139	0.0016	
Venus	559-04-26 14:52 J	1925347.93	1925348.12	1925348.32	0.0139	0.0064	
Earth	559-05-27 12:57 J	1925378.78	1925379.04	1925379.30	0.0139	0.0002	
Moon	559-05-27 16:04 J	1925378.91	1925379.17	1925379.43	0.0139	0.0003	*
Venus	559-12-08 23:31 J	1925574.36	1925574.48	1925574.62	0.0138	0.0110	
Moon	560-05-31 03:50 J	1925748.42	1925748.66	1925748.91	0.0138	0.0041	
Earth	560-05-31 07:40 J	1925748.57	1925748.82	1925749.07	0.0138	0.0033	*
Earth	561-06-05 00:57 J	1926118.32	1926118.54	1926118.78	0.0138	0.0065	
Moon	561-06-05 04:33 J	1926118.46	1926118.69	1926118.93	0.0138	0.0058	*
Moon	562-06-09 14:52 J	1926487.95	1926488.12	1926488.29	0.0137	0.0101	
Earth	562-06-09 18:00 J	1926488.09	1926488.25	1926488.46	0.0137	0.0097	*
Earth	563-06-14 10:33 J	1926857.85	1926857.94	1926858.05	0.0137	0.0126	
Moon	563-06-14 14:09 J	1926858.00	1926858.09	1926858.22	0.0137	0.0124	*
Mars	591-05-15 11:02 J	1937054.77	1937054.96	1937055.15	0.0135	0.0104	
Mercury	592-07-25 04:33 J	1937491.68	1937491.69	1937491.71	0.0135	0.0133	
Mercury	592-10-21 07:55 J	1937579.76	1937579.83	1937579.89	0.0135	0.0116	
Mercury	593-01-17 10:47 J	1937667.87	1937667.95	1937668.05	0.0135	0.0098	
Mars	593-04-15 03:07 J	1937755.35	1937755.63	1937755.94	0.0135	0.0029	
Mercury	593-04-15 13:55 J	1937755.98	1937756.08	1937756.19	0.0135	0.0081	
Mercury	593-07-12 17:16 J	1937844.10	1937844.22	1937844.34	0.0135	0.0062	
Mercury	593-10-08 20:24 J	1937932.22	1937932.35	1937932.47	0.0135	0.0045	
Mercury	594-01-04 23:31 J	1938020.35	1938020.48	1938020.61	0.0136	0.0027	

Mercury	594-04-03 02:38 J	1938108.48	1938108.61	1938108.74	0.0136	0.0009
Mercury	594-06-30 05:45 J	1938196.61	1938196.74	1938196.87	0.0136	0.0008
Mercury	594-09-26 08:52 J	1938284.74	1938284.87	1938285.00	0.0136	0.0026
Mercury	594-12-23 12:00 J	1938372.87	1938373.00	1938373.12	0.0136	0.0044
Mercury	595-03-21 15:07 J	1938461.01	1938461.13	1938461.24	0.0136	0.0061
Mercury	595-06-17 18:00 J	1938549.15	1938549.25	1938549.36	0.0136	0.0079
Mercury	595-09-13 21:07 J	1938637.30	1938637.38	1938637.48	0.0136	0.0097
Mercury	595-12-11 00:14 J	1938725.45	1938725.51	1938725.58	0.0136	0.0115
Mercury	596-03-08 03:07 J	1938813.61	1938813.63	1938813.67	0.0136	0.0133
Moon	599-11-10 13:12 J	1940155.92	1940156.05	1940156.21	0.0138	0.0111
Earth	599-11-10 14:52 J	1940156.01	1940156.12	1940156.27	0.0138	0.0117 *
Earth	600-11-14 02:24 J	1940525.42	1940525.60	1940525.81	0.0138	0.0087
Moon	600-11-14 04:04 J	1940525.49	1940525.67	1940525.87	0.0138	0.0094 *
Venus	601-06-11 07:40 J	1940734.70	1940734.82	1940734.97	0.0139	0.0108
Moon	601-11-18 12:28 J	1940894.81	1940895.02	1940895.26	0.0139	0.0050
Earth	601-11-18 14:38 J	1940894.89	1940895.11	1940895.35	0.0139	0.0056 *
Venus	602-01-23 15:50 J	1940960.98	1940961.16	1940961.37	0.0139	0.0061
Venus	602-09-07 00:28 J	1941187.31	1941187.52	1941187.74	0.0139	0.0014
Earth	602-11-23 03:07 J	1941264.39	1941264.63	1941264.88	0.0139	0.0025
Moon	602-11-23 05:31 J	1941264.49	1941264.73	1941264.99	0.0139	0.0030 *
Venus	603-04-21 08:52 J	1941413.66	1941413.87	1941414.08	0.0140	0.0034
Moon	603-11-27 14:24 J	1941633.86	1941634.10	1941634.34	0.0140	0.0010
Earth	603-11-27 16:33 J	1941633.94	1941634.19	1941634.44	0.0140	0.0007 *
Venus	603-12-03 17:16 J	1941640.05	1941640.22	1941640.40	0.0140	0.0082
Venus	604-07-17 01:40 J	1941866.51	1941866.57	1941866.67	0.0140	0.0131
Earth	604-12-01 06:00 J	1942003.52	1942003.75	1942004.00	0.0140	0.0040
Moon	604-12-01 09:21 J	1942003.64	1942003.89	1942004.13	0.0140	0.0043 *
Moon	605-12-05 18:00 J	1942373.04	1942373.25	1942373.46	0.0141	0.0068
Earth	605-12-05 20:24 J	1942373.15	1942373.35	1942373.58	0.0141	0.0073 *
Earth	606-12-10 11:16 J	1942742.82	1942742.97	1942743.15	0.0141	0.0105

Moon	606-12-10 14:24 J	1942742.97	1942743.10	1942743.27	0.0141	0.0112 *
Moon	607-12-14 23:45 J	1943112.41	1943112.49	1943112.60	0.0142	0.0130
Earth	607-12-15 02:52 J	1943112.59	1943112.62	1943112.70	0.0142	0.0138 *
Mars	631-11-29 20:52 J	1951863.16	1951863.37	1951863.62	0.0144	0.0100
Mercury	633-05-16 03:07 J	1952396.56	1952396.63	1952396.73	0.0143	0.0126
Mercury	633-08-12 11:31 J	1952484.84	1952484.98	1952485.12	0.0143	0.0096
Mars	633-11-03 11:16 J	1952567.72	1952567.97	1952568.25	0.0143	0.0074
Mercury	633-11-08 19:40 J	1952573.15	1952573.32	1952573.49	0.0143	0.0066
Mercury	634-02-05 03:35 J	1952661.47	1952661.65	1952661.84	0.0143	0.0037
Mercury	634-05-04 12:00 J	1952749.80	1952750.00	1952750.19	0.0143	0.0007
Mercury	634-07-31 19:55 J	1952838.15	1952838.33	1952838.53	0.0143	0.0024
Mercury	634-10-28 04:04 J	1952926.50	1952926.67	1952926.86	0.0142	0.0054
Mercury	635-01-24 12:28 J	1953014.86	1953015.02	1953015.18	0.0142	0.0084
Mercury	635-04-22 20:24 J	1953103.25	1953103.35	1953103.48	0.0142	0.0114
Earth	639-05-09 13:40 J	1954580.96	1954581.07	1954581.18	0.0140	0.0126
Moon	639-05-09 13:55 J	1954581.01	1954581.08	1954581.18	0.0140	0.0133 *
Moon	640-05-13 08:38 J	1954950.68	1954950.86	1954951.07	0.0140	0.0088
Earth	640-05-13 10:33 J	1954950.76	1954950.94	1954951.14	0.0140	0.0093 *
Venus	641-02-13 19:12 J	1955227.16	1955227.30	1955227.46	0.0140	0.0103
Earth	641-05-18 06:43 J	1955320.56	1955320.78	1955321.03	0.0139	0.0061
Moon	641-05-18 08:52 J	1955320.64	1955320.87	1955321.11	0.0139	0.0064 *
Venus	641-09-28 04:33 J	1955453.49	1955453.69	1955453.89	0.0139	0.0054
Venus	642-05-12 13:40 J	1955679.85	1955680.07	1955680.29	0.0139	0.0006
Moon	642-05-23 00:28 J	1955690.28	1955690.52	1955690.78	0.0139	0.0028
Earth	642-05-23 02:52 J	1955690.37	1955690.62	1955690.88	0.0139	0.0027 *
Venus	642-12-24 22:19 J	1955906.23	1955906.43	1955906.65	0.0139	0.0042
Earth	643-05-27 22:19 J	1956060.17	1956060.43	1956060.68	0.0139	0.0006
Moon	643-05-28 01:12 J	1956060.29	1956060.55	1956060.82	0.0139	0.0010 *
Venus	643-08-08 07:12 J	1956132.64	1956132.80	1956132.98	0.0138	0.0089
Venus	644-03-21 15:50 J	1956359.13	1956359.16	1956359.22	0.0138	0.0135

Moon	644-05-31 13:40 J	1956429.83	1956430.07	1956430.32	0.0138	0.0032
Earth	644-05-31 16:19 J	1956429.94	1956430.18	1956430.44	0.0138	0.0038 *
Earth	645-06-05 09:50 J	1956799.71	1956799.91	1956800.16	0.0138	0.0070
Moon	645-06-05 13:26 J	1956799.86	1956800.06	1956800.30	0.0138	0.0077 *
Moon	646-06-09 23:45 J	1957169.32	1957169.49	1957169.69	0.0137	0.0094
Earth	646-06-10 03:07 J	1957169.47	1957169.63	1957169.82	0.0137	0.0101 *
Earth	647-06-14 19:12 J	1957539.24	1957539.30	1957539.40	0.0137	0.0130
Moon	647-06-14 22:47 J	1957539.40	1957539.45	1957539.54	0.0137	0.0132 *
Mars	676-01-07 19:26 J	1967973.05	1967973.31	1967973.60	0.0135	0.0056
Mercury	676-08-14 11:16 J	1968192.95	1968192.97	1968193.01	0.0135	0.0131
Mercury	676-11-10 14:24 J	1968281.04	1968281.10	1968281.18	0.0135	0.0113
Mercury	677-02-06 17:45 J	1968369.15	1968369.24	1968369.33	0.0135	0.0095
Mercury	677-05-05 20:52 J	1968457.26	1968457.37	1968457.48	0.0135	0.0078
Mercury	677-08-02 00:00 J	1968545.38	1968545.50	1968545.62	0.0135	0.0060
Mercury	677-10-29 03:07 J	1968633.51	1968633.63	1968633.76	0.0135	0.0042
Mars	677-12-08 14:38 J	1968673.89	1968674.11	1968674.38	0.0135	0.0080
Mercury	678-01-25 06:14 J	1968721.63	1968721.76	1968721.89	0.0136	0.0025
Mercury	678-04-23 09:21 J	1968809.76	1968809.89	1968810.02	0.0136	0.0007
Mercury	678-07-20 12:28 J	1968897.89	1968898.02	1968898.15	0.0136	0.0011
Mercury	678-10-16 15:35 J	1968986.02	1968986.15	1968986.28	0.0136	0.0028
Mercury	679-01-12 18:43 J	1969074.16	1969074.28	1969074.41	0.0136	0.0046
Mercury	679-04-10 21:50 J	1969162.29	1969162.41	1969162.53	0.0136	0.0064
Mercury	679-07-08 00:57 J	1969250.44	1969250.54	1969250.64	0.0136	0.0081
Mercury	679-10-04 03:50 J	1969338.58	1969338.66	1969338.76	0.0136	0.0099
Mercury	679-12-31 06:57 J	1969426.73	1969426.79	1969426.86	0.0136	0.0117
Mercury	680-03-28 10:04 J	1969514.91	1969514.92	1969514.94	0.0136	0.0135
Moon	683-11-10 22:33 J	1970837.33	1970837.44	1970837.57	0.0138	0.0118
Earth	683-11-10 23:02 J	1970837.33	1970837.46	1970837.61	0.0138	0.0113 *
Earth	684-11-14 10:33 J	1971206.75	1971206.94	1971207.15	0.0138	0.0084
Moon	684-11-14 12:00 J	1971206.79	1971207.00	1971207.22	0.0138	0.0077 *

Venus	685-02-08 14:38 J	1971293.05	1971293.11	1971293.19	0.0138	0.0131
Venus	685-09-22 22:47 J	1971519.29	1971519.45	1971519.63	0.0139	0.0085
Moon	685-11-18 21:21 J	1971576.17	1971576.39	1971576.61	0.0139	0.0060
Earth	685-11-18 22:19 J	1971576.22	1971576.43	1971576.68	0.0139	0.0053 *
Venus	686-05-07 07:12 J	1971745.59	1971745.80	1971746.01	0.0139	0.0037
Earth	686-11-23 11:02 J	1971945.72	1971945.96	1971946.22	0.0139	0.0022
Moon	686-11-23 12:43 J	1971945.78	1971946.03	1971946.29	0.0139	0.0016 *
Venus	686-12-19 15:21 J	1971971.93	1971972.14	1971972.36	0.0139	0.0011
Venus	687-08-03 00:00 J	1972198.30	1972198.50	1972198.70	0.0140	0.0058
Moon	687-11-27 22:19 J	1972315.19	1972315.43	1972315.67	0.0140	0.0009
Earth	687-11-28 00:14 J	1972315.27	1972315.51	1972315.76	0.0140	0.0011 *
Venus	688-03-16 08:24 J	1972424.72	1972424.85	1972425.00	0.0140	0.0106
Earth	688-12-01 13:55 J	1972684.84	1972685.08	1972685.32	0.0140	0.0043
Moon	688-12-01 15:50 J	1972684.92	1972685.16	1972685.41	0.0140	0.0043 *
Moon	689-12-06 01:40 J	1973054.38	1973054.57	1973054.77	0.0141	0.0081
Earth	689-12-06 04:04 J	1973054.47	1973054.67	1973054.89	0.0141	0.0076 *
Earth	690-12-10 18:57 J	1973424.14	1973424.29	1973424.46	0.0141	0.0109
Moon	690-12-10 21:35 J	1973424.23	1973424.40	1973424.59	0.0141	0.0101 *
Earth	691-12-15 10:33 J	1973793.93	1973793.94	1973793.99	0.0142	0.0141
Mars	716-07-25 12:28 J	1982782.71	1982783.02	1982783.32	0.0143	0.0036
Mercury	717-06-05 09:35 J	1983097.81	1983097.90	1983098.01	0.0143	0.0122
Mercury	717-09-01 17:31 J	1983186.10	1983186.23	1983186.39	0.0143	0.0093
Mercury	717-11-29 01:40 J	1983274.41	1983274.57	1983274.75	0.0143	0.0063
Mercury	718-02-25 10:04 J	1983362.73	1983362.92	1983363.10	0.0143	0.0033
Mercury	718-05-24 18:14 J	1983451.06	1983451.26	1983451.45	0.0143	0.0004
Mars	718-06-29 20:52 J	1983487.28	1983487.37	1983487.49	0.0143	0.0134
Mercury	718-08-21 02:09 J	1983539.41	1983539.59	1983539.78	0.0143	0.0028
Mercury	718-11-17 10:19 J	1983627.76	1983627.93	1983628.11	0.0142	0.0057
Mercury	719-02-13 18:28 J	1983716.13	1983716.27	1983716.43	0.0142	0.0088
Mercury	719-05-13 02:38 J	1983804.51	1983804.61	1983804.73	0.0142	0.0118

Moon	723-05-09 20:52 J	1985262.24	1985262.37	1985262.54	0.0140	0.0116
Earth	723-05-09 20:38 J	1985262.25	1985262.36	1985262.49	0.0140	0.0123 *
Moon	724-05-13 17:02 J	1985632.05	1985632.21	1985632.40	0.0140	0.0097
Earth	724-05-13 17:16 J	1985632.05	1985632.22	1985632.44	0.0140	0.0090 *
Venus	724-10-14 01:12 J	1985785.48	1985785.55	1985785.66	0.0140	0.0127
Earth	725-05-18 14:09 J	1986001.87	1986002.09	1986002.34	0.0139	0.0057
Moon	725-05-18 15:50 J	1986001.91	1986002.16	1986002.41	0.0139	0.0053 *
Venus	725-05-28 10:47 J	1986011.78	1986011.95	1986012.14	0.0139	0.0078
Venus	726-01-09 19:55 J	1986238.13	1986238.33	1986238.55	0.0139	0.0031
Moon	726-05-23 08:38 J	1986371.61	1986371.86	1986372.11	0.0139	0.0024
Earth	726-05-23 10:19 J	1986371.68	1986371.93	1986372.19	0.0139	0.0024 *
Venus	726-08-24 05:02 J	1986464.50	1986464.71	1986464.93	0.0139	0.0018
Venus	727-04-07 13:55 J	1986690.90	1986691.08	1986691.29	0.0139	0.0066
Earth	727-05-28 05:31 J	1986741.48	1986741.73	1986741.99	0.0139	0.0010
Moon	727-05-28 07:40 J	1986741.56	1986741.82	1986742.09	0.0139	0.0006 *
Venus	727-11-19 22:33 J	1986917.33	1986917.44	1986917.58	0.0138	0.0113
Moon	728-05-31 21:21 J	1987111.16	1987111.39	1987111.63	0.0138	0.0048
Earth	728-06-01 00:14 J	1987111.26	1987111.51	1987111.76	0.0138	0.0041 *
Earth	729-06-05 18:00 J	1987481.03	1987481.25	1987481.47	0.0138	0.0073
Moon	729-06-05 20:38 J	1987481.14	1987481.36	1987481.60	0.0138	0.0066 *
Moon	730-06-10 07:40 J	1987850.68	1987850.82	1987850.99	0.0137	0.0110
Earth	730-06-10 11:16 J	1987850.80	1987850.97	1987851.14	0.0137	0.0104 *
Earth	731-06-15 02:52 J	1988220.59	1988220.62	1988220.70	0.0137	0.0134
Moon	731-06-15 06:28 J	1988220.71	1988220.77	1988220.87	0.0137	0.0130
Mars	760-09-01 07:26 J	1998891.51	1998891.81	1998892.11	0.0135	0.0006
Mercury	760-09-03 18:14 J	1998894.22	1998894.26	1998894.30	0.0135	0.0128
Mercury	760-11-30 21:21 J	1998982.32	1998982.39	1998982.47	0.0135	0.0110
Mercury	761-02-27 00:43 J	1999070.43	1999070.53	1999070.62	0.0135	0.0093
Mercury	761-05-26 03:35 J	1999158.55	1999158.65	1999158.77	0.0135	0.0075
Mercury	761-08-22 06:57 J	1999246.67	1999246.79	1999246.91	0.0135	0.0057

Mercury	761-11-18 10:04 J	1999334.79	1999334.92	1999335.05	0.0135	0.0040
Mercury	762-02-14 13:12 J	1999422.92	1999423.05	1999423.18	0.0135	0.0022
Mercury	762-05-13 16:19 J	1999511.05	1999511.18	1999511.31	0.0136	0.0004
Mars	762-08-03 04:33 J	1999592.62	1999592.69	1999592.79	0.0136	0.0130
Mercury	762-08-09 19:26 J	1999599.18	1999599.31	1999599.44	0.0136	0.0014
Mercury	762-11-05 22:33 J	1999687.31	1999687.44	1999687.57	0.0136	0.0031
Mercury	763-02-02 01:40 J	1999775.45	1999775.57	1999775.69	0.0136	0.0049
Mercury	763-05-01 04:33 J	1999863.58	1999863.69	1999863.81	0.0136	0.0067
Mercury	763-07-28 07:55 J	1999951.73	1999951.83	1999951.93	0.0136	0.0084
Mercury	763-10-24 10:47 J	2000039.87	2000039.95	2000040.04	0.0136	0.0102
Mercury	764-01-20 13:55 J	2000128.02	2000128.08	2000128.15	0.0136	0.0120
Moon	767-11-11 07:26 J	2001518.66	2001518.81	2001518.97	0.0138	0.0105
Earth	767-11-11 07:40 J	2001518.68	2001518.82	2001518.98	0.0138	0.0110 *
Earth	768-11-14 19:12 J	2001888.10	2001888.30	2001888.51	0.0138	0.0079
Moon	768-11-14 19:12 J	2001888.11	2001888.30	2001888.52	0.0138	0.0086 *
Venus	769-05-23 05:45 J	2002077.62	2002077.74	2002077.89	0.0139	0.0108
Moon	769-11-19 06:14 J	2002257.55	2002257.76	2002258.00	0.0139	0.0043
Earth	769-11-19 07:12 J	2002257.57	2002257.80	2002258.04	0.0139	0.0049 *
Venus	770-01-04 13:55 J	2002303.90	2002304.08	2002304.29	0.0139	0.0061
Venus	770-08-18 22:33 J	2002530.22	2002530.44	2002530.66	0.0139	0.0013
Earth	770-11-23 19:26 J	2002627.07	2002627.31	2002627.56	0.0139	0.0017
Moon	770-11-23 20:38 J	2002627.11	2002627.36	2002627.62	0.0139	0.0023 *
Venus	771-04-02 06:43 J	2002756.58	2002756.78	2002757.00	0.0139	0.0035
Venus	771-11-14 14:52 J	2002982.96	2002983.12	2002983.31	0.0140	0.0083
Moon	771-11-28 07:26 J	2002996.58	2002996.81	2002997.06	0.0140	0.0019
Earth	771-11-28 08:38 J	2002996.61	2002996.86	2002997.11	0.0140	0.0015 *
Venus	772-06-27 23:45 J	2003209.42	2003209.49	2003209.57	0.0140	0.0130
Earth	772-12-01 21:50 J	2003366.19	2003366.41	2003366.66	0.0140	0.0048
Moon	772-12-01 23:45 J	2003366.26	2003366.49	2003366.74	0.0140	0.0049 *
Moon	773-12-06 10:47 J	2003735.75	2003735.95	2003736.15	0.0141	0.0076

Earth	773-12-06 12:00 J	2003735.81	2003736.00	2003736.22	0.0141	0.0080	*
Earth	774-12-11 03:07 J	2004105.49	2004105.63	2004105.79	0.0141	0.0112	
Moon	774-12-11 05:02 J	2004105.59	2004105.71	2004105.87	0.0141	0.0118	*
Moon	775-12-15 16:04 J	2004475.13	2004475.17	2004475.25	0.0142	0.0137	
Jupiter	781-02-02 12:00 J	2006350.50	2006351.00	2006351.54	0.0144	0.0027	
Mars	801-03-21 00:43 J	2013702.23	2013702.53	2013702.85	0.0143	0.0026	
Mercury	801-06-25 15:50 J	2013799.06	2013799.16	2013799.27	0.0143	0.0119	
Mercury	801-09-22 00:00 J	2013887.35	2013887.50	2013887.65	0.0143	0.0089	
Mercury	801-12-19 07:55 J	2013975.66	2013975.83	2013976.01	0.0143	0.0060	
Mercury	802-03-17 16:04 J	2014063.99	2014064.17	2014064.36	0.0143	0.0030	
Mercury	802-06-14 00:14 J	2014152.32	2014152.51	2014152.70	0.0143	0.0001	
Mercury	802-09-10 08:09 J	2014240.66	2014240.84	2014241.04	0.0143	0.0031	
Mercury	802-12-07 16:19 J	2014329.02	2014329.18	2014329.36	0.0142	0.0061	
Mercury	803-03-06 00:28 J	2014417.38	2014417.52	2014417.68	0.0142	0.0091	
Mercury	803-06-02 08:52 J	2014505.77	2014505.87	2014505.98	0.0142	0.0120	
Moon	807-05-10 01:55 J	2015943.49	2015943.58	2015943.72	0.0140	0.0126	
Earth	807-05-10 03:21 J	2015943.51	2015943.64	2015943.78	0.0140	0.0119	*
Moon	808-05-14 00:14 J	2016313.32	2016313.51	2016313.73	0.0140	0.0080	
Earth	808-05-14 00:28 J	2016313.33	2016313.52	2016313.73	0.0140	0.0086	*
Venus	809-01-25 16:47 J	2016570.06	2016570.20	2016570.35	0.0140	0.0103	
Earth	809-05-18 21:07 J	2016683.15	2016683.38	2016683.63	0.0139	0.0053	
Moon	809-05-18 21:50 J	2016683.17	2016683.41	2016683.65	0.0139	0.0058	*
Venus	809-09-09 02:09 J	2016796.39	2016796.59	2016796.79	0.0139	0.0054	
Venus	810-04-23 11:16 J	2017022.76	2017022.97	2017023.19	0.0139	0.0007	
Moon	810-05-23 16:19 J	2017052.94	2017053.18	2017053.43	0.0139	0.0019	
Earth	810-05-23 17:16 J	2017052.97	2017053.22	2017053.48	0.0139	0.0020	*
Venus	810-12-05 20:09 J	2017249.14	2017249.34	2017249.56	0.0139	0.0042	
Earth	811-05-28 12:28 J	2017422.77	2017423.02	2017423.28	0.0139	0.0013	
Moon	811-05-28 14:24 J	2017422.84	2017423.10	2017423.37	0.0139	0.0016	*
Venus	811-07-20 05:02 J	2017475.55	2017475.71	2017475.88	0.0138	0.0089	

Venus	812-03-02 13:40 J	2017702.04	2017702.07	2017702.12	0.0138	0.0136
Moon	812-06-01 05:16 J	2017792.48	2017792.72	2017792.96	0.0138	0.0040
Earth	812-06-01 06:57 J	2017792.55	2017792.79	2017793.04	0.0138	0.0045 *
Earth	813-06-06 00:28 J	2018162.32	2018162.52	2018162.75	0.0138	0.0077
Moon	813-06-06 03:07 J	2018162.44	2018162.63	2018162.86	0.0138	0.0084 *
Moon	814-06-10 15:07 J	2018531.97	2018532.13	2018532.31	0.0137	0.0101
Earth	814-06-10 17:31 J	2018532.09	2018532.23	2018532.41	0.0137	0.0108 *
Earth	815-06-15 09:50 J	2018901.91	2018901.91	2018901.93	0.0137	0.0137
Mars	843-05-27 03:21 J	2029109.43	2029109.64	2029109.87	0.0135	0.0090
Mercury	844-09-24 01:12 J	2029595.50	2029595.55	2029595.59	0.0135	0.0126
Mercury	844-12-21 04:04 J	2029683.60	2029683.67	2029683.76	0.0135	0.0108
Mercury	845-03-19 07:26 J	2029771.71	2029771.81	2029771.91	0.0135	0.0090
Mars	845-04-26 17:31 J	2029809.95	2029810.23	2029810.52	0.0135	0.0042
Mercury	845-06-15 10:33 J	2029859.83	2029859.94	2029860.06	0.0135	0.0073
Mercury	845-09-11 13:40 J	2029947.95	2029948.07	2029948.20	0.0135	0.0055
Mercury	845-12-08 16:47 J	2030036.08	2030036.20	2030036.33	0.0135	0.0037
Mercury	846-03-06 20:09 J	2030124.20	2030124.34	2030124.47	0.0136	0.0020
Mercury	846-06-02 23:16 J	2030212.33	2030212.47	2030212.60	0.0136	0.0003
Mercury	846-08-30 02:24 J	2030300.47	2030300.60	2030300.73	0.0136	0.0016
Mercury	846-11-26 05:31 J	2030388.60	2030388.73	2030388.85	0.0136	0.0034
Mercury	847-02-22 08:24 J	2030476.73	2030476.85	2030476.98	0.0136	0.0052
Mercury	847-05-21 11:45 J	2030564.87	2030564.99	2030565.10	0.0136	0.0069
Mercury	847-08-17 14:38 J	2030653.02	2030653.11	2030653.22	0.0136	0.0087
Mercury	847-11-13 17:45 J	2030741.16	2030741.24	2030741.33	0.0136	0.0105
Mercury	848-02-09 20:52 J	2030829.32	2030829.37	2030829.43	0.0136	0.0122
Moon	850-11-07 04:47 J	2031830.67	2031830.70	2031830.79	0.0137	0.0134
Earth	850-11-07 05:45 J	2031830.70	2031830.74	2031830.80	0.0137	0.0135 *
Earth	851-11-11 16:19 J	2032200.04	2032200.18	2032200.36	0.0138	0.0106
Moon	851-11-11 17:31 J	2032200.09	2032200.23	2032200.38	0.0138	0.0109 *
Moon	852-11-15 03:50 J	2032569.44	2032569.66	2032569.89	0.0138	0.0070

Earth	852-11-15 04:04 J	2032569.46	2032569.67	2032569.88	0.0138	0.0076	*
Venus	853-01-20 13:26 J	2032635.99	2032636.06	2032636.14	0.0138	0.0130	
Venus	853-09-03 21:21 J	2032862.23	2032862.39	2032862.58	0.0139	0.0084	
Earth	853-11-19 15:35 J	2032938.93	2032939.15	2032939.40	0.0139	0.0045	
Moon	853-11-19 15:50 J	2032938.94	2032939.16	2032939.39	0.0139	0.0052	*
Venus	854-04-18 05:45 J	2033088.53	2033088.74	2033088.95	0.0139	0.0036	
Moon	854-11-24 04:19 J	2033308.42	2033308.68	2033308.94	0.0139	0.0008	
Earth	854-11-24 04:19 J	2033308.43	2033308.68	2033308.93	0.0139	0.0013	*
Venus	854-11-30 13:55 J	2033314.87	2033315.08	2033315.30	0.0139	0.0011	
Venus	855-07-14 22:04 J	2033541.23	2033541.42	2033541.63	0.0140	0.0059	
Moon	855-11-28 16:19 J	2033677.95	2033678.18	2033678.43	0.0140	0.0016	
Earth	855-11-28 17:16 J	2033677.98	2033678.22	2033678.47	0.0140	0.0019	*
Venus	856-02-26 06:28 J	2033767.65	2033767.77	2033767.92	0.0140	0.0107	
Earth	856-12-02 06:28 J	2034047.55	2034047.77	2034048.02	0.0140	0.0052	
Moon	856-12-02 07:12 J	2034047.57	2034047.80	2034048.05	0.0140	0.0052	*
Moon	857-12-06 19:40 J	2034417.14	2034417.32	2034417.52	0.0141	0.0087	
Earth	857-12-06 21:07 J	2034417.18	2034417.38	2034417.58	0.0141	0.0083	*
Earth	858-12-11 12:00 J	2034786.86	2034787.00	2034787.15	0.0141	0.0116	
Moon	858-12-11 13:12 J	2034786.91	2034787.05	2034787.23	0.0141	0.0109	*
Mars	883-12-10 21:50 J	2043917.18	2043917.41	2043917.69	0.0144	0.0087	
Mercury	885-07-15 22:19 J	2044500.32	2044500.43	2044500.54	0.0143	0.0115	
Mercury	885-10-12 06:14 J	2044588.62	2044588.76	2044588.92	0.0143	0.0086	
Mars	885-11-14 14:24 J	2044621.86	2044622.10	2044622.36	0.0143	0.0086	
Mercury	886-01-08 14:24 J	2044676.93	2044677.10	2044677.28	0.0143	0.0056	
Mercury	886-04-06 22:33 J	2044765.25	2044765.44	2044765.63	0.0143	0.0026	
Mercury	886-07-04 06:43 J	2044853.59	2044853.78	2044853.97	0.0143	0.0005	
Mercury	886-09-30 14:52 J	2044941.93	2044942.12	2044942.30	0.0143	0.0034	
Mercury	886-12-27 22:33 J	2045030.28	2045030.44	2045030.63	0.0142	0.0065	
Mercury	887-03-26 06:43 J	2045118.65	2045118.78	2045118.94	0.0142	0.0095	
Mercury	887-06-22 15:07 J	2045207.05	2045207.13	2045207.23	0.0142	0.0124	

Moon	891-05-10 09:21 J	2046624.74	2046624.89	2046625.08	0.0140	0.0108
Earth	891-05-10 10:47 J	2046624.81	2046624.95	2046625.10	0.0140	0.0115 *
Earth	892-05-14 08:09 J	2046994.63	2046994.84	2046995.05	0.0140	0.0081
Moon	892-05-14 08:52 J	2046994.69	2046994.87	2046995.07	0.0140	0.0089 *
Venus	892-09-24 22:47 J	2047128.38	2047128.45	2047128.55	0.0140	0.0128
Venus	893-05-09 08:24 J	2047354.68	2047354.85	2047355.04	0.0140	0.0079
Moon	893-05-19 04:19 J	2047364.44	2047364.68	2047364.95	0.0140	0.0044
Earth	893-05-19 04:33 J	2047364.46	2047364.69	2047364.94	0.0140	0.0049 *
Venus	893-12-21 17:45 J	2047581.02	2047581.24	2047581.45	0.0139	0.0031
Moon	894-05-24 00:14 J	2047734.27	2047734.51	2047734.76	0.0139	0.0017
Earth	894-05-24 00:43 J	2047734.28	2047734.53	2047734.79	0.0139	0.0015 *
Venus	894-08-05 02:38 J	2047807.40	2047807.61	2047807.83	0.0139	0.0018
Venus	895-03-19 11:45 J	2048033.80	2048033.99	2048034.19	0.0139	0.0065
Earth	895-05-28 19:40 J	2048104.07	2048104.32	2048104.58	0.0139	0.0017
Moon	895-05-28 20:24 J	2048104.08	2048104.35	2048104.62	0.0139	0.0016 *
Venus	895-10-31 20:24 J	2048260.23	2048260.35	2048260.48	0.0138	0.0112
Moon	896-06-01 12:28 J	2048473.80	2048474.02	2048474.26	0.0138	0.0055
Earth	896-06-01 14:09 J	2048473.85	2048474.09	2048474.34	0.0138	0.0049 *
Earth	897-06-06 07:40 J	2048843.63	2048843.82	2048844.04	0.0138	0.0081
Moon	897-06-06 09:07 J	2048843.67	2048843.88	2048844.12	0.0138	0.0074 *
Moon	898-06-10 22:33 J	2049213.32	2049213.44	2049213.58	0.0137	0.0117
Earth	898-06-11 00:28 J	2049213.39	2049213.52	2049213.69	0.0137	0.0112 *
Moon	899-06-15 19:12 J	2049583.29	2049583.30	2049583.36	0.0137	0.0136
Jupiter	906-01-11 08:38 J	2051984.55	2051984.86	2051985.20	0.0134	0.0104
Mars	928-01-19 13:26 J	2060027.78	2060028.06	2060028.35	0.0135	0.0042
Mercury	928-10-14 08:09 J	2060296.78	2060296.84	2060296.89	0.0135	0.0122
Mercury	929-01-10 11:02 J	2060384.89	2060384.96	2060385.05	0.0135	0.0105
Mercury	929-04-08 14:24 J	2060473.00	2060473.10	2060473.20	0.0135	0.0087
Mercury	929-07-05 17:31 J	2060561.12	2060561.23	2060561.35	0.0135	0.0069
Mercury	929-10-01 20:38 J	2060649.24	2060649.36	2060649.49	0.0135	0.0052

Mars	929-12-20 06:00 J	2060728.55	2060728.75	2060728.99	0.0136	0.0093
Mercury	929-12-29 00:00 J	2060737.37	2060737.50	2060737.63	0.0136	0.0034
Mercury	930-03-27 03:07 J	2060825.50	2060825.63	2060825.76	0.0136	0.0016
Mercury	930-06-23 06:14 J	2060913.63	2060913.76	2060913.89	0.0136	0.0002
Mercury	930-09-19 09:21 J	2061001.76	2061001.89	2061002.02	0.0136	0.0019
Mercury	930-12-16 12:28 J	2061089.89	2061090.02	2061090.15	0.0136	0.0037
Mercury	931-03-14 15:35 J	2061178.03	2061178.15	2061178.27	0.0136	0.0055
Mercury	931-06-10 18:28 J	2061266.17	2061266.27	2061266.39	0.0136	0.0073
Mercury	931-09-06 21:50 J	2061354.31	2061354.41	2061354.51	0.0136	0.0090
Mercury	931-12-04 00:43 J	2061442.46	2061442.53	2061442.62	0.0136	0.0108
Mercury	932-03-01 04:04 J	2061530.62	2061530.67	2061530.72	0.0136	0.0126
Moon	934-11-07 13:40 J	2062511.98	2062512.07	2062512.16	0.0137	0.0129
Earth	934-11-07 14:52 J	2062512.07	2062512.12	2062512.22	0.0137	0.0131 *
Earth	935-11-12 01:55 J	2062881.43	2062881.58	2062881.77	0.0138	0.0101
Moon	935-11-12 02:52 J	2062881.47	2062881.62	2062881.80	0.0138	0.0098 *
Moon	936-11-15 12:14 J	2063250.80	2063251.01	2063251.23	0.0138	0.0077
Earth	936-11-15 13:26 J	2063250.85	2063251.06	2063251.28	0.0138	0.0071 *
Venus	937-05-04 05:16 J	2063420.59	2063420.72	2063420.87	0.0139	0.0106
Earth	937-11-20 01:12 J	2063620.32	2063620.55	2063620.80	0.0139	0.0040
Moon	937-11-20 01:55 J	2063620.35	2063620.58	2063620.82	0.0139	0.0034 *
Venus	937-12-16 13:26 J	2063646.86	2063647.06	2063647.26	0.0139	0.0059
Venus	938-07-30 21:35 J	2063873.19	2063873.40	2063873.62	0.0139	0.0012
Moon	938-11-24 13:26 J	2063989.81	2063990.06	2063990.32	0.0139	0.0015
Earth	938-11-24 13:40 J	2063989.82	2063990.07	2063990.32	0.0139	0.0009 *
Venus	939-03-14 06:00 J	2064099.54	2064099.75	2064099.96	0.0139	0.0036
Venus	939-10-26 14:09 J	2064325.93	2064326.09	2064326.28	0.0140	0.0084
Earth	939-11-29 02:38 J	2064359.37	2064359.61	2064359.86	0.0140	0.0023
Moon	939-11-29 03:07 J	2064359.39	2064359.63	2064359.87	0.0140	0.0028 *
Venus	940-06-08 23:02 J	2064552.39	2064552.46	2064552.53	0.0140	0.0132
Earth	940-12-02 16:19 J	2064728.95	2064729.18	2064729.41	0.0140	0.0056

Moon	940-12-02 16:33 J	2064728.97	2064729.19	2064729.44	0.0140	0.0055 *
Moon	941-12-07 06:00 J	2065098.57	2065098.75	2065098.95	0.0141	0.0086
Earth	941-12-07 06:28 J	2065098.58	2065098.77	2065098.97	0.0141	0.0088 *
Earth	942-12-11 21:21 J	2065468.28	2065468.39	2065468.54	0.0141	0.0120
Moon	942-12-11 22:19 J	2065468.33	2065468.43	2065468.56	0.0141	0.0125 *
Mars	968-08-05 18:28 J	2074836.96	2074837.27	2074837.59	0.0143	0.0022
Mercury	969-05-08 21:07 J	2075113.35	2075113.38	2075113.43	0.0143	0.0139
Mercury	969-08-05 05:16 J	2075201.60	2075201.72	2075201.85	0.0143	0.0109
Mercury	969-11-01 13:12 J	2075289.90	2075290.05	2075290.22	0.0143	0.0080
Mercury	970-01-28 21:21 J	2075378.22	2075378.39	2075378.57	0.0143	0.0050
Mercury	970-04-27 05:31 J	2075466.54	2075466.73	2075466.92	0.0143	0.0020
Mercury	970-07-24 13:40 J	2075554.88	2075555.07	2075555.26	0.0143	0.0010
Mercury	970-10-20 21:50 J	2075643.22	2075643.41	2075643.59	0.0143	0.0040
Mercury	971-01-17 06:00 J	2075731.58	2075731.75	2075731.92	0.0142	0.0070
Mercury	971-04-15 14:09 J	2075819.95	2075820.09	2075820.23	0.0142	0.0100
Mercury	971-07-12 22:04 J	2075908.36	2075908.42	2075908.51	0.0142	0.0130
Moon	974-05-06 00:14 J	2076936.48	2076936.51	2076936.55	0.0141	0.0139
Moon	975-05-10 17:02 J	2077306.08	2077306.21	2077306.38	0.0140	0.0116
Earth	975-05-10 19:40 J	2077306.17	2077306.32	2077306.49	0.0140	0.0110 *
Earth	976-05-14 16:33 J	2077675.99	2077676.19	2077676.42	0.0140	0.0077
Moon	976-05-14 18:14 J	2077676.05	2077676.26	2077676.48	0.0140	0.0070 *
Venus	977-01-06 15:21 J	2077913.01	2077913.14	2077913.30	0.0140	0.0103
Moon	977-05-19 12:28 J	2078045.78	2078046.02	2078046.27	0.0140	0.0050
Earth	977-05-19 13:26 J	2078045.82	2078046.06	2078046.31	0.0140	0.0044 *
Venus	977-08-21 00:43 J	2078139.34	2078139.53	2078139.74	0.0139	0.0054
Venus	978-04-04 10:04 J	2078365.70	2078365.92	2078366.14	0.0139	0.0006
Earth	978-05-24 09:07 J	2078415.63	2078415.88	2078416.14	0.0139	0.0011
Moon	978-05-24 09:50 J	2078415.66	2078415.91	2078416.16	0.0139	0.0008 *
Venus	978-11-16 18:57 J	2078592.09	2078592.29	2078592.50	0.0139	0.0042
Earth	979-05-29 04:19 J	2078785.42	2078785.68	2078785.93	0.0139	0.0022

Moon	979-05-29 04:33 J	2078785.43	2078785.69	2078785.96	0.0139	0.0024 *
Venus	979-07-01 03:35 J	2078818.49	2078818.65	2078818.83	0.0139	0.0089
Venus	980-02-12 12:14 J	2079044.98	2079045.01	2079045.06	0.0138	0.0136
Moon	980-06-01 22:04 J	2079155.20	2079155.42	2079155.66	0.0138	0.0050
Earth	980-06-01 22:19 J	2079155.20	2079155.43	2079155.68	0.0138	0.0054 *
Earth	981-06-06 16:04 J	2079524.97	2079525.17	2079525.38	0.0138	0.0085
Moon	981-06-06 17:16 J	2079525.03	2079525.22	2079525.43	0.0138	0.0092 *
Moon	982-06-11 07:26 J	2079894.67	2079894.81	2079894.98	0.0137	0.0109
Earth	982-06-11 08:52 J	2079894.74	2079894.87	2079895.02	0.0137	0.0116 *
Jupiter	988-11-30 12:14 J	2082258.72	2082259.01	2082259.37	0.0135	0.0104

2ND MILLENNIUM CE

This is a list of transits visible from Uranus in the 2nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	1010-10-13 13:40 J		2090245.96	2090246.07	2090246.20	0.0135	0.0123	
Mars	1012-09-12 23:31 J		2090946.18	2090946.48	2090946.78	0.0135	0.0007	
Mercury	1012-11-03 14:38 J		2090998.07	2090998.11	2090998.18	0.0135	0.0121	
Mercury	1013-01-30 18:00 J		2091086.17	2091086.25	2091086.34	0.0135	0.0102	
Mercury	1013-04-28 21:07 J		2091174.29	2091174.38	2091174.49	0.0135	0.0085	
Mercury	1013-07-26 00:28 J		2091262.41	2091262.52	2091262.64	0.0135	0.0066	
Mercury	1013-10-22 03:35 J		2091350.53	2091350.65	2091350.78	0.0135	0.0049	
Mercury	1014-01-18 06:43 J		2091438.66	2091438.78	2091438.91	0.0136	0.0031	
Mercury	1014-04-16 10:04 J		2091526.78	2091526.92	2091527.05	0.0136	0.0014	

Mercury	1014-07-13 13:12 J	2091614.91	2091615.05	2091615.18	0.0136	0.0006
Mercury	1014-10-09 16:19 J	2091703.05	2091703.18	2091703.31	0.0136	0.0023
Mercury	1015-01-05 19:26 J	2091791.18	2091791.31	2091791.43	0.0136	0.0040
Mercury	1015-04-03 22:33 J	2091879.32	2091879.44	2091879.56	0.0136	0.0058
Mercury	1015-07-01 01:26 J	2091967.46	2091967.56	2091967.68	0.0136	0.0076
Mercury	1015-09-27 04:47 J	2092055.60	2092055.70	2092055.79	0.0136	0.0093
Mercury	1015-12-24 07:40 J	2092143.75	2092143.82	2092143.90	0.0136	0.0111
Mercury	1016-03-21 11:02 J	2092231.92	2092231.96	2092232.00	0.0136	0.0129
Moon	1018-11-07 22:33 J	2093193.34	2093193.44	2093193.55	0.0138	0.0126
Earth	1018-11-08 00:14 J	2093193.42	2093193.51	2093193.62	0.0138	0.0126 *
Earth	1019-11-12 10:47 J	2093562.79	2093562.95	2093563.14	0.0138	0.0097
Moon	1019-11-12 12:57 J	2093562.88	2093563.04	2093563.22	0.0138	0.0099 *
Moon	1020-11-15 20:38 J	2093932.14	2093932.36	2093932.61	0.0138	0.0062
Earth	1020-11-15 22:19 J	2093932.22	2093932.43	2093932.66	0.0138	0.0067 *
Venus	1021-01-01 12:43 J	2093978.96	2093979.03	2093979.12	0.0139	0.0129
Venus	1021-08-15 20:38 J	2094205.20	2094205.36	2094205.55	0.0139	0.0083
Earth	1021-11-20 10:19 J	2094301.69	2094301.93	2094302.17	0.0139	0.0035
Moon	1021-11-20 11:16 J	2094301.75	2094301.97	2094302.21	0.0139	0.0043 *
Venus	1022-03-30 05:02 J	2094431.50	2094431.71	2094431.92	0.0139	0.0035
Venus	1022-11-11 13:26 J	2094657.84	2094658.06	2094658.27	0.0139	0.0012
Moon	1022-11-24 21:21 J	2094671.14	2094671.39	2094671.65	0.0139	0.0004
Earth	1022-11-24 22:47 J	2094671.20	2094671.45	2094671.70	0.0139	0.0004 *
Venus	1023-06-25 21:35 J	2094884.21	2094884.40	2094884.60	0.0140	0.0060
Earth	1023-11-29 11:45 J	2095040.75	2095040.99	2095041.24	0.0140	0.0028
Moon	1023-11-29 12:14 J	2095040.78	2095041.01	2095041.26	0.0140	0.0024 *
Venus	1024-02-07 06:00 J	2095110.62	2095110.75	2095110.90	0.0140	0.0108
Moon	1024-12-03 00:28 J	2095410.31	2095410.52	2095410.77	0.0140	0.0063
Earth	1024-12-03 01:12 J	2095410.34	2095410.55	2095410.79	0.0140	0.0061 *
Earth	1025-12-07 16:04 J	2095779.98	2095780.17	2095780.36	0.0141	0.0092
Moon	1025-12-07 15:35 J	2095779.99	2095780.15	2095780.35	0.0141	0.0095 *

Moon	1026-12-12 07:40 J	2096149.68	2096149.82	2096149.96	0.0141	0.0119
Earth	1026-12-12 07:12 J	2096149.69	2096149.80	2096149.92	0.0141	0.0125 *
Mars	1051-04-27 17:02 J	2105052.10	2105052.21	2105052.36	0.0144	0.0131
Mars	1053-04-01 16:33 J	2105756.90	2105757.19	2105757.50	0.0143	0.0044
Mercury	1053-05-29 04:33 J	2105814.63	2105814.69	2105814.78	0.0143	0.0131
Mercury	1053-08-25 12:28 J	2105902.90	2105903.02	2105903.17	0.0143	0.0102
Mercury	1053-11-21 20:38 J	2105991.21	2105991.36	2105991.53	0.0143	0.0072
Mercury	1054-02-18 05:02 J	2106079.52	2106079.71	2106079.89	0.0143	0.0042
Mercury	1054-05-17 12:57 J	2106167.85	2106168.04	2106168.23	0.0143	0.0013
Mercury	1054-08-13 21:07 J	2106256.19	2106256.38	2106256.57	0.0143	0.0018
Mercury	1054-11-10 05:16 J	2106344.54	2106344.72	2106344.90	0.0142	0.0048
Mercury	1055-02-06 13:26 J	2106432.90	2106433.06	2106433.22	0.0142	0.0078
Mercury	1055-05-05 21:35 J	2106521.28	2106521.40	2106521.53	0.0142	0.0108
Mercury	1055-08-02 05:45 J	2106609.70	2106609.74	2106609.79	0.0142	0.0138
Earth	1058-05-06 08:38 J	2107617.81	2107617.86	2107617.92	0.0141	0.0137
Moon	1058-05-06 11:16 J	2107617.97	2107617.97	2107618.03	0.0141	0.0140
Moon	1059-05-11 03:50 J	2107987.49	2107987.66	2107987.86	0.0140	0.0099
Earth	1059-05-11 06:14 J	2107987.60	2107987.76	2107987.94	0.0140	0.0105 *
Earth	1060-05-15 03:21 J	2108357.42	2108357.64	2108357.87	0.0140	0.0071
Moon	1060-05-15 05:16 J	2108357.53	2108357.72	2108357.94	0.0140	0.0079 *
Venus	1060-09-05 23:31 J	2108471.39	2108471.48	2108471.58	0.0140	0.0125
Venus	1061-04-20 08:52 J	2108697.69	2108697.87	2108698.06	0.0140	0.0077
Moon	1061-05-19 21:50 J	2108727.16	2108727.41	2108727.69	0.0140	0.0033
Earth	1061-05-19 23:31 J	2108727.25	2108727.48	2108727.74	0.0140	0.0039 *
Venus	1061-12-02 18:00 J	2108924.04	2108924.25	2108924.47	0.0139	0.0029
Earth	1062-05-24 19:26 J	2109097.05	2109097.31	2109097.57	0.0139	0.0005
Moon	1062-05-24 20:09 J	2109097.10	2109097.34	2109097.60	0.0139	0.0009 *
Venus	1062-07-17 03:07 J	2109150.41	2109150.63	2109150.85	0.0139	0.0019
Venus	1063-02-28 12:00 J	2109376.81	2109377.00	2109377.19	0.0139	0.0067
Moon	1063-05-29 13:11 J	2109466.79	2109467.05	2109467.32	0.0139	0.0028

Earth	1063-05-29 13:55 J	2109466.84	2109467.08	2109467.35	0.0139	0.0028	*
Venus	1063-10-12 20:38 J	2109603.24	2109603.36	2109603.48	0.0138	0.0114	
Moon	1064-06-02 07:55 J	2109836.62	2109836.83	2109837.06	0.0138	0.0064	
Earth	1064-06-02 08:09 J	2109836.62	2109836.84	2109837.09	0.0138	0.0059	*
Moon	1065-06-07 01:40 J	2110206.38	2110206.57	2110206.80	0.0138	0.0084	
Earth	1065-06-07 01:55 J	2110206.39	2110206.58	2110206.78	0.0138	0.0090	*
Moon	1066-06-11 17:45 J	2110576.15	2110576.24	2110576.33	0.0137	0.0127	
Earth	1066-06-11 18:14 J	2110576.16	2110576.26	2110576.40	0.0137	0.0120	*
Mars	1095-06-07 21:35 J	2121164.18	2121164.40	2121164.67	0.0135	0.0075	
Mercury	1096-08-27 18:43 J	2121611.27	2121611.28	2121611.30	0.0135	0.0134	
Mercury	1096-11-23 21:50 J	2121699.35	2121699.41	2121699.48	0.0135	0.0116	
Mercury	1097-02-20 01:11 J	2121787.46	2121787.55	2121787.64	0.0135	0.0099	
Mars	1097-05-08 10:48 J	2121864.70	2121864.95	2121865.24	0.0135	0.0058	
Mercury	1097-05-19 04:19 J	2121875.57	2121875.68	2121875.79	0.0135	0.0081	
Mercury	1097-08-15 07:26 J	2121963.70	2121963.81	2121963.93	0.0135	0.0063	
Mercury	1097-11-11 10:33 J	2122051.82	2122051.94	2122052.07	0.0135	0.0045	
Mercury	1098-02-07 13:55 J	2122139.95	2122140.08	2122140.21	0.0136	0.0028	
Mercury	1098-05-06 17:02 J	2122228.08	2122228.21	2122228.34	0.0136	0.0010	
Mercury	1098-08-02 20:09 J	2122316.21	2122316.34	2122316.47	0.0136	0.0008	
Mercury	1098-10-29 23:16 J	2122404.34	2122404.47	2122404.60	0.0136	0.0026	
Mercury	1099-01-26 02:24 J	2122492.48	2122492.60	2122492.73	0.0136	0.0044	
Mercury	1099-04-24 05:31 J	2122580.61	2122580.73	2122580.85	0.0136	0.0061	
Mercury	1099-07-21 08:38 J	2122668.76	2122668.86	2122668.97	0.0136	0.0079	
Mercury	1099-10-17 11:45 J	2122756.90	2122756.99	2122757.08	0.0136	0.0097	
Mercury	1100-01-13 14:52 J	2122845.05	2122845.12	2122845.19	0.0136	0.0114	
Mercury	1100-04-10 17:45 J	2122933.22	2122933.24	2122933.28	0.0136	0.0132	
Moon	1102-11-08 06:00 J	2123874.65	2123874.75	2123874.90	0.0138	0.0120	
Earth	1102-11-08 09:21 J	2123874.78	2123874.89	2123875.01	0.0138	0.0122	*
Earth	1103-11-12 20:09 J	2124244.16	2124244.34	2124244.53	0.0138	0.0092	
Moon	1103-11-12 22:04 J	2124244.25	2124244.42	2124244.62	0.0138	0.0090	*

Moon	1104-11-16 04:48 J	2124613.49	2124613.70	2124613.94	0.0138	0.0068
Earth	1104-11-16 07:11 J	2124613.59	2124613.80	2124614.04	0.0138	0.0062 *
Venus	1105-04-15 04:04 J	2124763.55	2124763.67	2124763.83	0.0139	0.0106
Earth	1105-11-20 19:11 J	2124983.06	2124983.30	2124983.55	0.0139	0.0031
Moon	1105-11-20 21:21 J	2124983.15	2124983.39	2124983.63	0.0139	0.0025 *
Venus	1105-11-27 12:14 J	2124989.82	2124990.01	2124990.22	0.0139	0.0059
Venus	1106-07-11 20:38 J	2125216.14	2125216.36	2125216.58	0.0139	0.0011
Moon	1106-11-25 06:14 J	2125352.51	2125352.76	2125353.02	0.0139	0.0007
Earth	1106-11-25 07:55 J	2125352.58	2125352.83	2125353.08	0.0139	0.0001 *
Venus	1107-02-23 04:48 J	2125442.50	2125442.70	2125442.92	0.0140	0.0037
Venus	1107-10-07 13:11 J	2125668.89	2125669.05	2125669.24	0.0140	0.0085
Earth	1107-11-29 20:52 J	2125722.13	2125722.37	2125722.61	0.0140	0.0032
Moon	1107-11-29 22:33 J	2125722.21	2125722.44	2125722.67	0.0140	0.0038 *
Venus	1108-05-20 22:04 J	2125895.36	2125895.42	2125895.49	0.0140	0.0133
Moon	1108-12-03 09:35 J	2126091.68	2126091.90	2126092.14	0.0140	0.0062
Earth	1108-12-03 10:33 J	2126091.73	2126091.94	2126092.17	0.0140	0.0065 *
Earth	1109-12-08 00:57 J	2126461.37	2126461.54	2126461.73	0.0141	0.0097
Moon	1109-12-08 01:55 J	2126461.41	2126461.58	2126461.77	0.0141	0.0096 *
Moon	1110-12-12 16:04 J	2126831.08	2126831.17	2126831.25	0.0141	0.0133
Earth	1110-12-12 16:04 J	2126831.09	2126831.17	2126831.29	0.0141	0.0129 *
Mars	1135-12-22 18:14 J	2135971.99	2135972.26	2135972.56	0.0144	0.0064
Mercury	1137-06-18 12:14 J	2136515.92	2136516.01	2136516.11	0.0143	0.0123
Mercury	1137-09-14 19:55 J	2136604.20	2136604.33	2136604.49	0.0143	0.0094
Mars	1137-11-26 12:28 J	2136676.83	2136677.02	2136677.25	0.0143	0.0108
Mercury	1137-12-12 04:19 J	2136692.51	2136692.68	2136692.85	0.0143	0.0064
Mercury	1138-03-10 12:14 J	2136780.83	2136781.01	2136781.20	0.0143	0.0035
Mercury	1138-06-06 20:24 J	2136869.16	2136869.35	2136869.54	0.0143	0.0005
Mercury	1138-09-03 04:33 J	2136957.50	2136957.69	2136957.88	0.0143	0.0025
Mercury	1138-11-30 12:43 J	2137045.85	2137046.03	2137046.21	0.0142	0.0055
Mercury	1139-02-26 20:52 J	2137134.22	2137134.37	2137134.53	0.0142	0.0085

Mercury	1139-05-26 05:02 J	2137222.60	2137222.71	2137222.83	0.0142	0.0115
Earth	1142-05-06 19:11 J	2138299.24	2138299.30	2138299.40	0.0141	0.0133
Moon	1142-05-06 22:48 J	2138299.35	2138299.45	2138299.54	0.0141	0.0130 *
Moon	1143-05-11 13:26 J	2138668.91	2138669.06	2138669.26	0.0140	0.0106
Earth	1143-05-11 17:02 J	2138669.04	2138669.21	2138669.40	0.0140	0.0100 *
Earth	1144-05-15 13:55 J	2139038.87	2139039.08	2139039.32	0.0140	0.0067
Moon	1144-05-15 16:19 J	2139038.97	2139039.18	2139039.42	0.0140	0.0060 *
Venus	1144-12-18 16:48 J	2139256.06	2139256.20	2139256.37	0.0140	0.0099
Moon	1145-05-20 08:09 J	2139408.59	2139408.84	2139409.10	0.0140	0.0040
Earth	1145-05-20 10:19 J	2139408.69	2139408.93	2139409.19	0.0140	0.0034 *
Venus	1145-08-02 02:09 J	2139482.40	2139482.59	2139482.80	0.0139	0.0051
Venus	1146-03-16 11:31 J	2139708.76	2139708.98	2139709.20	0.0139	0.0003
Earth	1146-05-25 05:45 J	2139778.48	2139778.74	2139779.00	0.0139	0.0002
Moon	1146-05-25 07:40 J	2139778.57	2139778.82	2139779.07	0.0139	0.0004 *
Venus	1146-10-28 20:09 J	2139935.15	2139935.34	2139935.56	0.0139	0.0046
Moon	1147-05-29 23:31 J	2140148.23	2140148.48	2140148.75	0.0139	0.0033
Earth	1147-05-30 00:43 J	2140148.28	2140148.53	2140148.78	0.0139	0.0032 *
Venus	1147-06-12 04:48 J	2140161.55	2140161.70	2140161.87	0.0139	0.0093
Earth	1148-06-02 18:28 J	2140518.06	2140518.27	2140518.52	0.0138	0.0064
Moon	1148-06-02 19:26 J	2140518.10	2140518.31	2140518.55	0.0138	0.0061 *
Earth	1149-06-07 11:45 J	2140887.82	2140887.99	2140888.20	0.0138	0.0095
Moon	1149-06-07 11:45 J	2140887.83	2140887.99	2140888.19	0.0138	0.0101 *
Moon	1150-06-12 04:19 J	2141257.58	2141257.68	2141257.83	0.0137	0.0118
Earth	1150-06-12 04:19 J	2141257.60	2141257.68	2141257.81	0.0137	0.0126 *
Mars	1180-01-31 05:45 J	2152082.46	2152082.74	2152083.04	0.0135	0.0026
Mercury	1180-09-17 01:26 J	2152312.54	2152312.56	2152312.60	0.0135	0.0131
Mercury	1180-12-14 04:48 J	2152400.63	2152400.70	2152400.77	0.0135	0.0113
Mercury	1181-03-12 07:55 J	2152488.74	2152488.83	2152488.93	0.0135	0.0096
Mercury	1181-06-08 11:02 J	2152576.86	2152576.96	2152577.08	0.0135	0.0078
Mercury	1181-09-04 14:24 J	2152664.98	2152665.10	2152665.22	0.0135	0.0060

Mercury	1181-12-01 17:31 J	2152753.11	2152753.23	2152753.36	0.0135	0.0042
Mars	1181-12-31 22:04 J	2152783.27	2152783.42	2152783.63	0.0135	0.0108
Mercury	1182-02-27 20:38 J	2152841.23	2152841.36	2152841.49	0.0136	0.0025
Mercury	1182-05-26 23:45 J	2152929.36	2152929.49	2152929.63	0.0136	0.0008
Mercury	1182-08-23 02:52 J	2153017.49	2153017.62	2153017.76	0.0136	0.0012
Mercury	1182-11-19 06:00 J	2153105.63	2153105.75	2153105.89	0.0136	0.0029
Mercury	1183-02-15 09:07 J	2153193.76	2153193.88	2153194.01	0.0136	0.0047
Mercury	1183-05-14 12:14 J	2153281.90	2153282.01	2153282.13	0.0136	0.0064
Mercury	1183-08-10 15:21 J	2153370.04	2153370.14	2153370.25	0.0136	0.0082
Mercury	1183-11-06 18:28 J	2153458.19	2153458.27	2153458.37	0.0136	0.0100
Mercury	1184-02-02 21:35 J	2153546.34	2153546.40	2153546.47	0.0136	0.0117
Mercury	1184-05-01 00:43 J	2153634.52	2153634.53	2153634.55	0.0136	0.0135
Moon	1186-11-08 14:38 J	2154555.99	2154556.11	2154556.23	0.0138	0.0120
Earth	1186-11-08 17:02 J	2154556.10	2154556.21	2154556.35	0.0138	0.0119 *
Earth	1187-11-13 03:50 J	2154925.48	2154925.66	2154925.86	0.0138	0.0089
Moon	1187-11-13 06:57 J	2154925.61	2154925.79	2154925.98	0.0138	0.0090 *
Moon	1188-11-16 12:43 J	2155294.79	2155295.03	2155295.26	0.0138	0.0055
Earth	1188-11-16 15:21 J	2155294.92	2155295.14	2155295.37	0.0138	0.0059 *
Venus	1188-12-13 10:48 J	2155321.89	2155321.95	2155322.05	0.0138	0.0129
Venus	1189-07-27 18:57 J	2155548.13	2155548.29	2155548.48	0.0139	0.0082
Earth	1189-11-21 03:07 J	2155664.39	2155664.63	2155664.88	0.0139	0.0028
Moon	1189-11-21 05:31 J	2155664.50	2155664.73	2155664.97	0.0139	0.0035 *
Venus	1190-03-11 03:21 J	2155774.43	2155774.64	2155774.85	0.0139	0.0035
Venus	1190-10-23 11:45 J	2156000.77	2156000.99	2156001.20	0.0139	0.0013
Moon	1190-11-25 12:57 J	2156033.79	2156034.04	2156034.30	0.0139	0.0011
Earth	1190-11-25 15:35 J	2156033.90	2156034.15	2156034.41	0.0139	0.0005 *
Venus	1191-06-06 19:55 J	2156227.14	2156227.33	2156227.53	0.0140	0.0061
Earth	1191-11-30 04:48 J	2156403.46	2156403.70	2156403.94	0.0140	0.0036
Moon	1191-11-30 06:28 J	2156403.54	2156403.77	2156404.01	0.0140	0.0031 *
Venus	1192-01-19 04:19 J	2156453.56	2156453.68	2156453.83	0.0140	0.0109

Moon	1192-12-03 16:04 J	2156772.97	2156773.17	2156773.41	0.0140	0.0073
Earth	1192-12-03 18:28 J	2156773.06	2156773.27	2156773.50	0.0140	0.0068 *
Earth	1193-12-08 08:52 J	2157142.71	2157142.87	2157143.06	0.0141	0.0101
Moon	1193-12-08 10:33 J	2157142.78	2157142.94	2157143.11	0.0141	0.0101 *
Moon	1194-12-12 23:02 J	2157512.38	2157512.46	2157512.59	0.0141	0.0129
Earth	1194-12-13 00:43 J	2157512.45	2157512.53	2157512.62	0.0141	0.0133 *
Mars	1220-08-17 15:07 J	2166891.81	2166892.13	2166892.45	0.0143	0.0002
Mercury	1221-07-08 18:57 J	2167217.20	2167217.29	2167217.41	0.0143	0.0118
Mercury	1221-10-05 03:21 J	2167305.49	2167305.64	2167305.79	0.0143	0.0087
Mercury	1222-01-01 11:16 J	2167393.80	2167393.97	2167394.15	0.0143	0.0058
Mercury	1222-03-30 19:26 J	2167482.12	2167482.31	2167482.50	0.0143	0.0028
Mercury	1222-06-27 03:35 J	2167570.46	2167570.65	2167570.84	0.0143	0.0002
Mercury	1222-09-23 11:31 J	2167658.80	2167658.98	2167659.17	0.0143	0.0033
Mercury	1222-12-20 19:40 J	2167747.15	2167747.32	2167747.50	0.0142	0.0062
Mercury	1223-03-19 03:50 J	2167835.52	2167835.66	2167835.81	0.0142	0.0092
Mercury	1223-06-15 12:00 J	2167923.91	2167924.00	2167924.11	0.0142	0.0122
Earth	1226-05-07 04:48 J	2168980.62	2168980.70	2168980.82	0.0141	0.0129
Moon	1226-05-07 08:24 J	2168980.78	2168980.85	2168980.97	0.0141	0.0130 *
Moon	1227-05-11 23:31 J	2169350.29	2169350.48	2169350.69	0.0140	0.0091
Earth	1227-05-12 02:52 J	2169350.44	2169350.62	2169350.81	0.0140	0.0096 *
Earth	1228-05-15 23:45 J	2169720.26	2169720.49	2169720.73	0.0140	0.0062
Moon	1228-05-16 02:38 J	2169720.40	2169720.61	2169720.84	0.0140	0.0070 *
Venus	1228-08-18 00:43 J	2169814.43	2169814.53	2169814.64	0.0140	0.0121
Venus	1229-04-01 10:04 J	2170040.74	2170040.92	2170041.11	0.0140	0.0073
Moon	1229-05-20 17:02 J	2170089.96	2170090.21	2170090.48	0.0140	0.0023
Earth	1229-05-20 19:55 J	2170090.08	2170090.33	2170090.59	0.0140	0.0029 *
Venus	1229-11-13 19:11 J	2170267.09	2170267.30	2170267.52	0.0139	0.0025
Earth	1230-05-25 15:35 J	2170459.89	2170460.15	2170460.40	0.0139	0.0004
Moon	1230-05-25 17:31 J	2170459.98	2170460.23	2170460.48	0.0139	0.0000 *
Venus	1230-06-28 04:04 J	2170493.46	2170493.67	2170493.89	0.0139	0.0024

Venus	1231-02-09 12:57 J	2170719.86	2170720.04	2170720.23	0.0139	0.0071
Moon	1231-05-30 08:09 J	2170829.59	2170829.84	2170830.10	0.0139	0.0038
Earth	1231-05-30 10:04 J	2170829.68	2170829.92	2170830.18	0.0139	0.0037 *
Venus	1231-09-23 21:21 J	2170946.29	2170946.39	2170946.52	0.0138	0.0118
Earth	1232-06-03 04:19 J	2171199.47	2171199.68	2171199.92	0.0138	0.0068
Moon	1232-06-03 05:16 J	2171199.52	2171199.72	2171199.95	0.0138	0.0072 *
Moon	1233-06-07 20:38 J	2171569.18	2171569.36	2171569.57	0.0138	0.0093
Earth	1233-06-07 22:04 J	2171569.24	2171569.42	2171569.60	0.0138	0.0099 *
Earth	1234-06-12 14:24 J	2171939.04	2171939.10	2171939.21	0.0137	0.0129
Moon	1234-06-12 14:38 J	2171939.11	2171939.11	2171939.17	0.0137	0.0137 *
Mars	1262-10-25 08:24 J	2182300.68	2182300.85	2182301.05	0.0134	0.0105
Mars	1264-09-24 18:00 J	2183000.96	2183001.25	2183001.55	0.0135	0.0024
Mercury	1264-10-07 08:24 J	2183013.82	2183013.85	2183013.90	0.0135	0.0128
Mercury	1265-01-03 11:45 J	2183101.92	2183101.99	2183102.07	0.0135	0.0110
Mercury	1265-04-01 14:52 J	2183190.03	2183190.12	2183190.22	0.0135	0.0092
Mercury	1265-06-28 18:14 J	2183278.15	2183278.26	2183278.37	0.0135	0.0074
Mercury	1265-09-24 21:21 J	2183366.27	2183366.39	2183366.51	0.0135	0.0057
Mercury	1265-12-22 00:28 J	2183454.40	2183454.52	2183454.65	0.0135	0.0039
Mercury	1266-03-20 03:35 J	2183542.52	2183542.65	2183542.79	0.0135	0.0022
Mercury	1266-06-16 06:57 J	2183630.65	2183630.79	2183630.92	0.0136	0.0005
Mercury	1266-09-12 10:04 J	2183718.79	2183718.92	2183719.05	0.0136	0.0015
Mercury	1266-12-09 13:11 J	2183806.92	2183807.05	2183807.18	0.0136	0.0032
Mercury	1267-03-07 16:04 J	2183895.06	2183895.17	2183895.30	0.0136	0.0050
Mercury	1267-06-03 19:26 J	2183983.19	2183983.31	2183983.42	0.0136	0.0067
Mercury	1267-08-30 22:19 J	2184071.34	2184071.43	2184071.54	0.0136	0.0085
Mercury	1267-11-27 01:40 J	2184159.48	2184159.57	2184159.65	0.0136	0.0103
Mercury	1268-02-23 04:33 J	2184247.64	2184247.69	2184247.76	0.0136	0.0120
Moon	1270-11-08 22:04 J	2185237.29	2185237.42	2185237.59	0.0137	0.0112
Earth	1270-11-09 01:40 J	2185237.45	2185237.57	2185237.72	0.0137	0.0115 *
Earth	1271-11-13 12:14 J	2185606.83	2185607.01	2185607.23	0.0138	0.0086

Moon	1271-11-13 15:21 J	2185606.96	2185607.14	2185607.35	0.0138	0.0085 *
Moon	1272-11-16 20:24 J	2185976.13	2185976.35	2185976.59	0.0138	0.0060
Earth	1272-11-16 23:45 J	2185976.27	2185976.49	2185976.73	0.0138	0.0055 *
Venus	1273-03-27 02:09 J	2186106.47	2186106.59	2186106.75	0.0139	0.0105
Venus	1273-11-08 10:19 J	2186332.74	2186332.93	2186333.14	0.0139	0.0058
Earth	1273-11-21 11:45 J	2186345.74	2186345.99	2186346.24	0.0139	0.0024
Moon	1273-11-21 14:38 J	2186345.87	2186346.11	2186346.36	0.0139	0.0018 *
Venus	1274-06-22 18:43 J	2186559.06	2186559.28	2186559.50	0.0139	0.0011
Moon	1274-11-25 21:35 J	2186715.15	2186715.40	2186715.66	0.0139	0.0002
Earth	1274-11-26 00:14 J	2186715.26	2186715.51	2186715.76	0.0139	0.0008 *
Venus	1275-02-04 02:52 J	2186785.42	2186785.62	2186785.83	0.0139	0.0037
Venus	1275-09-18 11:31 J	2187011.81	2187011.98	2187012.16	0.0140	0.0085
Earth	1275-11-30 13:11 J	2187084.82	2187085.05	2187085.30	0.0140	0.0040
Moon	1275-11-30 15:50 J	2187084.94	2187085.16	2187085.40	0.0140	0.0047 *
Venus	1276-05-01 19:55 J	2187238.28	2187238.33	2187238.41	0.0140	0.0133
Moon	1276-12-04 00:43 J	2187454.32	2187454.53	2187454.77	0.0140	0.0069
Earth	1276-12-04 02:52 J	2187454.42	2187454.62	2187454.85	0.0140	0.0073 *
Earth	1277-12-08 17:45 J	2187824.08	2187824.24	2187824.41	0.0141	0.0104
Moon	1277-12-08 19:40 J	2187824.18	2187824.32	2187824.50	0.0141	0.0105 *
Moon	1278-12-13 06:57 J	2188193.76	2188193.79	2188193.85	0.0141	0.0139
Earth	1278-12-13 08:52 J	2188193.82	2188193.87	2188193.95	0.0141	0.0136 *
Mars	1303-05-09 04:48 J	2197106.53	2197106.70	2197106.94	0.0144	0.0110
Mars	1305-04-13 07:11 J	2197811.52	2197811.80	2197812.09	0.0143	0.0064
Mercury	1305-05-01 18:00 J	2197830.23	2197830.25	2197830.28	0.0143	0.0141
Mercury	1305-07-29 01:40 J	2197918.47	2197918.57	2197918.70	0.0143	0.0112
Mercury	1305-10-25 10:04 J	2198006.76	2198006.92	2198007.07	0.0143	0.0082
Mercury	1306-01-21 18:00 J	2198095.08	2198095.25	2198095.43	0.0143	0.0053
Mercury	1306-04-20 02:09 J	2198183.40	2198183.59	2198183.78	0.0143	0.0023
Mercury	1306-07-17 10:19 J	2198271.73	2198271.93	2198272.12	0.0143	0.0008
Mercury	1306-10-13 18:14 J	2198360.08	2198360.26	2198360.45	0.0143	0.0037

Mercury	1307-01-10 02:09 J	2198448.44	2198448.59	2198448.77	0.0142	0.0068
Mercury	1307-04-08 10:19 J	2198536.81	2198536.93	2198537.09	0.0142	0.0098
Mercury	1307-07-05 18:28 J	2198625.20	2198625.27	2198625.37	0.0142	0.0128
Earth	1310-05-07 13:11 J	2199661.94	2199662.05	2199662.18	0.0141	0.0125
Moon	1310-05-07 16:33 J	2199662.09	2199662.19	2199662.33	0.0141	0.0124 *
Moon	1311-05-12 06:57 J	2200031.62	2200031.79	2200031.99	0.0141	0.0097
Earth	1311-05-12 11:02 J	2200031.77	2200031.96	2200032.16	0.0141	0.0092 *
Earth	1312-05-16 07:40 J	2200401.60	2200401.82	2200402.07	0.0140	0.0059
Moon	1312-05-16 11:02 J	2200401.73	2200401.96	2200402.20	0.0140	0.0052 *
Venus	1312-11-29 16:48 J	2200599.05	2200599.20	2200599.36	0.0140	0.0096
Moon	1313-05-21 00:57 J	2200771.29	2200771.54	2200771.80	0.0140	0.0033
Earth	1313-05-21 04:04 J	2200771.43	2200771.67	2200771.93	0.0140	0.0026 *
Venus	1313-07-14 01:55 J	2200825.38	2200825.58	2200825.80	0.0140	0.0048
Venus	1314-02-25 11:16 J	2201051.75	2201051.97	2201052.19	0.0139	0.0001
Earth	1314-05-25 23:45 J	2201141.23	2201141.49	2201141.75	0.0139	0.0007
Moon	1314-05-26 02:38 J	2201141.36	2201141.61	2201141.86	0.0139	0.0013 *
Venus	1314-10-09 19:55 J	2201278.14	2201278.33	2201278.55	0.0139	0.0049
Venus	1315-05-24 04:48 J	2201504.55	2201504.70	2201504.86	0.0139	0.0096
Moon	1315-05-30 16:33 J	2201510.94	2201511.19	2201511.45	0.0139	0.0039
Earth	1315-05-30 18:43 J	2201511.04	2201511.28	2201511.53	0.0139	0.0040 *
Earth	1316-06-03 12:43 J	2201880.83	2201881.03	2201881.27	0.0138	0.0072
Moon	1316-06-03 15:07 J	2201880.93	2201881.13	2201881.36	0.0138	0.0070 *
Moon	1317-06-08 04:48 J	2202250.55	2202250.70	2202250.88	0.0138	0.0108
Earth	1317-06-08 06:14 J	2202250.61	2202250.76	2202250.95	0.0138	0.0103 *
Earth	1318-06-12 23:02 J	2202620.43	2202620.46	2202620.55	0.0137	0.0134
Moon	1318-06-13 00:28 J	2202620.44	2202620.52	2202620.64	0.0137	0.0126 *
Mars	1347-06-19 17:02 J	2213218.95	2213219.21	2213219.49	0.0134	0.0058
Mercury	1348-10-27 15:35 J	2213715.10	2213715.15	2213715.20	0.0135	0.0124
Mercury	1349-01-23 18:43 J	2213803.20	2213803.28	2213803.36	0.0135	0.0107
Mercury	1349-04-21 21:50 J	2213891.32	2213891.41	2213891.52	0.0135	0.0089

Mars	1349-05-20 04:33 J	2213919.43	2213919.69	2213919.94	0.0135	0.0073
Mercury	1349-07-19 01:11 J	2213979.44	2213979.55	2213979.66	0.0135	0.0071
Mercury	1349-10-15 04:19 J	2214067.56	2214067.68	2214067.80	0.0135	0.0054
Mercury	1350-01-11 07:26 J	2214155.68	2214155.81	2214155.94	0.0135	0.0036
Mercury	1350-04-09 10:33 J	2214243.81	2214243.94	2214244.08	0.0135	0.0019
Mercury	1350-07-06 13:55 J	2214331.94	2214332.08	2214332.21	0.0136	0.0004
Mercury	1350-10-02 17:02 J	2214420.08	2214420.21	2214420.34	0.0136	0.0017
Mercury	1350-12-29 20:09 J	2214508.21	2214508.34	2214508.46	0.0136	0.0035
Mercury	1351-03-27 23:02 J	2214596.35	2214596.46	2214596.59	0.0136	0.0053
Mercury	1351-06-24 02:24 J	2214684.48	2214684.60	2214684.71	0.0136	0.0070
Mercury	1351-09-20 05:16 J	2214772.63	2214772.72	2214772.83	0.0136	0.0088
Mercury	1351-12-17 08:24 J	2214860.77	2214860.85	2214860.94	0.0136	0.0106
Mercury	1352-03-14 11:31 J	2214948.93	2214948.98	2214949.04	0.0136	0.0123
Moon	1353-11-05 03:21 J	2215549.61	2215549.64	2215549.72	0.0137	0.0134
Moon	1354-11-09 06:43 J	2215918.66	2215918.78	2215918.94	0.0137	0.0115
Earth	1354-11-09 10:19 J	2215918.80	2215918.93	2215919.09	0.0137	0.0112 *
Earth	1355-11-13 20:52 J	2216288.18	2216288.37	2216288.58	0.0138	0.0082
Moon	1355-11-14 00:28 J	2216288.33	2216288.52	2216288.73	0.0138	0.0082 *
Moon	1356-11-17 04:48 J	2216657.48	2216657.70	2216657.95	0.0138	0.0049
Earth	1356-11-17 08:24 J	2216657.62	2216657.85	2216658.08	0.0138	0.0052 *
Venus	1356-11-24 09:21 J	2216664.82	2216664.89	2216664.99	0.0138	0.0127
Venus	1357-07-08 17:31 J	2216891.06	2216891.23	2216891.41	0.0139	0.0081
Earth	1357-11-21 20:09 J	2217027.10	2217027.34	2217027.59	0.0139	0.0021
Moon	1357-11-21 23:16 J	2217027.24	2217027.47	2217027.72	0.0139	0.0028 *
Venus	1358-02-20 01:40 J	2217117.36	2217117.57	2217117.78	0.0139	0.0034
Venus	1358-10-04 10:04 J	2217343.71	2217343.92	2217344.14	0.0139	0.0014
Moon	1358-11-26 05:16 J	2217396.47	2217396.72	2217396.98	0.0139	0.0018
Earth	1358-11-26 08:38 J	2217396.62	2217396.86	2217397.12	0.0139	0.0012 *
Venus	1359-05-18 18:28 J	2217570.08	2217570.27	2217570.47	0.0139	0.0062
Earth	1359-11-30 21:35 J	2217766.18	2217766.40	2217766.65	0.0140	0.0044

Moon	1359-12-01 00:43 J	2217766.29	2217766.53	2217766.77	0.0140	0.0037 *
Venus	1359-12-31 02:38 J	2217796.50	2217796.61	2217796.76	0.0140	0.0110
Moon	1360-12-04 08:38 J	2218135.66	2218135.86	2218136.08	0.0140	0.0081
Earth	1360-12-04 11:45 J	2218135.79	2218135.99	2218136.21	0.0140	0.0076 *
Earth	1361-12-09 02:09 J	2218505.45	2218505.59	2218505.77	0.0141	0.0108
Moon	1361-12-09 04:48 J	2218505.55	2218505.70	2218505.87	0.0141	0.0107 *
Moon	1362-12-13 15:21 J	2218875.09	2218875.14	2218875.21	0.0141	0.0136
Earth	1362-12-13 17:16 J	2218875.22	2218875.22	2218875.28	0.0141	0.0141
Mars	1388-01-03 02:09 J	2228026.30	2228026.59	2228026.91	0.0144	0.0046
Mercury	1389-05-22 00:43 J	2228531.48	2228531.53	2228531.59	0.0143	0.0137
Mercury	1389-08-18 08:24 J	2228619.74	2228619.85	2228619.99	0.0143	0.0108
Mercury	1389-11-14 16:48 J	2228708.04	2228708.20	2228708.36	0.0143	0.0077
Mars	1389-12-07 23:45 J	2228731.35	2228731.49	2228731.65	0.0143	0.0125
Mercury	1390-02-11 00:43 J	2228796.35	2228796.53	2228796.71	0.0143	0.0048
Mercury	1390-05-10 08:52 J	2228884.68	2228884.87	2228885.06	0.0143	0.0018
Mercury	1390-08-06 16:48 J	2228973.02	2228973.20	2228973.40	0.0143	0.0013
Mercury	1390-11-03 00:57 J	2229061.36	2229061.54	2229061.73	0.0143	0.0042
Mercury	1391-01-30 08:52 J	2229149.72	2229149.87	2229150.05	0.0142	0.0073
Mercury	1391-04-28 17:02 J	2229238.09	2229238.21	2229238.36	0.0142	0.0103
Mercury	1391-07-26 01:11 J	2229326.50	2229326.55	2229326.64	0.0142	0.0132
Earth	1394-05-07 21:07 J	2230343.27	2230343.38	2230343.53	0.0141	0.0121
Moon	1394-05-08 01:26 J	2230343.43	2230343.56	2230343.69	0.0141	0.0120 *
Moon	1395-05-12 15:35 J	2230712.95	2230713.15	2230713.37	0.0141	0.0084
Earth	1395-05-12 19:11 J	2230713.11	2230713.30	2230713.51	0.0141	0.0088 *
Earth	1396-05-16 16:04 J	2231082.94	2231083.17	2231083.41	0.0140	0.0054
Moon	1396-05-16 19:40 J	2231083.10	2231083.32	2231083.56	0.0140	0.0062 *
Venus	1396-07-29 23:16 J	2231157.37	2231157.47	2231157.60	0.0140	0.0120
Venus	1397-03-13 08:52 J	2231383.69	2231383.87	2231384.07	0.0140	0.0072
Moon	1397-05-21 08:52 J	2231452.61	2231452.87	2231453.13	0.0140	0.0014
Earth	1397-05-21 12:14 J	2231452.76	2231453.01	2231453.27	0.0140	0.0022 *

Venus	1397-10-25 18:14 J	2231610.05	2231610.26	2231610.48	0.0139	0.0023
Earth	1398-05-26 07:55 J	2231822.58	2231822.83	2231823.09	0.0139	0.0012
Moon	1398-05-26 11:02 J	2231822.71	2231822.96	2231823.21	0.0139	0.0007 *
Venus	1398-06-09 03:07 J	2231836.42	2231836.63	2231836.85	0.0139	0.0025
Venus	1399-01-21 11:45 J	2232062.82	2232062.99	2232063.19	0.0139	0.0073
Moon	1399-05-30 23:31 J	2232192.25	2232192.48	2232192.75	0.0139	0.0048
Earth	1399-05-31 03:07 J	2232192.39	2232192.63	2232192.88	0.0139	0.0044 *
Venus	1399-09-04 20:38 J	2232289.26	2232289.36	2232289.48	0.0138	0.0120
Earth	1400-06-03 21:07 J	2232562.18	2232562.38	2232562.61	0.0138	0.0076
Moon	1400-06-03 23:31 J	2232562.28	2232562.48	2232562.70	0.0138	0.0078 *
Moon	1401-06-08 12:28 J	2232931.86	2232932.02	2232932.21	0.0138	0.0102
Earth	1401-06-08 15:07 J	2232931.98	2232932.13	2232932.30	0.0138	0.0107 *
Earth	1402-06-13 07:55 J	2233301.83	2233301.83	2233301.86	0.0137	0.0137
Mars	1432-02-12 04:04 J	2244137.37	2244137.67	2244137.97	0.0135	0.0009
Mercury	1432-11-16 22:48 J	2244416.39	2244416.45	2244416.51	0.0135	0.0120
Mercury	1433-02-13 01:40 J	2244504.50	2244504.57	2244504.67	0.0135	0.0103
Mercury	1433-05-12 05:02 J	2244592.61	2244592.71	2244592.82	0.0135	0.0085
Mercury	1433-08-08 08:24 J	2244680.73	2244680.85	2244680.96	0.0135	0.0067
Mercury	1433-11-04 11:31 J	2244768.86	2244768.98	2244769.10	0.0135	0.0050
Mars	1434-01-12 17:02 J	2244838.10	2244838.21	2244838.36	0.0135	0.0123
Mercury	1434-01-31 14:38 J	2244856.98	2244857.11	2244857.24	0.0135	0.0032
Mercury	1434-04-29 17:45 J	2244945.11	2244945.24	2244945.37	0.0136	0.0014
Mercury	1434-07-26 20:52 J	2245033.24	2245033.37	2245033.51	0.0136	0.0005
Mercury	1434-10-23 00:00 J	2245121.37	2245121.50	2245121.64	0.0136	0.0022
Mercury	1435-01-19 03:07 J	2245209.51	2245209.63	2245209.76	0.0136	0.0039
Mercury	1435-04-17 06:14 J	2245297.65	2245297.76	2245297.88	0.0136	0.0057
Mercury	1435-07-14 09:21 J	2245385.78	2245385.89	2245386.00	0.0136	0.0074
Mercury	1435-10-10 12:28 J	2245473.93	2245474.02	2245474.12	0.0136	0.0092
Mercury	1436-01-06 15:35 J	2245562.08	2245562.15	2245562.23	0.0136	0.0109
Mercury	1436-04-03 18:28 J	2245650.24	2245650.27	2245650.33	0.0136	0.0128

Earth	1437-11-05 09:50 J	2246230.90	2246230.91	2246230.96	0.0137	0.0136
Moon	1438-11-09 16:33 J	2246600.04	2246600.19	2246600.37	0.0137	0.0103
Earth	1438-11-09 20:09 J	2246600.20	2246600.34	2246600.51	0.0137	0.0107 *
Earth	1439-11-14 06:43 J	2246969.59	2246969.78	2246970.01	0.0138	0.0078
Moon	1439-11-14 10:19 J	2246969.74	2246969.93	2246970.15	0.0138	0.0078 *
Moon	1440-11-17 14:38 J	2247338.89	2247339.11	2247339.35	0.0138	0.0050
Earth	1440-11-17 18:14 J	2247339.04	2247339.26	2247339.51	0.0138	0.0047 *
Venus	1441-03-08 01:40 J	2247449.44	2247449.57	2247449.73	0.0138	0.0103
Venus	1441-10-20 09:50 J	2247675.72	2247675.91	2247676.12	0.0139	0.0056
Earth	1441-11-22 06:14 J	2247708.52	2247708.76	2247709.01	0.0139	0.0016
Moon	1441-11-22 09:50 J	2247708.66	2247708.91	2247709.16	0.0139	0.0011 *
Venus	1442-06-03 18:14 J	2247902.04	2247902.26	2247902.48	0.0139	0.0008
Moon	1442-11-26 15:50 J	2248077.90	2248078.16	2248078.41	0.0139	0.0009
Earth	1442-11-26 18:57 J	2248078.05	2248078.29	2248078.54	0.0139	0.0016 *
Venus	1443-01-16 02:24 J	2248128.40	2248128.60	2248128.82	0.0139	0.0039
Venus	1443-08-30 10:48 J	2248354.80	2248354.95	2248355.14	0.0140	0.0088
Earth	1443-12-01 08:09 J	2248447.61	2248447.84	2248448.08	0.0140	0.0048
Moon	1443-12-01 11:16 J	2248447.76	2248447.97	2248448.21	0.0140	0.0056 *
Venus	1444-04-12 19:40 J	2248581.28	2248581.32	2248581.38	0.0140	0.0135
Moon	1444-12-04 18:57 J	2248817.09	2248817.29	2248817.52	0.0140	0.0075
Earth	1444-12-04 22:04 J	2248817.23	2248817.42	2248817.63	0.0140	0.0080 *
Earth	1445-12-09 12:14 J	2249186.89	2249187.01	2249187.19	0.0141	0.0113
Moon	1445-12-09 15:35 J	2249187.02	2249187.15	2249187.31	0.0141	0.0114 *
Mars	1472-08-28 23:02 J	2258946.15	2258946.46	2258946.79	0.0143	0.0018
Mercury	1473-06-11 07:26 J	2259232.75	2259232.81	2259232.90	0.0143	0.0131
Mercury	1473-09-07 15:35 J	2259321.02	2259321.15	2259321.29	0.0143	0.0101
Mercury	1473-12-04 23:31 J	2259409.33	2259409.48	2259409.65	0.0143	0.0072
Mercury	1474-03-03 07:40 J	2259497.64	2259497.82	2259498.01	0.0143	0.0042
Mercury	1474-05-30 15:50 J	2259585.97	2259586.16	2259586.35	0.0143	0.0012
Mercury	1474-08-27 00:00 J	2259674.31	2259674.50	2259674.69	0.0143	0.0018

Mercury	1474-11-23 07:55 J	2259762.65	2259762.83	2259763.02	0.0143	0.0048
Mercury	1475-02-19 16:04 J	2259851.01	2259851.17	2259851.33	0.0142	0.0078
Mercury	1475-05-19 00:14 J	2259939.39	2259939.51	2259939.64	0.0142	0.0108
Mercury	1475-08-15 08:24 J	2260027.81	2260027.85	2260027.90	0.0142	0.0138
Earth	1478-05-08 06:14 J	2261024.63	2261024.76	2261024.91	0.0141	0.0116
Moon	1478-05-08 09:35 J	2261024.77	2261024.90	2261025.06	0.0141	0.0116 *
Moon	1479-05-13 00:00 J	2261394.31	2261394.50	2261394.72	0.0141	0.0087
Earth	1479-05-13 04:04 J	2261394.47	2261394.67	2261394.88	0.0141	0.0083 *
Earth	1480-05-17 00:43 J	2261764.30	2261764.53	2261764.78	0.0140	0.0050
Moon	1480-05-17 04:33 J	2261764.44	2261764.69	2261764.93	0.0140	0.0044 *
Venus	1480-11-10 15:50 J	2261942.01	2261942.16	2261942.33	0.0140	0.0095
Moon	1481-05-21 17:16 J	2262133.98	2262134.22	2262134.49	0.0140	0.0025
Earth	1481-05-21 21:07 J	2262134.13	2262134.38	2262134.64	0.0140	0.0017 *
Venus	1481-06-25 01:11 J	2262168.35	2262168.55	2262168.77	0.0140	0.0047
Venus	1482-02-06 10:33 J	2262394.72	2262394.94	2262395.16	0.0139	0.0002
Earth	1482-05-26 16:48 J	2262503.95	2262504.20	2262504.46	0.0139	0.0016
Moon	1482-05-26 20:24 J	2262504.10	2262504.35	2262504.61	0.0139	0.0023 *
Venus	1482-09-20 19:26 J	2262621.11	2262621.31	2262621.52	0.0139	0.0050
Venus	1483-05-05 04:04 J	2262847.53	2262847.67	2262847.84	0.0139	0.0098
Moon	1483-05-31 08:38 J	2262873.63	2262873.86	2262874.12	0.0139	0.0047
Earth	1483-05-31 12:00 J	2262873.76	2262874.00	2262874.25	0.0139	0.0049 *
Earth	1484-06-04 06:28 J	2263243.56	2263243.77	2263243.98	0.0138	0.0081
Moon	1484-06-04 09:21 J	2263243.70	2263243.89	2263244.11	0.0138	0.0080 *
Moon	1485-06-08 21:07 J	2263613.26	2263613.38	2263613.55	0.0138	0.0116
Earth	1485-06-08 23:45 J	2263613.37	2263613.49	2263613.67	0.0138	0.0112 *
Moon	1486-06-13 19:40 J	2263983.28	2263983.32	2263983.38	0.0137	0.0134
Mars	1514-11-06 07:40 J	2274355.63	2274355.82	2274356.07	0.0134	0.0090
Mercury	1516-09-10 02:38 J	2275029.61	2275029.61	2275029.61	0.0135	0.0135
Mars	1516-10-06 14:38 J	2275055.83	2275056.11	2275056.40	0.0135	0.0039
Mercury	1516-12-07 05:45 J	2275117.68	2275117.74	2275117.81	0.0135	0.0117

Mercury	1517-03-05 08:52 J	2275205.79	2275205.87	2275205.97	0.0135	0.0100
Mercury	1517-06-01 12:14 J	2275293.90	2275294.01	2275294.11	0.0135	0.0082
Mercury	1517-08-28 15:07 J	2275382.02	2275382.13	2275382.26	0.0135	0.0065
Mercury	1517-11-24 18:28 J	2275470.15	2275470.27	2275470.40	0.0135	0.0046
Mercury	1518-02-20 21:35 J	2275558.27	2275558.40	2275558.54	0.0135	0.0029
Mercury	1518-05-20 00:57 J	2275646.40	2275646.54	2275646.67	0.0136	0.0012
Mercury	1518-08-16 04:04 J	2275734.53	2275734.67	2275734.80	0.0136	0.0008
Mercury	1518-11-12 07:11 J	2275822.67	2275822.80	2275822.93	0.0136	0.0025
Mercury	1519-02-08 10:19 J	2275910.80	2275910.93	2275911.05	0.0136	0.0042
Mercury	1519-05-07 13:11 J	2275998.94	2275999.05	2275999.18	0.0136	0.0060
Mercury	1519-08-03 16:33 J	2276087.08	2276087.19	2276087.30	0.0136	0.0077
Mercury	1519-10-30 19:26 J	2276175.23	2276175.31	2276175.41	0.0136	0.0095
Mercury	1520-01-26 22:48 J	2276263.38	2276263.45	2276263.52	0.0136	0.0113
Mercury	1520-04-24 01:40 J	2276351.54	2276351.57	2276351.61	0.0136	0.0130
Earth	1521-11-05 19:40 J	2276912.26	2276912.32	2276912.40	0.0137	0.0131
Moon	1521-11-05 23:02 J	2276912.37	2276912.46	2276912.58	0.0137	0.0124 *
Moon	1522-11-10 02:24 J	2277281.46	2277281.60	2277281.77	0.0137	0.0107
Earth	1522-11-10 05:45 J	2277281.59	2277281.74	2277281.92	0.0137	0.0103 *
Earth	1523-11-14 16:33 J	2277650.99	2277651.19	2277651.41	0.0138	0.0073
Moon	1523-11-14 20:24 J	2277651.14	2277651.35	2277651.57	0.0138	0.0072 *
Venus	1524-11-05 09:50 J	2278007.83	2278007.91	2278008.01	0.0138	0.0125
Moon	1524-11-18 00:57 J	2278020.30	2278020.54	2278020.78	0.0138	0.0041
Earth	1524-11-18 04:04 J	2278020.44	2278020.67	2278020.92	0.0138	0.0043 *
Venus	1525-06-19 17:45 J	2278234.07	2278234.24	2278234.43	0.0139	0.0078
Earth	1525-11-22 16:19 J	2278389.93	2278390.18	2278390.43	0.0139	0.0011
Moon	1525-11-22 19:55 J	2278390.09	2278390.33	2278390.58	0.0139	0.0017 *
Venus	1526-02-01 02:09 J	2278460.38	2278460.59	2278460.80	0.0139	0.0031
Venus	1526-09-15 10:33 J	2278686.73	2278686.94	2278687.16	0.0139	0.0017
Moon	1526-11-27 01:26 J	2278759.32	2278759.56	2278759.81	0.0139	0.0028
Earth	1526-11-27 05:02 J	2278759.47	2278759.71	2278759.96	0.0139	0.0021 *

Venus	1527-04-29 18:57 J	2278913.10	2278913.29	2278913.49	0.0139	0.0064
Earth	1527-12-01 18:14 J	2279129.04	2279129.26	2279129.50	0.0140	0.0053
Moon	1527-12-01 21:35 J	2279129.17	2279129.40	2279129.64	0.0140	0.0046 *
Venus	1527-12-12 03:07 J	2279139.53	2279139.63	2279139.78	0.0140	0.0113
Moon	1528-12-05 05:02 J	2279498.52	2279498.71	2279498.90	0.0140	0.0091
Earth	1528-12-05 08:09 J	2279498.66	2279498.84	2279499.06	0.0140	0.0085 *
Earth	1529-12-09 22:48 J	2279868.32	2279868.45	2279868.60	0.0141	0.0117
Moon	1529-12-10 01:55 J	2279868.45	2279868.58	2279868.73	0.0141	0.0115 *
Mars	1555-05-20 19:55 J	2289161.08	2289161.33	2289161.58	0.0144	0.0090
Mars	1557-04-24 23:45 J	2289866.25	2289866.49	2289866.77	0.0143	0.0083
Mercury	1557-07-01 15:21 J	2289934.05	2289934.14	2289934.24	0.0143	0.0122
Mercury	1557-09-27 23:16 J	2290022.34	2290022.47	2290022.62	0.0143	0.0093
Mercury	1557-12-25 07:26 J	2290110.64	2290110.81	2290110.98	0.0143	0.0063
Mercury	1558-03-23 15:21 J	2290198.96	2290199.14	2290199.33	0.0143	0.0034
Mercury	1558-06-19 23:31 J	2290287.29	2290287.48	2290287.67	0.0143	0.0004
Mercury	1558-09-16 07:40 J	2290375.63	2290375.82	2290376.01	0.0143	0.0026
Mercury	1558-12-13 15:50 J	2290463.98	2290464.16	2290464.33	0.0143	0.0056
Mercury	1559-03-11 23:45 J	2290552.34	2290552.49	2290552.65	0.0143	0.0086
Mercury	1559-06-08 07:55 J	2290640.73	2290640.83	2290640.95	0.0142	0.0116
Earth	1562-05-08 17:02 J	2291706.07	2291706.21	2291706.39	0.0141	0.0111
Moon	1562-05-08 20:38 J	2291706.21	2291706.36	2291706.54	0.0141	0.0109 *
Moon	1563-05-13 11:31 J	2292075.78	2292075.98	2292076.21	0.0141	0.0075
Earth	1563-05-13 14:52 J	2292075.91	2292076.12	2292076.34	0.0141	0.0078 *
Earth	1564-05-17 11:45 J	2292445.75	2292445.99	2292446.24	0.0140	0.0044
Moon	1564-05-17 15:21 J	2292445.91	2292446.14	2292446.39	0.0140	0.0052 *
Venus	1564-07-11 00:14 J	2292500.40	2292500.51	2292500.64	0.0140	0.0117
Venus	1565-02-22 09:35 J	2292726.72	2292726.90	2292727.10	0.0140	0.0069
Moon	1565-05-22 04:33 J	2292815.43	2292815.69	2292815.95	0.0140	0.0004
Earth	1565-05-22 08:09 J	2292815.58	2292815.84	2292816.10	0.0140	0.0011 *
Venus	1565-10-06 18:57 J	2292953.08	2292953.29	2292953.51	0.0139	0.0020

Venus	1566-05-21 04:04 J	2293179.46	2293179.67	2293179.89	0.0139	0.0028
Earth	1566-05-27 03:50 J	2293185.41	2293185.66	2293185.92	0.0139	0.0022
Moon	1566-05-27 07:26 J	2293185.56	2293185.81	2293186.06	0.0139	0.0016 *
Venus	1567-01-02 12:43 J	2293405.86	2293406.03	2293406.22	0.0139	0.0076
Moon	1567-05-31 19:11 J	2293555.07	2293555.30	2293555.54	0.0139	0.0059
Earth	1567-05-31 22:48 J	2293555.23	2293555.45	2293555.70	0.0139	0.0055 *
Venus	1567-08-16 21:50 J	2293632.31	2293632.41	2293632.51	0.0138	0.0123
Earth	1568-06-04 17:02 J	2293925.02	2293925.21	2293925.43	0.0138	0.0086
Moon	1568-06-04 20:09 J	2293925.16	2293925.34	2293925.55	0.0138	0.0088 *
Moon	1569-06-09 07:26 J	2294294.68	2294294.81	2294294.98	0.0138	0.0113
Earth	1569-06-09 11:02 J	2294294.84	2294294.96	2294295.11	0.0138	0.0117 *
Mars	1599-07-11 18:14 G	2305273.99	2305274.26	2305274.55	0.0135	0.0041
Mercury	1600-10-10 09:50 G	2305730.88	2305730.91	2305730.94	0.0135	0.0130
Mercury	1601-01-06 12:43 G	2305818.97	2305819.03	2305819.12	0.0135	0.0114
Mercury	1601-04-04 16:04 G	2305907.08	2305907.17	2305907.27	0.0135	0.0095
Mars	1601-06-11 04:04 G	2305974.46	2305974.67	2305974.90	0.0135	0.0089
Mercury	1601-07-01 19:26 G	2305995.20	2305995.31	2305995.42	0.0135	0.0077
Mercury	1601-09-27 22:33 G	2306083.32	2306083.44	2306083.56	0.0135	0.0060
Mercury	1601-12-25 01:40 G	2306171.45	2306171.57	2306171.70	0.0135	0.0042
Mercury	1602-03-23 04:48 G	2306259.58	2306259.70	2306259.84	0.0136	0.0025
Mercury	1602-06-19 08:09 G	2306347.70	2306347.84	2306347.97	0.0136	0.0007
Mercury	1602-09-15 11:16 G	2306435.84	2306435.97	2306436.10	0.0136	0.0011
Mercury	1602-12-12 14:24 G	2306523.97	2306524.10	2306524.23	0.0136	0.0029
Mercury	1603-03-10 17:16 G	2306612.11	2306612.22	2306612.35	0.0136	0.0047
Mercury	1603-06-06 20:38 G	2306700.24	2306700.36	2306700.48	0.0136	0.0064
Mercury	1603-09-02 23:31 G	2306788.39	2306788.48	2306788.60	0.0136	0.0082
Mercury	1603-11-30 02:52 G	2306876.53	2306876.62	2306876.71	0.0136	0.0099
Mercury	1604-02-26 05:45 G	2306964.68	2306964.74	2306964.82	0.0136	0.0117
Mercury	1604-05-24 08:52 G	2307052.86	2307052.87	2307052.90	0.0136	0.0135
Earth	1605-11-16 06:14 G	2307593.69	2307593.76	2307593.87	0.0137	0.0127

Moon	1605-11-16 09:35 G	2307593.86	2307593.90	2307593.98	0.0137	0.0133	*
Moon	1606-11-20 13:26 G	2307962.88	2307963.06	2307963.25	0.0137	0.0093	
Earth	1606-11-20 16:48 G	2307963.03	2307963.20	2307963.38	0.0137	0.0098	*
Earth	1607-11-25 03:35 G	2308332.44	2308332.65	2308332.88	0.0138	0.0068	
Moon	1607-11-25 06:57 G	2308332.58	2308332.79	2308333.02	0.0138	0.0069	*
Moon	1608-11-28 11:45 G	2308701.76	2308701.99	2308702.23	0.0138	0.0040	
Earth	1608-11-28 15:21 G	2308701.91	2308702.14	2308702.39	0.0138	0.0037	*
Venus	1609-02-27 02:38 G	2308792.47	2308792.61	2308792.77	0.0138	0.0100	
Venus	1609-10-11 10:48 G	2309018.76	2309018.95	2309019.16	0.0139	0.0053	
Earth	1609-12-03 03:35 G	2309071.40	2309071.65	2309071.90	0.0139	0.0006	
Moon	1609-12-03 06:57 G	2309071.54	2309071.79	2309072.04	0.0139	0.0002	*
Venus	1610-05-25 19:11 G	2309245.09	2309245.30	2309245.52	0.0139	0.0006	
Moon	1610-12-07 12:43 G	2309440.79	2309441.03	2309441.28	0.0139	0.0019	
Earth	1610-12-07 16:19 G	2309440.94	2309441.18	2309441.43	0.0139	0.0026	*
Venus	1611-01-07 03:35 G	2309471.44	2309471.65	2309471.86	0.0139	0.0042	
Venus	1611-08-21 11:45 G	2309697.84	2309697.99	2309698.17	0.0140	0.0091	
Earth	1611-12-12 05:31 G	2309810.51	2309810.73	2309810.96	0.0140	0.0058	
Moon	1611-12-12 09:07 G	2309810.67	2309810.88	2309811.11	0.0140	0.0066	*
Venus	1612-04-03 20:24 G	2309924.34	2309924.35	2309924.40	0.0140	0.0139	
Moon	1612-12-15 16:04 G	2310179.98	2310180.17	2310180.37	0.0140	0.0085	
Earth	1612-12-15 19:26 G	2310180.13	2310180.31	2310180.51	0.0140	0.0090	*
Earth	1613-12-20 10:04 G	2310549.80	2310549.92	2310550.04	0.0141	0.0122	
Moon	1613-12-20 13:11 G	2310549.96	2310550.05	2310550.18	0.0141	0.0125	*
Mars	1640-01-25 01:40 G	2320081.26	2320081.57	2320081.90	0.0144	0.0023	
Mercury	1641-05-04 15:21 G	2320547.13	2320547.14	2320547.17	0.0143	0.0142	
Mercury	1641-07-31 23:16 G	2320635.37	2320635.47	2320635.60	0.0143	0.0113	
Mercury	1641-10-28 07:26 G	2320723.66	2320723.81	2320723.97	0.0143	0.0083	
Mercury	1642-01-24 15:21 G	2320811.97	2320812.14	2320812.32	0.0143	0.0054	
Mercury	1642-04-22 23:31 G	2320900.29	2320900.48	2320900.67	0.0143	0.0024	
Mercury	1642-07-20 07:26 G	2320988.62	2320988.81	2320989.01	0.0143	0.0007	

Mercury	1642-10-16 15:35 G	2321076.97	2321077.15	2321077.34	0.0143	0.0035
Mercury	1643-01-12 23:31 G	2321165.32	2321165.48	2321165.66	0.0143	0.0066
Mercury	1643-04-11 07:40 G	2321253.69	2321253.82	2321253.97	0.0142	0.0095
Mercury	1643-07-08 15:35 G	2321342.08	2321342.15	2321342.26	0.0142	0.0126
Moon	1645-05-14 05:16 G	2322017.64	2322017.72	2322017.81	0.0142	0.0133
Earth	1645-05-14 07:26 G	2322017.77	2322017.81	2322017.87	0.0142	0.0139 *
Earth	1646-05-19 05:31 G	2322387.57	2322387.73	2322387.91	0.0141	0.0106
Moon	1646-05-19 08:24 G	2322387.69	2322387.85	2322388.04	0.0141	0.0106 *
Moon	1647-05-23 23:45 G	2322757.28	2322757.49	2322757.71	0.0141	0.0075
Earth	1647-05-24 03:21 G	2322757.42	2322757.64	2322757.86	0.0141	0.0072 *
Venus	1648-03-20 09:35 G	2323058.87	2323058.90	2323058.93	0.0140	0.0139
Earth	1648-05-27 23:45 G	2323127.25	2323127.49	2323127.75	0.0140	0.0039
Moon	1648-05-28 03:07 G	2323127.38	2323127.63	2323127.89	0.0140	0.0033 *
Venus	1648-11-01 18:43 G	2323285.13	2323285.28	2323285.46	0.0140	0.0090
Moon	1649-06-01 16:33 G	2323496.94	2323497.19	2323497.45	0.0140	0.0013
Earth	1649-06-01 20:24 G	2323497.09	2323497.35	2323497.61	0.0140	0.0005 *
Venus	1649-06-16 04:04 G	2323511.47	2323511.67	2323511.89	0.0140	0.0041
Venus	1650-01-28 13:26 G	2323737.84	2323738.06	2323738.28	0.0139	0.0007
Earth	1650-06-06 16:04 G	2323866.92	2323867.17	2323867.42	0.0139	0.0028
Moon	1650-06-06 19:40 G	2323867.07	2323867.32	2323867.58	0.0139	0.0035 *
Venus	1650-09-11 22:19 G	2323964.23	2323964.43	2323964.63	0.0139	0.0055
Venus	1651-04-26 07:11 G	2324190.66	2324190.80	2324190.95	0.0139	0.0103
Moon	1651-06-11 07:26 G	2324236.58	2324236.81	2324237.06	0.0139	0.0057
Earth	1651-06-11 11:16 G	2324236.73	2324236.97	2324237.20	0.0139	0.0060 *
Earth	1652-06-15 05:31 G	2324606.54	2324606.73	2324606.92	0.0138	0.0092
Moon	1652-06-15 09:07 G	2324606.70	2324606.88	2324607.08	0.0138	0.0092 *
Moon	1653-06-19 19:26 G	2324976.23	2324976.31	2324976.44	0.0138	0.0126
Earth	1653-06-19 22:48 G	2324976.36	2324976.45	2324976.59	0.0138	0.0123 *
Mars	1682-04-05 00:57 G	2335492.43	2335492.54	2335492.71	0.0134	0.0118
Mars	1684-03-05 04:19 G	2336192.39	2336192.68	2336192.98	0.0135	0.0008

Mercury	1684-10-30 16:48 G	2336432.16	2336432.20	2336432.25	0.0135	0.0127
Mercury	1685-01-26 19:55 G	2336520.26	2336520.33	2336520.42	0.0135	0.0109
Mercury	1685-04-24 23:16 G	2336608.37	2336608.47	2336608.57	0.0135	0.0091
Mercury	1685-07-22 02:38 G	2336696.49	2336696.61	2336696.72	0.0135	0.0074
Mercury	1685-10-18 05:31 G	2336784.62	2336784.73	2336784.86	0.0135	0.0056
Mercury	1686-01-14 08:52 G	2336872.74	2336872.87	2336873.00	0.0135	0.0038
Mercury	1686-04-12 12:00 G	2336960.87	2336961.00	2336961.13	0.0136	0.0021
Mercury	1686-07-09 15:07 G	2337049.00	2337049.13	2337049.26	0.0136	0.0003
Mercury	1686-10-05 18:14 G	2337137.13	2337137.26	2337137.39	0.0136	0.0015
Mercury	1687-01-01 21:21 G	2337225.26	2337225.39	2337225.52	0.0136	0.0033
Mercury	1687-03-31 00:28 G	2337313.40	2337313.52	2337313.65	0.0136	0.0050
Mercury	1687-06-27 03:35 G	2337401.54	2337401.65	2337401.77	0.0136	0.0068
Mercury	1687-09-23 06:43 G	2337489.68	2337489.78	2337489.89	0.0136	0.0085
Mercury	1687-12-20 09:50 G	2337577.83	2337577.91	2337578.00	0.0136	0.0103
Mercury	1688-03-17 12:57 G	2337665.99	2337666.04	2337666.10	0.0136	0.0120
Earth	1689-11-16 15:35 G	2338275.06	2338275.15	2338275.28	0.0137	0.0123
Moon	1689-11-16 18:57 G	2338275.16	2338275.29	2338275.43	0.0137	0.0115 *
Moon	1690-11-20 23:16 G	2338644.32	2338644.47	2338644.66	0.0137	0.0099
Earth	1690-11-21 02:24 G	2338644.43	2338644.60	2338644.79	0.0137	0.0094 *
Earth	1691-11-25 13:11 G	2339013.84	2339014.05	2339014.29	0.0138	0.0064
Moon	1691-11-25 16:33 G	2339013.98	2339014.19	2339014.43	0.0138	0.0062 *
Venus	1692-10-27 10:48 G	2339350.86	2339350.95	2339351.06	0.0138	0.0122
Moon	1692-11-28 21:50 G	2339383.18	2339383.41	2339383.66	0.0138	0.0033
Earth	1692-11-29 01:11 G	2339383.30	2339383.55	2339383.79	0.0138	0.0033 *
Venus	1693-06-10 18:28 G	2339577.11	2339577.27	2339577.47	0.0139	0.0076
Earth	1693-12-03 13:11 G	2339752.80	2339753.05	2339753.30	0.0139	0.0002
Moon	1693-12-03 16:48 G	2339752.95	2339753.20	2339753.45	0.0139	0.0007 *
Venus	1694-01-23 03:07 G	2339803.41	2339803.63	2339803.84	0.0139	0.0028
Venus	1694-09-06 11:31 G	2340029.76	2340029.98	2340030.19	0.0139	0.0020
Moon	1694-12-07 22:19 G	2340122.20	2340122.43	2340122.68	0.0139	0.0038

Earth	1694-12-08 01:55 G	2340122.34	2340122.58	2340122.83	0.0139	0.0031	*
Venus	1695-04-20 19:40 G	2340256.14	2340256.32	2340256.52	0.0140	0.0068	
Venus	1695-12-03 04:04 G	2340482.56	2340482.67	2340482.81	0.0140	0.0116	
Earth	1695-12-12 14:52 G	2340491.91	2340492.12	2340492.36	0.0140	0.0063	
Moon	1695-12-12 18:28 G	2340492.05	2340492.27	2340492.51	0.0140	0.0056	*
Moon	1696-12-16 01:11 G	2340861.39	2340861.55	2340861.73	0.0140	0.0101	
Earth	1696-12-16 05:02 G	2340861.53	2340861.71	2340861.90	0.0140	0.0095	*
Earth	1697-12-20 19:11 G	2341231.21	2341231.30	2341231.42	0.0141	0.0127	
Moon	1697-12-20 23:02 G	2341231.34	2341231.46	2341231.58	0.0141	0.0123	*
Mars	1722-10-16 18:14 G	2350296.15	2350296.26	2350296.42	0.0144	0.0130	
Mars	1724-09-21 05:45 G	2351001.44	2351001.74	2351002.05	0.0144	0.0045	
Mercury	1725-05-25 23:31 G	2351248.42	2351248.48	2351248.55	0.0143	0.0133	
Mercury	1725-08-22 07:26 G	2351336.69	2351336.81	2351336.94	0.0143	0.0103	
Mercury	1725-11-18 15:21 G	2351424.98	2351425.14	2351425.31	0.0143	0.0074	
Mercury	1726-02-14 23:31 G	2351513.30	2351513.48	2351513.66	0.0143	0.0044	
Mercury	1726-05-14 07:26 G	2351601.62	2351601.81	2351602.00	0.0143	0.0015	
Mercury	1726-08-10 15:35 G	2351689.96	2351690.15	2351690.34	0.0143	0.0015	
Mercury	1726-11-06 23:31 G	2351778.30	2351778.48	2351778.67	0.0143	0.0045	
Mercury	1727-02-03 07:40 G	2351866.66	2351866.82	2351866.99	0.0143	0.0075	
Mercury	1727-05-02 15:50 G	2351955.03	2351955.16	2351955.29	0.0143	0.0105	
Mercury	1727-07-29 23:45 G	2352043.44	2352043.49	2352043.56	0.0142	0.0135	
Moon	1729-05-15 18:00 G	2352699.21	2352699.25	2352699.30	0.0142	0.0139	
Earth	1729-05-15 19:55 G	2352699.27	2352699.33	2352699.43	0.0142	0.0134	*
Earth	1730-05-20 18:14 G	2353069.09	2353069.26	2353069.45	0.0141	0.0101	
Moon	1730-05-20 20:52 G	2353069.19	2353069.37	2353069.57	0.0141	0.0098	*
Moon	1731-05-25 13:11 G	2353438.83	2353439.05	2353439.28	0.0141	0.0065	
Earth	1731-05-25 15:50 G	2353438.94	2353439.16	2353439.39	0.0141	0.0067	*
Earth	1732-05-29 12:43 G	2353808.79	2353809.03	2353809.29	0.0140	0.0033	
Moon	1732-05-29 16:04 G	2353808.93	2353809.17	2353809.43	0.0140	0.0040	*
Venus	1732-07-03 04:19 G	2353843.55	2353843.68	2353843.82	0.0140	0.0110	

Venus	1733-02-14 13:40 G	2354069.88	2354070.07	2354070.28	0.0140	0.0062
Moon	1733-06-03 06:00 G	2354178.50	2354178.75	2354179.01	0.0140	0.0008
Earth	1733-06-03 09:21 G	2354178.63	2354178.89	2354179.15	0.0140	0.0001 *
Venus	1733-09-28 23:02 G	2354296.25	2354296.46	2354296.68	0.0139	0.0013
Venus	1734-05-13 08:09 G	2354522.63	2354522.84	2354523.06	0.0139	0.0036
Earth	1734-06-08 05:02 G	2354548.46	2354548.71	2354548.96	0.0139	0.0033
Moon	1734-06-08 08:38 G	2354548.61	2354548.86	2354549.12	0.0139	0.0027 *
Venus	1734-12-25 17:02 G	2354749.04	2354749.21	2354749.39	0.0139	0.0083
Moon	1735-06-12 20:09 G	2354918.13	2354918.34	2354918.58	0.0139	0.0071
Earth	1735-06-13 00:00 G	2354918.29	2354918.50	2354918.74	0.0139	0.0066 *
Venus	1735-08-09 01:26 G	2354975.51	2354975.56	2354975.66	0.0139	0.0131
Earth	1736-06-16 18:14 G	2355288.09	2355288.26	2355288.45	0.0138	0.0097
Moon	1736-06-16 21:21 G	2355288.23	2355288.39	2355288.60	0.0138	0.0099 *
Moon	1737-06-21 08:24 G	2355657.74	2355657.85	2355657.97	0.0138	0.0124
Earth	1737-06-21 12:00 G	2355657.92	2355658.00	2355658.11	0.0138	0.0128 *
Mars	1766-11-29 11:16 G	2366410.73	2366410.97	2366411.24	0.0134	0.0069
Mars	1768-10-29 17:02 G	2367110.96	2367111.21	2367111.50	0.0135	0.0058
Mercury	1768-11-21 00:00 G	2367133.45	2367133.50	2367133.56	0.0135	0.0122
Mercury	1769-02-17 03:21 G	2367221.56	2367221.64	2367221.73	0.0135	0.0104
Mercury	1769-05-16 06:28 G	2367309.67	2367309.77	2367309.88	0.0135	0.0087
Mercury	1769-08-12 09:35 G	2367397.79	2367397.90	2367398.02	0.0135	0.0069
Mercury	1769-11-08 12:57 G	2367485.92	2367486.04	2367486.16	0.0135	0.0051
Mercury	1770-02-04 16:04 G	2367574.04	2367574.17	2367574.30	0.0135	0.0034
Mercury	1770-05-03 19:11 G	2367662.17	2367662.30	2367662.44	0.0135	0.0016
Mercury	1770-07-30 22:19 G	2367750.30	2367750.43	2367750.57	0.0136	0.0005
Mercury	1770-10-27 01:26 G	2367838.43	2367838.56	2367838.70	0.0136	0.0020
Mercury	1771-01-23 04:48 G	2367926.57	2367926.70	2367926.82	0.0136	0.0037
Mercury	1771-04-21 07:40 G	2368014.71	2368014.82	2368014.95	0.0136	0.0055
Mercury	1771-07-18 11:02 G	2368102.85	2368102.96	2368103.07	0.0136	0.0072
Mercury	1771-10-14 13:55 G	2368190.99	2368191.08	2368191.18	0.0136	0.0090

Mercury	1772-01-10 17:02 G	2368279.14	2368279.21	2368279.30	0.0136	0.0108
Mercury	1772-04-07 20:09 G	2368367.30	2368367.34	2368367.40	0.0136	0.0125
Earth	1773-11-18 02:24 G	2368956.50	2368956.60	2368956.75	0.0137	0.0119
Moon	1773-11-18 05:16 G	2368956.63	2368956.72	2368956.84	0.0137	0.0125 *
Moon	1774-11-22 10:33 G	2369325.75	2369325.94	2369326.14	0.0137	0.0084
Earth	1774-11-22 12:57 G	2369325.87	2369326.04	2369326.25	0.0137	0.0090 *
Earth	1775-11-27 00:14 G	2369695.29	2369695.51	2369695.74	0.0138	0.0059
Moon	1775-11-27 02:38 G	2369695.40	2369695.61	2369695.86	0.0138	0.0062 *
Moon	1776-11-30 08:38 G	2370064.63	2370064.86	2370065.11	0.0138	0.0030
Earth	1776-11-30 11:45 G	2370064.75	2370064.99	2370065.24	0.0138	0.0029 *
Venus	1777-02-09 03:07 G	2370135.49	2370135.63	2370135.80	0.0138	0.0097
Venus	1777-09-23 11:31 G	2370361.78	2370361.98	2370362.19	0.0139	0.0050
Earth	1777-12-04 23:45 G	2370434.24	2370434.49	2370434.74	0.0139	0.0004
Moon	1777-12-05 02:52 G	2370434.36	2370434.62	2370434.87	0.0139	0.0007 *
Venus	1778-05-07 19:40 G	2370588.11	2370588.32	2370588.54	0.0139	0.0003
Moon	1778-12-09 09:07 G	2370803.64	2370803.88	2370804.13	0.0139	0.0029
Earth	1778-12-09 12:14 G	2370803.78	2370804.01	2370804.26	0.0139	0.0036 *
Venus	1778-12-20 03:50 G	2370814.46	2370814.66	2370814.87	0.0139	0.0045
Venus	1779-08-03 12:28 G	2371040.86	2371041.02	2371041.18	0.0140	0.0093
Earth	1779-12-14 01:26 G	2371173.35	2371173.56	2371173.79	0.0140	0.0067
Moon	1779-12-14 04:48 G	2371173.50	2371173.70	2371173.93	0.0140	0.0075 *
Moon	1780-12-17 11:45 G	2371542.82	2371542.99	2371543.19	0.0140	0.0093
Earth	1780-12-17 15:07 G	2371542.97	2371543.13	2371543.32	0.0140	0.0099 *
Earth	1781-12-22 05:31 G	2371912.65	2371912.73	2371912.83	0.0141	0.0131
Moon	1781-12-22 09:21 G	2371912.82	2371912.89	2371912.97	0.0141	0.0134 *
Jupiter	1789-05-10 21:50 G	2374609.10	2374609.41	2374609.77	0.0144	0.0111
Mars	1807-06-13 22:48 G	2381216.16	2381216.45	2381216.74	0.0144	0.0062
Mars	1809-05-19 03:50 G	2381921.48	2381921.66	2381921.89	0.0143	0.0110
Mercury	1809-06-16 06:43 G	2381949.70	2381949.78	2381949.88	0.0143	0.0126
Mercury	1809-09-12 14:38 G	2382037.99	2382038.11	2382038.26	0.0143	0.0096

Mercury	1809-12-09 22:48 G	2382126.29	2382126.45	2382126.62	0.0143	0.0066
Mercury	1810-03-08 06:43 G	2382214.61	2382214.78	2382214.97	0.0143	0.0037
Mercury	1810-06-04 14:52 G	2382302.93	2382303.12	2382303.31	0.0143	0.0007
Mercury	1810-08-31 23:02 G	2382391.27	2382391.46	2382391.65	0.0143	0.0023
Mercury	1810-11-28 06:57 G	2382479.62	2382479.79	2382479.97	0.0143	0.0053
Mercury	1811-02-24 14:52 G	2382567.98	2382568.12	2382568.29	0.0143	0.0083
Mercury	1811-05-23 23:02 G	2382656.36	2382656.46	2382656.59	0.0143	0.0113
Mercury	1811-08-20 07:26 G	2382744.81	2382744.81	2382744.82	0.0142	0.0142
Moon	1813-05-17 05:31 G	2383380.63	2383380.73	2383380.86	0.0142	0.0124
Earth	1813-05-17 06:57 G	2383380.70	2383380.79	2383380.90	0.0142	0.0130 *
Earth	1814-05-22 05:02 G	2383750.54	2383750.71	2383750.92	0.0141	0.0096
Moon	1814-05-22 06:57 G	2383750.62	2383750.79	2383751.01	0.0141	0.0099 *
Moon	1815-05-27 00:14 G	2384120.30	2384120.51	2384120.75	0.0141	0.0065
Earth	1815-05-27 02:52 G	2384120.40	2384120.62	2384120.86	0.0141	0.0063 *
Venus	1816-03-03 12:57 G	2384401.97	2384402.04	2384402.12	0.0140	0.0132
Earth	1816-05-31 00:14 G	2384490.26	2384490.51	2384490.76	0.0140	0.0029
Moon	1816-05-31 02:52 G	2384490.36	2384490.62	2384490.88	0.0140	0.0023 *
Venus	1816-10-15 22:19 G	2384628.27	2384628.43	2384628.62	0.0140	0.0083
Venus	1817-05-30 07:55 G	2384854.62	2384854.83	2384855.04	0.0140	0.0034
Moon	1817-06-04 17:31 G	2384859.98	2384860.23	2384860.49	0.0140	0.0002
Earth	1817-06-04 20:52 G	2384860.11	2384860.37	2384860.63	0.0140	0.0005 *
Venus	1818-01-11 17:02 G	2385081.00	2385081.21	2385081.43	0.0139	0.0015
Earth	1818-06-09 16:33 G	2385229.95	2385230.19	2385230.45	0.0139	0.0038
Moon	1818-06-09 20:09 G	2385230.10	2385230.34	2385230.59	0.0139	0.0045 *
Venus	1818-08-26 01:55 G	2385307.40	2385307.58	2385307.79	0.0139	0.0063
Venus	1819-04-09 11:02 G	2385533.84	2385533.96	2385534.10	0.0139	0.0110
Moon	1819-06-14 08:09 G	2385599.62	2385599.84	2385600.07	0.0139	0.0067
Earth	1819-06-14 11:31 G	2385599.78	2385599.98	2385600.22	0.0139	0.0071 *
Earth	1820-06-18 05:45 G	2385969.59	2385969.74	2385969.94	0.0138	0.0103
Moon	1820-06-18 10:04 G	2385969.75	2385969.92	2385970.10	0.0138	0.0103 *

Moon	1821-06-22 20:24 G	2386339.31	2386339.35	2386339.40	0.0138	0.0135
Earth	1821-06-22 23:31 G	2386339.44	2386339.48	2386339.57	0.0138	0.0133
Mars	1851-07-25 21:50 G	2397329.13	2397329.41	2397329.71	0.0134	0.0021
Mercury	1852-12-12 07:11 G	2397834.74	2397834.80	2397834.87	0.0135	0.0118
Mercury	1853-03-10 10:33 G	2397922.85	2397922.94	2397923.03	0.0135	0.0100
Mercury	1853-06-06 13:40 G	2398010.97	2398011.07	2398011.18	0.0135	0.0083
Mars	1853-06-25 05:16 G	2398029.54	2398029.72	2398029.90	0.0135	0.0106
Mercury	1853-09-02 16:48 G	2398099.09	2398099.20	2398099.32	0.0135	0.0065
Mercury	1853-11-29 20:09 G	2398187.21	2398187.34	2398187.46	0.0135	0.0047
Mercury	1854-02-25 23:16 G	2398275.34	2398275.47	2398275.60	0.0135	0.0030
Mercury	1854-05-25 02:24 G	2398363.47	2398363.60	2398363.73	0.0135	0.0012
Mercury	1854-08-21 05:31 G	2398451.60	2398451.73	2398451.87	0.0135	0.0006
Mercury	1854-11-17 08:38 G	2398539.73	2398539.86	2398539.99	0.0136	0.0023
Mercury	1855-02-13 11:45 G	2398627.87	2398627.99	2398628.12	0.0136	0.0041
Mercury	1855-05-12 14:52 G	2398716.01	2398716.12	2398716.24	0.0136	0.0059
Mercury	1855-08-08 18:00 G	2398804.15	2398804.25	2398804.36	0.0136	0.0076
Mercury	1855-11-04 21:07 G	2398892.29	2398892.38	2398892.48	0.0136	0.0094
Mercury	1856-02-01 00:14 G	2398980.44	2398980.51	2398980.59	0.0136	0.0111
Mercury	1856-04-29 03:07 G	2399068.60	2399068.63	2399068.68	0.0136	0.0129
Earth	1857-11-19 12:28 G	2399637.90	2399638.02	2399638.17	0.0137	0.0115
Moon	1857-11-19 14:38 G	2399637.96	2399638.11	2399638.28	0.0137	0.0107 *
Moon	1858-11-23 21:07 G	2400007.20	2400007.38	2400007.57	0.0137	0.0091
Earth	1858-11-23 23:02 G	2400007.28	2400007.46	2400007.67	0.0137	0.0085 *
Earth	1859-11-28 10:04 G	2400376.70	2400376.92	2400377.15	0.0138	0.0055
Moon	1859-11-28 12:28 G	2400376.80	2400377.02	2400377.27	0.0138	0.0053 *
Venus	1860-10-10 11:16 G	2400693.87	2400693.97	2400694.09	0.0138	0.0118
Moon	1860-12-01 19:11 G	2400746.06	2400746.30	2400746.55	0.0138	0.0025
Earth	1860-12-01 21:21 G	2400746.15	2400746.39	2400746.65	0.0138	0.0025 *
Venus	1861-05-24 19:26 G	2400920.13	2400920.31	2400920.50	0.0138	0.0072
Earth	1861-12-06 09:21 G	2401115.64	2401115.89	2401116.14	0.0139	0.0007

Moon	1861-12-06 12:28 G	2401115.76	2401116.02	2401116.27	0.0139	0.0003	*
Venus	1862-01-06 03:21 G	2401146.43	2401146.64	2401146.86	0.0139	0.0025	
Venus	1862-08-20 11:31 G	2401372.77	2401372.98	2401373.20	0.0139	0.0023	
Moon	1862-12-10 18:57 G	2401485.06	2401485.29	2401485.53	0.0139	0.0045	
Earth	1862-12-10 21:35 G	2401485.17	2401485.40	2401485.65	0.0139	0.0039	*
Venus	1863-04-03 19:40 G	2401599.15	2401599.32	2401599.52	0.0139	0.0071	
Venus	1863-11-16 04:04 G	2401825.57	2401825.67	2401825.80	0.0140	0.0119	
Earth	1863-12-15 10:48 G	2401854.74	2401854.95	2401855.17	0.0140	0.0071	
Moon	1863-12-15 13:40 G	2401854.85	2401855.07	2401855.31	0.0140	0.0064	*
Moon	1864-12-18 20:52 G	2402224.23	2402224.37	2402224.54	0.0140	0.0110	
Earth	1864-12-19 00:14 G	2402224.36	2402224.51	2402224.69	0.0140	0.0103	*
Earth	1865-12-23 14:24 G	2402594.05	2402594.10	2402594.19	0.0141	0.0135	
Moon	1865-12-23 18:00 G	2402594.16	2402594.25	2402594.35	0.0141	0.0130	*
Mars	1892-02-08 00:00 G	2412136.18	2412136.50	2412136.82	0.0144	0.0002	
Mercury	1893-07-06 14:09 G	2412650.99	2412651.09	2412651.20	0.0143	0.0119	
Mercury	1893-10-02 22:04 G	2412739.28	2412739.42	2412739.57	0.0143	0.0089	
Mercury	1893-12-30 06:14 G	2412827.59	2412827.76	2412827.93	0.0143	0.0059	
Mercury	1894-03-28 14:09 G	2412915.91	2412916.09	2412916.28	0.0143	0.0030	
Mercury	1894-06-24 22:19 G	2413004.24	2413004.43	2413004.62	0.0143	0.0002	
Mercury	1894-09-21 06:14 G	2413092.58	2413092.76	2413092.95	0.0143	0.0030	
Mercury	1894-12-18 14:09 G	2413180.93	2413181.09	2413181.27	0.0143	0.0060	
Mercury	1895-03-16 22:19 G	2413269.29	2413269.43	2413269.59	0.0143	0.0090	
Mercury	1895-06-13 06:28 G	2413357.68	2413357.77	2413357.88	0.0143	0.0120	
Moon	1897-05-17 16:33 G	2414062.11	2414062.19	2414062.29	0.0142	0.0131	
Earth	1897-05-17 17:31 G	2414062.12	2414062.23	2414062.36	0.0142	0.0125	*
Earth	1898-05-22 15:50 G	2414431.98	2414432.16	2414432.37	0.0141	0.0092	
Moon	1898-05-22 17:16 G	2414432.03	2414432.22	2414432.45	0.0141	0.0089	*
Moon	1899-05-27 12:00 G	2414801.78	2414802.00	2414802.24	0.0141	0.0057	
Earth	1899-05-27 13:40 G	2414801.85	2414802.07	2414802.32	0.0141	0.0058	*
Earth	1900-06-01 11:16 G	2415171.71	2415171.97	2415172.22	0.0140	0.0024	

Moon	1900-06-01 13:55 G	2415171.83	2415172.08	2415172.34	0.0140	0.0029 *
Venus	1900-06-16 06:28 G	2415186.64	2415186.77	2415186.93	0.0140	0.0105
Venus	1901-01-28 16:04 G	2415412.98	2415413.17	2415413.38	0.0140	0.0056
Moon	1901-06-06 05:16 G	2415541.48	2415541.72	2415541.98	0.0140	0.0017
Earth	1901-06-06 07:55 G	2415541.58	2415541.83	2415542.09	0.0140	0.0010 *
Venus	1901-09-12 01:40 G	2415639.35	2415639.57	2415639.79	0.0140	0.0007
Venus	1902-04-26 10:48 G	2415865.75	2415865.95	2415866.17	0.0139	0.0042
Earth	1902-06-11 03:35 G	2415911.41	2415911.65	2415911.90	0.0139	0.0043
Moon	1902-06-11 07:11 G	2415911.55	2415911.80	2415912.05	0.0139	0.0037 *
Venus	1902-12-08 19:40 G	2416092.17	2416092.32	2416092.50	0.0139	0.0089
Moon	1903-06-15 19:26 G	2416281.11	2416281.31	2416281.52	0.0139	0.0081
Earth	1903-06-15 22:33 G	2416281.24	2416281.44	2416281.68	0.0139	0.0076 *
Venus	1903-07-23 04:19 G	2416318.66	2416318.68	2416318.74	0.0139	0.0137
Earth	1904-06-19 17:02 G	2416651.06	2416651.21	2416651.39	0.0138	0.0107
Moon	1904-06-19 20:38 G	2416651.21	2416651.36	2416651.53	0.0138	0.0106 *
Moon	1905-06-24 06:43 G	2417020.75	2417020.78	2417020.86	0.0138	0.0135
Earth	1905-06-24 10:48 G	2417020.95	2417020.95	2417020.98	0.0138	0.0138
Jupiter	1914-05-03 04:04 G	2420255.17	2420255.67	2420256.19	0.0134	0.0010
Mars	1934-04-20 09:35 G	2427547.71	2427547.90	2427548.12	0.0134	0.0096
Mars	1936-03-20 10:33 G	2428247.66	2428247.94	2428248.23	0.0135	0.0028
Mercury	1936-10-06 11:31 G	2428447.95	2428447.98	2428448.01	0.0135	0.0130
Mercury	1937-01-02 14:38 G	2428536.04	2428536.11	2428536.19	0.0135	0.0113
Mercury	1937-03-31 17:45 G	2428624.16	2428624.24	2428624.34	0.0135	0.0095
Mercury	1937-06-27 21:07 G	2428712.27	2428712.38	2428712.49	0.0135	0.0077
Mercury	1937-09-24 00:14 G	2428800.40	2428800.51	2428800.64	0.0135	0.0060
Mercury	1937-12-21 03:21 G	2428888.52	2428888.64	2428888.77	0.0135	0.0043
Mercury	1938-03-19 06:43 G	2428976.65	2428976.78	2428976.91	0.0135	0.0024
Mercury	1938-06-15 09:50 G	2429064.78	2429064.91	2429065.04	0.0135	0.0007
Mercury	1938-09-11 12:57 G	2429152.91	2429153.04	2429153.18	0.0135	0.0011
Mercury	1938-12-08 16:04 G	2429241.04	2429241.17	2429241.30	0.0136	0.0029

Mercury	1939-03-06 19:11 G	2429329.18	2429329.30	2429329.43	0.0136	0.0046
Mercury	1939-06-02 22:19 G	2429417.32	2429417.43	2429417.55	0.0136	0.0064
Mercury	1939-08-30 01:26 G	2429505.46	2429505.56	2429505.67	0.0136	0.0082
Mercury	1939-11-26 04:33 G	2429593.61	2429593.69	2429593.79	0.0136	0.0099
Mercury	1940-02-22 07:40 G	2429681.76	2429681.82	2429681.89	0.0136	0.0117
Mercury	1940-05-20 10:48 G	2429769.94	2429769.95	2429769.97	0.0136	0.0134
Moon	1940-11-16 13:40 G	2429950.03	2429950.07	2429950.14	0.0136	0.0133
Earth	1941-11-21 00:28 G	2430319.39	2430319.52	2430319.68	0.0137	0.0110
Moon	1941-11-21 02:24 G	2430319.47	2430319.60	2430319.74	0.0137	0.0116 *
Moon	1942-11-25 09:21 G	2430688.69	2430688.89	2430689.10	0.0137	0.0074
Earth	1942-11-25 11:02 G	2430688.76	2430688.96	2430689.17	0.0137	0.0081 *
Earth	1943-11-29 21:50 G	2431058.18	2431058.41	2431058.65	0.0138	0.0050
Moon	1943-11-29 23:31 G	2431058.25	2431058.48	2431058.73	0.0138	0.0054 *
Moon	1944-12-03 06:43 G	2431427.55	2431427.78	2431428.03	0.0138	0.0020
Earth	1944-12-03 09:07 G	2431427.64	2431427.88	2431428.13	0.0138	0.0020 *
Venus	1945-01-23 04:19 G	2431478.53	2431478.68	2431478.85	0.0138	0.0093
Venus	1945-09-06 12:28 G	2431704.82	2431705.02	2431705.23	0.0139	0.0046
Earth	1945-12-07 20:52 G	2431797.12	2431797.37	2431797.62	0.0139	0.0012
Moon	1945-12-07 23:02 G	2431797.20	2431797.46	2431797.72	0.0139	0.0015 *
Venus	1946-04-20 20:38 G	2431931.15	2431931.36	2431931.58	0.0139	0.0003
Venus	1946-12-03 04:48 G	2432157.50	2432157.70	2432157.91	0.0139	0.0049
Moon	1946-12-12 06:28 G	2432166.55	2432166.77	2432167.02	0.0139	0.0039
Earth	1946-12-12 09:07 G	2432166.65	2432166.88	2432167.13	0.0139	0.0044 *
Venus	1947-07-17 12:57 G	2432383.90	2432384.04	2432384.21	0.0139	0.0097
Earth	1947-12-16 22:04 G	2432536.22	2432536.42	2432536.64	0.0140	0.0076
Moon	1947-12-17 01:11 G	2432536.34	2432536.55	2432536.75	0.0140	0.0083 *
Moon	1948-12-20 08:52 G	2432905.72	2432905.87	2432906.05	0.0140	0.0101
Earth	1948-12-20 11:45 G	2432905.84	2432905.99	2432906.16	0.0140	0.0108 *
Earth	1949-12-25 02:09 G	2433275.56	2433275.59	2433275.63	0.0141	0.0139
Mars	1974-10-30 10:33 G	2442350.75	2442350.94	2442351.18	0.0144	0.0108

Mars	1976-10-04 23:45 G	2443056.21	2443056.49	2443056.78	0.0144	0.0066
Mercury	1977-04-30 13:11 G	2443264.04	2443264.05	2443264.10	0.0144	0.0142
Mercury	1977-07-27 21:35 G	2443352.28	2443352.40	2443352.51	0.0143	0.0112
Mercury	1977-10-24 05:16 G	2443440.57	2443440.72	2443440.88	0.0143	0.0083
Mercury	1978-01-20 13:11 G	2443528.88	2443529.05	2443529.24	0.0143	0.0053
Mercury	1978-04-18 21:21 G	2443617.21	2443617.39	2443617.58	0.0143	0.0023
Mercury	1978-07-16 05:31 G	2443705.54	2443705.73	2443705.92	0.0143	0.0007
Mercury	1978-10-12 13:26 G	2443793.88	2443794.06	2443794.25	0.0143	0.0037
Mercury	1979-01-08 21:21 G	2443882.23	2443882.39	2443882.57	0.0143	0.0067
Mercury	1979-04-07 05:31 G	2443970.60	2443970.73	2443970.88	0.0143	0.0097
Mercury	1979-07-04 13:40 G	2444059.00	2444059.07	2444059.17	0.0143	0.0127
Moon	1981-05-19 03:35 G	2444743.52	2444743.65	2444743.81	0.0142	0.0114
Earth	1981-05-19 03:35 G	2444743.54	2444743.65	2444743.81	0.0142	0.0121 *
Earth	1982-05-24 02:24 G	2445113.40	2445113.60	2445113.81	0.0141	0.0086
Moon	1982-05-24 03:07 G	2445113.44	2445113.63	2445113.85	0.0141	0.0089 *
Moon	1983-05-28 22:33 G	2445483.23	2445483.44	2445483.69	0.0141	0.0054
Earth	1983-05-29 00:14 G	2445483.28	2445483.51	2445483.76	0.0141	0.0053 *
Venus	1984-02-14 14:38 G	2445745.03	2445745.11	2445745.21	0.0140	0.0127
Earth	1984-06-01 21:50 G	2445853.16	2445853.41	2445853.67	0.0140	0.0018
Moon	1984-06-01 23:31 G	2445853.22	2445853.48	2445853.75	0.0140	0.0014 *
Venus	1984-09-28 00:14 G	2445971.34	2445971.51	2445971.70	0.0140	0.0078
Venus	1985-05-12 09:50 G	2446197.70	2446197.91	2446198.13	0.0140	0.0029
Moon	1985-06-06 15:50 G	2446222.92	2446223.16	2446223.42	0.0140	0.0009
Earth	1985-06-06 18:28 G	2446223.02	2446223.27	2446223.53	0.0140	0.0016 *
Venus	1985-12-24 19:11 G	2446424.08	2446424.30	2446424.52	0.0139	0.0019
Earth	1986-06-11 14:09 G	2446592.86	2446593.09	2446593.34	0.0139	0.0049
Moon	1986-06-11 17:02 G	2446592.97	2446593.21	2446593.46	0.0139	0.0056 *
Venus	1986-08-08 04:19 G	2446650.49	2446650.68	2446650.87	0.0139	0.0067
Venus	1987-03-22 13:11 G	2446876.94	2446877.05	2446877.18	0.0139	0.0115
Moon	1987-06-16 06:28 G	2446962.56	2446962.77	2446962.98	0.0139	0.0076

Earth	1987-06-16 09:07 G	2446962.69	2446962.88	2446963.11	0.0139	0.0081	*
Earth	1988-06-20 03:21 G	2447332.52	2447332.64	2447332.82	0.0138	0.0113	
Moon	1988-06-20 07:11 G	2447332.67	2447332.80	2447332.96	0.0138	0.0113	*

3RD MILLENNIUM CE

This is a list of transits visible from Uranus in the 3rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	2018-12-13 20:09 G		2458466.08	2458466.34	2458466.62	0.0134	0.0050	
Mercury	2020-10-26 18:57 G		2459149.24	2459149.29	2459149.34	0.0135	0.0125	
Mars	2020-11-12 23:16 G		2459166.23	2459166.47	2459166.72	0.0135	0.0076	
Mercury	2021-01-22 22:04 G		2459237.34	2459237.42	2459237.50	0.0135	0.0108	
Mercury	2021-04-21 01:11 G		2459325.46	2459325.55	2459325.66	0.0135	0.0090	
Mercury	2021-07-18 04:33 G		2459413.58	2459413.69	2459413.80	0.0135	0.0072	
Mercury	2021-10-14 07:40 G		2459501.70	2459501.82	2459501.94	0.0135	0.0055	
Mercury	2022-01-10 10:48 G		2459589.83	2459589.95	2459590.08	0.0135	0.0037	
Mercury	2022-04-08 13:55 G		2459677.95	2459678.08	2459678.22	0.0135	0.0020	
Mercury	2022-07-05 17:16 G		2459766.08	2459766.22	2459766.35	0.0135	0.0003	
Mercury	2022-10-01 20:24 G		2459854.22	2459854.35	2459854.48	0.0135	0.0016	
Mercury	2022-12-28 23:31 G		2459942.35	2459942.48	2459942.61	0.0136	0.0033	
Mercury	2023-03-27 02:38 G		2460030.49	2460030.61	2460030.73	0.0136	0.0051	
Mercury	2023-06-23 05:45 G		2460118.63	2460118.74	2460118.86	0.0136	0.0069	
Mercury	2023-09-19 08:52 G		2460206.77	2460206.87	2460206.97	0.0136	0.0086	
Mercury	2023-12-16 12:00 G		2460294.92	2460295.00	2460295.09	0.0136	0.0104	

Mercury	2024-03-13 15:07 G	2460383.08	2460383.13	2460383.19	0.0136	0.0121
Earth	2024-11-17 02:09 G	2460631.56	2460631.59	2460631.65	0.0136	0.0133
Earth	2025-11-21 12:00 G	2461000.85	2461001.00	2461001.17	0.0137	0.0105
Moon	2025-11-21 12:57 G	2461000.86	2461001.04	2461001.23	0.0137	0.0097 *
Moon	2026-11-25 21:07 G	2461370.20	2461370.38	2461370.59	0.0137	0.0081
Earth	2026-11-25 22:04 G	2461370.23	2461370.42	2461370.65	0.0137	0.0076 *
Earth	2027-11-30 09:07 G	2461739.64	2461739.88	2461740.12	0.0138	0.0045
Moon	2027-11-30 10:33 G	2461739.70	2461739.94	2461740.20	0.0138	0.0042 *
Venus	2028-09-22 13:26 G	2462036.95	2462037.06	2462037.19	0.0138	0.0113
Moon	2028-12-03 18:57 G	2462109.05	2462109.29	2462109.53	0.0138	0.0016
Earth	2028-12-03 20:09 G	2462109.09	2462109.34	2462109.59	0.0138	0.0014 *
Venus	2029-05-06 21:07 G	2462263.21	2462263.38	2462263.59	0.0138	0.0068
Earth	2029-12-08 07:55 G	2462478.58	2462478.83	2462479.08	0.0139	0.0017
Moon	2029-12-08 10:04 G	2462478.66	2462478.92	2462479.18	0.0139	0.0014 *
Venus	2029-12-19 05:16 G	2462489.51	2462489.72	2462489.94	0.0139	0.0020
Venus	2030-08-02 13:26 G	2462715.85	2462716.06	2462716.27	0.0139	0.0027
Moon	2030-12-12 18:14 G	2462848.05	2462848.26	2462848.49	0.0139	0.0055
Earth	2030-12-12 20:09 G	2462848.11	2462848.34	2462848.58	0.0139	0.0049 *
Venus	2031-03-16 21:35 G	2462942.22	2462942.40	2462942.59	0.0139	0.0075
Venus	2031-10-29 05:45 G	2463168.66	2463168.74	2463168.86	0.0140	0.0123
Earth	2031-12-17 08:52 G	2463217.68	2463217.87	2463218.09	0.0140	0.0081
Moon	2031-12-17 11:16 G	2463217.76	2463217.97	2463218.20	0.0140	0.0074 *
Moon	2032-12-20 20:09 G	2463587.22	2463587.34	2463587.47	0.0140	0.0120
Earth	2032-12-20 22:33 G	2463587.31	2463587.44	2463587.60	0.0140	0.0113 *
Moon	2033-12-25 15:21 G	2463957.12	2463957.14	2463957.20	0.0141	0.0139
Mars	2059-06-26 16:48 G	2473270.91	2473271.20	2473271.53	0.0144	0.0043
Mercury	2061-05-20 21:21 G	2473965.32	2473965.39	2473965.46	0.0144	0.0133
Mars	2061-06-01 02:09 G	2473976.46	2473976.59	2473976.73	0.0144	0.0129
Mercury	2061-08-17 05:02 G	2474053.59	2474053.71	2474053.85	0.0143	0.0104
Mercury	2061-11-13 12:57 G	2474141.89	2474142.04	2474142.21	0.0143	0.0075

Mercury	2062-02-09 21:07 G	2474230.20	2474230.38	2474230.56	0.0143	0.0045
Mercury	2062-05-09 05:16 G	2474318.53	2474318.72	2474318.91	0.0143	0.0015
Mercury	2062-08-05 13:11 G	2474406.86	2474407.05	2474407.24	0.0143	0.0015
Mercury	2062-11-01 21:21 G	2474495.21	2474495.39	2474495.57	0.0143	0.0045
Mercury	2063-01-29 05:16 G	2474583.57	2474583.72	2474583.89	0.0143	0.0075
Mercury	2063-04-27 13:26 G	2474671.94	2474672.06	2474672.20	0.0143	0.0105
Mercury	2063-07-24 21:35 G	2474760.35	2474760.40	2474760.47	0.0143	0.0135
Moon	2064-05-14 15:21 G	2475055.11	2475055.14	2475055.19	0.0142	0.0140
Earth	2065-05-19 16:04 G	2475425.02	2475425.17	2475425.32	0.0142	0.0114
Moon	2065-05-19 16:04 G	2475425.05	2475425.17	2475425.31	0.0142	0.0121 *
Earth	2066-05-24 14:24 G	2475794.90	2475795.10	2475795.32	0.0141	0.0081
Moon	2066-05-24 14:38 G	2475794.90	2475795.11	2475795.35	0.0141	0.0076 *
Moon	2067-05-29 11:45 G	2476164.76	2476164.99	2476165.23	0.0141	0.0047
Earth	2067-05-29 12:14 G	2476164.78	2476165.01	2476165.26	0.0141	0.0047 *
Venus	2068-05-28 08:52 G	2476529.74	2476529.87	2476530.04	0.0140	0.0101
Earth	2068-06-02 09:50 G	2476534.65	2476534.91	2476535.17	0.0140	0.0012
Moon	2068-06-02 11:31 G	2476534.72	2476534.98	2476535.25	0.0140	0.0017 *
Venus	2069-01-09 18:43 G	2476756.08	2476756.28	2476756.49	0.0140	0.0051
Moon	2069-06-07 04:48 G	2476904.46	2476904.70	2476904.95	0.0140	0.0028
Earth	2069-06-07 06:28 G	2476904.52	2476904.77	2476905.03	0.0140	0.0021 *
Venus	2069-08-24 04:04 G	2476982.46	2476982.67	2476982.89	0.0140	0.0003
Venus	2070-04-07 13:26 G	2477208.86	2477209.06	2477209.27	0.0139	0.0046
Earth	2070-06-12 01:55 G	2477274.36	2477274.58	2477274.83	0.0139	0.0055
Moon	2070-06-12 04:48 G	2477274.45	2477274.70	2477274.95	0.0139	0.0047 *
Venus	2070-11-19 22:19 G	2477435.28	2477435.43	2477435.60	0.0139	0.0094
Moon	2071-06-16 18:14 G	2477644.10	2477644.26	2477644.47	0.0139	0.0093
Earth	2071-06-16 21:21 G	2477644.19	2477644.39	2477644.60	0.0139	0.0086 *
Earth	2072-06-20 15:35 G	2478014.03	2478014.15	2478014.30	0.0138	0.0118
Moon	2072-06-20 18:57 G	2478014.15	2478014.29	2478014.43	0.0138	0.0116 *
Mars	2101-09-08 13:11 G	2488684.95	2488685.05	2488685.18	0.0134	0.0122

Mars	2103-08-09 09:50 G	2489384.62	2489384.91	2489385.21	0.0134	0.0001
Mercury	2104-11-17 02:38 G	2489850.55	2489850.61	2489850.67	0.0135	0.0119
Mercury	2105-02-13 05:31 G	2489938.65	2489938.73	2489938.83	0.0135	0.0102
Mercury	2105-05-12 08:52 G	2490026.77	2490026.87	2490026.98	0.0135	0.0084
Mars	2105-07-09 15:50 G	2490085.07	2490085.16	2490085.27	0.0135	0.0126
Mercury	2105-08-08 12:14 G	2490114.89	2490115.01	2490115.12	0.0135	0.0066
Mercury	2105-11-04 15:21 G	2490203.02	2490203.14	2490203.26	0.0135	0.0048
Mercury	2106-01-31 18:28 G	2490291.14	2490291.27	2490291.40	0.0135	0.0031
Mercury	2106-04-29 21:35 G	2490379.27	2490379.40	2490379.54	0.0135	0.0014
Mercury	2106-07-27 00:57 G	2490467.40	2490467.54	2490467.67	0.0135	0.0005
Mercury	2106-10-23 04:04 G	2490555.54	2490555.67	2490555.80	0.0135	0.0022
Mercury	2107-01-19 07:11 G	2490643.67	2490643.80	2490643.93	0.0136	0.0040
Mercury	2107-04-17 10:19 G	2490731.81	2490731.93	2490732.05	0.0136	0.0057
Mercury	2107-07-14 13:26 G	2490819.95	2490820.06	2490820.17	0.0136	0.0075
Mercury	2107-10-10 16:19 G	2490908.10	2490908.18	2490908.29	0.0136	0.0093
Mercury	2108-01-06 19:40 G	2490996.25	2490996.32	2490996.40	0.0136	0.0110
Mercury	2108-04-03 22:48 G	2491084.41	2491084.45	2491084.50	0.0136	0.0127
Moon	2108-11-18 15:21 G	2491313.05	2491313.14	2491313.26	0.0136	0.0123
Earth	2108-11-18 15:07 G	2491313.07	2491313.13	2491313.23	0.0136	0.0129 *
Earth	2109-11-23 01:11 G	2491682.39	2491682.55	2491682.73	0.0137	0.0099
Moon	2109-11-23 01:26 G	2491682.41	2491682.56	2491682.74	0.0137	0.0106 *
Moon	2110-11-27 10:48 G	2492051.74	2492051.95	2492052.17	0.0137	0.0063
Earth	2110-11-27 11:16 G	2492051.77	2492051.97	2492052.20	0.0137	0.0070 *
Earth	2111-12-01 21:50 G	2492421.18	2492421.41	2492421.66	0.0138	0.0040
Moon	2111-12-01 22:33 G	2492421.20	2492421.44	2492421.70	0.0138	0.0044 *
Venus	2112-05-23 23:31 G	2492595.44	2492595.48	2492595.55	0.0138	0.0133
Moon	2112-12-05 07:55 G	2492790.59	2492790.83	2492791.08	0.0138	0.0008
Earth	2112-12-05 09:21 G	2492790.64	2492790.89	2492791.14	0.0138	0.0008 *
Venus	2113-01-05 07:11 G	2492821.65	2492821.80	2492821.98	0.0138	0.0087
Venus	2113-08-19 15:21 G	2493047.94	2493048.14	2493048.35	0.0139	0.0040

Earth	2113-12-09 21:07 G	2493160.13	2493160.38	2493160.62	0.0139	0.0023
Moon	2113-12-09 22:04 G	2493160.17	2493160.42	2493160.68	0.0139	0.0025 *
Venus	2114-04-02 23:31 G	2493274.26	2493274.48	2493274.70	0.0139	0.0007
Venus	2114-11-15 07:40 G	2493500.62	2493500.82	2493501.02	0.0139	0.0054
Moon	2114-12-14 07:40 G	2493529.60	2493529.82	2493530.05	0.0139	0.0050
Earth	2114-12-14 09:07 G	2493529.66	2493529.88	2493530.12	0.0139	0.0055 *
Venus	2115-06-29 15:35 G	2493727.02	2493727.15	2493727.31	0.0139	0.0103
Earth	2115-12-18 22:04 G	2493899.24	2493899.42	2493899.63	0.0140	0.0087
Moon	2115-12-19 00:00 G	2493899.33	2493899.50	2493899.71	0.0140	0.0094 *
Moon	2116-12-22 10:04 G	2494268.78	2494268.92	2494269.07	0.0140	0.0112
Earth	2116-12-22 11:45 G	2494268.87	2494268.99	2494269.14	0.0140	0.0118 *
Mars	2144-02-22 03:21 G	2504191.33	2504191.64	2504191.97	0.0144	0.0026
Mercury	2145-06-11 05:31 G	2504666.64	2504666.73	2504666.84	0.0144	0.0123
Mercury	2145-09-07 13:40 G	2504754.93	2504755.07	2504755.21	0.0143	0.0093
Mercury	2145-12-04 21:35 G	2504843.23	2504843.40	2504843.57	0.0143	0.0063
Mercury	2146-03-03 05:31 G	2504931.55	2504931.73	2504931.92	0.0143	0.0034
Mercury	2146-05-30 13:40 G	2505019.88	2505020.07	2505020.26	0.0143	0.0004
Mercury	2146-08-26 21:35 G	2505108.22	2505108.40	2505108.59	0.0143	0.0026
Mercury	2146-11-23 05:45 G	2505196.57	2505196.74	2505196.92	0.0143	0.0056
Mercury	2147-02-19 13:40 G	2505284.93	2505285.07	2505285.23	0.0143	0.0086
Mercury	2147-05-18 21:50 G	2505373.31	2505373.41	2505373.53	0.0143	0.0116
Earth	2148-05-16 06:14 G	2505736.76	2505736.76	2505736.78	0.0142	0.0142
Earth	2149-05-21 05:02 G	2506106.57	2506106.71	2506106.90	0.0142	0.0109
Moon	2149-05-21 06:14 G	2506106.60	2506106.76	2506106.95	0.0142	0.0102 *
Moon	2150-05-26 03:21 G	2506476.43	2506476.64	2506476.87	0.0141	0.0078
Earth	2150-05-26 03:35 G	2506476.45	2506476.65	2506476.88	0.0141	0.0075 *
Moon	2151-05-31 01:11 G	2506846.32	2506846.55	2506846.80	0.0141	0.0041
Earth	2151-05-31 01:55 G	2506846.33	2506846.58	2506846.83	0.0141	0.0040 *
Venus	2152-01-27 18:28 G	2507088.18	2507088.27	2507088.40	0.0140	0.0122
Earth	2152-06-03 23:16 G	2507216.21	2507216.47	2507216.72	0.0140	0.0007

Moon	2152-06-03 23:45 G	2507216.22	2507216.49	2507216.76	0.0140	0.0003	*
Venus	2152-09-10 04:19 G	2507314.50	2507314.68	2507314.88	0.0140	0.0072	
Venus	2153-04-24 13:55 G	2507540.87	2507541.08	2507541.30	0.0140	0.0023	
Moon	2153-06-08 18:00 G	2507586.00	2507586.25	2507586.50	0.0140	0.0021	
Earth	2153-06-08 19:26 G	2507586.07	2507586.31	2507586.57	0.0140	0.0028	*
Venus	2153-12-06 23:16 G	2507767.25	2507767.47	2507767.68	0.0140	0.0026	
Earth	2154-06-13 15:07 G	2507955.91	2507956.13	2507956.37	0.0139	0.0060	
Moon	2154-06-13 17:02 G	2507955.98	2507956.21	2507956.45	0.0139	0.0068	*
Venus	2154-07-21 07:55 G	2507993.66	2507993.83	2507994.03	0.0139	0.0075	
Venus	2155-03-04 17:16 G	2508220.11	2508220.22	2508220.32	0.0139	0.0121	
Moon	2155-06-18 07:40 G	2508325.64	2508325.82	2508326.03	0.0139	0.0088	
Earth	2155-06-18 10:04 G	2508325.74	2508325.92	2508326.13	0.0139	0.0093	*
Earth	2156-06-22 04:19 G	2508695.58	2508695.68	2508695.81	0.0138	0.0124	
Moon	2156-06-22 07:11 G	2508695.71	2508695.80	2508695.93	0.0138	0.0126	*
Mars	2186-05-03 23:16 G	2519603.25	2519603.47	2519603.73	0.0134	0.0075	
Mars	2188-04-02 22:48 G	2520303.18	2520303.45	2520303.73	0.0135	0.0049	
Mercury	2188-09-10 06:57 G	2520463.76	2520463.79	2520463.82	0.0135	0.0131	
Mercury	2188-12-07 09:50 G	2520551.85	2520551.91	2520551.99	0.0135	0.0114	
Mercury	2189-03-05 13:11 G	2520639.96	2520640.05	2520640.15	0.0135	0.0096	
Mercury	2189-06-01 16:33 G	2520728.08	2520728.19	2520728.30	0.0135	0.0078	
Mercury	2189-08-28 19:40 G	2520816.20	2520816.32	2520816.44	0.0135	0.0060	
Mercury	2189-11-24 22:48 G	2520904.33	2520904.45	2520904.58	0.0135	0.0043	
Mercury	2190-02-21 02:09 G	2520992.46	2520992.59	2520992.72	0.0135	0.0025	
Mercury	2190-05-20 05:16 G	2521080.59	2521080.72	2521080.85	0.0135	0.0008	
Mercury	2190-08-16 08:24 G	2521168.72	2521168.85	2521168.98	0.0135	0.0010	
Mercury	2190-11-12 11:31 G	2521256.85	2521256.98	2521257.11	0.0135	0.0028	
Mercury	2191-02-08 14:38 G	2521344.99	2521345.11	2521345.24	0.0136	0.0045	
Mercury	2191-05-07 17:45 G	2521433.13	2521433.24	2521433.36	0.0136	0.0063	
Mercury	2191-08-03 20:52 G	2521521.27	2521521.37	2521521.48	0.0136	0.0080	
Mercury	2191-10-31 00:00 G	2521609.41	2521609.50	2521609.60	0.0136	0.0098	

Mercury	2192-01-27 03:07 G	2521697.57	2521697.63	2521697.70	0.0136	0.0115
Mercury	2192-04-24 06:00 G	2521785.74	2521785.75	2521785.79	0.0136	0.0134
Earth	2192-11-19 03:07 G	2521994.55	2521994.63	2521994.76	0.0136	0.0124
Moon	2192-11-19 03:21 G	2521994.59	2521994.64	2521994.74	0.0136	0.0130 *
Moon	2193-11-23 12:43 G	2522363.85	2522364.03	2522364.25	0.0137	0.0087
Earth	2193-11-23 13:11 G	2522363.88	2522364.05	2522364.24	0.0137	0.0094 *
Earth	2194-11-27 23:02 G	2522733.25	2522733.46	2522733.70	0.0137	0.0065
Moon	2194-11-27 23:16 G	2522733.27	2522733.47	2522733.69	0.0137	0.0071 *
Earth	2195-12-02 09:50 G	2523102.67	2523102.91	2523103.16	0.0138	0.0034
Moon	2195-12-02 10:19 G	2523102.68	2523102.93	2523103.19	0.0138	0.0030 *
Venus	2196-09-04 17:02 G	2523380.08	2523380.21	2523380.35	0.0138	0.0108
Moon	2196-12-05 20:52 G	2523472.12	2523472.37	2523472.61	0.0138	0.0006
Earth	2196-12-05 20:52 G	2523472.12	2523472.37	2523472.62	0.0138	0.0003 *
Venus	2197-04-19 00:43 G	2523606.34	2523606.53	2523606.73	0.0138	0.0061
Venus	2197-12-01 08:38 G	2523832.65	2523832.86	2523833.08	0.0139	0.0015
Earth	2197-12-10 08:24 G	2523841.62	2523841.85	2523842.11	0.0139	0.0029
Moon	2197-12-10 09:35 G	2523841.65	2523841.90	2523842.16	0.0139	0.0026 *
Venus	2198-07-15 16:33 G	2524058.99	2524059.19	2524059.41	0.0139	0.0033
Moon	2198-12-14 19:55 G	2524211.13	2524211.33	2524211.56	0.0139	0.0065
Earth	2198-12-14 20:52 G	2524211.15	2524211.37	2524211.61	0.0139	0.0060 *
Venus	2199-02-27 00:43 G	2524285.36	2524285.53	2524285.72	0.0139	0.0081
Venus	2199-10-11 09:07 G	2524511.81	2524511.88	2524511.98	0.0140	0.0129
Earth	2199-12-19 09:50 G	2524580.73	2524580.91	2524581.11	0.0140	0.0092
Moon	2199-12-19 11:16 G	2524580.77	2524580.97	2524581.17	0.0140	0.0085 *
Moon	2200-12-23 21:35 G	2524950.34	2524950.40	2524950.50	0.0140	0.0131
Earth	2200-12-23 23:31 G	2524950.38	2524950.48	2524950.61	0.0140	0.0123 *
Mars	2226-11-13 20:38 G	2534406.11	2534406.36	2534406.65	0.0145	0.0080
Mars	2228-10-19 12:28 G	2535111.79	2535112.02	2535112.28	0.0144	0.0094
Mercury	2229-04-05 06:00 G	2535279.73	2535279.75	2535279.80	0.0144	0.0141
Mercury	2229-07-02 14:24 G	2535367.98	2535368.10	2535368.22	0.0144	0.0111

Mercury	2229-09-28 22:04 G	2535456.27	2535456.42	2535456.58	0.0143	0.0082
Mercury	2229-12-26 06:14 G	2535544.58	2535544.76	2535544.94	0.0143	0.0052
Mercury	2230-03-24 14:09 G	2535632.91	2535633.09	2535633.28	0.0143	0.0022
Mercury	2230-06-20 22:19 G	2535721.24	2535721.43	2535721.62	0.0143	0.0008
Mercury	2230-09-17 06:14 G	2535809.58	2535809.76	2535809.95	0.0143	0.0038
Mercury	2230-12-14 14:09 G	2535897.94	2535898.09	2535898.27	0.0143	0.0068
Mercury	2231-03-12 22:19 G	2535986.30	2535986.43	2535986.58	0.0143	0.0098
Mercury	2231-06-09 06:28 G	2536074.70	2536074.77	2536074.87	0.0143	0.0128
Moon	2232-05-17 18:28 G	2536418.18	2536418.27	2536418.40	0.0142	0.0129
Earth	2232-05-17 20:52 G	2536418.31	2536418.37	2536418.45	0.0142	0.0137 *
Earth	2233-05-22 20:09 G	2536788.16	2536788.34	2536788.52	0.0142	0.0102
Moon	2233-05-22 21:21 G	2536788.24	2536788.39	2536788.56	0.0142	0.0109 *
Moon	2234-05-27 17:45 G	2537158.01	2537158.24	2537158.49	0.0141	0.0064
Earth	2234-05-27 18:28 G	2537158.06	2537158.27	2537158.51	0.0141	0.0068 *
Earth	2235-06-01 16:19 G	2537527.94	2537528.18	2537528.44	0.0141	0.0034
Moon	2235-06-01 17:02 G	2537527.97	2537528.21	2537528.45	0.0141	0.0035 *
Venus	2236-05-11 14:52 G	2537872.96	2537873.12	2537873.29	0.0140	0.0092
Earth	2236-06-05 13:40 G	2537897.82	2537898.07	2537898.33	0.0140	0.0002
Moon	2236-06-05 14:24 G	2537897.84	2537898.10	2537898.37	0.0140	0.0004 *
Venus	2236-12-24 00:28 G	2538099.31	2538099.52	2538099.73	0.0140	0.0042
Moon	2237-06-10 09:35 G	2538267.66	2538267.90	2538268.14	0.0140	0.0040
Earth	2237-06-10 10:04 G	2538267.68	2538267.92	2538268.18	0.0140	0.0034 *
Venus	2237-08-07 09:50 G	2538325.69	2538325.91	2538326.13	0.0140	0.0007
Venus	2238-03-21 18:57 G	2538552.09	2538552.29	2538552.49	0.0139	0.0055
Earth	2238-06-15 05:45 G	2538637.52	2538637.74	2538637.97	0.0139	0.0067
Moon	2238-06-15 07:11 G	2538637.57	2538637.80	2538638.05	0.0139	0.0060 *
Venus	2238-11-03 03:50 G	2538778.52	2538778.66	2538778.81	0.0139	0.0103
Moon	2239-06-19 22:48 G	2539007.30	2539007.45	2539007.63	0.0139	0.0105
Earth	2239-06-20 00:28 G	2539007.36	2539007.52	2539007.72	0.0139	0.0099 *
Earth	2240-06-23 18:57 G	2539377.22	2539377.29	2539377.39	0.0138	0.0130

Moon	2240-06-23 20:52 G	2539377.29	2539377.37	2539377.50	0.0138	0.0128	*
Mars	2270-12-28 12:14 G	2550521.73	2550522.01	2550522.31	0.0134	0.0025	
Mercury	2272-10-01 14:24 G	2551165.06	2551165.10	2551165.16	0.0135	0.0125	
Mars	2272-11-27 15:35 G	2551221.98	2551222.15	2551222.37	0.0135	0.0100	
Mercury	2272-12-28 17:45 G	2551253.16	2551253.24	2551253.32	0.0135	0.0107	
Mercury	2273-03-26 20:52 G	2551341.28	2551341.37	2551341.48	0.0135	0.0089	
Mercury	2273-06-23 00:00 G	2551429.40	2551429.50	2551429.62	0.0135	0.0072	
Mercury	2273-09-19 03:21 G	2551517.52	2551517.64	2551517.77	0.0135	0.0054	
Mercury	2273-12-16 06:43 G	2551605.65	2551605.78	2551605.91	0.0135	0.0036	
Mercury	2274-03-14 09:50 G	2551693.78	2551693.91	2551694.04	0.0135	0.0019	
Mercury	2274-06-10 12:57 G	2551781.91	2551782.04	2551782.17	0.0135	0.0001	
Mercury	2274-09-06 16:04 G	2551870.04	2551870.17	2551870.30	0.0135	0.0017	
Mercury	2274-12-03 19:11 G	2551958.17	2551958.30	2551958.43	0.0135	0.0034	
Mercury	2275-03-01 22:19 G	2552046.31	2552046.43	2552046.56	0.0136	0.0052	
Mercury	2275-05-29 01:26 G	2552134.45	2552134.56	2552134.68	0.0136	0.0069	
Mercury	2275-08-25 04:33 G	2552222.59	2552222.69	2552222.79	0.0136	0.0087	
Mercury	2275-11-21 07:40 G	2552310.74	2552310.82	2552310.91	0.0136	0.0104	
Mercury	2276-02-17 10:33 G	2552398.90	2552398.94	2552399.01	0.0136	0.0122	
Earth	2276-11-20 16:19 G	2552676.08	2552676.18	2552676.32	0.0136	0.0119	
Moon	2276-11-20 17:16 G	2552676.11	2552676.22	2552676.38	0.0136	0.0114	*
Moon	2277-11-25 01:26 G	2553045.38	2553045.56	2553045.75	0.0137	0.0095	
Earth	2277-11-25 02:09 G	2553045.41	2553045.59	2553045.79	0.0137	0.0089	*
Earth	2278-11-29 12:14 G	2553414.79	2553415.01	2553415.24	0.0137	0.0059	
Moon	2278-11-29 12:43 G	2553414.81	2553415.03	2553415.26	0.0137	0.0053	*
Moon	2279-12-03 22:04 G	2553784.17	2553784.42	2553784.68	0.0138	0.0034	
Earth	2279-12-03 22:48 G	2553784.21	2553784.45	2553784.70	0.0138	0.0029	*
Venus	2280-05-06 02:52 G	2553938.55	2553938.62	2553938.72	0.0138	0.0127	
Moon	2280-12-07 09:50 G	2554153.66	2554153.91	2554154.15	0.0138	0.0005	
Earth	2280-12-07 09:50 G	2554153.66	2554153.91	2554154.16	0.0138	0.0003	*
Venus	2280-12-18 10:33 G	2554164.78	2554164.94	2554165.13	0.0138	0.0081	

Venus	2281-08-01 18:28 G	2554391.07	2554391.27	2554391.49	0.0139	0.0035
Moon	2281-12-11 21:21 G	2554523.15	2554523.39	2554523.65	0.0139	0.0035
Earth	2281-12-11 21:35 G	2554523.16	2554523.40	2554523.65	0.0139	0.0034 *
Venus	2282-03-16 02:38 G	2554617.39	2554617.61	2554617.83	0.0139	0.0013
Venus	2282-10-28 10:48 G	2554843.76	2554843.95	2554844.15	0.0139	0.0060
Moon	2282-12-16 09:21 G	2554892.68	2554892.89	2554893.11	0.0139	0.0061
Earth	2282-12-16 09:50 G	2554892.70	2554892.91	2554893.14	0.0139	0.0065 *
Venus	2283-06-11 18:43 G	2555070.16	2555070.28	2555070.44	0.0139	0.0109
Earth	2283-12-20 22:48 G	2555262.28	2555262.45	2555262.64	0.0140	0.0097
Moon	2283-12-20 23:31 G	2555262.33	2555262.48	2555262.67	0.0140	0.0104 *
Moon	2284-12-24 11:45 G	2555631.89	2555631.99	2555632.12	0.0140	0.0123
Earth	2284-12-24 12:28 G	2555631.94	2555632.02	2555632.13	0.0140	0.0129 *
Mars	2311-07-12 09:21 G	2565326.57	2565326.89	2565327.21	0.0144	0.0009
Mercury	2313-04-26 14:52 G	2565981.04	2565981.12	2565981.20	0.0144	0.0129
Mercury	2313-07-23 22:33 G	2566069.32	2566069.44	2566069.59	0.0144	0.0100
Mercury	2313-10-20 06:28 G	2566157.62	2566157.77	2566157.95	0.0143	0.0071
Mercury	2314-01-16 14:38 G	2566245.94	2566246.11	2566246.30	0.0143	0.0041
Mercury	2314-04-14 22:48 G	2566334.26	2566334.45	2566334.64	0.0143	0.0011
Mercury	2314-07-12 06:57 G	2566422.60	2566422.79	2566422.97	0.0143	0.0020
Mercury	2314-10-08 14:52 G	2566510.94	2566511.12	2566511.30	0.0143	0.0049
Mercury	2315-01-04 23:02 G	2566599.30	2566599.46	2566599.62	0.0143	0.0079
Mercury	2315-04-03 07:11 G	2566687.68	2566687.80	2566687.92	0.0143	0.0109
Mercury	2315-06-30 15:21 G	2566776.10	2566776.14	2566776.18	0.0143	0.0139
Moon	2316-05-19 08:38 G	2567099.81	2567099.86	2567099.94	0.0142	0.0138
Earth	2316-05-19 10:48 G	2567099.88	2567099.95	2567100.07	0.0142	0.0132 *
Earth	2317-05-24 10:19 G	2567469.75	2567469.93	2567470.12	0.0142	0.0097
Moon	2317-05-24 12:00 G	2567469.82	2567470.00	2567470.21	0.0142	0.0090 *
Moon	2318-05-29 06:57 G	2567839.57	2567839.79	2567840.04	0.0141	0.0068
Earth	2318-05-29 08:38 G	2567839.64	2567839.86	2567840.10	0.0141	0.0063 *
Earth	2319-06-03 06:43 G	2568209.53	2568209.78	2568210.03	0.0141	0.0028

Moon	2319-06-03 07:11 G	2568209.56	2568209.80	2568210.05	0.0141	0.0028 *
Venus	2320-01-11 00:43 G	2568431.41	2568431.53	2568431.68	0.0141	0.0112
Moon	2320-06-07 03:21 G	2568579.38	2568579.64	2568579.91	0.0140	0.0009
Earth	2320-06-07 04:04 G	2568579.41	2568579.67	2568579.92	0.0140	0.0006 *
Venus	2320-08-24 10:19 G	2568657.75	2568657.93	2568658.14	0.0140	0.0063
Venus	2321-04-07 20:09 G	2568884.13	2568884.34	2568884.56	0.0140	0.0013
Moon	2321-06-11 23:31 G	2568949.24	2568949.48	2568949.73	0.0140	0.0034
Earth	2321-06-12 00:00 G	2568949.27	2568949.50	2568949.76	0.0140	0.0040 *
Venus	2321-11-20 05:16 G	2569110.52	2569110.72	2569110.94	0.0140	0.0036
Earth	2322-06-16 19:40 G	2569319.12	2569319.32	2569319.56	0.0139	0.0073
Moon	2322-06-16 20:38 G	2569319.15	2569319.36	2569319.59	0.0139	0.0080 *
Venus	2322-07-04 14:24 G	2569336.93	2569337.10	2569337.28	0.0139	0.0084
Venus	2323-02-15 23:16 G	2569563.41	2569563.47	2569563.55	0.0139	0.0131
Moon	2323-06-21 13:40 G	2569688.90	2569689.07	2569689.25	0.0139	0.0099
Earth	2323-06-21 14:38 G	2569688.97	2569689.11	2569689.30	0.0139	0.0105 *
Earth	2324-06-25 09:07 G	2570058.85	2570058.88	2570058.95	0.0138	0.0136
Moon	2324-06-25 11:31 G	2570058.96	2570058.98	2570059.01	0.0138	0.0138
Mars	2353-09-23 06:00 G	2580740.57	2580740.75	2580740.97	0.0134	0.0097
Mars	2355-08-24 02:38 G	2581440.33	2581440.61	2581440.91	0.0134	0.0025
Mercury	2356-10-22 21:50 G	2581866.36	2581866.41	2581866.49	0.0135	0.0119
Mercury	2357-01-19 01:11 G	2581954.47	2581954.55	2581954.65	0.0135	0.0101
Mercury	2357-04-17 04:33 G	2582042.59	2582042.69	2582042.80	0.0135	0.0083
Mercury	2357-07-14 07:40 G	2582130.71	2582130.82	2582130.94	0.0135	0.0066
Mercury	2357-10-10 11:02 G	2582218.83	2582218.96	2582219.08	0.0135	0.0048
Mercury	2358-01-06 14:09 G	2582306.96	2582307.09	2582307.22	0.0135	0.0030
Mercury	2358-04-04 17:16 G	2582395.09	2582395.22	2582395.36	0.0135	0.0013
Mercury	2358-07-01 20:24 G	2582483.22	2582483.35	2582483.49	0.0135	0.0007
Mercury	2358-09-27 23:45 G	2582571.35	2582571.49	2582571.62	0.0135	0.0023
Mercury	2358-12-25 02:38 G	2582659.49	2582659.61	2582659.74	0.0135	0.0040
Mercury	2359-03-23 05:45 G	2582747.63	2582747.74	2582747.87	0.0135	0.0058

Mercury	2359-06-19 08:52 G	2582835.77	2582835.87	2582835.99	0.0136	0.0075
Mercury	2359-09-15 12:00 G	2582923.91	2582924.00	2582924.10	0.0136	0.0092
Mercury	2359-12-12 15:07 G	2583012.06	2583012.13	2583012.21	0.0136	0.0110
Mercury	2360-03-09 18:14 G	2583100.22	2583100.26	2583100.31	0.0136	0.0127
Earth	2360-11-22 04:48 G	2583357.56	2583357.70	2583357.83	0.0136	0.0114
Moon	2360-11-22 05:31 G	2583357.64	2583357.73	2583357.87	0.0136	0.0120 *
Moon	2361-11-26 12:28 G	2583726.82	2583727.02	2583727.25	0.0137	0.0078
Earth	2361-11-26 13:55 G	2583726.89	2583727.08	2583727.29	0.0137	0.0085 *
Earth	2362-11-30 23:31 G	2584096.27	2584096.48	2584096.73	0.0137	0.0056
Moon	2362-12-01 01:11 G	2584096.33	2584096.55	2584096.77	0.0137	0.0061 *
Moon	2363-12-05 09:35 G	2584465.65	2584465.90	2584466.16	0.0138	0.0019
Earth	2363-12-05 10:19 G	2584465.69	2584465.93	2584466.18	0.0138	0.0024 *
Venus	2364-08-18 19:55 G	2584723.19	2584723.33	2584723.48	0.0138	0.0101
Earth	2364-12-08 21:21 G	2584835.14	2584835.39	2584835.64	0.0138	0.0007
Moon	2364-12-08 22:19 G	2584835.19	2584835.43	2584835.67	0.0138	0.0004 *
Venus	2365-04-02 03:35 G	2584949.46	2584949.65	2584949.86	0.0138	0.0055
Venus	2365-11-14 11:45 G	2585175.77	2585175.99	2585176.21	0.0139	0.0008
Moon	2365-12-13 08:24 G	2585204.61	2585204.85	2585205.11	0.0139	0.0038
Earth	2365-12-13 08:38 G	2585204.63	2585204.86	2585205.11	0.0139	0.0039 *
Venus	2366-06-28 19:40 G	2585402.11	2585402.32	2585402.53	0.0139	0.0039
Earth	2366-12-17 20:52 G	2585574.17	2585574.37	2585574.60	0.0139	0.0070
Moon	2366-12-17 21:21 G	2585574.19	2585574.39	2585574.60	0.0139	0.0074 *
Venus	2367-02-10 03:35 G	2585628.50	2585628.65	2585628.83	0.0139	0.0087
Venus	2367-09-24 12:14 G	2585854.96	2585855.01	2585855.07	0.0139	0.0135
Moon	2367-12-22 09:50 G	2585943.74	2585943.91	2585944.11	0.0140	0.0096
Earth	2367-12-22 10:04 G	2585943.76	2585943.92	2585944.10	0.0140	0.0102 *
Earth	2368-12-25 23:45 G	2586313.43	2586313.49	2586313.58	0.0140	0.0133
Mars	2394-04-01 16:19 G	2595541.00	2595541.18	2595541.38	0.0145	0.0118
Mars	2396-03-07 15:07 G	2596246.84	2596247.13	2596247.44	0.0144	0.0057
Mercury	2397-05-16 22:48 G	2596682.35	2596682.45	2596682.55	0.0144	0.0120

Mercury	2397-08-13 06:28 G	2596770.63	2596770.77	2596770.92	0.0144	0.0091
Mercury	2397-11-09 14:24 G	2596858.94	2596859.10	2596859.28	0.0143	0.0062
Mercury	2398-02-05 22:33 G	2596947.26	2596947.44	2596947.63	0.0143	0.0031
Mercury	2398-05-05 06:43 G	2597035.59	2597035.78	2597035.97	0.0143	0.0001
Mercury	2398-08-01 14:38 G	2597123.93	2597124.11	2597124.30	0.0143	0.0029
Mercury	2398-10-28 22:48 G	2597212.28	2597212.45	2597212.63	0.0143	0.0058
Mercury	2399-01-25 06:43 G	2597300.64	2597300.78	2597300.94	0.0143	0.0089
Mercury	2399-04-23 14:52 G	2597389.03	2597389.12	2597389.24	0.0143	0.0119
Moon	2400-05-19 20:09 G	2597781.21	2597781.34	2597781.49	0.0142	0.0120
Earth	2400-05-19 23:16 G	2597781.37	2597781.47	2597781.59	0.0142	0.0127 *
Earth	2401-05-24 22:19 G	2598151.24	2598151.43	2598151.63	0.0142	0.0092
Moon	2401-05-25 00:43 G	2598151.36	2598151.53	2598151.72	0.0142	0.0099 *
Moon	2402-05-29 19:11 G	2598521.06	2598521.30	2598521.56	0.0141	0.0052
Earth	2402-05-29 21:07 G	2598521.15	2598521.38	2598521.62	0.0141	0.0058 *
Earth	2403-06-03 19:11 G	2598891.05	2598891.30	2598891.56	0.0141	0.0023
Moon	2403-06-03 20:52 G	2598891.12	2598891.37	2598891.61	0.0141	0.0025 *
Venus	2403-09-10 09:35 G	2598989.85	2598989.90	2598990.00	0.0141	0.0133
Venus	2404-04-23 19:55 G	2599216.16	2599216.33	2599216.51	0.0141	0.0083
Moon	2404-06-07 16:04 G	2599260.90	2599261.17	2599261.44	0.0140	0.0008
Earth	2404-06-07 16:33 G	2599260.93	2599261.19	2599261.45	0.0140	0.0011 *
Venus	2404-12-06 05:31 G	2599442.52	2599442.73	2599442.95	0.0140	0.0034
Earth	2405-06-12 12:57 G	2599630.80	2599631.04	2599631.29	0.0140	0.0045
Moon	2405-06-12 13:11 G	2599630.83	2599631.05	2599631.30	0.0140	0.0051 *
Venus	2405-07-20 14:52 G	2599668.91	2599669.12	2599669.34	0.0140	0.0016
Venus	2406-03-04 00:14 G	2599895.32	2599895.51	2599895.71	0.0140	0.0064
Earth	2406-06-17 08:52 G	2600000.66	2600000.87	2600001.09	0.0139	0.0078
Moon	2406-06-17 09:35 G	2600000.67	2600000.90	2600001.13	0.0139	0.0071 *
Venus	2406-10-16 08:52 G	2600121.76	2600121.87	2600122.02	0.0139	0.0113
Moon	2407-06-22 03:21 G	2600370.51	2600370.64	2600370.78	0.0139	0.0116
Earth	2407-06-22 03:50 G	2600370.53	2600370.66	2600370.84	0.0139	0.0110 *

Moon	2408-06-25 23:45 G	2600740.48	2600740.49	2600740.54	0.0138	0.0138
Mars	2438-05-18 19:55 G	2611659.07	2611659.33	2611659.62	0.0134	0.0048
Mars	2440-04-17 18:14 G	2612359.04	2612359.26	2612359.53	0.0134	0.0075
Mercury	2440-08-16 02:38 G	2612479.58	2612479.61	2612479.65	0.0134	0.0129
Mercury	2440-11-12 05:45 G	2612567.67	2612567.74	2612567.82	0.0135	0.0111
Mercury	2441-02-08 09:07 G	2612655.79	2612655.88	2612655.98	0.0135	0.0094
Mercury	2441-05-07 12:28 G	2612743.91	2612744.02	2612744.13	0.0135	0.0076
Mercury	2441-08-03 15:21 G	2612832.03	2612832.14	2612832.27	0.0135	0.0059
Mercury	2441-10-30 18:43 G	2612920.15	2612920.28	2612920.41	0.0135	0.0041
Mercury	2442-01-26 21:50 G	2613008.28	2613008.41	2613008.54	0.0135	0.0024
Mercury	2442-04-25 00:57 G	2613096.41	2613096.54	2613096.68	0.0135	0.0007
Mercury	2442-07-22 04:19 G	2613184.54	2613184.68	2613184.81	0.0135	0.0012
Mercury	2442-10-18 07:26 G	2613272.68	2613272.81	2613272.94	0.0135	0.0029
Mercury	2443-01-14 10:33 G	2613360.81	2613360.94	2613361.06	0.0135	0.0046
Mercury	2443-04-12 13:40 G	2613448.95	2613449.07	2613449.18	0.0135	0.0064
Mercury	2443-07-09 16:33 G	2613537.09	2613537.19	2613537.30	0.0136	0.0082
Mercury	2443-10-05 19:40 G	2613625.24	2613625.32	2613625.42	0.0136	0.0099
Mercury	2444-01-01 22:48 G	2613713.39	2613713.45	2613713.52	0.0136	0.0116
Mercury	2444-03-30 02:09 G	2613801.56	2613801.59	2613801.61	0.0136	0.0133
Earth	2444-11-22 17:31 G	2614039.10	2614039.23	2614039.40	0.0136	0.0110
Moon	2444-11-22 19:40 G	2614039.18	2614039.32	2614039.50	0.0136	0.0105 *
Moon	2445-11-27 01:11 G	2614408.36	2614408.55	2614408.76	0.0137	0.0086
Earth	2445-11-27 03:07 G	2614408.44	2614408.63	2614408.84	0.0137	0.0080 *
Earth	2446-12-01 12:57 G	2614777.81	2614778.04	2614778.28	0.0137	0.0050
Moon	2446-12-01 14:24 G	2614777.88	2614778.10	2614778.34	0.0137	0.0043 *
Moon	2447-12-05 21:35 G	2615147.15	2615147.40	2615147.66	0.0138	0.0025
Earth	2447-12-05 23:16 G	2615147.23	2615147.47	2615147.73	0.0138	0.0020 *
Venus	2448-04-18 06:14 G	2615281.67	2615281.76	2615281.88	0.0138	0.0120
Venus	2448-11-30 13:55 G	2615507.91	2615508.08	2615508.27	0.0138	0.0074
Earth	2448-12-09 10:19 G	2615516.69	2615516.93	2615517.19	0.0138	0.0012

Moon	2448-12-09 11:16 G	2615516.73	2615516.97	2615517.22	0.0138	0.0014 *
Venus	2449-07-14 21:50 G	2615734.20	2615734.41	2615734.62	0.0138	0.0027
Moon	2449-12-13 20:52 G	2615886.13	2615886.37	2615886.62	0.0138	0.0043
Earth	2449-12-13 21:50 G	2615886.19	2615886.41	2615886.66	0.0138	0.0044 *
Venus	2450-02-26 05:45 G	2615960.53	2615960.74	2615960.96	0.0139	0.0020
Venus	2450-10-10 13:55 G	2616186.90	2616187.08	2616187.28	0.0139	0.0067
Earth	2450-12-18 10:04 G	2616255.72	2616255.92	2616256.14	0.0139	0.0075
Moon	2450-12-18 10:48 G	2616255.76	2616255.95	2616256.17	0.0139	0.0072 *
Venus	2451-05-24 22:19 G	2616413.31	2616413.43	2616413.55	0.0139	0.0114
Moon	2451-12-22 23:02 G	2616625.32	2616625.46	2616625.62	0.0139	0.0113
Earth	2451-12-22 23:02 G	2616625.32	2616625.46	2616625.64	0.0139	0.0107 *
Moon	2452-12-26 13:11 G	2616994.99	2616995.05	2616995.15	0.0140	0.0132
Earth	2452-12-26 12:57 G	2616995.02	2616995.04	2616995.09	0.0140	0.0138 *
Mars	2478-11-27 02:52 G	2626461.31	2626461.62	2626461.93	0.0145	0.0050
Mars	2480-11-01 20:52 G	2627167.21	2627167.37	2627167.55	0.0144	0.0122
Mercury	2481-03-09 22:19 G	2627295.41	2627295.43	2627295.48	0.0144	0.0141
Mercury	2481-06-06 06:14 G	2627383.66	2627383.76	2627383.89	0.0144	0.0112
Mercury	2481-09-02 14:24 G	2627471.95	2627472.10	2627472.26	0.0144	0.0082
Mercury	2481-11-29 22:19 G	2627560.26	2627560.43	2627560.62	0.0144	0.0053
Mercury	2482-02-26 06:28 G	2627648.59	2627648.77	2627648.96	0.0143	0.0022
Mercury	2482-05-25 14:38 G	2627736.92	2627737.11	2627737.30	0.0143	0.0008
Mercury	2482-08-21 22:33 G	2627825.26	2627825.44	2627825.63	0.0143	0.0038
Mercury	2482-11-18 06:43 G	2627913.61	2627913.78	2627913.95	0.0143	0.0068
Mercury	2483-02-14 14:52 G	2628001.98	2628002.12	2628002.26	0.0143	0.0098
Mercury	2483-05-13 22:33 G	2628090.38	2628090.44	2628090.54	0.0143	0.0128
Moon	2484-05-20 07:55 G	2628462.73	2628462.83	2628462.96	0.0142	0.0128
Earth	2484-05-20 11:02 G	2628462.84	2628462.96	2628463.11	0.0142	0.0122 *
Earth	2485-05-25 10:19 G	2628832.74	2628832.93	2628833.14	0.0142	0.0087
Moon	2485-05-25 12:57 G	2628832.85	2628833.04	2628833.26	0.0142	0.0080 *
Moon	2486-05-30 06:14 G	2629202.53	2629202.76	2629203.01	0.0142	0.0059

Earth	2486-05-30 08:52 G	2629202.64	2629202.87	2629203.12	0.0142	0.0053 *
Earth	2487-06-04 06:57 G	2629572.54	2629572.79	2629573.05	0.0141	0.0018
Moon	2487-06-04 08:38 G	2629572.62	2629572.86	2629573.11	0.0141	0.0017 *
Venus	2487-12-23 04:19 G	2629774.55	2629774.68	2629774.84	0.0141	0.0105
Moon	2488-06-08 02:38 G	2629942.35	2629942.61	2629942.88	0.0141	0.0018
Earth	2488-06-08 04:19 G	2629942.43	2629942.68	2629942.94	0.0141	0.0017 *
Venus	2488-08-05 14:24 G	2630000.90	2630001.10	2630001.30	0.0140	0.0055
Venus	2489-03-20 00:00 G	2630227.28	2630227.50	2630227.72	0.0140	0.0006
Earth	2489-06-13 00:57 G	2630312.30	2630312.54	2630312.79	0.0140	0.0050
Moon	2489-06-13 01:26 G	2630312.33	2630312.56	2630312.80	0.0140	0.0045 *
Venus	2489-11-01 09:21 G	2630453.68	2630453.89	2630454.10	0.0140	0.0043
Venus	2490-06-15 18:14 G	2630680.11	2630680.26	2630680.44	0.0139	0.0092
Moon	2490-06-17 20:38 G	2630682.16	2630682.36	2630682.57	0.0139	0.0090
Earth	2490-06-17 21:07 G	2630682.18	2630682.38	2630682.59	0.0139	0.0083 *
Moon	2491-06-22 16:19 G	2631052.03	2631052.18	2631052.34	0.0139	0.0109
Earth	2491-06-22 16:19 G	2631052.05	2631052.18	2631052.34	0.0139	0.0115 *
Mars	2521-02-11 16:48 G	2641878.09	2641878.20	2641878.36	0.0133	0.0119
Mars	2523-01-12 10:04 G	2642577.62	2642577.92	2642578.21	0.0134	0.0002
Mercury	2524-09-06 10:19 G	2643180.88	2643180.93	2643180.99	0.0134	0.0122
Mercury	2524-12-03 13:40 G	2643268.99	2643269.07	2643269.15	0.0135	0.0105
Mars	2524-12-12 09:50 G	2643277.81	2643277.91	2643278.04	0.0135	0.0124
Mercury	2525-03-01 16:33 G	2643357.10	2643357.19	2643357.31	0.0135	0.0088
Mercury	2525-05-28 19:55 G	2643445.22	2643445.33	2643445.45	0.0135	0.0070
Mercury	2525-08-24 23:16 G	2643533.35	2643533.47	2643533.59	0.0135	0.0052
Mercury	2525-11-21 02:24 G	2643621.47	2643621.60	2643621.73	0.0135	0.0035
Mercury	2526-02-17 05:31 G	2643709.60	2643709.73	2643709.87	0.0135	0.0017
Mercury	2526-05-16 08:38 G	2643797.73	2643797.86	2643798.00	0.0135	0.0004
Mercury	2526-08-12 11:45 G	2643885.86	2643885.99	2643886.13	0.0135	0.0018
Mercury	2526-11-08 14:52 G	2643974.00	2643974.12	2643974.25	0.0135	0.0036
Mercury	2527-02-04 18:14 G	2644062.13	2644062.26	2644062.38	0.0135	0.0053

Mercury	2527-05-03 21:07 G	2644150.27	2644150.38	2644150.50	0.0135	0.0070
Mercury	2527-07-31 00:14 G	2644238.42	2644238.51	2644238.62	0.0136	0.0088
Mercury	2527-10-27 03:21 G	2644326.56	2644326.64	2644326.73	0.0136	0.0105
Moon	2527-11-20 18:57 G	2644351.24	2644351.29	2644351.37	0.0136	0.0131
Earth	2527-11-20 22:04 G	2644351.37	2644351.42	2644351.48	0.0136	0.0132 *
Mercury	2528-01-23 06:28 G	2644414.72	2644414.77	2644414.83	0.0136	0.0122
Earth	2528-11-24 06:28 G	2644720.63	2644720.77	2644720.95	0.0136	0.0104
Moon	2528-11-24 09:07 G	2644720.74	2644720.88	2644721.03	0.0136	0.0108 *
Moon	2529-11-28 13:40 G	2645089.86	2645090.07	2645090.30	0.0136	0.0068
Earth	2529-11-28 16:04 G	2645089.97	2645090.17	2645090.39	0.0136	0.0075 *
Earth	2530-12-03 01:40 G	2645459.34	2645459.57	2645459.82	0.0137	0.0045
Moon	2530-12-03 03:50 G	2645459.45	2645459.66	2645459.90	0.0137	0.0052 *
Moon	2531-12-07 10:33 G	2645828.68	2645828.94	2645829.20	0.0137	0.0009
Earth	2531-12-07 12:14 G	2645828.76	2645829.01	2645829.26	0.0137	0.0014 *
Venus	2532-07-31 23:45 G	2646066.35	2646066.49	2646066.66	0.0138	0.0094
Earth	2532-12-10 23:16 G	2646198.22	2646198.47	2646198.72	0.0138	0.0017
Moon	2532-12-11 01:11 G	2646198.31	2646198.55	2646198.79	0.0138	0.0013 *
Venus	2533-03-15 07:40 G	2646292.62	2646292.82	2646293.03	0.0138	0.0047
Venus	2533-10-27 15:50 G	2646518.94	2646519.16	2646519.37	0.0138	0.0002
Moon	2533-12-15 09:07 G	2646567.65	2646567.88	2646568.13	0.0138	0.0049
Earth	2533-12-15 10:33 G	2646567.72	2646567.94	2646568.19	0.0138	0.0049 *
Venus	2534-06-10 23:31 G	2646745.29	2646745.48	2646745.69	0.0139	0.0047
Earth	2534-12-19 22:48 G	2646937.26	2646937.45	2646937.67	0.0139	0.0080
Moon	2534-12-20 00:00 G	2646937.32	2646937.50	2646937.71	0.0139	0.0084 *
Venus	2535-01-23 07:40 G	2646971.67	2646971.82	2646971.99	0.0139	0.0094
Moon	2535-12-24 10:19 G	2647306.79	2647306.93	2647307.12	0.0139	0.0107
Earth	2535-12-24 12:00 G	2647306.85	2647307.00	2647307.15	0.0139	0.0112 *
Mars	2563-07-25 09:21 G	2657381.57	2657381.89	2657382.21	0.0145	0.0016
Mercury	2565-03-31 06:14 G	2657996.69	2657996.76	2657996.83	0.0144	0.0133
Mercury	2565-06-27 13:55 G	2658084.96	2658085.08	2658085.22	0.0144	0.0104

Mercury	2565-09-23 22:04 G	2658173.26	2658173.42	2658173.58	0.0144	0.0074
Mercury	2565-12-21 06:00 G	2658261.57	2658261.75	2658261.93	0.0144	0.0045
Mercury	2566-03-19 14:09 G	2658349.90	2658350.09	2658350.28	0.0144	0.0015
Mercury	2566-06-15 22:04 G	2658438.23	2658438.42	2658438.61	0.0143	0.0015
Mercury	2566-09-12 06:00 G	2658526.58	2658526.75	2658526.94	0.0143	0.0046
Mercury	2566-12-09 14:09 G	2658614.93	2658615.09	2658615.26	0.0143	0.0075
Mercury	2567-03-07 22:19 G	2658703.31	2658703.43	2658703.56	0.0143	0.0105
Mercury	2567-06-04 06:28 G	2658791.72	2658791.77	2658791.83	0.0143	0.0135
Moon	2568-05-21 18:28 G	2659144.11	2659144.27	2659144.44	0.0143	0.0110
Earth	2568-05-21 22:04 G	2659144.28	2659144.42	2659144.58	0.0143	0.0117 *
Earth	2569-05-26 21:07 G	2659514.18	2659514.38	2659514.60	0.0142	0.0082
Moon	2569-05-27 00:14 G	2659514.33	2659514.51	2659514.72	0.0142	0.0089 *
Moon	2570-05-31 17:31 G	2659883.98	2659884.23	2659884.48	0.0142	0.0041
Earth	2570-05-31 19:55 G	2659884.10	2659884.33	2659884.59	0.0142	0.0048 *
Earth	2571-06-05 18:14 G	2660254.01	2660254.26	2660254.52	0.0141	0.0013
Moon	2571-06-05 20:52 G	2660254.12	2660254.37	2660254.62	0.0141	0.0016 *
Venus	2571-08-23 12:28 G	2660332.95	2660333.02	2660333.13	0.0141	0.0127
Venus	2572-04-05 22:48 G	2660559.27	2660559.45	2660559.64	0.0141	0.0077
Moon	2572-06-09 13:55 G	2660623.82	2660624.08	2660624.35	0.0141	0.0020
Earth	2572-06-09 15:35 G	2660623.90	2660624.15	2660624.41	0.0141	0.0022 *
Venus	2572-11-18 08:38 G	2660785.64	2660785.86	2660786.07	0.0140	0.0028
Earth	2573-06-14 12:28 G	2660993.79	2660994.02	2660994.26	0.0140	0.0055
Moon	2573-06-14 14:09 G	2660993.87	2660994.09	2660994.32	0.0140	0.0061 *
Venus	2573-07-02 18:00 G	2661012.04	2661012.25	2661012.47	0.0140	0.0022
Venus	2574-02-14 03:07 G	2661238.46	2661238.63	2661238.83	0.0140	0.0071
Moon	2574-06-19 07:55 G	2661363.62	2661363.83	2661364.06	0.0140	0.0082
Earth	2574-06-19 08:38 G	2661363.68	2661363.86	2661364.07	0.0140	0.0089 *
Venus	2574-09-28 12:28 G	2661464.92	2661465.02	2661465.14	0.0139	0.0119
Earth	2575-06-24 04:19 G	2661733.56	2661733.68	2661733.82	0.0139	0.0120
Moon	2575-06-24 04:33 G	2661733.60	2661733.69	2661733.80	0.0139	0.0127 *

Mars	2605-10-08 07:40 G	2672796.59	2672796.82	2672797.08	0.0134	0.0071
Mars	2607-09-08 01:26 G	2673496.30	2673496.56	2673496.85	0.0134	0.0050
Mercury	2608-07-01 15:07 G	2673794.11	2673794.13	2673794.15	0.0134	0.0133
Mercury	2608-09-27 18:00 G	2673882.20	2673882.25	2673882.33	0.0134	0.0116
Mercury	2608-12-24 21:21 G	2673970.31	2673970.39	2673970.49	0.0135	0.0098
Mercury	2609-03-23 00:43 G	2674058.42	2674058.53	2674058.64	0.0135	0.0080
Mercury	2609-06-19 03:50 G	2674146.55	2674146.66	2674146.78	0.0135	0.0063
Mercury	2609-09-15 07:11 G	2674234.67	2674234.80	2674234.92	0.0135	0.0045
Mercury	2609-12-12 10:19 G	2674322.80	2674322.93	2674323.06	0.0135	0.0028
Mercury	2610-03-10 13:26 G	2674410.93	2674411.06	2674411.19	0.0135	0.0010
Mercury	2610-06-06 16:33 G	2674499.06	2674499.19	2674499.32	0.0135	0.0007
Mercury	2610-09-02 19:40 G	2674587.19	2674587.32	2674587.45	0.0135	0.0025
Mercury	2610-11-29 22:48 G	2674675.33	2674675.45	2674675.58	0.0135	0.0042
Mercury	2611-02-26 01:55 G	2674763.46	2674763.58	2674763.70	0.0135	0.0060
Mercury	2611-05-25 05:02 G	2674851.60	2674851.71	2674851.82	0.0135	0.0077
Mercury	2611-08-21 08:09 G	2674939.75	2674939.84	2674939.94	0.0136	0.0094
Mercury	2611-11-17 11:16 G	2675027.90	2675027.97	2675028.05	0.0136	0.0112
Moon	2611-11-22 09:07 G	2675032.82	2675032.88	2675032.99	0.0136	0.0129
Earth	2611-11-22 12:00 G	2675032.93	2675033.00	2675033.11	0.0136	0.0127 *
Mercury	2612-02-13 14:24 G	2675116.06	2675116.10	2675116.14	0.0136	0.0129
Earth	2612-11-25 21:07 G	2675402.22	2675402.38	2675402.56	0.0136	0.0098
Moon	2612-11-26 00:14 G	2675402.33	2675402.51	2675402.69	0.0136	0.0094 *
Moon	2613-11-30 03:35 G	2675771.45	2675771.65	2675771.88	0.0137	0.0075
Earth	2613-11-30 06:28 G	2675771.56	2675771.77	2675771.99	0.0137	0.0069 *
Earth	2614-12-04 16:19 G	2676140.94	2676141.18	2676141.42	0.0137	0.0039
Moon	2614-12-04 18:28 G	2676141.04	2676141.27	2676141.52	0.0137	0.0032 *
Moon	2615-12-09 00:00 G	2676510.25	2676510.50	2676510.76	0.0137	0.0015
Earth	2615-12-09 02:52 G	2676510.37	2676510.62	2676510.87	0.0137	0.0008 *
Venus	2616-04-01 11:16 G	2676624.85	2676624.97	2676625.10	0.0138	0.0112
Venus	2616-11-13 18:57 G	2676851.11	2676851.29	2676851.49	0.0138	0.0066

Earth	2616-12-12 13:40 G	2676879.83	2676880.07	2676880.32	0.0138	0.0023
Moon	2616-12-12 15:35 G	2676879.91	2676880.15	2676880.39	0.0138	0.0026 *
Venus	2617-06-28 02:52 G	2677077.41	2677077.62	2677077.84	0.0138	0.0019
Moon	2617-12-16 23:16 G	2677249.24	2677249.47	2677249.71	0.0138	0.0054
Earth	2617-12-17 01:26 G	2677249.34	2677249.56	2677249.80	0.0138	0.0055 *
Venus	2618-02-09 10:48 G	2677303.74	2677303.95	2677304.16	0.0138	0.0028
Venus	2618-09-23 18:57 G	2677530.11	2677530.29	2677530.47	0.0139	0.0075
Earth	2618-12-21 13:40 G	2677618.88	2677619.07	2677619.27	0.0139	0.0086
Moon	2618-12-21 15:07 G	2677618.95	2677619.13	2677619.34	0.0139	0.0084 *
Venus	2619-05-08 02:52 G	2677756.54	2677756.62	2677756.74	0.0139	0.0123
Moon	2619-12-26 00:57 G	2677988.44	2677988.54	2677988.67	0.0139	0.0124
Earth	2619-12-26 02:38 G	2677988.48	2677988.61	2677988.75	0.0139	0.0118 *
Mars	2646-04-15 19:55 G	2687596.10	2687596.33	2687596.60	0.0145	0.0092
Mars	2648-03-21 21:07 G	2688302.13	2688302.38	2688302.66	0.0144	0.0083
Mercury	2649-04-21 14:24 G	2688698.02	2688698.10	2688698.21	0.0144	0.0123
Mercury	2649-07-18 22:33 G	2688786.30	2688786.44	2688786.58	0.0144	0.0093
Mercury	2649-10-15 06:14 G	2688874.60	2688874.76	2688874.94	0.0144	0.0064
Mercury	2650-01-11 14:24 G	2688962.92	2688963.10	2688963.29	0.0144	0.0034
Mercury	2650-04-09 22:33 G	2689051.25	2689051.44	2689051.63	0.0144	0.0005
Mercury	2650-07-07 06:28 G	2689139.59	2689139.77	2689139.96	0.0143	0.0026
Mercury	2650-10-03 14:38 G	2689227.93	2689228.11	2689228.28	0.0143	0.0056
Mercury	2650-12-30 22:19 G	2689316.29	2689316.43	2689316.60	0.0143	0.0086
Mercury	2651-03-29 06:28 G	2689404.67	2689404.77	2689404.89	0.0143	0.0116
Moon	2651-05-19 15:21 G	2689456.13	2689456.14	2689456.18	0.0143	0.0142
Moon	2652-05-23 07:26 G	2689825.68	2689825.81	2689825.98	0.0143	0.0117
Earth	2652-05-23 11:02 G	2689825.82	2689825.96	2689826.14	0.0143	0.0111 *
Earth	2653-05-28 10:19 G	2690195.73	2690195.93	2690196.16	0.0142	0.0076
Moon	2653-05-28 13:55 G	2690195.87	2690196.08	2690196.31	0.0142	0.0068 *
Moon	2654-06-02 06:00 G	2690565.51	2690565.75	2690566.00	0.0142	0.0048
Earth	2654-06-02 09:21 G	2690565.65	2690565.89	2690566.14	0.0142	0.0041 *

Earth	2655-06-07 07:26 G	2690935.55	2690935.81	2690936.07	0.0141	0.0006
Moon	2655-06-07 09:50 G	2690935.66	2690935.91	2690936.17	0.0141	0.0005 *
Venus	2655-12-06 08:24 G	2691117.69	2691117.85	2691118.00	0.0141	0.0098
Moon	2656-06-11 01:55 G	2691305.33	2691305.58	2691305.85	0.0141	0.0029
Earth	2656-06-11 04:48 G	2691305.46	2691305.70	2691305.96	0.0141	0.0028 *
Venus	2656-07-19 18:00 G	2691344.05	2691344.25	2691344.46	0.0141	0.0049
Venus	2657-03-03 03:50 G	2691570.44	2691570.66	2691570.88	0.0140	0.0002
Earth	2657-06-16 01:26 G	2691675.35	2691675.56	2691675.81	0.0140	0.0062
Moon	2657-06-16 03:07 G	2691675.42	2691675.63	2691675.88	0.0140	0.0058 *
Venus	2657-10-15 13:11 G	2691796.85	2691797.05	2691797.26	0.0140	0.0050
Venus	2658-05-29 22:19 G	2692023.29	2692023.43	2692023.60	0.0140	0.0099
Moon	2658-06-20 20:09 G	2692045.18	2692045.34	2692045.54	0.0140	0.0102
Earth	2658-06-20 21:50 G	2692045.24	2692045.41	2692045.62	0.0140	0.0095 *
Earth	2659-06-25 17:45 G	2692415.14	2692415.24	2692415.35	0.0139	0.0126
Moon	2659-06-25 18:43 G	2692415.16	2692415.28	2692415.41	0.0139	0.0120 *
Saturn	2669-04-08 04:04 G	2695989.04	2695989.67	2695990.36	0.0135	0.0028
Mars	2690-06-02 20:38 G	2703715.08	2703715.36	2703715.66	0.0134	0.0023
Mars	2692-05-02 17:31 G	2704415.04	2704415.23	2704415.44	0.0134	0.0099
Mercury	2692-07-21 22:48 G	2704495.41	2704495.45	2704495.50	0.0134	0.0126
Mercury	2692-10-18 02:09 G	2704583.51	2704583.59	2704583.67	0.0135	0.0108
Mercury	2693-01-14 05:16 G	2704671.63	2704671.72	2704671.82	0.0135	0.0091
Mercury	2693-04-12 08:38 G	2704759.75	2704759.86	2704759.97	0.0135	0.0073
Mercury	2693-07-09 11:45 G	2704847.87	2704847.99	2704848.11	0.0135	0.0056
Mercury	2693-10-05 14:52 G	2704935.99	2704936.12	2704936.25	0.0135	0.0038
Mercury	2694-01-01 18:00 G	2705024.12	2705024.25	2705024.39	0.0135	0.0021
Mercury	2694-03-30 21:21 G	2705112.25	2705112.39	2705112.52	0.0135	0.0005
Mercury	2694-06-27 00:28 G	2705200.38	2705200.52	2705200.65	0.0135	0.0014
Mercury	2694-09-23 03:35 G	2705288.52	2705288.65	2705288.78	0.0135	0.0032
Mercury	2694-12-20 06:28 G	2705376.65	2705376.77	2705376.90	0.0135	0.0050
Mercury	2695-03-18 09:35 G	2705464.79	2705464.90	2705465.02	0.0135	0.0067

Mercury	2695-06-14 12:57 G	2705552.93	2705553.04	2705553.14	0.0135	0.0084
Mercury	2695-09-10 16:04 G	2705641.08	2705641.17	2705641.25	0.0136	0.0101
Moon	2695-11-22 22:48 G	2705714.35	2705714.45	2705714.58	0.0136	0.0121
Earth	2695-11-23 02:09 G	2705714.50	2705714.59	2705714.72	0.0136	0.0122 *
Mercury	2695-12-07 18:57 G	2705729.24	2705729.29	2705729.36	0.0136	0.0119
Mercury	2696-03-04 22:04 G	2705817.42	2705817.42	2705817.43	0.0136	0.0136
Earth	2696-11-26 11:16 G	2706083.79	2706083.97	2706084.16	0.0136	0.0093
Moon	2696-11-26 13:55 G	2706083.92	2706084.08	2706084.27	0.0136	0.0097 *
Moon	2697-11-30 17:31 G	2706453.00	2706453.23	2706453.47	0.0136	0.0056
Earth	2697-11-30 20:24 G	2706453.14	2706453.35	2706453.59	0.0136	0.0064 *
Earth	2698-12-05 06:14 G	2706822.52	2706822.76	2706823.01	0.0137	0.0033
Moon	2698-12-05 09:07 G	2706822.66	2706822.88	2706823.13	0.0137	0.0040 *
Venus	2699-11-30 22:33 G	2707183.37	2707183.44	2707183.51	0.0137	0.0130
Moon	2699-12-09 14:24 G	2707191.84	2707192.10	2707192.36	0.0137	0.0004
Earth	2699-12-09 17:02 G	2707191.95	2707192.21	2707192.46	0.0137	0.0003 *
Venus	2700-07-15 05:45 G	2707409.58	2707409.74	2707409.92	0.0138	0.0084
Earth	2700-12-14 03:50 G	2707561.42	2707561.66	2707561.91	0.0138	0.0029
Moon	2700-12-14 06:43 G	2707561.54	2707561.78	2707562.02	0.0138	0.0025 *
Venus	2701-02-26 13:40 G	2707635.86	2707636.07	2707636.28	0.0138	0.0038
Venus	2701-10-10 21:35 G	2707862.19	2707862.40	2707862.62	0.0138	0.0009
Moon	2701-12-18 12:57 G	2707930.82	2707931.04	2707931.28	0.0138	0.0062
Earth	2701-12-18 15:21 G	2707930.92	2707931.14	2707931.37	0.0138	0.0061 *
Venus	2702-05-25 05:31 G	2708088.54	2708088.73	2708088.93	0.0139	0.0056
Earth	2702-12-23 03:35 G	2708300.47	2708300.65	2708300.84	0.0139	0.0092
Moon	2702-12-23 06:00 G	2708300.57	2708300.75	2708300.92	0.0139	0.0095 *
Venus	2703-01-06 13:26 G	2708314.93	2708315.06	2708315.22	0.0139	0.0103
Moon	2703-12-27 14:09 G	2708669.97	2708670.09	2708670.24	0.0139	0.0119
Earth	2703-12-27 16:19 G	2708670.08	2708670.18	2708670.31	0.0139	0.0124 *
Jupiter	2714-10-24 00:28 G	2712623.15	2712623.52	2712623.97	0.0144	0.0093
Mars	2730-12-12 11:16 G	2718516.65	2718516.97	2718517.30	0.0145	0.0022

Mercury	2733-02-13 15:07 G	2719311.10	2719311.13	2719311.16	0.0144	0.0141
Mercury	2733-05-12 22:48 G	2719399.34	2719399.45	2719399.58	0.0144	0.0112
Mercury	2733-08-09 06:43 G	2719487.64	2719487.78	2719487.94	0.0144	0.0083
Mercury	2733-11-05 14:52 G	2719575.94	2719576.12	2719576.29	0.0144	0.0053
Mercury	2734-02-01 22:48 G	2719664.26	2719664.45	2719664.64	0.0144	0.0023
Mercury	2734-05-01 06:43 G	2719752.59	2719752.78	2719752.97	0.0144	0.0007
Mercury	2734-07-28 14:38 G	2719840.93	2719841.11	2719841.30	0.0143	0.0037
Mercury	2734-10-24 22:48 G	2719929.29	2719929.45	2719929.62	0.0143	0.0066
Mercury	2735-01-21 06:43 G	2720017.65	2720017.78	2720017.93	0.0143	0.0096
Mercury	2735-04-19 14:52 G	2720106.04	2720106.12	2720106.22	0.0143	0.0126
Earth	2735-05-21 00:28 G	2720137.49	2720137.52	2720137.60	0.0143	0.0140
Moon	2735-05-21 04:19 G	2720137.67	2720137.68	2720137.71	0.0143	0.0143
Moon	2736-05-24 20:52 G	2720507.19	2720507.37	2720507.56	0.0143	0.0099
Earth	2736-05-25 00:57 G	2720507.37	2720507.54	2720507.71	0.0143	0.0105 *
Earth	2737-05-29 23:45 G	2720877.28	2720877.49	2720877.73	0.0142	0.0070
Moon	2737-05-30 03:21 G	2720877.43	2720877.64	2720877.86	0.0142	0.0078 *
Moon	2738-06-03 19:26 G	2721247.06	2721247.31	2721247.57	0.0142	0.0029
Earth	2738-06-03 22:33 G	2721247.20	2721247.44	2721247.70	0.0142	0.0036 *
Earth	2739-06-08 20:52 G	2721617.12	2721617.37	2721617.63	0.0141	0.0002
Moon	2739-06-09 00:14 G	2721617.26	2721617.51	2721617.77	0.0141	0.0004 *
Venus	2739-08-06 17:31 G	2721676.13	2721676.23	2721676.36	0.0141	0.0119
Venus	2740-03-20 03:50 G	2721902.47	2721902.66	2721902.85	0.0141	0.0069
Moon	2740-06-12 15:50 G	2721986.91	2721987.16	2721987.42	0.0141	0.0033
Earth	2740-06-12 18:28 G	2721987.02	2721987.27	2721987.52	0.0141	0.0034 *
Venus	2740-11-01 13:40 G	2722128.85	2722129.07	2722129.29	0.0140	0.0020
Venus	2741-06-15 23:02 G	2722355.25	2722355.46	2722355.68	0.0140	0.0030
Earth	2741-06-17 15:35 G	2722356.93	2722357.15	2722357.38	0.0140	0.0068
Moon	2741-06-17 18:00 G	2722357.04	2722357.25	2722357.47	0.0140	0.0073 *
Venus	2742-01-28 08:24 G	2722581.68	2722581.85	2722582.04	0.0140	0.0079
Moon	2742-06-22 10:04 G	2722726.73	2722726.92	2722727.12	0.0140	0.0094

Earth	2742-06-22 11:45 G	2722726.83	2722726.99	2722727.18	0.0140	0.0101 *
Venus	2742-09-11 17:45 G	2722808.16	2722808.24	2722808.33	0.0139	0.0127
Earth	2743-06-27 07:26 G	2723096.74	2723096.81	2723096.90	0.0139	0.0132
Mars	2773-02-26 19:40 G	2733934.13	2733934.32	2733934.55	0.0133	0.0092
Mars	2775-01-27 11:02 G	2734633.68	2734633.96	2734634.26	0.0134	0.0027
Mercury	2776-08-12 06:43 G	2735196.72	2735196.78	2735196.85	0.0134	0.0118
Mercury	2776-11-08 10:04 G	2735284.83	2735284.92	2735285.01	0.0135	0.0101
Mercury	2777-02-04 13:11 G	2735372.95	2735373.05	2735373.16	0.0135	0.0083
Mercury	2777-05-03 16:19 G	2735461.07	2735461.18	2735461.30	0.0135	0.0066
Mercury	2777-07-30 19:26 G	2735549.19	2735549.31	2735549.44	0.0135	0.0049
Mercury	2777-10-26 22:48 G	2735637.32	2735637.45	2735637.58	0.0135	0.0031
Mercury	2778-01-23 01:55 G	2735725.45	2735725.58	2735725.72	0.0135	0.0014
Mercury	2778-04-21 05:02 G	2735813.58	2735813.71	2735813.85	0.0135	0.0005
Mercury	2778-07-18 08:09 G	2735901.71	2735901.84	2735901.98	0.0135	0.0022
Mercury	2778-10-14 11:16 G	2735989.85	2735989.97	2735990.10	0.0135	0.0039
Mercury	2779-01-10 14:24 G	2736077.99	2736078.10	2736078.23	0.0135	0.0057
Mercury	2779-04-08 17:31 G	2736166.13	2736166.23	2736166.35	0.0135	0.0074
Mercury	2779-07-05 20:52 G	2736254.27	2736254.37	2736254.46	0.0136	0.0091
Mercury	2779-10-01 23:45 G	2736342.42	2736342.49	2736342.57	0.0136	0.0108
Moon	2779-11-24 13:40 G	2736395.95	2736396.07	2736396.20	0.0136	0.0117
Earth	2779-11-24 16:48 G	2736396.08	2736396.20	2736396.34	0.0136	0.0116 *
Mercury	2779-12-29 02:52 G	2736430.58	2736430.62	2736430.67	0.0136	0.0126
Earth	2780-11-28 01:40 G	2736765.39	2736765.57	2736765.77	0.0136	0.0087
Moon	2780-11-28 05:02 G	2736765.53	2736765.71	2736765.92	0.0136	0.0083 *
Moon	2781-12-02 07:40 G	2737134.61	2737134.82	2737135.06	0.0136	0.0063
Earth	2781-12-02 11:02 G	2737134.74	2737134.96	2737135.20	0.0136	0.0058 *
Earth	2782-12-06 21:07 G	2737504.13	2737504.38	2737504.63	0.0137	0.0027
Moon	2782-12-07 00:00 G	2737504.26	2737504.50	2737504.75	0.0137	0.0020 *
Moon	2783-12-11 04:33 G	2737873.43	2737873.69	2737873.94	0.0137	0.0004
Earth	2783-12-11 07:40 G	2737873.57	2737873.82	2737874.08	0.0137	0.0005 *

Venus	2784-03-14 17:02 G	2737968.08	2737968.21	2737968.37	0.0138	0.0103
Venus	2784-10-27 01:11 G	2738194.35	2738194.55	2738194.75	0.0138	0.0056
Earth	2784-12-14 18:43 G	2738243.04	2738243.28	2738243.52	0.0138	0.0035
Moon	2784-12-14 21:07 G	2738243.15	2738243.38	2738243.63	0.0138	0.0039 *
Venus	2785-06-10 08:52 G	2738420.65	2738420.87	2738421.09	0.0138	0.0010
Moon	2785-12-19 03:07 G	2738612.42	2738612.63	2738612.87	0.0138	0.0065
Earth	2785-12-19 06:14 G	2738612.55	2738612.76	2738612.99	0.0138	0.0067 *
Venus	2786-01-22 16:33 G	2738646.99	2738647.19	2738647.40	0.0138	0.0037
Venus	2786-09-06 00:43 G	2738873.36	2738873.53	2738873.70	0.0139	0.0084
Earth	2786-12-23 18:14 G	2738982.09	2738982.26	2738982.44	0.0139	0.0098
Moon	2786-12-23 20:24 G	2738982.20	2738982.35	2738982.55	0.0139	0.0097 *
Venus	2787-04-20 08:52 G	2739099.81	2739099.87	2739099.94	0.0139	0.0132
Moon	2787-12-28 04:33 G	2739351.65	2739351.69	2739351.76	0.0139	0.0136
Earth	2787-12-28 06:57 G	2739351.71	2739351.79	2739351.89	0.0139	0.0130 *
Mars	2813-09-01 20:38 G	2748731.23	2748731.36	2748731.54	0.0145	0.0127
Mars	2815-08-09 04:04 G	2749437.37	2749437.67	2749437.98	0.0145	0.0049
Mercury	2817-03-05 23:45 G	2750012.42	2750012.49	2750012.58	0.0144	0.0129
Mercury	2817-06-02 07:40 G	2750100.70	2750100.82	2750100.97	0.0144	0.0100
Mercury	2817-08-29 15:50 G	2750189.00	2750189.16	2750189.32	0.0144	0.0070
Mercury	2817-11-25 23:31 G	2750277.31	2750277.48	2750277.67	0.0144	0.0041
Mercury	2818-02-22 07:40 G	2750365.63	2750365.82	2750366.01	0.0144	0.0011
Mercury	2818-05-21 15:35 G	2750453.97	2750454.15	2750454.34	0.0144	0.0020
Mercury	2818-08-17 23:31 G	2750542.31	2750542.48	2750542.67	0.0143	0.0050
Mercury	2818-11-14 07:40 G	2750630.67	2750630.82	2750630.99	0.0143	0.0079
Mercury	2819-02-10 15:35 G	2750719.04	2750719.15	2750719.29	0.0143	0.0109
Mercury	2819-05-09 23:45 G	2750807.46	2750807.49	2750807.55	0.0143	0.0139
Earth	2819-05-21 16:04 G	2750819.10	2750819.17	2750819.27	0.0143	0.0134
Moon	2819-05-21 19:26 G	2750819.24	2750819.31	2750819.43	0.0143	0.0132 *
Moon	2820-05-25 12:28 G	2751188.86	2751189.02	2751189.20	0.0143	0.0105
Earth	2820-05-25 15:35 G	2751188.99	2751189.15	2751189.36	0.0143	0.0100 *

Earth	2821-05-30 15:07 G	2751558.91	2751559.13	2751559.37	0.0142	0.0065
Moon	2821-05-30 18:57 G	2751559.06	2751559.29	2751559.53	0.0142	0.0057 *
Moon	2822-06-04 10:19 G	2751928.70	2751928.93	2751929.20	0.0142	0.0037
Earth	2822-06-04 14:24 G	2751928.84	2751929.10	2751929.35	0.0142	0.0029 *
Venus	2823-04-06 04:19 G	2752234.66	2752234.68	2752234.74	0.0141	0.0139
Earth	2823-06-09 12:14 G	2752298.76	2752299.01	2752299.27	0.0141	0.0006
Moon	2823-06-09 15:21 G	2752298.89	2752299.14	2752299.40	0.0141	0.0009 *
Venus	2823-11-18 14:38 G	2752460.94	2752461.11	2752461.28	0.0141	0.0088
Moon	2824-06-13 06:43 G	2752668.53	2752668.78	2752669.03	0.0141	0.0040
Earth	2824-06-13 09:50 G	2752668.67	2752668.91	2752669.17	0.0141	0.0041 *
Venus	2824-07-02 00:28 G	2752687.31	2752687.52	2752687.73	0.0141	0.0039
Venus	2825-02-13 10:04 G	2752913.71	2752913.92	2752914.14	0.0140	0.0011
Earth	2825-06-18 06:57 G	2753038.58	2753038.79	2753039.02	0.0140	0.0074
Moon	2825-06-18 09:35 G	2753038.68	2753038.90	2753039.12	0.0140	0.0070 *
Venus	2825-09-27 19:40 G	2753140.13	2753140.32	2753140.52	0.0140	0.0060
Venus	2826-05-12 04:48 G	2753366.58	2753366.70	2753366.85	0.0140	0.0109
Moon	2826-06-23 00:43 G	2753408.39	2753408.53	2753408.70	0.0140	0.0114
Earth	2826-06-23 03:21 G	2753408.48	2753408.64	2753408.81	0.0140	0.0107 *
Earth	2827-06-27 22:48 G	2753778.45	2753778.45	2753778.48	0.0139	0.0139
Moon	2827-06-28 00:57 G	2753778.47	2753778.54	2753778.62	0.0139	0.0132 *
Mars	2857-10-22 09:07 G	2764852.61	2764852.88	2764853.16	0.0134	0.0042
Mars	2859-09-22 03:07 G	2765552.40	2765552.63	2765552.88	0.0134	0.0076
Mercury	2860-06-05 11:16 G	2765809.94	2765809.97	2765810.01	0.0134	0.0129
Mercury	2860-09-01 14:38 G	2765898.04	2765898.11	2765898.19	0.0134	0.0111
Mercury	2860-11-28 17:45 G	2765986.15	2765986.24	2765986.34	0.0134	0.0094
Mercury	2861-02-24 21:07 G	2766074.27	2766074.38	2766074.49	0.0135	0.0076
Mercury	2861-05-24 00:14 G	2766162.39	2766162.51	2766162.63	0.0135	0.0059
Mercury	2861-08-20 03:21 G	2766250.52	2766250.64	2766250.77	0.0135	0.0041
Mercury	2861-11-16 06:43 G	2766338.64	2766338.78	2766338.91	0.0135	0.0024
Mercury	2862-02-12 09:50 G	2766426.77	2766426.91	2766427.04	0.0135	0.0007

Mercury	2862-05-11 12:57 G	2766514.91	2766515.04	2766515.17	0.0135	0.0011
Mercury	2862-08-07 16:04 G	2766603.04	2766603.17	2766603.30	0.0135	0.0028
Mercury	2862-11-03 19:11 G	2766691.18	2766691.30	2766691.43	0.0135	0.0046
Mercury	2863-01-30 22:19 G	2766779.31	2766779.43	2766779.55	0.0135	0.0063
Mercury	2863-04-29 01:26 G	2766867.46	2766867.56	2766867.67	0.0135	0.0081
Mercury	2863-07-26 04:33 G	2766955.60	2766955.69	2766955.78	0.0135	0.0098
Mercury	2863-10-22 07:26 G	2767043.75	2767043.81	2767043.89	0.0136	0.0116
Moon	2863-11-25 02:52 G	2767077.50	2767077.62	2767077.79	0.0136	0.0112
Earth	2863-11-25 06:43 G	2767077.66	2767077.78	2767077.94	0.0136	0.0112 *
Mercury	2864-01-18 10:33 G	2767131.93	2767131.94	2767131.98	0.0136	0.0133
Earth	2864-11-28 15:35 G	2767446.96	2767447.15	2767447.36	0.0136	0.0082
Moon	2864-11-28 18:57 G	2767447.11	2767447.29	2767447.49	0.0136	0.0086 *
Moon	2865-12-02 21:50 G	2767816.17	2767816.41	2767816.65	0.0136	0.0046
Earth	2865-12-03 01:11 G	2767816.32	2767816.55	2767816.79	0.0136	0.0053 *
Earth	2866-12-07 11:02 G	2768185.72	2768185.96	2768186.21	0.0137	0.0022
Moon	2866-12-07 14:24 G	2768185.86	2768186.10	2768186.35	0.0137	0.0029 *
Venus	2867-11-13 04:04 G	2768526.58	2768526.67	2768526.79	0.0137	0.0120
Moon	2867-12-11 18:28 G	2768555.02	2768555.27	2768555.52	0.0137	0.0015
Earth	2867-12-11 21:35 G	2768555.15	2768555.40	2768555.65	0.0137	0.0009 *
Venus	2868-06-26 11:45 G	2768752.81	2768752.99	2768753.18	0.0138	0.0075
Earth	2868-12-15 08:09 G	2768924.61	2768924.84	2768925.09	0.0138	0.0041
Moon	2868-12-15 11:31 G	2768924.75	2768924.98	2768925.23	0.0138	0.0036 *
Venus	2869-02-07 19:11 G	2768979.10	2768979.30	2768979.52	0.0138	0.0029
Venus	2869-09-22 03:07 G	2769205.42	2769205.63	2769205.85	0.0138	0.0018
Moon	2869-12-19 16:33 G	2769293.99	2769294.19	2769294.42	0.0138	0.0074
Earth	2869-12-19 19:55 G	2769294.11	2769294.33	2769294.54	0.0138	0.0072 *
Venus	2870-05-06 11:02 G	2769431.77	2769431.96	2769432.16	0.0139	0.0065
Venus	2870-12-18 18:57 G	2769658.17	2769658.29	2769658.42	0.0139	0.0112
Earth	2870-12-24 07:40 G	2769663.66	2769663.82	2769663.99	0.0139	0.0103
Moon	2870-12-24 10:33 G	2769663.79	2769663.94	2769664.10	0.0139	0.0106 *

Moon	2871-12-28 17:02 G	2770033.14	2770033.21	2770033.32	0.0139	0.0131
Earth	2871-12-28 20:24 G	2770033.29	2770033.35	2770033.41	0.0139	0.0135 *
Mars	2898-04-29 09:50 G	2779651.62	2779651.91	2779652.22	0.0145	0.0058
Mars	2900-04-05 11:31 G	2780357.81	2780357.98	2780358.20	0.0144	0.0116
Mercury	2901-03-27 07:40 G	2780713.73	2780713.82	2780713.93	0.0144	0.0120
Mercury	2901-06-23 15:50 G	2780802.01	2780802.16	2780802.30	0.0144	0.0090
Mercury	2901-09-19 23:31 G	2780890.32	2780890.48	2780890.66	0.0144	0.0061
Mercury	2901-12-17 07:40 G	2780978.64	2780978.82	2780979.00	0.0144	0.0031
Mercury	2902-03-15 15:35 G	2781066.96	2781067.15	2781067.34	0.0144	0.0002
Mercury	2902-06-11 23:31 G	2781155.30	2781155.48	2781155.67	0.0144	0.0029
Mercury	2902-09-08 07:26 G	2781243.65	2781243.81	2781243.99	0.0143	0.0059
Mercury	2902-12-05 15:35 G	2781332.01	2781332.15	2781332.31	0.0143	0.0089
Mercury	2903-03-03 23:45 G	2781420.39	2781420.49	2781420.60	0.0143	0.0118
Earth	2903-05-23 04:04 G	2781500.58	2781500.67	2781500.79	0.0143	0.0130
Moon	2903-05-23 07:11 G	2781500.72	2781500.80	2781500.91	0.0143	0.0132 *
Moon	2904-05-27 00:14 G	2781870.34	2781870.51	2781870.73	0.0143	0.0090
Earth	2904-05-27 04:19 G	2781870.50	2781870.68	2781870.88	0.0143	0.0095 *
Earth	2905-06-01 03:50 G	2782240.43	2782240.66	2782240.90	0.0142	0.0060
Moon	2905-06-01 07:11 G	2782240.58	2782240.80	2782241.04	0.0142	0.0067 *
Moon	2906-06-05 23:16 G	2782610.21	2782610.47	2782610.73	0.0142	0.0018
Earth	2906-06-06 02:52 G	2782610.37	2782610.62	2782610.88	0.0142	0.0024 *
Earth	2907-06-11 01:11 G	2782980.30	2782980.55	2782980.81	0.0141	0.0011
Moon	2907-06-11 05:02 G	2782980.45	2782980.71	2782980.96	0.0141	0.0006 *
Venus	2907-07-19 23:31 G	2783019.36	2783019.48	2783019.63	0.0141	0.0109
Venus	2908-03-02 09:50 G	2783245.72	2783245.91	2783246.11	0.0141	0.0059
Moon	2908-06-14 19:55 G	2783350.09	2783350.33	2783350.58	0.0141	0.0045
Earth	2908-06-14 23:02 G	2783350.23	2783350.46	2783350.71	0.0141	0.0046 *
Venus	2908-10-14 19:40 G	2783472.11	2783472.32	2783472.54	0.0141	0.0010
Venus	2909-05-29 05:31 G	2783698.52	2783698.73	2783698.94	0.0140	0.0040
Earth	2909-06-19 20:09 G	2783720.14	2783720.34	2783720.57	0.0140	0.0079

Moon	2909-06-19 23:16 G	2783720.29	2783720.47	2783720.69	0.0140	0.0084 *
Venus	2910-01-10 14:52 G	2783924.96	2783925.12	2783925.29	0.0140	0.0089
Moon	2910-06-24 13:55 G	2784089.93	2784090.08	2784090.27	0.0140	0.0106
Earth	2910-06-24 16:33 G	2784090.06	2784090.19	2784090.36	0.0140	0.0113 *
Venus	2910-08-25 00:00 G	2784151.48	2784151.50	2784151.55	0.0140	0.0138
Jupiter	2922-09-11 11:31 G	2788551.48	2788551.98	2788552.49	0.0134	0.0013
Mars	2940-07-18 09:35 G	2795071.76	2795071.90	2795072.09	0.0133	0.0110
Mars	2942-06-17 22:33 G	2795771.15	2795771.44	2795771.73	0.0134	0.0006
Mars	2944-05-17 18:00 G	2796471.17	2796471.25	2796471.37	0.0134	0.0126
Mercury	2944-06-26 19:11 G	2796511.25	2796511.30	2796511.36	0.0134	0.0121
Mercury	2944-09-22 22:33 G	2796599.35	2796599.44	2796599.52	0.0134	0.0104
Mercury	2944-12-20 01:26 G	2796687.47	2796687.56	2796687.67	0.0134	0.0087
Mercury	2945-03-18 04:48 G	2796775.59	2796775.70	2796775.82	0.0135	0.0069
Mercury	2945-06-14 07:55 G	2796863.71	2796863.83	2796863.96	0.0135	0.0052
Mercury	2945-09-10 11:16 G	2796951.84	2796951.97	2796952.10	0.0135	0.0034
Mercury	2945-12-07 14:24 G	2797039.97	2797040.10	2797040.23	0.0135	0.0017
Mercury	2946-03-05 17:31 G	2797128.10	2797128.23	2797128.37	0.0135	0.0002
Mercury	2946-06-01 20:38 G	2797216.23	2797216.36	2797216.50	0.0135	0.0019
Mercury	2946-08-28 23:45 G	2797304.37	2797304.49	2797304.62	0.0135	0.0036
Earth	2946-11-22 12:28 G	2797390.02	2797390.02	2797390.03	0.0135	0.0135
Mercury	2946-11-25 02:52 G	2797392.50	2797392.62	2797392.75	0.0135	0.0053
Mercury	2947-02-21 06:00 G	2797480.64	2797480.75	2797480.87	0.0135	0.0070
Mercury	2947-05-20 09:07 G	2797568.79	2797568.88	2797568.99	0.0135	0.0088
Mercury	2947-08-16 12:28 G	2797656.93	2797657.02	2797657.10	0.0135	0.0105
Mercury	2947-11-12 15:21 G	2797745.09	2797745.14	2797745.20	0.0135	0.0122
Moon	2947-11-26 17:16 G	2797759.08	2797759.22	2797759.39	0.0135	0.0108
Earth	2947-11-26 20:52 G	2797759.23	2797759.37	2797759.53	0.0135	0.0107 *
Earth	2948-11-30 05:31 G	2798128.54	2798128.73	2798128.95	0.0136	0.0078
Moon	2948-11-30 09:35 G	2798128.69	2798128.90	2798129.11	0.0136	0.0073 *
Moon	2949-12-04 11:31 G	2798497.76	2798497.98	2798498.23	0.0136	0.0053

Earth	2949-12-04 15:07 G	2798497.90	2798498.13	2798498.38	0.0136	0.0048	*
Earth	2950-12-09 01:11 G	2798867.30	2798867.55	2798867.80	0.0137	0.0017	
Moon	2950-12-09 04:33 G	2798867.44	2798867.69	2798867.94	0.0137	0.0009	*
Moon	2951-12-13 07:55 G	2799236.58	2799236.83	2799237.08	0.0137	0.0007	
Earth	2951-12-13 11:31 G	2799236.73	2799236.98	2799237.23	0.0137	0.0014	*
Venus	2952-02-25 22:19 G	2799311.29	2799311.43	2799311.60	0.0137	0.0093	
Venus	2952-10-09 06:14 G	2799537.56	2799537.76	2799537.97	0.0138	0.0047	
Earth	2952-12-16 21:50 G	2799606.19	2799606.41	2799606.66	0.0138	0.0046	
Moon	2952-12-17 01:11 G	2799606.32	2799606.55	2799606.79	0.0138	0.0050	*
Venus	2953-05-23 13:55 G	2799763.86	2799764.08	2799764.30	0.0138	0.0001	
Moon	2953-12-21 05:31 G	2799975.54	2799975.73	2799975.96	0.0138	0.0076	
Earth	2953-12-21 09:07 G	2799975.69	2799975.88	2799976.11	0.0138	0.0078	*
Venus	2954-01-04 21:35 G	2799990.19	2799990.40	2799990.60	0.0138	0.0046	
Venus	2954-08-19 05:16 G	2800216.57	2800216.72	2800216.89	0.0139	0.0093	
Earth	2954-12-25 20:52 G	2800345.24	2800345.37	2800345.54	0.0139	0.0109	
Moon	2954-12-26 00:28 G	2800345.37	2800345.52	2800345.68	0.0139	0.0107	*
Mars	2982-12-25 23:16 G	2810572.14	2810572.47	2810572.80	0.0145	0.0011	
Mercury	2985-01-18 07:55 G	2811326.80	2811326.83	2811326.88	0.0144	0.0139	
Mercury	2985-04-16 15:50 G	2811415.05	2811415.16	2811415.28	0.0144	0.0110	
Mercury	2985-07-13 23:31 G	2811503.34	2811503.48	2811503.65	0.0144	0.0081	
Mercury	2985-10-10 07:40 G	2811591.65	2811591.82	2811592.00	0.0144	0.0051	
Mercury	2986-01-06 15:35 G	2811679.97	2811680.15	2811680.34	0.0144	0.0022	
Mercury	2986-04-04 23:45 G	2811768.30	2811768.49	2811768.68	0.0144	0.0009	
Mercury	2986-07-02 07:40 G	2811856.64	2811856.82	2811857.00	0.0144	0.0038	
Mercury	2986-09-28 15:35 G	2811944.99	2811945.15	2811945.32	0.0143	0.0069	
Mercury	2986-12-25 23:45 G	2812033.36	2812033.49	2812033.63	0.0143	0.0098	
Mercury	2987-03-24 07:40 G	2812121.75	2812121.82	2812121.92	0.0143	0.0129	
Earth	2987-05-23 16:48 G	2812182.09	2812182.20	2812182.34	0.0143	0.0126	
Moon	2987-05-23 20:09 G	2812182.22	2812182.34	2812182.48	0.0143	0.0123	*
Moon	2988-05-27 13:55 G	2812551.91	2812552.08	2812552.28	0.0143	0.0095	

Earth	2988-05-27 17:02 G	2812552.02	2812552.21	2812552.42	0.0143	0.0090	*
Earth	2989-06-01 16:48 G	2812921.97	2812922.20	2812922.44	0.0142	0.0055	
Moon	2989-06-01 20:38 G	2812922.11	2812922.36	2812922.60	0.0142	0.0047	*
Moon	2990-06-06 12:14 G	2813291.77	2813292.01	2813292.27	0.0142	0.0027	
Earth	2990-06-06 16:04 G	2813291.91	2813292.17	2813292.42	0.0142	0.0019	*
Venus	2991-03-19 08:38 G	2813577.80	2813577.86	2813577.96	0.0141	0.0130	
Earth	2991-06-11 14:24 G	2813661.84	2813662.10	2813662.36	0.0141	0.0016	
Moon	2991-06-11 18:00 G	2813662.00	2813662.25	2813662.50	0.0141	0.0019	*
Venus	2991-10-31 18:57 G	2813804.12	2813804.29	2813804.48	0.0141	0.0080	
Venus	2992-06-14 05:02 G	2814030.50	2814030.71	2814030.93	0.0141	0.0030	
Moon	2992-06-15 08:38 G	2814031.62	2814031.86	2814032.11	0.0141	0.0050	
Earth	2992-06-15 12:14 G	2814031.78	2814032.01	2814032.26	0.0141	0.0051	*
Venus	2993-01-26 14:52 G	2814256.91	2814257.12	2814257.34	0.0140	0.0020	
Earth	2993-06-20 09:35 G	2814401.70	2814401.90	2814402.11	0.0140	0.0085	
Moon	2993-06-20 12:43 G	2814401.83	2814402.03	2814402.25	0.0140	0.0081	*
Venus	2993-09-10 00:28 G	2814483.34	2814483.52	2814483.71	0.0140	0.0069	
Venus	2994-04-24 09:50 G	2814709.81	2814709.91	2814710.04	0.0140	0.0118	
Moon	2994-06-25 02:24 G	2814771.51	2814771.60	2814771.74	0.0140	0.0125	
Earth	2994-06-25 05:45 G	2814771.62	2814771.74	2814771.90	0.0140	0.0118	*

4TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 4th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mars	3025-03-13 21:50 G	2825990.17	2825990.41	2825990.68	0.0133	0.0063
Mars	3027-02-11 12:14 G	2826689.75	2826690.01	2826690.29	0.0134	0.0054
Mercury	3028-04-20 23:45 G	2827124.47	2827124.49	2827124.52	0.0134	0.0131
Mercury	3028-07-18 02:52 G	2827212.56	2827212.62	2827212.70	0.0134	0.0114
Mercury	3028-10-14 06:14 G	2827300.67	2827300.76	2827300.86	0.0134	0.0097
Mercury	3029-01-10 09:21 G	2827388.79	2827388.89	2827389.00	0.0134	0.0079
Mercury	3029-04-08 12:43 G	2827476.91	2827477.03	2827477.15	0.0134	0.0062
Mercury	3029-07-05 15:50 G	2827565.04	2827565.16	2827565.29	0.0135	0.0044
Mercury	3029-10-01 18:57 G	2827653.16	2827653.29	2827653.43	0.0135	0.0027
Mercury	3029-12-28 22:19 G	2827741.29	2827741.43	2827741.56	0.0135	0.0010
Mercury	3030-03-27 01:26 G	2827829.42	2827829.56	2827829.69	0.0135	0.0008
Mercury	3030-06-23 04:33 G	2827917.56	2827917.69	2827917.82	0.0135	0.0025
Mercury	3030-09-19 07:40 G	2828005.69	2828005.82	2828005.95	0.0135	0.0043
Earth	3030-11-24 02:24 G	2828071.55	2828071.60	2828071.68	0.0135	0.0130
Moon	3030-11-24 06:00 G	2828071.69	2828071.75	2828071.84	0.0135	0.0128
Mercury	3030-12-16 10:48 G	2828093.83	2828093.95	2828094.07	0.0135	0.0060
Mercury	3031-03-14 13:55 G	2828181.97	2828182.08	2828182.19	0.0135	0.0077
Mercury	3031-06-10 17:02 G	2828270.12	2828270.21	2828270.31	0.0135	0.0095
Mercury	3031-09-06 20:09 G	2828358.27	2828358.34	2828358.42	0.0135	0.0112
Moon	3031-11-28 07:11 G	2828440.66	2828440.80	2828440.98	0.0135	0.0102
Earth	3031-11-28 11:02 G	2828440.81	2828440.96	2828441.14	0.0135	0.0102 *
Mercury	3031-12-03 23:02 G	2828446.44	2828446.46	2828446.51	0.0135	0.0130
Earth	3032-12-01 19:40 G	2828810.12	2828810.32	2828810.55	0.0136	0.0073
Moon	3032-12-01 23:02 G	2828810.27	2828810.46	2828810.69	0.0136	0.0076 *
Moon	3033-12-06 01:26 G	2829179.33	2829179.56	2829179.82	0.0136	0.0037
Earth	3033-12-06 05:16 G	2829179.49	2829179.72	2829179.97	0.0136	0.0043 *
Earth	3034-12-10 15:07 G	2829548.88	2829549.13	2829549.38	0.0137	0.0012
Moon	3034-12-10 18:43 G	2829549.03	2829549.28	2829549.53	0.0137	0.0019 *
Venus	3035-10-27 09:21 G	2829869.78	2829869.89	2829870.03	0.0137	0.0111
Moon	3035-12-14 21:35 G	2829918.16	2829918.40	2829918.66	0.0137	0.0026

Earth	3035-12-15 01:11 G	2829918.30	2829918.55	2829918.80	0.0137	0.0019 *
Venus	3036-06-09 16:48 G	2830096.02	2830096.20	2830096.40	0.0137	0.0066
Earth	3036-12-18 11:31 G	2830287.76	2830287.98	2830288.23	0.0138	0.0051
Moon	3036-12-18 15:21 G	2830287.91	2830288.14	2830288.38	0.0138	0.0045 *
Venus	3037-01-22 00:14 G	2830322.30	2830322.51	2830322.73	0.0138	0.0020
Venus	3037-09-05 07:55 G	2830548.62	2830548.83	2830549.05	0.0138	0.0027
Moon	3037-12-22 19:11 G	2830657.12	2830657.30	2830657.52	0.0138	0.0085
Earth	3037-12-22 22:33 G	2830657.26	2830657.44	2830657.66	0.0138	0.0082 *
Venus	3038-04-19 15:50 G	2830774.98	2830775.16	2830775.34	0.0138	0.0074
Venus	3038-12-01 23:31 G	2831001.39	2831001.48	2831001.60	0.0139	0.0121
Earth	3038-12-27 10:33 G	2831026.80	2831026.94	2831027.09	0.0139	0.0113
Moon	3038-12-27 13:40 G	2831026.95	2831027.07	2831027.22	0.0139	0.0116 *
Mars	3065-09-15 19:26 G	2840786.07	2840786.31	2840786.55	0.0145	0.0100
Mars	3067-08-23 03:07 G	2841492.36	2841492.63	2841492.92	0.0145	0.0075
Mercury	3069-02-08 14:52 G	2842028.06	2842028.12	2842028.20	0.0144	0.0134
Mercury	3069-05-07 22:48 G	2842116.33	2842116.45	2842116.59	0.0144	0.0104
Mercury	3069-08-04 06:57 G	2842204.63	2842204.79	2842204.95	0.0144	0.0074
Mercury	3069-10-31 14:38 G	2842292.94	2842293.11	2842293.30	0.0144	0.0045
Mercury	3070-01-27 22:48 G	2842381.26	2842381.45	2842381.64	0.0144	0.0015
Mercury	3070-04-26 06:43 G	2842469.59	2842469.78	2842469.97	0.0144	0.0015
Mercury	3070-07-23 14:52 G	2842557.94	2842558.12	2842558.30	0.0144	0.0045
Mercury	3070-10-19 22:48 G	2842646.29	2842646.45	2842646.62	0.0143	0.0075
Mercury	3071-01-16 06:57 G	2842734.66	2842734.79	2842734.92	0.0143	0.0105
Mercury	3071-04-14 14:38 G	2842823.07	2842823.11	2842823.19	0.0143	0.0136
Earth	3071-05-25 02:24 G	2842863.48	2842863.60	2842863.75	0.0143	0.0121
Moon	3071-05-25 04:48 G	2842863.58	2842863.70	2842863.85	0.0143	0.0122 *
Moon	3072-05-28 23:45 G	2843233.29	2843233.49	2843233.71	0.0143	0.0081
Earth	3072-05-29 02:52 G	2843233.43	2843233.62	2843233.83	0.0143	0.0086 *
Earth	3073-06-03 02:38 G	2843603.38	2843603.61	2843603.86	0.0142	0.0050
Moon	3073-06-03 05:45 G	2843603.51	2843603.74	2843603.99	0.0142	0.0057 *

Moon	3074-06-07 22:19 G	2843973.18	2843973.43	2843973.69	0.0142	0.0008
Earth	3074-06-08 01:55 G	2843973.33	2843973.58	2843973.84	0.0142	0.0015 *
Earth	3075-06-13 00:28 G	2844343.27	2844343.52	2844343.78	0.0141	0.0021
Moon	3075-06-13 04:19 G	2844343.42	2844343.68	2844343.94	0.0141	0.0015 *
Venus	3075-07-02 02:24 G	2844362.47	2844362.60	2844362.76	0.0141	0.0103
Venus	3076-02-13 12:28 G	2844588.83	2844589.02	2844589.24	0.0141	0.0053
Moon	3076-06-16 18:57 G	2844713.06	2844713.29	2844713.54	0.0141	0.0056
Earth	3076-06-16 22:48 G	2844713.21	2844713.45	2844713.69	0.0141	0.0055 *
Venus	3076-09-26 22:48 G	2844815.23	2844815.45	2844815.67	0.0141	0.0003
Venus	3077-05-11 08:24 G	2845041.65	2845041.85	2845042.06	0.0140	0.0047
Earth	3077-06-21 19:26 G	2845083.13	2845083.31	2845083.53	0.0140	0.0090
Moon	3077-06-21 23:16 G	2845083.30	2845083.47	2845083.68	0.0140	0.0093 *
Venus	3077-12-23 17:45 G	2845268.10	2845268.24	2845268.41	0.0140	0.0096
Moon	3078-06-26 12:57 G	2845452.91	2845453.04	2845453.20	0.0140	0.0116
Earth	3078-06-26 16:19 G	2845453.07	2845453.18	2845453.31	0.0140	0.0122 *
Mars	3107-12-09 00:28 G	2856209.47	2856209.52	2856209.58	0.0133	0.0130
Mars	3109-11-07 10:33 G	2856908.66	2856908.94	2856909.23	0.0134	0.0017
Mars	3111-10-08 02:09 G	2857608.42	2857608.59	2857608.80	0.0134	0.0102
Mercury	3112-05-12 07:40 G	2857825.77	2857825.82	2857825.87	0.0134	0.0124
Mercury	3112-08-08 10:48 G	2857913.88	2857913.95	2857914.04	0.0134	0.0107
Mercury	3112-11-04 14:09 G	2858001.99	2858002.09	2858002.19	0.0134	0.0090
Mercury	3113-01-31 17:16 G	2858090.11	2858090.22	2858090.34	0.0134	0.0072
Mercury	3113-04-29 20:38 G	2858178.23	2858178.36	2858178.48	0.0134	0.0055
Mercury	3113-07-26 23:45 G	2858266.36	2858266.49	2858266.62	0.0135	0.0037
Mercury	3113-10-23 02:52 G	2858354.49	2858354.62	2858354.75	0.0135	0.0020
Mercury	3114-01-19 06:00 G	2858442.62	2858442.75	2858442.89	0.0135	0.0004
Mercury	3114-04-17 09:07 G	2858530.75	2858530.88	2858531.02	0.0135	0.0016
Mercury	3114-07-14 12:14 G	2858618.89	2858619.01	2858619.15	0.0135	0.0033
Mercury	3114-10-10 15:21 G	2858707.02	2858707.14	2858707.27	0.0135	0.0050
Earth	3114-11-25 16:33 G	2858753.12	2858753.19	2858753.31	0.0135	0.0125

Moon	3114-11-25 20:24 G	2858753.28	2858753.35	2858753.44	0.0135	0.0128 *
Mercury	3115-01-06 18:28 G	2858795.16	2858795.27	2858795.39	0.0135	0.0067
Mercury	3115-04-04 21:50 G	2858883.31	2858883.41	2858883.51	0.0135	0.0084
Mercury	3115-07-02 00:57 G	2858971.45	2858971.54	2858971.63	0.0135	0.0101
Mercury	3115-09-28 04:04 G	2859059.61	2859059.67	2859059.73	0.0135	0.0119
Moon	3115-11-29 21:50 G	2859122.25	2859122.41	2859122.60	0.0135	0.0097
Earth	3115-11-30 01:11 G	2859122.39	2859122.55	2859122.74	0.0135	0.0097 *
Earth	3116-12-03 10:04 G	2859491.71	2859491.92	2859492.15	0.0136	0.0067
Moon	3116-12-03 13:55 G	2859491.86	2859492.08	2859492.31	0.0136	0.0063 *
Moon	3117-12-07 16:04 G	2859860.94	2859861.17	2859861.42	0.0136	0.0042
Earth	3117-12-07 19:40 G	2859861.08	2859861.32	2859861.56	0.0136	0.0037 *
Earth	3118-12-12 05:02 G	2860230.46	2860230.71	2860230.97	0.0137	0.0007
Moon	3118-12-12 08:52 G	2860230.61	2860230.87	2860231.12	0.0137	0.0002 *
Venus	3119-06-27 20:24 G	2860428.30	2860428.35	2860428.44	0.0137	0.0129
Moon	3119-12-16 11:45 G	2860599.74	2860599.99	2860600.24	0.0137	0.0018
Earth	3119-12-16 15:07 G	2860599.89	2860600.13	2860600.39	0.0137	0.0026 *
Venus	3120-02-09 03:35 G	2860654.50	2860654.65	2860654.84	0.0137	0.0084
Venus	3120-09-22 11:16 G	2860880.77	2860880.97	2860881.19	0.0138	0.0038
Earth	3120-12-20 01:26 G	2860969.34	2860969.56	2860969.80	0.0138	0.0056
Moon	3120-12-20 05:02 G	2860969.49	2860969.71	2860969.94	0.0138	0.0061 *
Venus	3121-05-06 18:57 G	2861107.07	2861107.29	2861107.51	0.0138	0.0008
Venus	3121-12-19 02:38 G	2861333.41	2861333.61	2861333.81	0.0138	0.0055
Moon	3121-12-24 08:38 G	2861338.68	2861338.86	2861339.08	0.0138	0.0086
Earth	3121-12-24 12:43 G	2861338.84	2861339.03	2861339.23	0.0138	0.0088 *
Venus	3122-08-02 10:04 G	2861559.78	2861559.92	2861560.08	0.0138	0.0101
Earth	3122-12-29 00:14 G	2861708.40	2861708.51	2861708.65	0.0139	0.0119
Moon	3122-12-29 03:50 G	2861708.54	2861708.66	2861708.80	0.0139	0.0118 *
Mars	3150-05-14 08:24 G	2871706.53	2871706.85	2871707.17	0.0145	0.0032
Mars	3152-04-19 11:45 G	2872412.94	2872412.99	2872413.10	0.0144	0.0140
Mercury	3153-03-01 23:02 G	2872729.37	2872729.46	2872729.55	0.0144	0.0124

Mercury	3153-05-29 06:43 G	2872817.65	2872817.78	2872817.93	0.0144	0.0095
Mercury	3153-08-25 14:38 G	2872905.95	2872906.11	2872906.28	0.0144	0.0066
Mercury	3153-11-21 22:33 G	2872994.26	2872994.44	2872994.63	0.0144	0.0036
Mercury	3154-02-18 06:43 G	2873082.59	2873082.78	2873082.97	0.0144	0.0006
Mercury	3154-05-17 14:38 G	2873170.93	2873171.11	2873171.30	0.0144	0.0024
Mercury	3154-08-13 22:33 G	2873259.27	2873259.44	2873259.62	0.0144	0.0054
Mercury	3154-11-10 06:43 G	2873347.63	2873347.78	2873347.94	0.0143	0.0084
Mercury	3155-02-06 14:52 G	2873436.01	2873436.12	2873436.24	0.0143	0.0114
Earth	3155-05-26 14:09 G	2873544.97	2873545.09	2873545.27	0.0143	0.0117
Moon	3155-05-26 16:33 G	2873545.06	2873545.19	2873545.37	0.0143	0.0115 *
Moon	3156-05-30 12:43 G	2873914.83	2873915.03	2873915.24	0.0143	0.0084
Earth	3156-05-30 15:07 G	2873914.92	2873915.13	2873915.34	0.0143	0.0080 *
Earth	3157-06-04 14:38 G	2874284.87	2874285.11	2874285.36	0.0142	0.0045
Moon	3157-06-04 17:45 G	2874285.00	2874285.24	2874285.51	0.0142	0.0038 *
Moon	3158-06-09 10:48 G	2874654.71	2874654.95	2874655.21	0.0142	0.0017
Earth	3158-06-09 14:09 G	2874654.83	2874655.09	2874655.34	0.0142	0.0009 *
Venus	3159-03-02 10:48 G	2874920.87	2874920.95	2874921.07	0.0141	0.0126
Earth	3159-06-14 12:28 G	2875024.77	2875025.02	2875025.28	0.0141	0.0027
Moon	3159-06-14 16:04 G	2875024.92	2875025.17	2875025.43	0.0141	0.0031 *
Venus	3159-10-14 21:07 G	2875147.21	2875147.38	2875147.58	0.0141	0.0075
Venus	3160-05-28 07:26 G	2875373.60	2875373.81	2875374.03	0.0141	0.0025
Moon	3160-06-18 06:57 G	2875394.56	2875394.79	2875395.02	0.0141	0.0059
Earth	3160-06-18 10:33 G	2875394.72	2875394.94	2875395.18	0.0141	0.0061 *
Venus	3161-01-09 17:02 G	2875600.00	2875600.21	2875600.43	0.0141	0.0026
Earth	3161-06-23 07:26 G	2875764.64	2875764.81	2875765.02	0.0140	0.0096
Moon	3161-06-23 11:16 G	2875764.79	2875764.97	2875765.17	0.0140	0.0092 *
Venus	3161-08-24 02:52 G	2875826.44	2875826.62	2875826.81	0.0140	0.0074
Venus	3162-04-07 12:14 G	2876052.92	2876053.01	2876053.12	0.0140	0.0123
Moon	3162-06-28 00:28 G	2876134.46	2876134.52	2876134.60	0.0140	0.0134
Earth	3162-06-28 03:50 G	2876134.58	2876134.66	2876134.79	0.0140	0.0128 *

Mars	3192-08-02 12:00 G	2887127.78	2887128.00	2887128.22	0.0133	0.0085
Mars	3194-07-02 22:48 G	2887827.17	2887827.45	2887827.74	0.0134	0.0031
Mercury	3196-06-01 15:21 G	2888527.09	2888527.14	2888527.21	0.0134	0.0118
Mercury	3196-08-28 18:28 G	2888615.20	2888615.27	2888615.37	0.0134	0.0101
Mercury	3196-11-24 21:50 G	2888703.31	2888703.41	2888703.52	0.0134	0.0083
Mercury	3197-02-21 00:57 G	2888791.43	2888791.54	2888791.67	0.0134	0.0066
Mercury	3197-05-20 04:19 G	2888879.56	2888879.68	2888879.81	0.0135	0.0048
Mercury	3197-08-16 07:26 G	2888967.69	2888967.81	2888967.95	0.0135	0.0031
Mercury	3197-11-12 10:48 G	2889055.82	2889055.95	2889056.08	0.0135	0.0013
Mercury	3198-02-08 13:55 G	2889143.95	2889144.08	2889144.22	0.0135	0.0005
Mercury	3198-05-07 17:02 G	2889232.08	2889232.21	2889232.35	0.0135	0.0022
Mercury	3198-08-03 20:09 G	2889320.22	2889320.34	2889320.47	0.0135	0.0040
Mercury	3198-10-30 23:16 G	2889408.36	2889408.47	2889408.60	0.0135	0.0057
Earth	3198-11-26 07:26 G	2889434.70	2889434.81	2889434.94	0.0135	0.0119
Moon	3198-11-26 10:33 G	2889434.83	2889434.94	2889435.08	0.0135	0.0117 *
Mercury	3199-01-27 02:24 G	2889496.50	2889496.60	2889496.72	0.0135	0.0074
Mercury	3199-04-25 05:31 G	2889584.64	2889584.73	2889584.83	0.0135	0.0092
Mercury	3199-07-22 08:52 G	2889672.79	2889672.87	2889672.95	0.0135	0.0109
Mercury	3199-10-18 12:00 G	2889760.95	2889761.00	2889761.04	0.0135	0.0126
Moon	3199-11-30 12:28 G	2889803.85	2889804.02	2889804.22	0.0135	0.0092
Earth	3199-11-30 16:04 G	2889803.99	2889804.17	2889804.36	0.0135	0.0091 *
Earth	3200-12-04 00:43 G	2890173.31	2890173.53	2890173.76	0.0136	0.0061
Moon	3200-12-04 03:50 G	2890173.45	2890173.66	2890173.90	0.0136	0.0064 *
Moon	3201-12-08 06:28 G	2890542.53	2890542.77	2890543.02	0.0136	0.0025
Earth	3201-12-08 09:50 G	2890542.68	2890542.91	2890543.17	0.0136	0.0032 *
Earth	3202-12-12 19:40 G	2890912.07	2890912.32	2890912.57	0.0137	0.0001
Moon	3202-12-12 23:02 G	2890912.21	2890912.46	2890912.71	0.0137	0.0007 *
Venus	3203-10-09 15:07 G	2891213.00	2891213.13	2891213.29	0.0137	0.0102
Moon	3203-12-17 02:09 G	2891281.35	2891281.59	2891281.83	0.0137	0.0037
Earth	3203-12-17 05:16 G	2891281.49	2891281.72	2891281.98	0.0137	0.0032 *

Venus	3204-05-22 22:33 G	2891439.25	2891439.44	2891439.64	0.0137	0.0056
Earth	3204-12-20 16:04 G	2891650.95	2891651.17	2891651.39	0.0138	0.0062
Moon	3204-12-20 19:40 G	2891651.09	2891651.32	2891651.55	0.0138	0.0056 *
Venus	3205-01-04 06:00 G	2891665.53	2891665.75	2891665.97	0.0138	0.0010
Venus	3205-08-18 13:26 G	2891891.86	2891892.06	2891892.27	0.0138	0.0036
Moon	3205-12-24 23:31 G	2892020.31	2892020.48	2892020.67	0.0138	0.0096
Earth	3205-12-25 02:52 G	2892020.45	2892020.62	2892020.82	0.0138	0.0093 *
Venus	3206-04-01 21:07 G	2892118.21	2892118.38	2892118.56	0.0138	0.0083
Venus	3206-11-14 04:48 G	2892344.64	2892344.70	2892344.79	0.0139	0.0130
Earth	3206-12-29 14:09 G	2892390.01	2892390.09	2892390.23	0.0139	0.0125
Moon	3206-12-29 18:14 G	2892390.17	2892390.26	2892390.37	0.0139	0.0126 *
Mars	3233-02-01 05:16 G	2901920.66	2901920.72	2901920.80	0.0145	0.0142
Mars	3235-01-08 19:11 G	2902626.99	2902627.30	2902627.63	0.0145	0.0034
Mercury	3237-03-22 06:43 G	2903430.67	2903430.78	2903430.89	0.0144	0.0116
Mercury	3237-06-18 14:24 G	2903518.96	2903519.10	2903519.25	0.0144	0.0087
Mercury	3237-09-14 22:19 G	2903607.26	2903607.43	2903607.61	0.0144	0.0058
Mercury	3237-12-12 06:14 G	2903695.58	2903695.76	2903695.95	0.0144	0.0028
Mercury	3238-03-10 14:24 G	2903783.91	2903784.10	2903784.29	0.0144	0.0003
Mercury	3238-06-06 22:19 G	2903872.25	2903872.43	2903872.61	0.0144	0.0032
Mercury	3238-09-03 06:14 G	2903960.59	2903960.76	2903960.94	0.0143	0.0062
Mercury	3238-11-30 14:24 G	2904048.96	2904049.10	2904049.25	0.0143	0.0092
Mercury	3239-02-26 22:19 G	2904137.34	2904137.43	2904137.54	0.0143	0.0122
Earth	3239-05-27 01:55 G	2904226.42	2904226.58	2904226.74	0.0143	0.0111
Moon	3239-05-27 02:52 G	2904226.47	2904226.62	2904226.81	0.0143	0.0110 *
Moon	3240-05-30 23:45 G	2904596.28	2904596.49	2904596.72	0.0143	0.0071
Earth	3240-05-31 02:09 G	2904596.38	2904596.59	2904596.81	0.0143	0.0075 *
Earth	3241-06-05 01:40 G	2904966.33	2904966.57	2904966.83	0.0142	0.0039
Moon	3241-06-05 04:19 G	2904966.43	2904966.68	2904966.93	0.0142	0.0046 *
Moon	3242-06-09 21:50 G	2905336.16	2905336.41	2905336.66	0.0142	0.0003
Earth	3242-06-10 00:57 G	2905336.28	2905336.54	2905336.80	0.0142	0.0004 *

Venus	3243-06-14 05:16 G	2905705.56	2905705.72	2905705.88	0.0141	0.0098
Earth	3243-06-14 23:31 G	2905706.23	2905706.48	2905706.73	0.0141	0.0032
Moon	3243-06-15 02:52 G	2905706.36	2905706.62	2905706.88	0.0141	0.0026 *
Venus	3244-01-26 15:07 G	2905931.93	2905932.13	2905932.34	0.0141	0.0048
Moon	3244-06-18 17:45 G	2906076.03	2906076.24	2906076.48	0.0141	0.0068
Earth	3244-06-18 21:21 G	2906076.17	2906076.39	2906076.63	0.0141	0.0066 *
Venus	3244-09-09 01:11 G	2906158.33	2906158.55	2906158.77	0.0141	0.0002
Venus	3245-04-23 11:02 G	2906384.76	2906384.96	2906385.16	0.0140	0.0052
Earth	3245-06-23 18:00 G	2906446.09	2906446.25	2906446.45	0.0140	0.0101
Moon	3245-06-23 21:50 G	2906446.26	2906446.41	2906446.61	0.0140	0.0104 *
Venus	3245-12-05 20:09 G	2906611.21	2906611.34	2906611.51	0.0140	0.0102
Moon	3246-06-28 11:16 G	2906815.88	2906815.97	2906816.09	0.0140	0.0127
Earth	3246-06-28 14:38 G	2906816.05	2906816.11	2906816.21	0.0140	0.0133 *
Mars	3277-03-27 21:21 G	2918046.13	2918046.39	2918046.68	0.0133	0.0039
Mars	3279-02-25 10:33 G	2918745.72	2918745.94	2918746.19	0.0134	0.0079
Mercury	3280-03-25 19:55 G	2919140.30	2919140.33	2919140.38	0.0134	0.0128
Mercury	3280-06-21 23:16 G	2919228.40	2919228.47	2919228.55	0.0134	0.0110
Mercury	3280-09-18 02:24 G	2919316.51	2919316.60	2919316.71	0.0134	0.0093
Mercury	3280-12-15 05:45 G	2919404.63	2919404.74	2919404.86	0.0134	0.0076
Mercury	3281-03-13 08:52 G	2919492.76	2919492.87	2919493.00	0.0135	0.0058
Mercury	3281-06-09 12:14 G	2919580.88	2919581.01	2919581.14	0.0135	0.0041
Mercury	3281-09-05 15:21 G	2919669.01	2919669.14	2919669.28	0.0135	0.0024
Mercury	3281-12-02 18:43 G	2919757.14	2919757.28	2919757.41	0.0135	0.0006
Mercury	3282-02-28 21:50 G	2919845.28	2919845.41	2919845.54	0.0135	0.0012
Mercury	3282-05-28 00:57 G	2919933.41	2919933.54	2919933.67	0.0135	0.0029
Mercury	3282-08-24 04:04 G	2920021.55	2920021.67	2920021.80	0.0135	0.0046
Mercury	3282-11-20 07:11 G	2920109.69	2920109.80	2920109.92	0.0135	0.0064
Earth	3282-11-26 21:21 G	2920116.28	2920116.39	2920116.55	0.0135	0.0114
Moon	3282-11-27 00:14 G	2920116.41	2920116.51	2920116.66	0.0135	0.0118 *
Mercury	3283-02-16 10:19 G	2920197.83	2920197.93	2920198.04	0.0135	0.0081

Mercury	3283-05-15 13:26 G	2920285.97	2920286.06	2920286.15	0.0135	0.0098
Mercury	3283-08-11 16:33 G	2920374.13	2920374.19	2920374.26	0.0135	0.0116
Mercury	3283-11-07 19:40 G	2920462.30	2920462.32	2920462.35	0.0135	0.0133
Moon	3283-12-01 03:07 G	2920485.45	2920485.63	2920485.83	0.0135	0.0085
Earth	3283-12-01 06:14 G	2920485.57	2920485.76	2920485.96	0.0135	0.0085 *
Earth	3284-12-04 14:52 G	2920854.89	2920855.12	2920855.35	0.0136	0.0055
Moon	3284-12-04 18:14 G	2920855.03	2920855.26	2920855.50	0.0136	0.0052 *
Moon	3285-12-08 21:07 G	2921224.14	2921224.38	2921224.62	0.0136	0.0030
Earth	3285-12-09 00:00 G	2921224.26	2921224.50	2921224.76	0.0136	0.0025 *
Earth	3286-12-13 09:35 G	2921593.65	2921593.90	2921594.15	0.0137	0.0006
Moon	3286-12-13 12:57 G	2921593.79	2921594.04	2921594.30	0.0137	0.0013 *
Venus	3287-06-09 02:09 G	2921771.50	2921771.59	2921771.71	0.0137	0.0120
Moon	3287-12-17 16:19 G	2921962.94	2921963.18	2921963.42	0.0137	0.0029
Earth	3287-12-17 19:26 G	2921963.08	2921963.31	2921963.56	0.0137	0.0037 *
Venus	3288-01-21 09:21 G	2921997.72	2921997.89	2921998.08	0.0137	0.0075
Venus	3288-09-03 16:48 G	2922224.00	2922224.20	2922224.42	0.0138	0.0030
Earth	3288-12-21 05:45 G	2922332.53	2922332.74	2922332.97	0.0138	0.0068
Moon	3288-12-21 09:21 G	2922332.68	2922332.89	2922333.11	0.0138	0.0073 *
Venus	3289-04-18 00:28 G	2922450.31	2922450.52	2922450.74	0.0138	0.0017
Venus	3289-11-30 08:09 G	2922676.65	2922676.84	2922677.03	0.0138	0.0063
Moon	3289-12-25 13:11 G	2922701.89	2922702.05	2922702.24	0.0138	0.0097
Earth	3289-12-25 17:02 G	2922702.05	2922702.21	2922702.39	0.0138	0.0099 *
Venus	3290-07-14 15:35 G	2922903.03	2922903.15	2922903.29	0.0138	0.0111
Earth	3290-12-30 05:02 G	2923071.62	2923071.71	2923071.79	0.0139	0.0130
Moon	3290-12-30 08:09 G	2923071.77	2923071.84	2923071.94	0.0139	0.0130 *
Mars	3317-09-30 00:28 G	2932841.26	2932841.52	2932841.83	0.0145	0.0071
Mars	3319-09-06 10:19 G	2933547.72	2933547.93	2933548.18	0.0145	0.0103
Mercury	3321-01-14 07:11 G	2934043.75	2934043.80	2934043.88	0.0144	0.0134
Mercury	3321-04-12 15:07 G	2934132.01	2934132.13	2934132.26	0.0144	0.0105
Mercury	3321-07-09 22:48 G	2934220.31	2934220.45	2934220.62	0.0144	0.0076

Mercury	3321-10-06 06:57 G	2934308.62	2934308.79	2934308.97	0.0144	0.0046
Mercury	3322-01-02 14:52 G	2934396.94	2934397.12	2934397.31	0.0144	0.0017
Mercury	3322-03-31 23:02 G	2934485.27	2934485.46	2934485.64	0.0144	0.0014
Moon	3322-05-23 14:52 G	2934538.07	2934538.12	2934538.22	0.0144	0.0137
Earth	3322-05-23 15:07 G	2934538.10	2934538.13	2934538.20	0.0144	0.0141 *
Mercury	3322-06-28 06:43 G	2934573.61	2934573.78	2934573.97	0.0144	0.0044
Mercury	3322-09-24 14:52 G	2934661.96	2934662.12	2934662.29	0.0143	0.0073
Mercury	3322-12-21 22:48 G	2934750.33	2934750.45	2934750.59	0.0143	0.0104
Mercury	3323-03-20 06:57 G	2934838.73	2934838.79	2934838.87	0.0143	0.0133
Earth	3323-05-28 15:50 G	2934908.01	2934908.16	2934908.35	0.0143	0.0105
Moon	3323-05-28 17:02 G	2934908.05	2934908.21	2934908.41	0.0143	0.0106 *
Moon	3324-06-01 14:52 G	2935277.92	2935278.12	2935278.35	0.0143	0.0073
Earth	3324-06-01 16:19 G	2935277.96	2935278.18	2935278.41	0.0143	0.0069 *
Earth	3325-06-06 15:50 G	2935647.91	2935648.16	2935648.41	0.0142	0.0033
Moon	3325-06-06 18:14 G	2935648.01	2935648.26	2935648.53	0.0142	0.0026 *
Moon	3326-06-11 12:28 G	2936017.78	2936018.02	2936018.28	0.0142	0.0006
Earth	3326-06-11 14:52 G	2936017.87	2936018.12	2936018.38	0.0142	0.0004 *
Venus	3327-02-12 14:38 G	2936264.00	2936264.11	2936264.24	0.0142	0.0119
Earth	3327-06-16 13:26 G	2936387.81	2936388.06	2936388.31	0.0141	0.0038
Moon	3327-06-16 16:19 G	2936387.94	2936388.18	2936388.44	0.0141	0.0043 *
Venus	3327-09-27 00:57 G	2936490.35	2936490.54	2936490.73	0.0141	0.0068
Venus	3328-05-10 11:02 G	2936716.74	2936716.96	2936717.18	0.0141	0.0018
Moon	3328-06-20 07:40 G	2936757.60	2936757.82	2936758.04	0.0141	0.0070
Earth	3328-06-20 10:48 G	2936757.75	2936757.95	2936758.19	0.0141	0.0073 *
Venus	3328-12-22 20:38 G	2936943.15	2936943.36	2936943.58	0.0141	0.0032
Earth	3329-06-25 07:40 G	2937127.67	2937127.82	2937128.01	0.0140	0.0107
Moon	3329-06-25 11:16 G	2937127.81	2937127.97	2937128.16	0.0140	0.0104 *
Venus	3329-08-06 06:14 G	2937169.59	2937169.76	2937169.95	0.0140	0.0081
Venus	3330-03-20 15:50 G	2937396.08	2937396.16	2937396.24	0.0140	0.0129
Earth	3330-06-30 04:04 G	2937497.66	2937497.67	2937497.72	0.0140	0.0139

Mars	3359-12-22 23:16 G	2948265.30	2948265.47	2948265.66	0.0133	0.0105
Mars	3361-11-21 08:24 G	2948964.57	2948964.85	2948965.15	0.0134	0.0010
Mars	3363-10-22 01:11 G	2949664.48	2949664.55	2949664.66	0.0134	0.0128
Mercury	3364-04-16 03:35 G	2949841.61	2949841.65	2949841.72	0.0134	0.0122
Mercury	3364-07-13 06:57 G	2949929.71	2949929.79	2949929.88	0.0134	0.0104
Mercury	3364-10-09 10:19 G	2950017.83	2950017.93	2950018.04	0.0134	0.0086
Mercury	3365-01-05 13:40 G	2950105.95	2950106.07	2950106.19	0.0134	0.0068
Mercury	3365-04-03 16:48 G	2950194.08	2950194.20	2950194.33	0.0135	0.0051
Mercury	3365-06-30 19:55 G	2950282.21	2950282.33	2950282.47	0.0135	0.0034
Mercury	3365-09-26 23:16 G	2950370.34	2950370.47	2950370.60	0.0135	0.0016
Mercury	3365-12-24 02:24 G	2950458.47	2950458.60	2950458.74	0.0135	0.0003
Mercury	3366-03-22 05:31 G	2950546.60	2950546.73	2950546.87	0.0135	0.0019
Mercury	3366-06-18 08:38 G	2950634.74	2950634.86	2950634.99	0.0135	0.0036
Mercury	3366-09-14 12:00 G	2950722.87	2950723.00	2950723.12	0.0135	0.0053
Earth	3366-11-28 11:16 G	2950797.84	2950797.97	2950798.13	0.0135	0.0109
Moon	3366-11-28 14:09 G	2950797.94	2950798.09	2950798.26	0.0135	0.0106 *
Mercury	3366-12-11 15:07 G	2950811.01	2950811.13	2950811.24	0.0135	0.0071
Mercury	3367-03-09 18:00 G	2950899.16	2950899.25	2950899.36	0.0135	0.0088
Mercury	3367-06-05 21:07 G	2950987.31	2950987.38	2950987.47	0.0135	0.0105
Mercury	3367-09-02 00:14 G	2951075.46	2951075.51	2951075.57	0.0135	0.0122
Moon	3367-12-02 17:02 G	2951167.03	2951167.21	2951167.42	0.0136	0.0082
Earth	3367-12-02 20:09 G	2951167.14	2951167.34	2951167.54	0.0136	0.0080 *
Earth	3368-12-06 04:33 G	2951536.46	2951536.69	2951536.93	0.0136	0.0050
Moon	3368-12-06 07:26 G	2951536.57	2951536.81	2951537.05	0.0136	0.0052 *
Moon	3369-12-10 10:48 G	2951905.70	2951905.95	2951906.19	0.0136	0.0014
Earth	3369-12-10 13:55 G	2951905.83	2951906.08	2951906.33	0.0136	0.0020 *
Earth	3370-12-14 23:16 G	2952275.22	2952275.47	2952275.72	0.0137	0.0011
Moon	3370-12-15 02:24 G	2952275.34	2952275.60	2952275.85	0.0137	0.0005 *
Venus	3371-09-21 20:24 G	2952556.20	2952556.35	2952556.52	0.0137	0.0094
Moon	3371-12-19 06:00 G	2952644.53	2952644.75	2952644.99	0.0137	0.0049

Earth	3371-12-19 09:07 G	2952644.65	2952644.88	2952645.13	0.0137	0.0042 *
Venus	3372-05-05 03:50 G	2952782.46	2952782.66	2952782.87	0.0137	0.0048
Venus	3372-12-17 11:16 G	2953008.76	2953008.97	2953009.19	0.0138	0.0002
Earth	3372-12-22 19:26 G	2953014.12	2953014.31	2953014.54	0.0138	0.0074
Moon	3372-12-22 23:16 G	2953014.25	2953014.47	2953014.69	0.0138	0.0067 *
Venus	3373-07-31 18:43 G	2953235.08	2953235.28	2953235.49	0.0138	0.0045
Moon	3373-12-27 03:35 G	2953383.51	2953383.65	2953383.82	0.0138	0.0108
Earth	3373-12-27 06:57 G	2953383.63	2953383.79	2953383.96	0.0138	0.0104 *
Venus	3374-03-15 02:24 G	2953461.44	2953461.60	2953461.77	0.0138	0.0091
Venus	3374-10-27 10:19 G	2953687.93	2953687.93	2953687.95	0.0139	0.0138
Earth	3374-12-31 18:14 G	2953753.23	2953753.26	2953753.33	0.0139	0.0136
Moon	3374-12-31 22:04 G	2953753.39	2953753.42	2953753.47	0.0139	0.0137
Mars	3402-05-28 14:24 G	2963761.77	2963762.10	2963762.43	0.0145	0.0002
Mercury	3405-02-04 15:07 G	2964745.05	2964745.13	2964745.23	0.0144	0.0125
Mercury	3405-05-03 22:48 G	2964833.33	2964833.45	2964833.61	0.0144	0.0096
Mercury	3405-07-31 06:57 G	2964921.63	2964921.79	2964921.96	0.0144	0.0066
Mercury	3405-10-27 14:52 G	2965009.94	2965010.12	2965010.31	0.0144	0.0037
Mercury	3406-01-23 22:48 G	2965098.27	2965098.45	2965098.64	0.0144	0.0008
Mercury	3406-04-22 06:57 G	2965186.60	2965186.79	2965186.97	0.0144	0.0023
Earth	3406-05-25 03:50 G	2965219.58	2965219.66	2965219.74	0.0144	0.0136
Moon	3406-05-25 03:50 G	2965219.64	2965219.66	2965219.71	0.0144	0.0142 *
Mercury	3406-07-19 14:52 G	2965274.94	2965275.12	2965275.30	0.0143	0.0053
Mercury	3406-10-15 22:48 G	2965363.30	2965363.45	2965363.61	0.0143	0.0083
Mercury	3407-01-12 06:57 G	2965451.68	2965451.79	2965451.91	0.0143	0.0113
Mercury	3407-04-10 14:52 G	2965540.12	2965540.12	2965540.15	0.0143	0.0143
Earth	3407-05-30 04:19 G	2965589.50	2965589.68	2965589.86	0.0143	0.0100
Moon	3407-05-30 04:04 G	2965589.50	2965589.67	2965589.88	0.0143	0.0099 *
Moon	3408-06-03 03:07 G	2965959.41	2965959.63	2965959.86	0.0143	0.0061
Earth	3408-06-03 04:04 G	2965959.45	2965959.67	2965959.91	0.0143	0.0065 *
Earth	3409-06-08 03:50 G	2966329.41	2966329.66	2966329.91	0.0142	0.0028

Moon	3409-06-08 05:02 G	2966329.46	2966329.71	2966329.98	0.0142	0.0035 *
Moon	3410-06-13 00:28 G	2966699.27	2966699.52	2966699.77	0.0142	0.0015
Earth	3410-06-13 02:52 G	2966699.36	2966699.62	2966699.88	0.0142	0.0007 *
Venus	3410-10-13 23:02 G	2966822.45	2966822.46	2966822.49	0.0142	0.0141
Venus	3411-05-28 09:07 G	2967048.73	2967048.88	2967049.06	0.0141	0.0091
Earth	3411-06-18 00:57 G	2967069.31	2967069.54	2967069.80	0.0141	0.0043
Moon	3411-06-18 03:50 G	2967069.41	2967069.66	2967069.92	0.0141	0.0037 *
Venus	3412-01-09 19:26 G	2967275.10	2967275.31	2967275.52	0.0141	0.0040
Moon	3412-06-21 19:55 G	2967439.13	2967439.33	2967439.54	0.0141	0.0079
Earth	3412-06-21 23:02 G	2967439.25	2967439.46	2967439.67	0.0141	0.0077 *
Venus	3412-08-23 05:16 G	2967501.51	2967501.72	2967501.94	0.0141	0.0010
Venus	3413-04-06 15:07 G	2967727.94	2967728.13	2967728.33	0.0141	0.0059
Earth	3413-06-26 19:55 G	2967809.17	2967809.33	2967809.49	0.0140	0.0111
Moon	3413-06-26 23:02 G	2967809.33	2967809.46	2967809.63	0.0140	0.0114 *
Venus	3413-11-19 00:28 G	2967954.40	2967954.52	2967954.67	0.0140	0.0109
Moon	3414-07-01 12:43 G	2968179.02	2968179.03	2968179.08	0.0140	0.0139
Mars	3444-08-17 07:26 G	2979183.56	2979183.81	2979184.08	0.0133	0.0059
Mars	3446-07-17 18:57 G	2979883.04	2979883.29	2979883.57	0.0134	0.0057
Mercury	3448-02-09 08:09 G	2980454.83	2980454.84	2980454.87	0.0134	0.0132
Mercury	3448-05-07 11:31 G	2980542.91	2980542.98	2980543.05	0.0134	0.0114
Mercury	3448-08-03 14:38 G	2980631.03	2980631.11	2980631.21	0.0134	0.0097
Mercury	3448-10-30 18:00 G	2980719.14	2980719.25	2980719.36	0.0134	0.0080
Mercury	3449-01-26 21:07 G	2980807.27	2980807.38	2980807.51	0.0134	0.0062
Mercury	3449-04-25 00:28 G	2980895.39	2980895.52	2980895.65	0.0135	0.0045
Mercury	3449-07-22 03:35 G	2980983.52	2980983.65	2980983.79	0.0135	0.0028
Mercury	3449-10-18 06:57 G	2981071.65	2981071.79	2981071.92	0.0135	0.0010
Moon	3449-11-25 13:55 G	2981110.02	2981110.08	2981110.17	0.0135	0.0128
Earth	3449-11-25 16:33 G	2981110.16	2981110.19	2981110.23	0.0135	0.0133 *
Mercury	3450-01-14 10:04 G	2981159.79	2981159.92	2981160.05	0.0135	0.0008
Mercury	3450-04-12 13:11 G	2981247.92	2981248.05	2981248.18	0.0135	0.0025

Mercury	3450-07-09 16:19 G	2981336.06	2981336.18	2981336.31	0.0135	0.0042
Mercury	3450-10-05 19:26 G	2981424.19	2981424.31	2981424.43	0.0135	0.0060
Earth	3450-11-30 00:28 G	2981479.37	2981479.52	2981479.68	0.0135	0.0105
Moon	3450-11-30 02:24 G	2981479.47	2981479.60	2981479.77	0.0135	0.0109 *
Mercury	3451-01-01 22:33 G	2981512.34	2981512.44	2981512.55	0.0135	0.0077
Mercury	3451-03-31 01:40 G	2981600.48	2981600.57	2981600.67	0.0135	0.0094
Mercury	3451-06-27 04:48 G	2981688.63	2981688.70	2981688.78	0.0135	0.0111
Mercury	3451-09-23 07:55 G	2981776.80	2981776.83	2981776.87	0.0135	0.0128
Moon	3451-12-04 06:14 G	2981848.57	2981848.76	2981848.98	0.0135	0.0075
Earth	3451-12-04 08:38 G	2981848.66	2981848.86	2981849.08	0.0135	0.0075 *
Earth	3452-12-07 17:31 G	2982217.99	2982218.23	2982218.47	0.0136	0.0045
Moon	3452-12-07 19:55 G	2982218.10	2982218.33	2982218.59	0.0136	0.0043 *
Moon	3453-12-12 00:14 G	2982587.27	2982587.51	2982587.76	0.0136	0.0019
Earth	3453-12-12 02:38 G	2982587.36	2982587.61	2982587.86	0.0136	0.0015 *
Earth	3454-12-16 12:00 G	2982956.75	2982957.00	2982957.25	0.0137	0.0016
Moon	3454-12-16 14:52 G	2982956.87	2982957.12	2982957.38	0.0137	0.0023 *
Venus	3455-05-23 06:43 G	2983114.67	2983114.78	2983114.91	0.0137	0.0112
Moon	3455-12-20 19:26 G	2983326.07	2983326.31	2983326.54	0.0137	0.0040
Earth	3455-12-20 21:50 G	2983326.19	2983326.41	2983326.66	0.0137	0.0047 *
Venus	3456-01-04 13:55 G	2983340.90	2983341.08	2983341.28	0.0137	0.0067
Venus	3456-08-17 21:21 G	2983567.18	2983567.39	2983567.61	0.0137	0.0021
Earth	3456-12-24 08:38 G	2983695.65	2983695.86	2983696.07	0.0138	0.0078
Moon	3456-12-24 11:16 G	2983695.78	2983695.97	2983696.19	0.0138	0.0084 *
Venus	3457-04-01 04:48 G	2983793.49	2983793.70	2983793.92	0.0138	0.0025
Venus	3457-11-13 12:14 G	2984019.84	2984020.01	2984020.21	0.0138	0.0072
Moon	3457-12-28 16:19 G	2984065.03	2984065.18	2984065.35	0.0138	0.0106
Earth	3457-12-28 19:40 G	2984065.18	2984065.32	2984065.48	0.0138	0.0110 *
Venus	3458-06-27 20:09 G	2984246.24	2984246.34	2984246.46	0.0138	0.0118
Mars	3485-02-15 12:00 G	2993975.79	2993976.00	2993976.22	0.0145	0.0109
Mars	3487-01-23 03:21 G	2994682.35	2994682.64	2994682.94	0.0145	0.0066

Mercury	3489-02-24 23:16 G	2995446.37	2995446.47	2995446.59	0.0144	0.0115
Mercury	3489-05-24 06:57 G	2995534.65	2995534.79	2995534.95	0.0144	0.0086
Mercury	3489-08-20 14:52 G	2995622.96	2995623.12	2995623.30	0.0144	0.0057
Mercury	3489-11-16 23:02 G	2995711.27	2995711.46	2995711.64	0.0144	0.0027
Mercury	3490-02-13 06:57 G	2995799.60	2995799.79	2995799.98	0.0144	0.0003
Mercury	3490-05-12 14:52 G	2995887.94	2995888.12	2995888.31	0.0144	0.0033
Earth	3490-05-25 15:50 G	2995901.08	2995901.16	2995901.28	0.0144	0.0132
Moon	3490-05-25 16:48 G	2995901.10	2995901.20	2995901.33	0.0144	0.0127 *
Mercury	3490-08-08 22:48 G	2995976.29	2995976.45	2995976.63	0.0143	0.0063
Mercury	3490-11-05 06:43 G	2996064.65	2996064.78	2996064.94	0.0143	0.0093
Mercury	3491-02-01 14:52 G	2996153.03	2996153.12	2996153.22	0.0143	0.0122
Moon	3491-05-30 16:19 G	2996271.01	2996271.18	2996271.40	0.0143	0.0098
Earth	3491-05-30 16:19 G	2996271.01	2996271.18	2996271.39	0.0143	0.0096 *
Moon	3492-06-03 16:33 G	2996640.97	2996641.19	2996641.42	0.0143	0.0062
Earth	3492-06-03 16:33 G	2996640.97	2996641.19	2996641.44	0.0143	0.0060 *
Earth	3493-06-08 16:19 G	2997010.92	2997011.18	2997011.43	0.0142	0.0024
Moon	3493-06-08 17:31 G	2997010.97	2997011.23	2997011.50	0.0142	0.0018 *
Moon	3494-06-13 13:55 G	2997380.83	2997381.08	2997381.33	0.0142	0.0005
Earth	3494-06-13 15:21 G	2997380.88	2997381.14	2997381.40	0.0142	0.0012 *
Venus	3495-01-25 18:00 G	2997607.12	2997607.25	2997607.39	0.0142	0.0112
Earth	3495-06-18 13:40 G	2997750.83	2997751.07	2997751.31	0.0141	0.0048
Moon	3495-06-18 16:04 G	2997750.93	2997751.17	2997751.42	0.0141	0.0053 *
Venus	3495-09-09 04:04 G	2997833.48	2997833.67	2997833.88	0.0141	0.0062
Venus	3496-04-22 14:24 G	2998059.88	2998060.10	2998060.32	0.0141	0.0011
Moon	3496-06-22 08:38 G	2998120.65	2998120.86	2998121.07	0.0141	0.0079
Earth	3496-06-22 11:16 G	2998120.77	2998120.97	2998121.18	0.0141	0.0082 *
Venus	3496-12-05 00:00 G	2998286.30	2998286.50	2998286.72	0.0141	0.0039
Earth	3497-06-27 08:24 G	2998490.71	2998490.85	2998491.00	0.0140	0.0116
Moon	3497-06-27 10:48 G	2998490.83	2998490.95	2998491.13	0.0140	0.0115 *
Venus	3497-07-19 09:50 G	2998512.74	2998512.91	2998513.08	0.0140	0.0088

Venus	3498-03-02 19:26 G	2998739.26	2998739.31	2998739.35	0.0140	0.0137
Mars	3527-05-14 09:50 G	3009402.81	3009402.91	3009403.01	0.0133	0.0125
Mars	3529-04-12 16:48 G	3010101.92	3010102.20	3010102.49	0.0133	0.0012
Mars	3531-03-13 06:28 G	3010801.60	3010801.77	3010801.96	0.0134	0.0104
Mercury	3532-03-01 16:04 G	3011156.12	3011156.17	3011156.21	0.0134	0.0126
Mercury	3532-05-28 18:57 G	3011244.22	3011244.29	3011244.38	0.0134	0.0109
Mercury	3532-08-24 22:33 G	3011332.34	3011332.44	3011332.54	0.0134	0.0091
Mercury	3532-11-21 01:40 G	3011420.46	3011420.57	3011420.68	0.0134	0.0073
Mercury	3533-02-17 04:48 G	3011508.58	3011508.70	3011508.83	0.0134	0.0056
Mercury	3533-05-16 08:09 G	3011596.71	3011596.84	3011596.97	0.0135	0.0038
Mercury	3533-08-12 11:16 G	3011684.84	3011684.97	3011685.10	0.0135	0.0021
Mercury	3533-11-08 14:24 G	3011772.97	3011773.10	3011773.24	0.0135	0.0005
Earth	3533-11-27 05:02 G	3011791.65	3011791.71	3011791.80	0.0135	0.0129
Mercury	3534-02-04 17:31 G	3011861.10	3011861.23	3011861.37	0.0135	0.0014
Mercury	3534-05-03 20:52 G	3011949.24	3011949.37	3011949.50	0.0135	0.0031
Mercury	3534-07-31 00:00 G	3012037.37	3012037.50	3012037.62	0.0135	0.0048
Mercury	3534-10-27 03:07 G	3012125.51	3012125.63	3012125.75	0.0135	0.0065
Earth	3534-12-01 12:57 G	3012160.88	3012161.04	3012161.22	0.0135	0.0100
Moon	3534-12-01 14:52 G	3012160.95	3012161.12	3012161.31	0.0135	0.0096 *
Mercury	3535-01-23 06:00 G	3012213.66	3012213.75	3012213.86	0.0135	0.0083
Mercury	3535-04-21 09:07 G	3012301.80	3012301.88	3012301.98	0.0135	0.0100
Mercury	3535-07-18 12:14 G	3012389.96	3012390.01	3012390.08	0.0135	0.0117
Mercury	3535-10-14 15:21 G	3012478.14	3012478.14	3012478.16	0.0135	0.0135
Moon	3535-12-05 19:26 G	3012530.11	3012530.31	3012530.52	0.0135	0.0073
Earth	3535-12-05 21:35 G	3012530.18	3012530.40	3012530.61	0.0135	0.0071 *
Earth	3536-12-09 06:00 G	3012899.52	3012899.75	3012900.00	0.0136	0.0041
Moon	3536-12-09 07:55 G	3012899.59	3012899.83	3012900.08	0.0136	0.0042 *
Moon	3537-12-13 12:43 G	3013268.79	3013269.03	3013269.28	0.0136	0.0006
Earth	3537-12-13 15:07 G	3013268.88	3013269.13	3013269.38	0.0136	0.0011 *
Earth	3538-12-18 00:28 G	3013638.28	3013638.52	3013638.78	0.0137	0.0021

Moon	3538-12-18 02:52 G	3013638.36	3013638.62	3013638.87	0.0137	0.0014	*
Venus	3539-01-21 16:48 G	3013673.16	3013673.20	3013673.28	0.0137	0.0131	
Venus	3539-09-05 00:00 G	3013899.35	3013899.50	3013899.69	0.0137	0.0086	
Moon	3539-12-22 08:09 G	3014007.62	3014007.84	3014008.06	0.0137	0.0058	
Earth	3539-12-22 10:33 G	3014007.71	3014007.94	3014008.18	0.0137	0.0051	*
Venus	3540-04-18 07:26 G	3014125.61	3014125.81	3014126.03	0.0137	0.0041	
Venus	3540-11-30 15:07 G	3014351.91	3014352.13	3014352.35	0.0138	0.0006	
Earth	3540-12-25 21:07 G	3014377.18	3014377.38	3014377.58	0.0138	0.0083	
Moon	3540-12-25 23:31 G	3014377.29	3014377.48	3014377.71	0.0138	0.0077	*
Venus	3541-07-14 22:33 G	3014578.24	3014578.44	3014578.64	0.0138	0.0052	
Moon	3541-12-30 05:45 G	3014746.63	3014746.74	3014746.87	0.0138	0.0118	
Earth	3541-12-30 08:09 G	3014746.72	3014746.84	3014746.99	0.0138	0.0114	*
Venus	3542-02-26 06:00 G	3014804.61	3014804.75	3014804.91	0.0138	0.0099	
Mars	3569-10-13 20:38 G	3024896.06	3024896.36	3024896.69	0.0145	0.0043	
Mars	3571-09-20 07:11 G	3025602.69	3025602.80	3025602.97	0.0144	0.0130	
Mercury	3572-12-19 22:33 G	3026059.40	3026059.44	3026059.49	0.0144	0.0138	
Mercury	3573-03-18 06:14 G	3026147.65	3026147.76	3026147.89	0.0144	0.0109	
Mercury	3573-06-14 14:09 G	3026235.94	3026236.09	3026236.25	0.0144	0.0080	
Mercury	3573-09-10 21:50 G	3026324.25	3026324.41	3026324.60	0.0144	0.0051	
Mercury	3573-12-08 06:00 G	3026412.56	3026412.75	3026412.94	0.0144	0.0021	
Mercury	3574-03-06 13:55 G	3026500.89	3026501.08	3026501.27	0.0144	0.0009	
Earth	3574-05-27 00:57 G	3026582.45	3026582.54	3026582.68	0.0144	0.0128	
Moon	3574-05-27 02:52 G	3026582.54	3026582.62	3026582.71	0.0144	0.0134	*
Mercury	3574-06-02 21:50 G	3026589.23	3026589.41	3026589.59	0.0144	0.0039	
Mercury	3574-08-30 05:45 G	3026677.58	3026677.74	3026677.91	0.0143	0.0068	
Mercury	3574-11-26 13:40 G	3026765.94	3026766.07	3026766.22	0.0143	0.0099	
Mercury	3575-02-22 21:35 G	3026854.34	3026854.40	3026854.50	0.0143	0.0129	
Moon	3575-06-01 00:28 G	3026952.32	3026952.52	3026952.74	0.0143	0.0089	
Earth	3575-06-01 01:26 G	3026952.39	3026952.56	3026952.78	0.0143	0.0092	*
Moon	3576-06-05 01:40 G	3027322.34	3027322.57	3027322.80	0.0143	0.0053	

Earth	3576-06-05 01:26 G	3027322.34	3027322.56	3027322.81	0.0143	0.0056	*
Moon	3577-06-10 01:11 G	3027692.29	3027692.55	3027692.81	0.0142	0.0025	
Earth	3577-06-10 01:11 G	3027692.30	3027692.55	3027692.80	0.0142	0.0019	*
Moon	3578-06-14 23:02 G	3028062.21	3028062.46	3028062.70	0.0142	0.0023	
Earth	3578-06-15 00:14 G	3028062.25	3028062.51	3028062.76	0.0142	0.0016	*
Venus	3578-09-26 00:28 G	3028165.47	3028165.52	3028165.59	0.0142	0.0136	
Venus	3579-05-10 10:48 G	3028391.79	3028391.95	3028392.13	0.0141	0.0086	
Earth	3579-06-19 22:19 G	3028432.20	3028432.43	3028432.67	0.0141	0.0052	
Moon	3579-06-20 00:00 G	3028432.25	3028432.50	3028432.75	0.0141	0.0045	*
Venus	3579-12-22 20:52 G	3028618.17	3028618.37	3028618.59	0.0141	0.0036	
Moon	3580-06-23 18:00 G	3028802.07	3028802.25	3028802.45	0.0141	0.0089	
Earth	3580-06-23 19:55 G	3028802.14	3028802.33	3028802.55	0.0141	0.0086	*
Venus	3580-08-05 06:57 G	3028844.58	3028844.79	3028845.01	0.0141	0.0015	
Venus	3581-03-19 16:48 G	3029071.01	3029071.20	3029071.40	0.0141	0.0065	
Earth	3581-06-28 17:16 G	3029172.09	3029172.22	3029172.36	0.0140	0.0120	
Moon	3581-06-28 20:09 G	3029172.21	3029172.34	3029172.48	0.0140	0.0121	*
Venus	3581-11-01 02:09 G	3029297.48	3029297.59	3029297.73	0.0140	0.0114	
Mars	3612-01-06 16:04 G	3040320.95	3040321.17	3040321.41	0.0133	0.0081	
Mars	3613-12-06 01:55 G	3041020.31	3041020.58	3041020.87	0.0134	0.0034	
Mercury	3616-03-21 23:16 G	3041857.42	3041857.47	3041857.54	0.0134	0.0120	
Mercury	3616-06-18 02:38 G	3041945.53	3041945.61	3041945.70	0.0134	0.0103	
Mercury	3616-09-14 05:45 G	3042033.65	3042033.74	3042033.85	0.0134	0.0086	
Mercury	3616-12-11 09:07 G	3042121.77	3042121.88	3042122.00	0.0134	0.0068	
Mercury	3617-03-09 12:14 G	3042209.89	3042210.01	3042210.14	0.0134	0.0051	
Mercury	3617-06-05 15:35 G	3042298.02	3042298.15	3042298.28	0.0135	0.0033	
Mercury	3617-09-01 18:43 G	3042386.15	3042386.28	3042386.42	0.0135	0.0016	
Moon	3617-11-27 15:50 G	3042473.06	3042473.16	3042473.29	0.0135	0.0119	
Earth	3617-11-27 16:48 G	3042473.13	3042473.20	3042473.32	0.0135	0.0125	*
Mercury	3617-11-28 22:04 G	3042474.28	3042474.42	3042474.55	0.0135	0.0005	
Mercury	3618-02-25 00:57 G	3042562.41	3042562.54	3042562.68	0.0135	0.0020	

Mercury	3618-05-24 04:04 G	3042650.55	3042650.67	3042650.81	0.0135	0.0037
Mercury	3618-08-20 07:11 G	3042738.69	3042738.80	3042738.93	0.0135	0.0054
Mercury	3618-11-16 10:33 G	3042826.83	3042826.94	3042827.05	0.0135	0.0071
Earth	3618-12-02 01:11 G	3042842.38	3042842.55	3042842.73	0.0135	0.0095
Moon	3618-12-02 02:24 G	3042842.43	3042842.60	3042842.78	0.0135	0.0100 *
Mercury	3619-02-12 13:40 G	3042914.97	3042915.07	3042915.17	0.0135	0.0088
Mercury	3619-05-11 16:48 G	3043003.12	3043003.20	3043003.28	0.0135	0.0105
Mercury	3619-08-07 19:55 G	3043091.28	3043091.33	3043091.39	0.0135	0.0122
Moon	3619-12-06 08:09 G	3043211.64	3043211.84	3043212.06	0.0135	0.0064
Earth	3619-12-06 09:07 G	3043211.68	3043211.88	3043212.12	0.0135	0.0067 *
Earth	3620-12-09 18:00 G	3043581.01	3043581.25	3043581.50	0.0136	0.0036
Moon	3620-12-09 19:40 G	3043581.08	3043581.32	3043581.58	0.0136	0.0035 *
Moon	3621-12-14 01:55 G	3043950.34	3043950.58	3043950.83	0.0136	0.0009
Earth	3621-12-14 03:21 G	3043950.39	3043950.64	3043950.89	0.0136	0.0006 *
Earth	3622-12-18 12:28 G	3044319.78	3044320.02	3044320.28	0.0137	0.0026
Moon	3622-12-18 14:38 G	3044319.86	3044320.11	3044320.37	0.0137	0.0032 *
Venus	3623-05-05 10:19 G	3044457.80	3044457.93	3044458.07	0.0137	0.0105
Venus	3623-12-17 17:16 G	3044684.04	3044684.22	3044684.43	0.0137	0.0060
Moon	3623-12-22 20:52 G	3044689.14	3044689.37	3044689.60	0.0137	0.0049
Earth	3623-12-22 22:48 G	3044689.22	3044689.45	3044689.68	0.0137	0.0056 *
Venus	3624-07-31 00:43 G	3044910.32	3044910.53	3044910.75	0.0137	0.0014
Earth	3624-12-26 09:07 G	3045058.70	3045058.88	3045059.09	0.0137	0.0088
Moon	3624-12-26 11:16 G	3045058.80	3045058.97	3045059.17	0.0137	0.0093 *
Venus	3625-03-14 08:09 G	3045136.64	3045136.84	3045137.06	0.0138	0.0033
Venus	3625-10-26 15:50 G	3045362.99	3045363.16	3045363.35	0.0138	0.0079
Moon	3625-12-30 17:45 G	3045428.12	3045428.24	3045428.39	0.0138	0.0115
Earth	3625-12-30 20:09 G	3045428.24	3045428.34	3045428.49	0.0138	0.0119 *
Venus	3626-06-09 23:31 G	3045589.41	3045589.48	3045589.59	0.0138	0.0125
Mars	3654-06-10 05:31 G	3055816.41	3055816.73	3055817.07	0.0145	0.0023
Mercury	3657-01-09 05:31 G	3056760.67	3056760.73	3056760.82	0.0144	0.0132

Mercury	3657-04-07 13:11 G	3056848.94	3056849.05	3056849.20	0.0144	0.0103
Mercury	3657-07-04 21:07 G	3056937.23	3056937.38	3056937.55	0.0144	0.0074
Mercury	3657-10-01 05:16 G	3057025.54	3057025.72	3057025.90	0.0144	0.0044
Mercury	3657-12-28 13:11 G	3057113.86	3057114.05	3057114.23	0.0144	0.0015
Mercury	3658-03-26 21:07 G	3057202.19	3057202.38	3057202.57	0.0144	0.0015
Earth	3658-05-27 10:33 G	3057263.83	3057263.94	3057264.09	0.0144	0.0124
Moon	3658-05-27 12:43 G	3057263.91	3057264.03	3057264.20	0.0144	0.0118 *
Mercury	3658-06-23 05:02 G	3057290.53	3057290.71	3057290.89	0.0144	0.0045
Mercury	3658-09-19 12:57 G	3057378.88	3057379.04	3057379.20	0.0143	0.0075
Mercury	3658-12-16 20:52 G	3057467.25	3057467.37	3057467.51	0.0143	0.0105
Mercury	3659-03-15 04:48 G	3057555.65	3057555.70	3057555.78	0.0143	0.0135
Moon	3659-06-01 09:35 G	3057633.71	3057633.90	3057634.12	0.0143	0.0090
Earth	3659-06-01 11:02 G	3057633.77	3057633.96	3057634.18	0.0143	0.0088 *
Earth	3660-06-05 11:02 G	3058003.73	3058003.96	3058004.21	0.0143	0.0051
Moon	3660-06-05 12:14 G	3058003.79	3058004.01	3058004.25	0.0143	0.0052 *
Moon	3661-06-10 10:48 G	3058373.68	3058373.95	3058374.21	0.0142	0.0010
Earth	3661-06-10 10:33 G	3058373.69	3058373.94	3058374.20	0.0142	0.0015 *
Moon	3662-06-15 09:35 G	3058743.65	3058743.90	3058744.15	0.0142	0.0014
Earth	3662-06-15 09:35 G	3058743.65	3058743.90	3058744.16	0.0142	0.0021 *
Venus	3663-01-07 17:45 G	3058950.11	3058950.24	3058950.39	0.0142	0.0110
Earth	3663-06-20 07:40 G	3059113.60	3059113.82	3059114.07	0.0141	0.0057
Moon	3663-06-20 08:52 G	3059113.64	3059113.87	3059114.12	0.0141	0.0062 *
Venus	3663-08-22 03:50 G	3059176.48	3059176.66	3059176.87	0.0141	0.0060
Venus	3664-04-04 14:24 G	3059402.88	3059403.10	3059403.32	0.0141	0.0009
Moon	3664-06-24 04:04 G	3059483.48	3059483.67	3059483.87	0.0141	0.0087
Earth	3664-06-24 05:31 G	3059483.55	3059483.73	3059483.94	0.0141	0.0091 *
Venus	3664-11-17 00:00 G	3059629.30	3059629.50	3059629.72	0.0141	0.0042
Earth	3665-06-29 02:52 G	3059853.52	3059853.62	3059853.75	0.0140	0.0125
Moon	3665-06-29 04:33 G	3059853.59	3059853.69	3059853.84	0.0140	0.0125 *
Venus	3665-07-01 10:04 G	3059855.75	3059855.92	3059856.08	0.0140	0.0091

Venus	3666-02-12 19:11 G	3060082.30	3060082.30	3060082.33	0.0140	0.0140
Mars	3696-08-31 00:28 G	3071239.26	3071239.52	3071239.81	0.0133	0.0037
Mars	3698-07-31 10:19 G	3071938.72	3071938.93	3071939.18	0.0134	0.0079
Mercury	3700-01-14 03:35 G	3072470.64	3072470.65	3072470.68	0.0134	0.0132
Mercury	3700-04-12 06:57 G	3072558.72	3072558.79	3072558.86	0.0134	0.0115
Mercury	3700-07-09 10:04 G	3072646.84	3072646.92	3072647.02	0.0134	0.0097
Mercury	3700-10-05 13:26 G	3072734.95	3072735.06	3072735.17	0.0134	0.0080
Mercury	3701-01-01 16:33 G	3072823.08	3072823.19	3072823.32	0.0134	0.0063
Mercury	3701-03-30 19:55 G	3072911.20	3072911.33	3072911.46	0.0135	0.0045
Mercury	3701-06-26 23:02 G	3072999.33	3072999.46	3072999.60	0.0135	0.0028
Mercury	3701-09-23 02:24 G	3073087.46	3073087.60	3073087.73	0.0135	0.0011
Earth	3701-11-29 05:02 G	3073154.62	3073154.71	3073154.85	0.0135	0.0120
Moon	3701-11-29 05:02 G	3073154.65	3073154.71	3073154.81	0.0135	0.0127 *
Mercury	3701-12-20 05:31 G	3073175.59	3073175.73	3073175.86	0.0135	0.0008
Mercury	3702-03-18 08:38 G	3073263.73	3073263.86	3073263.99	0.0135	0.0025
Mercury	3702-06-14 11:45 G	3073351.86	3073351.99	3073352.12	0.0135	0.0042
Mercury	3702-09-10 14:52 G	3073440.00	3073440.12	3073440.24	0.0135	0.0059
Earth	3702-12-03 12:57 G	3073523.88	3073524.04	3073524.25	0.0135	0.0091
Moon	3702-12-03 13:55 G	3073523.89	3073524.08	3073524.29	0.0135	0.0086 *
Mercury	3702-12-07 18:00 G	3073528.14	3073528.25	3073528.36	0.0135	0.0076
Mercury	3703-03-05 21:07 G	3073616.29	3073616.38	3073616.48	0.0135	0.0094
Mercury	3703-06-02 00:14 G	3073704.44	3073704.51	3073704.59	0.0135	0.0111
Mercury	3703-08-29 03:21 G	3073792.60	3073792.64	3073792.68	0.0135	0.0128
Moon	3703-12-07 20:52 G	3073893.16	3073893.37	3073893.59	0.0135	0.0064
Earth	3703-12-07 21:35 G	3073893.19	3073893.40	3073893.64	0.0135	0.0061 *
Earth	3704-12-11 06:28 G	3074262.53	3074262.77	3074263.02	0.0136	0.0031
Moon	3704-12-11 07:11 G	3074262.55	3074262.80	3074263.06	0.0136	0.0031 *
Moon	3705-12-15 14:24 G	3074631.85	3074632.10	3074632.34	0.0136	0.0004
Earth	3705-12-15 15:35 G	3074631.90	3074632.15	3074632.41	0.0136	0.0002 *
Earth	3706-12-20 01:11 G	3075001.31	3075001.55	3075001.80	0.0137	0.0031

Moon	3706-12-20 02:09 G	3075001.34	3075001.59	3075001.85	0.0137	0.0025 *
Venus	3707-01-03 20:38 G	3075016.27	3075016.36	3075016.45	0.0137	0.0124
Venus	3707-08-18 03:35 G	3075242.48	3075242.65	3075242.83	0.0137	0.0079
Moon	3707-12-24 09:50 G	3075370.71	3075370.91	3075371.13	0.0137	0.0068
Earth	3707-12-24 11:02 G	3075370.75	3075370.96	3075371.20	0.0137	0.0062 *
Venus	3708-03-31 11:02 G	3075468.75	3075468.96	3075469.17	0.0137	0.0033
Venus	3708-11-12 18:28 G	3075695.06	3075695.27	3075695.49	0.0137	0.0013
Earth	3708-12-27 21:35 G	3075740.24	3075740.40	3075740.61	0.0137	0.0094
Moon	3708-12-27 23:31 G	3075740.30	3075740.48	3075740.70	0.0137	0.0087 *
Venus	3709-06-27 01:55 G	3075921.39	3075921.58	3075921.78	0.0138	0.0059
Moon	3710-01-01 07:26 G	3076109.74	3076109.81	3076109.91	0.0138	0.0129
Earth	3710-01-01 09:07 G	3076109.79	3076109.88	3076110.00	0.0138	0.0124 *
Venus	3710-02-08 09:35 G	3076147.77	3076147.90	3076148.05	0.0138	0.0105
Jupiter	3723-02-17 06:28 G	3080904.31	3080904.77	3080905.28	0.0144	0.0058
Mars	3737-02-28 19:40 G	3086030.08	3086030.32	3086030.61	0.0145	0.0088
Mars	3739-02-05 12:14 G	3086736.77	3086737.01	3086737.30	0.0145	0.0086
Mercury	3741-01-30 12:43 G	3087461.95	3087462.03	3087462.12	0.0144	0.0126
Mercury	3741-04-28 20:09 G	3087550.22	3087550.34	3087550.49	0.0144	0.0098
Mercury	3741-07-26 04:19 G	3087638.52	3087638.68	3087638.84	0.0144	0.0068
Mercury	3741-10-22 12:00 G	3087726.82	3087727.00	3087727.19	0.0144	0.0039
Mercury	3742-01-18 19:55 G	3087815.15	3087815.33	3087815.52	0.0144	0.0010
Mercury	3742-04-17 03:50 G	3087903.48	3087903.66	3087903.85	0.0144	0.0020
Earth	3742-05-28 19:11 G	3087945.18	3087945.30	3087945.46	0.0144	0.0119
Moon	3742-05-28 21:50 G	3087945.31	3087945.41	3087945.55	0.0144	0.0126 *
Mercury	3742-07-14 11:45 G	3087991.82	3087991.99	3087992.17	0.0144	0.0050
Mercury	3742-10-10 19:40 G	3088080.17	3088080.32	3088080.48	0.0143	0.0080
Mercury	3743-01-07 03:35 G	3088168.54	3088168.65	3088168.78	0.0143	0.0109
Mercury	3743-04-05 11:31 G	3088256.95	3088256.98	3088257.04	0.0143	0.0139
Moon	3743-06-02 17:02 G	3088315.00	3088315.21	3088315.44	0.0143	0.0078
Earth	3743-06-02 19:55 G	3088315.12	3088315.33	3088315.54	0.0143	0.0083 *

Earth	3744-06-06 19:11 G	3088685.07	3088685.30	3088685.55	0.0143	0.0047
Moon	3744-06-06 20:38 G	3088685.13	3088685.36	3088685.60	0.0143	0.0046 *
Moon	3745-06-11 17:31 G	3089054.97	3089055.23	3089055.50	0.0142	0.0014
Earth	3745-06-11 18:57 G	3089055.03	3089055.29	3089055.54	0.0142	0.0010 *
Earth	3746-06-16 17:31 G	3089424.99	3089425.23	3089425.50	0.0142	0.0026
Moon	3746-06-16 18:00 G	3089425.01	3089425.25	3089425.49	0.0142	0.0032 *
Venus	3746-09-07 23:45 G	3089508.44	3089508.49	3089508.57	0.0142	0.0135
Venus	3747-04-22 10:04 G	3089734.76	3089734.92	3089735.11	0.0141	0.0085
Moon	3747-06-21 16:04 G	3089794.93	3089795.17	3089795.42	0.0141	0.0054
Earth	3747-06-21 16:04 G	3089794.94	3089795.17	3089795.40	0.0141	0.0061 *
Venus	3747-12-04 20:38 G	3089961.15	3089961.36	3089961.57	0.0141	0.0034
Moon	3748-06-25 12:57 G	3090164.88	3090165.04	3090165.23	0.0141	0.0100
Earth	3748-06-25 13:55 G	3090164.90	3090165.08	3090165.27	0.0141	0.0095 *
Venus	3748-07-18 06:28 G	3090187.56	3090187.77	3090187.99	0.0141	0.0017
Venus	3749-03-01 16:04 G	3090413.99	3090414.17	3090414.38	0.0141	0.0067
Earth	3749-06-30 11:16 G	3090534.88	3090534.97	3090535.08	0.0140	0.0129
Moon	3749-06-30 12:43 G	3090534.94	3090535.03	3090535.15	0.0140	0.0129 *
Venus	3749-10-14 02:09 G	3090640.47	3090640.59	3090640.71	0.0140	0.0116
Mars	3779-05-28 00:14 G	3101458.35	3101458.51	3101458.71	0.0133	0.0104
Mars	3781-04-26 06:43 G	3102157.49	3102157.78	3102158.07	0.0134	0.0008
Mars	3783-03-26 18:28 G	3102857.19	3102857.27	3102857.41	0.0134	0.0124
Mercury	3784-02-04 11:02 G	3103171.92	3103171.96	3103172.01	0.0134	0.0127
Mercury	3784-05-02 14:24 G	3103260.02	3103260.10	3103260.18	0.0134	0.0110
Mercury	3784-07-29 17:31 G	3103348.14	3103348.23	3103348.33	0.0134	0.0092
Mercury	3784-10-25 20:52 G	3103436.26	3103436.37	3103436.48	0.0134	0.0075
Mercury	3785-01-22 00:00 G	3103524.38	3103524.50	3103524.63	0.0135	0.0057
Mercury	3785-04-20 03:21 G	3103612.51	3103612.64	3103612.77	0.0135	0.0040
Mercury	3785-07-17 06:28 G	3103700.64	3103700.77	3103700.91	0.0135	0.0023
Mercury	3785-10-13 09:35 G	3103788.77	3103788.90	3103789.04	0.0135	0.0007
Moon	3785-11-29 16:48 G	3103836.07	3103836.20	3103836.35	0.0135	0.0109

Earth	3785-11-29 16:48 G	3103836.08	3103836.20	3103836.34	0.0135	0.0115 *
Mercury	3786-01-09 12:57 G	3103876.90	3103877.04	3103877.17	0.0135	0.0013
Mercury	3786-04-07 16:04 G	3103965.04	3103965.17	3103965.30	0.0135	0.0030
Mercury	3786-07-04 19:11 G	3104053.18	3104053.30	3104053.43	0.0135	0.0047
Mercury	3786-09-30 22:19 G	3104141.31	3104141.43	3104141.55	0.0135	0.0064
Moon	3786-12-04 00:57 G	3104205.36	3104205.54	3104205.74	0.0135	0.0091
Earth	3786-12-04 00:43 G	3104205.36	3104205.53	3104205.75	0.0135	0.0086 *
Mercury	3786-12-28 01:26 G	3104229.46	3104229.56	3104229.67	0.0135	0.0081
Mercury	3787-03-26 04:33 G	3104317.60	3104317.69	3104317.78	0.0135	0.0098
Mercury	3787-06-22 07:40 G	3104405.76	3104405.82	3104405.89	0.0135	0.0116
Mercury	3787-09-18 10:48 G	3104493.93	3104493.95	3104493.98	0.0135	0.0133
Earth	3787-12-08 09:21 G	3104574.67	3104574.89	3104575.13	0.0135	0.0056
Moon	3787-12-08 09:21 G	3104574.68	3104574.89	3104575.12	0.0135	0.0053 *
Earth	3788-12-11 18:14 G	3104944.02	3104944.26	3104944.51	0.0136	0.0026
Moon	3788-12-11 18:57 G	3104944.04	3104944.29	3104944.55	0.0136	0.0025 *
Moon	3789-12-16 03:21 G	3105313.40	3105313.64	3105313.89	0.0136	0.0003
Earth	3789-12-16 03:35 G	3105313.40	3105313.65	3105313.90	0.0136	0.0005 *
Earth	3790-12-20 13:11 G	3105682.81	3105683.05	3105683.30	0.0137	0.0036
Moon	3790-12-20 14:09 G	3105682.85	3105683.09	3105683.34	0.0137	0.0042 *
Venus	3791-04-17 13:26 G	3105800.93	3105801.06	3105801.22	0.0137	0.0099
Venus	3791-11-29 21:07 G	3106027.18	3106027.38	3106027.58	0.0137	0.0053
Moon	3791-12-24 22:33 G	3106052.23	3106052.44	3106052.67	0.0137	0.0060
Earth	3791-12-24 23:31 G	3106052.26	3106052.48	3106052.70	0.0137	0.0067 *
Venus	3792-07-13 04:19 G	3106253.47	3106253.68	3106253.90	0.0137	0.0008
Earth	3792-12-28 10:04 G	3106421.76	3106421.92	3106422.11	0.0137	0.0099
Moon	3792-12-28 11:02 G	3106421.81	3106421.96	3106422.15	0.0137	0.0105 *
Venus	3793-02-24 11:45 G	3106479.79	3106479.99	3106480.20	0.0138	0.0039
Venus	3793-10-08 19:26 G	3106706.15	3106706.31	3106706.49	0.0138	0.0085
Moon	3794-01-01 19:55 G	3106791.23	3106791.33	3106791.43	0.0138	0.0125
Earth	3794-01-01 21:07 G	3106791.32	3106791.38	3106791.48	0.0138	0.0130 *

Venus	3794-05-23 03:07 G	3106932.58	3106932.63	3106932.71	0.0138	0.0132
Mars	3821-10-27 10:19 G	3116950.60	3116950.93	3116951.26	0.0145	0.0020
Mercury	3825-02-20 19:55 G	3118163.24	3118163.33	3118163.45	0.0144	0.0119
Mercury	3825-05-20 03:50 G	3118251.52	3118251.66	3118251.81	0.0144	0.0090
Mercury	3825-08-16 11:45 G	3118339.82	3118339.99	3118340.16	0.0144	0.0061
Mercury	3825-11-12 19:26 G	3118428.14	3118428.31	3118428.50	0.0144	0.0032
Mercury	3826-02-09 03:35 G	3118516.46	3118516.65	3118516.83	0.0144	0.0004
Mercury	3826-05-08 11:16 G	3118604.79	3118604.97	3118605.16	0.0144	0.0028
Earth	3826-05-30 06:14 G	3118626.61	3118626.76	3118626.92	0.0144	0.0114
Moon	3826-05-30 09:21 G	3118626.73	3118626.89	3118627.06	0.0144	0.0107 *
Mercury	3826-08-04 19:11 G	3118693.13	3118693.30	3118693.48	0.0144	0.0057
Mercury	3826-11-01 03:21 G	3118781.49	3118781.64	3118781.79	0.0143	0.0087
Mercury	3827-01-28 11:02 G	3118869.86	3118869.96	3118870.08	0.0143	0.0117
Moon	3827-06-04 03:50 G	3118996.45	3118996.66	3118996.88	0.0143	0.0082
Earth	3827-06-04 06:00 G	3118996.55	3118996.75	3118996.98	0.0143	0.0078 *
Earth	3828-06-08 05:45 G	3119366.51	3119366.74	3119367.00	0.0143	0.0042
Moon	3828-06-08 08:24 G	3119366.61	3119366.85	3119367.09	0.0143	0.0041 *
Moon	3829-06-13 04:04 G	3119736.40	3119736.67	3119736.93	0.0142	0.0003
Earth	3829-06-13 05:16 G	3119736.47	3119736.72	3119736.98	0.0142	0.0006 *
Earth	3830-06-18 04:04 G	3120106.42	3120106.67	3120106.92	0.0142	0.0031
Moon	3830-06-18 05:16 G	3120106.48	3120106.72	3120106.97	0.0142	0.0024 *
Venus	3830-12-21 17:45 G	3120293.11	3120293.24	3120293.39	0.0142	0.0108
Moon	3831-06-23 01:55 G	3120476.36	3120476.58	3120476.82	0.0141	0.0072
Earth	3831-06-23 02:38 G	3120476.38	3120476.61	3120476.83	0.0141	0.0066 *
Venus	3831-08-05 03:50 G	3120519.47	3120519.66	3120519.87	0.0141	0.0058
Venus	3832-03-18 14:24 G	3120745.88	3120746.10	3120746.32	0.0141	0.0007
Moon	3832-06-26 23:45 G	3120846.32	3120846.49	3120846.69	0.0141	0.0096
Earth	3832-06-27 00:00 G	3120846.34	3120846.50	3120846.70	0.0141	0.0101 *
Venus	3832-10-31 00:00 G	3120972.30	3120972.50	3120972.72	0.0141	0.0044
Venus	3833-06-14 10:04 G	3121198.76	3121198.92	3121199.08	0.0140	0.0093

Earth	3833-07-01 21:21 G	3121216.34	3121216.39	3121216.48	0.0140	0.0134
Moon	3833-07-01 21:50 G	3121216.37	3121216.41	3121216.50	0.0140	0.0136 *
Mars	3864-01-21 05:02 G	3132376.47	3132376.71	3132376.98	0.0133	0.0060
Mars	3865-12-20 13:11 G	3133075.79	3133076.05	3133076.32	0.0134	0.0054
Mercury	3868-02-25 18:14 G	3133873.22	3133873.26	3133873.33	0.0134	0.0122
Mercury	3868-05-23 21:35 G	3133961.32	3133961.40	3133961.49	0.0134	0.0105
Mercury	3868-08-20 00:43 G	3134049.44	3134049.53	3134049.65	0.0134	0.0088
Mercury	3868-11-16 04:19 G	3134137.56	3134137.68	3134137.79	0.0135	0.0070
Moon	3868-11-26 19:40 G	3134148.30	3134148.32	3134148.39	0.0135	0.0133
Mercury	3869-02-12 07:26 G	3134225.69	3134225.81	3134225.94	0.0135	0.0052
Mercury	3869-05-11 10:48 G	3134313.82	3134313.95	3134314.08	0.0135	0.0035
Mercury	3869-08-07 13:55 G	3134401.95	3134402.08	3134402.21	0.0135	0.0017
Mercury	3869-11-03 17:02 G	3134490.08	3134490.21	3134490.35	0.0135	0.0003
Earth	3869-12-01 04:04 G	3134517.55	3134517.67	3134517.84	0.0135	0.0111
Moon	3869-12-01 05:16 G	3134517.62	3134517.72	3134517.85	0.0135	0.0118 *
Mercury	3870-01-30 20:09 G	3134578.21	3134578.34	3134578.48	0.0135	0.0018
Mercury	3870-04-28 23:16 G	3134666.35	3134666.47	3134666.61	0.0135	0.0035
Mercury	3870-07-26 02:38 G	3134754.49	3134754.61	3134754.73	0.0135	0.0052
Mercury	3870-10-22 05:45 G	3134842.63	3134842.74	3134842.85	0.0135	0.0069
Moon	3870-12-05 12:14 G	3134886.79	3134887.01	3134887.23	0.0135	0.0076
Earth	3870-12-05 12:43 G	3134886.83	3134887.03	3134887.24	0.0135	0.0081 *
Mercury	3871-01-18 08:52 G	3134930.77	3134930.87	3134930.97	0.0135	0.0086
Mercury	3871-04-16 12:00 G	3135018.92	3135019.00	3135019.09	0.0135	0.0104
Mercury	3871-07-13 15:07 G	3135107.08	3135107.13	3135107.19	0.0135	0.0121
Earth	3871-12-09 21:07 G	3135256.16	3135256.38	3135256.62	0.0136	0.0051
Moon	3871-12-09 21:21 G	3135256.18	3135256.39	3135256.62	0.0136	0.0055 *
Moon	3872-12-13 05:31 G	3135625.48	3135625.73	3135626.00	0.0136	0.0020
Earth	3872-12-13 06:14 G	3135625.51	3135625.76	3135626.01	0.0136	0.0021 *
Moon	3873-12-17 15:21 G	3135994.90	3135995.14	3135995.38	0.0136	0.0013
Earth	3873-12-17 15:35 G	3135994.90	3135995.15	3135995.40	0.0136	0.0010 *

Venus	3874-12-16 23:16 G	3136359.39	3136359.47	3136359.60	0.0137	0.0119
Moon	3874-12-22 01:11 G	3136364.31	3136364.55	3136364.81	0.0137	0.0036
Earth	3874-12-22 01:11 G	3136364.32	3136364.55	3136364.80	0.0137	0.0042 *
Venus	3875-07-31 06:57 G	3136585.61	3136585.79	3136585.97	0.0137	0.0073
Moon	3875-12-26 11:02 G	3136733.78	3136733.96	3136734.18	0.0137	0.0079
Earth	3875-12-26 11:45 G	3136733.78	3136733.99	3136734.21	0.0137	0.0072 *
Venus	3876-03-13 14:09 G	3136811.88	3136812.09	3136812.31	0.0137	0.0028
Venus	3876-10-25 21:35 G	3137038.19	3137038.40	3137038.62	0.0137	0.0019
Earth	3876-12-29 22:19 G	3137103.28	3137103.43	3137103.60	0.0138	0.0104
Moon	3876-12-29 23:02 G	3137103.29	3137103.46	3137103.65	0.0138	0.0097 *
Venus	3877-06-09 05:02 G	3137264.53	3137264.71	3137264.91	0.0138	0.0065
Earth	3878-01-03 09:21 G	3137472.86	3137472.89	3137472.96	0.0138	0.0135
Venus	3878-01-21 12:43 G	3137490.91	3137491.03	3137491.17	0.0138	0.0111
Mars	3904-07-18 01:11 G	3147164.42	3147164.55	3147164.74	0.0145	0.0127
Mars	3906-06-24 22:19 G	3147871.13	3147871.43	3147871.75	0.0145	0.0047
Mercury	3908-12-15 19:55 G	3148776.30	3148776.33	3148776.38	0.0144	0.0140
Mercury	3909-03-14 03:35 G	3148864.54	3148864.65	3148864.77	0.0144	0.0111
Moon	3909-05-26 12:43 G	3148937.99	3148938.03	3148938.12	0.0144	0.0139
Mercury	3909-06-10 11:31 G	3148952.83	3148952.98	3148953.13	0.0144	0.0082
Mercury	3909-09-06 19:11 G	3149041.13	3149041.30	3149041.48	0.0144	0.0053
Mercury	3909-12-04 03:07 G	3149129.44	3149129.63	3149129.81	0.0144	0.0024
Mercury	3910-03-02 10:48 G	3149217.77	3149217.95	3149218.14	0.0144	0.0006
Mercury	3910-05-29 18:43 G	3149306.10	3149306.28	3149306.47	0.0144	0.0035
Earth	3910-05-31 16:33 G	3149308.04	3149308.19	3149308.37	0.0144	0.0110
Moon	3910-05-31 20:09 G	3149308.20	3149308.34	3149308.49	0.0144	0.0117 *
Mercury	3910-08-26 02:38 G	3149394.45	3149394.61	3149394.78	0.0143	0.0065
Mercury	3910-11-22 10:19 G	3149482.80	3149482.93	3149483.09	0.0143	0.0095
Mercury	3911-02-18 18:14 G	3149571.18	3149571.26	3149571.37	0.0143	0.0124
Moon	3911-06-05 13:26 G	3149677.84	3149678.06	3149678.30	0.0143	0.0068
Earth	3911-06-05 16:48 G	3149677.99	3149678.20	3149678.42	0.0143	0.0073 *

Earth	3912-06-09 16:19 G	3150047.94	3150048.18	3150048.43	0.0143	0.0037
Moon	3912-06-09 18:43 G	3150048.04	3150048.28	3150048.52	0.0143	0.0037 *
Moon	3913-06-14 13:11 G	3150417.78	3150418.05	3150418.31	0.0142	0.0003
Earth	3913-06-14 15:35 G	3150417.90	3150418.15	3150418.41	0.0142	0.0002 *
Earth	3914-06-19 14:09 G	3150787.85	3150788.09	3150788.35	0.0142	0.0036
Moon	3914-06-19 15:50 G	3150787.93	3150788.16	3150788.40	0.0142	0.0042 *
Venus	3914-08-22 01:11 G	3150851.47	3150851.55	3150851.63	0.0142	0.0131
Venus	3915-04-05 11:31 G	3151077.81	3151077.98	3151078.17	0.0141	0.0081
Moon	3915-06-24 11:16 G	3151157.75	3151157.97	3151158.22	0.0141	0.0064
Earth	3915-06-24 12:14 G	3151157.81	3151158.01	3151158.25	0.0141	0.0072 *
Venus	3915-11-17 21:50 G	3151304.20	3151304.41	3151304.62	0.0141	0.0030
Earth	3916-06-28 10:33 G	3151527.77	3151527.94	3151528.11	0.0141	0.0105
Moon	3916-06-28 10:48 G	3151527.82	3151527.95	3151528.12	0.0141	0.0111 *
Venus	3916-07-01 07:40 G	3151530.61	3151530.82	3151531.04	0.0141	0.0020
Venus	3917-02-12 17:31 G	3151757.04	3151757.23	3151757.42	0.0141	0.0070
Earth	3917-07-03 07:55 G	3151897.80	3151897.83	3151897.87	0.0140	0.0139
Moon	3917-07-03 07:55 G	3151897.80	3151897.83	3151897.90	0.0140	0.0137 *
Venus	3917-09-27 02:52 G	3151983.53	3151983.62	3151983.75	0.0140	0.0119
Jupiter	3931-01-06 22:48 G	3156833.04	3156833.45	3156833.92	0.0135	0.0067
Mars	3946-10-17 05:16 G	3162595.66	3162595.72	3162595.84	0.0133	0.0127
Mars	3948-09-15 09:50 G	3163294.63	3163294.91	3163295.20	0.0134	0.0015
Mars	3950-08-15 20:09 G	3163994.15	3163994.34	3163994.54	0.0134	0.0098
Mercury	3952-03-18 01:40 G	3164574.51	3164574.57	3164574.64	0.0134	0.0118
Mercury	3952-06-14 04:48 G	3164662.62	3164662.70	3164662.80	0.0134	0.0100
Mercury	3952-09-10 08:09 G	3164750.74	3164750.84	3164750.95	0.0134	0.0083
Mercury	3952-12-07 11:16 G	3164838.86	3164838.97	3164839.10	0.0135	0.0066
Mercury	3953-03-05 14:38 G	3164926.99	3164927.11	3164927.24	0.0135	0.0048
Mercury	3953-06-01 17:45 G	3165015.12	3165015.24	3165015.38	0.0135	0.0031
Mercury	3953-08-28 21:07 G	3165103.25	3165103.38	3165103.51	0.0135	0.0013
Mercury	3953-11-25 00:14 G	3165191.38	3165191.51	3165191.65	0.0135	0.0006

Earth	3953-12-02 14:52 G	3165198.98	3165199.12	3165199.29	0.0135	0.0107
Moon	3953-12-02 16:04 G	3165199.02	3165199.17	3165199.35	0.0135	0.0101 *
Mercury	3954-02-21 03:35 G	3165279.51	3165279.65	3165279.78	0.0135	0.0022
Mercury	3954-05-20 06:43 G	3165367.65	3165367.78	3165367.91	0.0135	0.0039
Mercury	3954-08-16 09:50 G	3165455.79	3165455.91	3165456.03	0.0135	0.0056
Mercury	3954-11-12 12:57 G	3165543.93	3165544.04	3165544.15	0.0135	0.0074
Moon	3954-12-06 22:04 G	3165568.23	3165568.42	3165568.64	0.0135	0.0083
Earth	3954-12-06 23:16 G	3165568.28	3165568.47	3165568.69	0.0135	0.0077 *
Mercury	3955-02-08 16:04 G	3165632.08	3165632.17	3165632.27	0.0135	0.0091
Mercury	3955-05-07 19:11 G	3165720.23	3165720.30	3165720.38	0.0135	0.0108
Mercury	3955-08-03 22:19 G	3165808.39	3165808.43	3165808.48	0.0135	0.0126
Earth	3955-12-11 07:55 G	3165937.61	3165937.83	3165938.08	0.0136	0.0048
Moon	3955-12-11 09:07 G	3165937.66	3165937.88	3165938.13	0.0136	0.0044 *
Moon	3956-12-14 16:33 G	3166306.93	3166307.19	3166307.45	0.0136	0.0017
Earth	3956-12-14 17:02 G	3166306.97	3166307.21	3166307.47	0.0136	0.0017 *
Earth	3957-12-19 02:38 G	3166676.36	3166676.61	3166676.86	0.0136	0.0015
Moon	3957-12-19 03:35 G	3166676.41	3166676.65	3166676.90	0.0136	0.0013 *
Moon	3958-12-23 12:00 G	3167045.77	3167046.00	3167046.26	0.0137	0.0051
Earth	3958-12-23 12:28 G	3167045.79	3167046.02	3167046.27	0.0137	0.0046 *
Venus	3959-03-31 16:04 G	3167144.02	3167144.17	3167144.34	0.0137	0.0094
Venus	3959-11-12 23:31 G	3167370.28	3167370.48	3167370.69	0.0137	0.0048
Earth	3959-12-27 22:48 G	3167415.25	3167415.45	3167415.66	0.0137	0.0077
Moon	3959-12-27 23:16 G	3167415.26	3167415.47	3167415.68	0.0137	0.0071 *
Venus	3960-06-26 06:57 G	3167596.57	3167596.79	3167597.01	0.0137	0.0003
Moon	3960-12-31 09:07 G	3167784.75	3167784.88	3167785.04	0.0138	0.0115
Earth	3960-12-31 09:21 G	3167784.75	3167784.89	3167785.06	0.0138	0.0109 *
Venus	3961-02-07 14:09 G	3167822.89	3167823.09	3167823.30	0.0138	0.0044
Venus	3961-09-21 21:50 G	3168049.25	3168049.41	3168049.58	0.0138	0.0090
Moon	3962-01-04 19:55 G	3168154.30	3168154.33	3168154.39	0.0138	0.0135
Venus	3962-05-06 05:31 G	3168275.71	3168275.73	3168275.77	0.0138	0.0137

Mars	3989-03-14 15:21 G	3178084.86	3178085.14	3178085.46	0.0145	0.0059
Mars	3991-02-19 08:24 G	3178791.65	3178791.85	3178792.07	0.0145	0.0112
Mercury	3993-01-05 03:21 G	3179477.58	3179477.64	3179477.72	0.0144	0.0132
Mercury	3993-04-03 10:48 G	3179565.84	3179565.95	3179566.09	0.0144	0.0104
Earth	3993-05-27 02:52 G	3179619.60	3179619.62	3179619.69	0.0144	0.0142
Mercury	3993-06-30 18:43 G	3179654.13	3179654.28	3179654.45	0.0144	0.0075
Mercury	3993-09-27 02:38 G	3179742.44	3179742.61	3179742.79	0.0144	0.0045
Mercury	3993-12-24 10:33 G	3179830.75	3179830.94	3179831.12	0.0144	0.0016
Mercury	3994-03-22 18:14 G	3179919.08	3179919.26	3179919.45	0.0144	0.0014
Earth	3994-06-01 03:21 G	3179989.48	3179989.64	3179989.82	0.0143	0.0106
Moon	3994-06-01 06:43 G	3179989.62	3179989.78	3179989.98	0.0143	0.0099 *
Mercury	3994-06-19 02:09 G	3180007.41	3180007.59	3180007.77	0.0143	0.0043
Mercury	3994-09-15 10:04 G	3180095.76	3180095.92	3180096.09	0.0143	0.0072
Mercury	3994-12-12 17:45 G	3180184.12	3180184.24	3180184.39	0.0143	0.0103
Mercury	3995-03-11 02:09 G	3180272.52	3180272.59	3180272.66	0.0143	0.0132
Moon	3995-06-06 00:00 G	3180359.29	3180359.50	3180359.73	0.0143	0.0074
Earth	3995-06-06 03:21 G	3180359.43	3180359.64	3180359.87	0.0143	0.0069 *
Earth	3996-06-10 03:07 G	3180729.39	3180729.63	3180729.89	0.0143	0.0033
Moon	3996-06-10 06:28 G	3180729.53	3180729.77	3180730.02	0.0143	0.0031 *
Moon	3997-06-15 00:14 G	3181099.24	3181099.51	3181099.77	0.0142	0.0007
Earth	3997-06-15 02:38 G	3181099.36	3181099.61	3181099.87	0.0142	0.0004 *
Earth	3998-06-20 01:26 G	3181469.31	3181469.56	3181469.80	0.0142	0.0040
Moon	3998-06-20 03:35 G	3181469.41	3181469.65	3181469.90	0.0142	0.0034 *
Venus	3998-12-03 19:11 G	3181636.17	3181636.30	3181636.46	0.0142	0.0104
Moon	3999-06-24 21:35 G	3181839.21	3181839.40	3181839.64	0.0141	0.0083
Earth	3999-06-24 23:31 G	3181839.28	3181839.48	3181839.71	0.0141	0.0076 *
Venus	3999-07-18 05:45 G	3181862.54	3181862.74	3181862.94	0.0141	0.0053
Venus	4000-02-29 15:50 G	3182088.94	3182089.16	3182089.38	0.0141	0.0002
Earth	4000-06-28 21:35 G	3182209.25	3182209.40	3182209.57	0.0141	0.0110
Moon	4000-06-28 22:19 G	3182209.28	3182209.43	3182209.61	0.0141	0.0105 *

Venus 4000-10-13 01:40 G 3182315.37 3182315.57 3182315.78 0.0141 0.0048

5TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 5th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	4001-05-27 11:16	G	3182541.83	3182541.97	3182542.14	0.0140	0.0098	
Mars	4031-06-11 08:09	G	3193513.64	3193513.84	3193514.09	0.0133	0.0083	
Mars	4033-05-10 14:38	G	3194212.84	3194213.11	3194213.40	0.0134	0.0030	
Mercury	4036-01-10 05:31	G	3195187.71	3195187.73	3195187.76	0.0134	0.0131	
Mercury	4036-04-07 08:38	G	3195275.80	3195275.86	3195275.94	0.0134	0.0114	
Mercury	4036-07-04 12:14	G	3195363.91	3195364.01	3195364.10	0.0134	0.0096	
Mercury	4036-09-30 15:21	G	3195452.03	3195452.14	3195452.25	0.0134	0.0078	
Moon	4036-11-28 15:35	G	3195511.07	3195511.15	3195511.25	0.0134	0.0126	
Earth	4036-11-28 17:02	G	3195511.20	3195511.21	3195511.28	0.0134	0.0133	*
Mercury	4036-12-27 18:43	G	3195540.16	3195540.28	3195540.40	0.0135	0.0061	
Mercury	4037-03-25 21:50	G	3195628.28	3195628.41	3195628.54	0.0135	0.0043	
Mercury	4037-06-22 01:11	G	3195716.41	3195716.55	3195716.68	0.0135	0.0026	
Mercury	4037-09-18 04:19	G	3195804.55	3195804.68	3195804.82	0.0135	0.0008	
Earth	4037-12-03 01:26	G	3195880.41	3195880.56	3195880.73	0.0135	0.0103	
Moon	4037-12-03 03:21	G	3195880.52	3195880.64	3195880.80	0.0135	0.0111	*
Mercury	4037-12-15 07:26	G	3195892.68	3195892.81	3195892.95	0.0135	0.0010	
Mercury	4038-03-13 10:33	G	3195980.82	3195980.94	3195981.08	0.0135	0.0027	
Mercury	4038-06-09 13:55	G	3196068.95	3196069.08	3196069.21	0.0135	0.0044	

Mercury	4038-09-05 17:02 G	3196157.09	3196157.21	3196157.33	0.0135	0.0061
Mercury	4038-12-02 20:09 G	3196245.24	3196245.34	3196245.45	0.0135	0.0078
Moon	4038-12-07 08:09 G	3196249.62	3196249.84	3196250.07	0.0135	0.0067
Earth	4038-12-07 09:50 G	3196249.71	3196249.91	3196250.14	0.0135	0.0074 *
Mercury	4039-02-28 23:16 G	3196333.38	3196333.47	3196333.57	0.0135	0.0096
Mercury	4039-05-28 02:38 G	3196421.54	3196421.61	3196421.68	0.0135	0.0113
Mercury	4039-08-24 05:45 G	3196509.70	3196509.74	3196509.77	0.0135	0.0130
Earth	4039-12-11 18:28 G	3196619.04	3196619.27	3196619.52	0.0135	0.0044
Moon	4039-12-11 20:09 G	3196619.11	3196619.34	3196619.57	0.0135	0.0048 *
Moon	4040-12-15 02:09 G	3196988.33	3196988.59	3196988.85	0.0136	0.0010
Earth	4040-12-15 03:50 G	3196988.41	3196988.66	3196988.92	0.0136	0.0013 *
Earth	4041-12-19 13:26 G	3197357.81	3197358.06	3197358.31	0.0136	0.0019
Moon	4041-12-19 14:24 G	3197357.86	3197358.10	3197358.34	0.0136	0.0021 *
Venus	4042-11-29 01:11 G	3197702.44	3197702.55	3197702.68	0.0137	0.0114
Moon	4042-12-23 21:35 G	3197727.17	3197727.40	3197727.66	0.0137	0.0046
Earth	4042-12-23 23:16 G	3197727.24	3197727.47	3197727.70	0.0137	0.0050 *
Venus	4043-07-13 08:09 G	3197928.67	3197928.84	3197929.04	0.0137	0.0069
Earth	4043-12-28 09:21 G	3198096.70	3198096.89	3198097.10	0.0137	0.0081
Moon	4043-12-28 10:19 G	3198096.75	3198096.93	3198097.12	0.0137	0.0088 *
Venus	4044-02-24 15:35 G	3198154.94	3198155.15	3198155.37	0.0137	0.0024
Venus	4044-10-07 23:16 G	3198381.26	3198381.47	3198381.68	0.0137	0.0023
Moon	4044-12-31 19:11 G	3198466.15	3198466.30	3198466.48	0.0138	0.0106
Earth	4044-12-31 19:55 G	3198466.20	3198466.33	3198466.48	0.0138	0.0113 *
Venus	4045-05-22 06:43 G	3198607.59	3198607.78	3198607.97	0.0138	0.0069
Venus	4046-01-03 14:09 G	3198833.98	3198834.09	3198834.22	0.0138	0.0115
Mars	4073-11-09 01:40 G	3209005.24	3209005.57	3209005.90	0.0145	0.0006
Mercury	4077-01-25 10:04 G	3210178.85	3210178.92	3210179.02	0.0144	0.0127
Mercury	4077-04-23 18:00 G	3210267.12	3210267.25	3210267.39	0.0144	0.0098
Moon	4077-05-27 08:52 G	3210300.78	3210300.87	3210300.97	0.0144	0.0132
Earth	4077-05-27 12:14 G	3210300.95	3210301.01	3210301.08	0.0144	0.0138 *

Mercury	4077-07-21 01:40 G	3210355.41	3210355.57	3210355.74	0.0144	0.0069
Mercury	4077-10-17 09:35 G	3210443.72	3210443.90	3210444.08	0.0144	0.0040
Mercury	4078-01-13 17:16 G	3210532.04	3210532.22	3210532.41	0.0144	0.0011
Mercury	4078-04-12 01:11 G	3210620.37	3210620.55	3210620.74	0.0143	0.0019
Earth	4078-06-01 12:28 G	3210670.84	3210671.02	3210671.20	0.0143	0.0102
Moon	4078-06-01 15:50 G	3210671.01	3210671.16	3210671.34	0.0143	0.0110 *
Mercury	4078-07-09 09:07 G	3210708.70	3210708.88	3210709.06	0.0143	0.0048
Mercury	4078-10-05 16:48 G	3210797.05	3210797.20	3210797.37	0.0143	0.0078
Mercury	4079-01-02 00:57 G	3210885.42	3210885.54	3210885.67	0.0143	0.0108
Mercury	4079-03-31 08:52 G	3210973.83	3210973.87	3210973.93	0.0143	0.0137
Moon	4079-06-06 08:38 G	3211040.64	3211040.86	3211041.10	0.0143	0.0059
Earth	4079-06-06 12:14 G	3211040.80	3211041.01	3211041.25	0.0143	0.0066 *
Earth	4080-06-10 12:14 G	3211410.76	3211411.01	3211411.26	0.0143	0.0029
Moon	4080-06-10 15:21 G	3211410.89	3211411.14	3211411.39	0.0143	0.0030 *
Moon	4081-06-15 08:09 G	3211780.58	3211780.84	3211781.10	0.0142	0.0006
Earth	4081-06-15 11:31 G	3211780.73	3211780.98	3211781.24	0.0142	0.0008 *
Earth	4082-06-20 10:19 G	3212150.69	3212150.93	3212151.18	0.0142	0.0044
Moon	4082-06-20 12:43 G	3212150.80	3212151.03	3212151.27	0.0142	0.0050 *
Venus	4082-08-03 01:40 G	3212194.49	3212194.57	3212194.68	0.0142	0.0128
Venus	4083-03-17 12:14 G	3212420.84	3212421.01	3212421.20	0.0141	0.0077
Moon	4083-06-25 06:28 G	3212520.54	3212520.77	3212521.00	0.0141	0.0072
Earth	4083-06-25 08:38 G	3212520.66	3212520.86	3212521.08	0.0141	0.0080 *
Venus	4083-10-29 22:33 G	3212647.23	3212647.44	3212647.66	0.0141	0.0026
Venus	4084-06-12 08:38 G	3212873.65	3212873.86	3212874.08	0.0141	0.0024
Earth	4084-06-29 06:28 G	3212890.63	3212890.77	3212890.93	0.0141	0.0114
Moon	4084-06-29 08:09 G	3212890.73	3212890.84	3212890.98	0.0141	0.0121 *
Venus	4085-01-24 18:28 G	3213100.09	3213100.27	3213100.46	0.0141	0.0074
Venus	4085-09-08 03:50 G	3213326.57	3213326.66	3213326.78	0.0140	0.0123
Mars	4116-02-04 11:16 G	3224431.71	3224431.97	3224432.25	0.0133	0.0040
Mars	4118-01-03 18:57 G	3225131.07	3225131.29	3225131.55	0.0134	0.0073

Mercury	4120-01-31 12:28 G	3225888.99	3225889.02	3225889.07	0.0134	0.0127
Mercury	4120-04-28 15:50 G	3225977.09	3225977.16	3225977.24	0.0134	0.0109
Mercury	4120-07-25 19:11 G	3226065.21	3226065.30	3226065.40	0.0134	0.0092
Mercury	4120-10-21 22:19 G	3226153.33	3226153.43	3226153.55	0.0134	0.0075
Moon	4120-11-30 00:14 G	3226192.50	3226192.51	3226192.55	0.0134	0.0134
Earth	4120-11-30 03:07 G	3226192.57	3226192.63	3226192.72	0.0134	0.0129
Mercury	4121-01-18 01:40 G	3226241.45	3226241.57	3226241.70	0.0134	0.0057
Mercury	4121-04-16 05:02 G	3226329.58	3226329.71	3226329.84	0.0135	0.0039
Mercury	4121-07-13 08:09 G	3226417.71	3226417.84	3226417.98	0.0135	0.0022
Mercury	4121-10-09 11:31 G	3226505.84	3226505.98	3226506.11	0.0135	0.0005
Earth	4121-12-04 11:02 G	3226561.81	3226561.96	3226562.15	0.0135	0.0100
Moon	4121-12-04 13:40 G	3226561.90	3226562.07	3226562.25	0.0135	0.0093 *
Mercury	4122-01-05 14:38 G	3226593.98	3226594.11	3226594.24	0.0135	0.0013
Mercury	4122-04-03 17:45 G	3226682.11	3226682.24	3226682.37	0.0135	0.0030
Mercury	4122-06-30 20:52 G	3226770.25	3226770.37	3226770.50	0.0135	0.0048
Mercury	4122-09-27 00:00 G	3226858.39	3226858.50	3226858.63	0.0135	0.0065
Moon	4122-12-08 17:31 G	3226931.02	3226931.23	3226931.45	0.0135	0.0076
Earth	4122-12-08 19:40 G	3226931.12	3226931.32	3226931.55	0.0135	0.0070 *
Mercury	4122-12-24 03:21 G	3226946.54	3226946.64	3226946.75	0.0135	0.0082
Mercury	4123-03-22 06:28 G	3227034.68	3227034.77	3227034.86	0.0135	0.0099
Mercury	4123-06-18 09:35 G	3227122.84	3227122.90	3227122.97	0.0135	0.0117
Mercury	4123-09-14 12:43 G	3227211.02	3227211.03	3227211.05	0.0135	0.0134
Earth	4123-12-13 04:33 G	3227300.46	3227300.69	3227300.94	0.0135	0.0040
Moon	4123-12-13 06:57 G	3227300.56	3227300.79	3227301.03	0.0135	0.0034 *
Moon	4124-12-16 12:00 G	3227669.74	3227670.00	3227670.26	0.0136	0.0010
Earth	4124-12-16 13:40 G	3227669.83	3227670.07	3227670.33	0.0136	0.0009 *
Earth	4125-12-20 23:16 G	3228039.22	3228039.47	3228039.72	0.0136	0.0023
Moon	4125-12-21 01:26 G	3228039.32	3228039.56	3228039.80	0.0136	0.0022 *
Venus	4126-07-30 09:35 G	3228260.89	3228260.90	3228260.96	0.0136	0.0135
Moon	4126-12-25 07:11 G	3228408.58	3228408.80	3228409.05	0.0137	0.0058

Earth	4126-12-25 09:07 G	3228408.65	3228408.88	3228409.11	0.0137	0.0054 *
Venus	4127-03-13 16:48 G	3228487.05	3228487.20	3228487.38	0.0137	0.0090
Venus	4127-10-26 00:28 G	3228713.31	3228713.52	3228713.72	0.0137	0.0044
Earth	4127-12-29 18:43 G	3228778.11	3228778.28	3228778.50	0.0137	0.0086
Moon	4127-12-29 20:24 G	3228778.16	3228778.35	3228778.56	0.0137	0.0079 *
Venus	4128-06-08 07:40 G	3228939.60	3228939.82	3228940.04	0.0137	0.0001
Moon	4129-01-02 03:50 G	3229147.57	3229147.66	3229147.79	0.0138	0.0124
Earth	4129-01-02 05:45 G	3229147.62	3229147.74	3229147.88	0.0138	0.0117 *
Venus	4129-01-20 14:52 G	3229165.92	3229166.12	3229166.33	0.0138	0.0047
Venus	4129-09-03 22:04 G	3229392.28	3229392.42	3229392.60	0.0138	0.0094
Mars	4156-07-30 08:38 G	3239218.65	3239218.86	3239219.12	0.0145	0.0103
Mars	4158-07-07 06:14 G	3239925.48	3239925.76	3239926.06	0.0145	0.0069
Mercury	4161-02-15 16:48 G	3240880.11	3240880.20	3240880.31	0.0144	0.0122
Mercury	4161-05-15 00:43 G	3240968.39	3240968.53	3240968.67	0.0144	0.0093
Moon	4161-05-28 16:19 G	3240982.16	3240982.18	3240982.24	0.0144	0.0142
Earth	4161-05-28 19:55 G	3240982.26	3240982.33	3240982.43	0.0144	0.0135
Mercury	4161-08-11 08:24 G	3241056.69	3241056.85	3241057.02	0.0144	0.0064
Mercury	4161-11-07 16:04 G	3241144.99	3241145.17	3241145.36	0.0144	0.0035
Mercury	4162-02-04 00:00 G	3241233.31	3241233.50	3241233.69	0.0144	0.0006
Mercury	4162-05-03 07:55 G	3241321.64	3241321.83	3241322.01	0.0143	0.0024
Earth	4162-06-02 20:09 G	3241352.17	3241352.34	3241352.54	0.0143	0.0099
Moon	4162-06-03 00:00 G	3241352.30	3241352.50	3241352.70	0.0143	0.0091 *
Mercury	4162-07-30 15:35 G	3241409.98	3241410.15	3241410.33	0.0143	0.0053
Mercury	4162-10-26 23:45 G	3241498.33	3241498.49	3241498.64	0.0143	0.0083
Mercury	4163-01-23 07:26 G	3241586.70	3241586.81	3241586.94	0.0143	0.0113
Mercury	4163-04-21 15:21 G	3241675.13	3241675.14	3241675.17	0.0143	0.0142
Moon	4163-06-07 16:33 G	3241721.98	3241722.19	3241722.43	0.0143	0.0068
Earth	4163-06-07 20:24 G	3241722.13	3241722.35	3241722.59	0.0143	0.0062 *
Earth	4164-06-11 20:24 G	3242092.10	3242092.35	3242092.60	0.0143	0.0025
Moon	4164-06-12 00:00 G	3242092.25	3242092.50	3242092.76	0.0143	0.0022 *

Moon	4165-06-16 16:33 G	3242461.93	3242462.19	3242462.45	0.0142	0.0013
Earth	4165-06-16 19:40 G	3242462.07	3242462.32	3242462.58	0.0142	0.0012 *
Earth	4166-06-21 18:28 G	3242832.03	3242832.27	3242832.51	0.0142	0.0048
Moon	4166-06-21 21:50 G	3242832.17	3242832.41	3242832.65	0.0142	0.0042 *
Venus	4166-11-15 18:14 G	3242979.13	3242979.26	3242979.43	0.0142	0.0102
Moon	4167-06-26 13:40 G	3243201.89	3243202.07	3243202.29	0.0141	0.0091
Earth	4167-06-26 16:48 G	3243202.00	3243202.20	3243202.42	0.0141	0.0083 *
Venus	4167-06-30 04:33 G	3243205.50	3243205.69	3243205.91	0.0141	0.0052
Venus	4168-02-11 14:52 G	3243431.90	3243432.12	3243432.34	0.0141	0.0002
Earth	4168-06-30 14:38 G	3243571.98	3243572.11	3243572.26	0.0141	0.0118
Moon	4168-06-30 16:33 G	3243572.06	3243572.19	3243572.36	0.0141	0.0112 *
Venus	4168-09-25 00:43 G	3243658.33	3243658.53	3243658.74	0.0141	0.0050
Venus	4169-05-09 10:48 G	3243884.80	3243884.95	3243885.11	0.0141	0.0099
Mars	4198-10-30 11:16 G	3254650.83	3254650.97	3254651.16	0.0133	0.0107
Mars	4200-09-29 16:04 G	3255349.88	3255350.17	3255350.45	0.0134	0.0003
Mars	4202-08-30 00:28 G	3256049.39	3256049.52	3256049.67	0.0134	0.0116
Mercury	4204-02-21 19:40 G	3256590.28	3256590.32	3256590.38	0.0134	0.0123
Mercury	4204-05-19 23:02 G	3256678.38	3256678.46	3256678.55	0.0134	0.0105
Mercury	4204-08-16 02:24 G	3256766.50	3256766.60	3256766.70	0.0134	0.0088
Mercury	4204-11-12 05:31 G	3256854.62	3256854.73	3256854.85	0.0134	0.0071
Moon	4204-12-01 10:04 G	3256873.82	3256873.92	3256874.06	0.0134	0.0119
Earth	4204-12-01 13:11 G	3256873.97	3256874.05	3256874.15	0.0134	0.0125 *
Mercury	4205-02-08 08:52 G	3256942.75	3256942.87	3256943.00	0.0134	0.0053
Mercury	4205-05-07 12:00 G	3257030.88	3257031.00	3257031.14	0.0135	0.0036
Mercury	4205-08-03 15:21 G	3257119.01	3257119.14	3257119.28	0.0135	0.0018
Mercury	4205-10-30 18:43 G	3257207.14	3257207.28	3257207.41	0.0135	0.0004
Earth	4205-12-05 21:07 G	3257243.22	3257243.38	3257243.58	0.0135	0.0096
Moon	4205-12-06 00:14 G	3257243.37	3257243.51	3257243.68	0.0135	0.0103 *
Mercury	4206-01-26 21:50 G	3257295.28	3257295.41	3257295.54	0.0135	0.0017
Mercury	4206-04-25 00:57 G	3257383.41	3257383.54	3257383.67	0.0135	0.0034

Mercury	4206-07-22 04:04 G	3257471.55	3257471.67	3257471.80	0.0135	0.0052
Mercury	4206-10-18 07:11 G	3257559.69	3257559.80	3257559.92	0.0135	0.0069
Moon	4206-12-10 02:52 G	3257612.41	3257612.62	3257612.87	0.0135	0.0060
Earth	4206-12-10 05:45 G	3257612.54	3257612.74	3257612.98	0.0135	0.0066 *
Mercury	4207-01-14 10:33 G	3257647.84	3257647.94	3257648.04	0.0135	0.0086
Mercury	4207-04-12 13:40 G	3257735.99	3257736.07	3257736.16	0.0135	0.0103
Mercury	4207-07-09 16:48 G	3257824.15	3257824.20	3257824.26	0.0135	0.0121
Earth	4207-12-14 14:38 G	3257981.88	3257982.11	3257982.36	0.0135	0.0035
Moon	4207-12-14 17:02 G	3257981.99	3257982.21	3257982.46	0.0135	0.0041 *
Moon	4208-12-17 21:07 G	3258351.12	3258351.38	3258351.64	0.0136	0.0001
Earth	4208-12-18 00:00 G	3258351.25	3258351.50	3258351.75	0.0136	0.0004 *
Earth	4209-12-22 09:07 G	3258720.64	3258720.88	3258721.14	0.0136	0.0028
Moon	4209-12-22 11:16 G	3258720.74	3258720.97	3258721.22	0.0136	0.0028 *
Venus	4210-11-12 01:26 G	3259045.45	3259045.56	3259045.71	0.0137	0.0111
Moon	4210-12-26 16:33 G	3259089.96	3259090.19	3259090.43	0.0137	0.0055
Earth	4210-12-26 18:43 G	3259090.07	3259090.28	3259090.52	0.0137	0.0059 *
Venus	4211-06-26 08:38 G	3259271.68	3259271.86	3259272.06	0.0137	0.0066
Earth	4211-12-31 04:48 G	3259459.53	3259459.70	3259459.91	0.0137	0.0090
Moon	4211-12-31 07:11 G	3259459.63	3259459.80	3259459.98	0.0137	0.0095 *
Venus	4212-02-07 16:04 G	3259497.95	3259498.17	3259498.38	0.0137	0.0020
Venus	4212-09-20 23:31 G	3259724.26	3259724.48	3259724.69	0.0137	0.0026
Moon	4213-01-03 13:40 G	3259828.94	3259829.07	3259829.23	0.0137	0.0114
Earth	4213-01-03 15:07 G	3259829.04	3259829.13	3259829.27	0.0137	0.0122 *
Venus	4213-05-05 06:43 G	3259950.60	3259950.78	3259950.97	0.0138	0.0072
Venus	4213-12-17 14:09 G	3260176.99	3260177.09	3260177.21	0.0138	0.0118
Mars	4241-03-27 16:04 G	3270138.86	3270139.17	3270139.50	0.0145	0.0040
Mars	4243-03-04 09:35 G	3270845.78	3270845.90	3270846.07	0.0144	0.0130
Mercury	4245-03-08 23:16 G	3271581.37	3271581.47	3271581.58	0.0144	0.0118
Moon	4245-05-30 00:43 G	3271663.42	3271663.53	3271663.65	0.0144	0.0126
Earth	4245-05-30 03:21 G	3271663.55	3271663.64	3271663.75	0.0144	0.0131 *

Mercury	4245-06-05 06:57 G	3271669.65	3271669.79	3271669.94	0.0144	0.0090
Mercury	4245-09-01 14:38 G	3271757.95	3271758.11	3271758.29	0.0144	0.0061
Mercury	4245-11-28 22:33 G	3271846.26	3271846.44	3271846.62	0.0144	0.0031
Mercury	4246-02-25 06:28 G	3271934.58	3271934.77	3271934.96	0.0143	0.0002
Mercury	4246-05-24 14:09 G	3272022.91	3272023.09	3272023.28	0.0143	0.0028
Earth	4246-06-04 03:21 G	3272033.46	3272033.64	3272033.84	0.0143	0.0095
Moon	4246-06-04 06:57 G	3272033.62	3272033.79	3272033.98	0.0143	0.0102 *
Mercury	4246-08-20 21:50 G	3272111.25	3272111.41	3272111.60	0.0143	0.0058
Mercury	4246-11-17 06:00 G	3272199.60	3272199.75	3272199.90	0.0143	0.0086
Mercury	4247-02-13 13:40 G	3272287.98	3272288.07	3272288.19	0.0143	0.0117
Moon	4247-06-09 00:00 G	3272403.28	3272403.50	3272403.75	0.0143	0.0051
Earth	4247-06-09 03:35 G	3272403.43	3272403.65	3272403.90	0.0143	0.0058 *
Earth	4248-06-13 03:35 G	3272773.40	3272773.65	3272773.90	0.0143	0.0021
Moon	4248-06-13 06:57 G	3272773.55	3272773.79	3272774.05	0.0143	0.0024 *
Moon	4249-06-17 23:02 G	3273143.20	3273143.46	3273143.72	0.0142	0.0015
Earth	4249-06-18 02:52 G	3273143.37	3273143.62	3273143.88	0.0142	0.0016 *
Earth	4250-06-23 01:26 G	3273513.33	3273513.56	3273513.81	0.0142	0.0052
Moon	4250-06-23 04:48 G	3273513.48	3273513.70	3273513.94	0.0142	0.0057 *
Venus	4250-07-16 23:45 G	3273537.41	3273537.49	3273537.60	0.0142	0.0128
Venus	4251-02-28 10:19 G	3273763.75	3273763.93	3273764.12	0.0141	0.0077
Moon	4251-06-27 20:38 G	3273883.15	3273883.36	3273883.58	0.0141	0.0080
Earth	4251-06-28 00:00 G	3273883.30	3273883.50	3273883.71	0.0141	0.0088 *
Venus	4251-10-12 20:24 G	3273990.14	3273990.35	3273990.57	0.0141	0.0027
Venus	4252-05-26 06:28 G	3274216.56	3274216.77	3274216.99	0.0141	0.0024
Earth	4252-07-01 21:21 G	3274253.28	3274253.39	3274253.53	0.0141	0.0122
Moon	4252-07-02 00:28 G	3274253.43	3274253.52	3274253.63	0.0141	0.0129 *
Venus	4253-01-07 16:19 G	3274443.00	3274443.18	3274443.37	0.0141	0.0074
Venus	4253-08-22 01:55 G	3274669.48	3274669.58	3274669.69	0.0140	0.0123
Mars	4283-06-25 13:11 G	3285568.80	3285569.05	3285569.30	0.0133	0.0066
Mars	4285-05-24 17:45 G	3286267.99	3286268.24	3286268.53	0.0134	0.0046

Mercury	4288-03-13 02:38 G	3287291.56	3287291.61	3287291.68	0.0134	0.0120
Mercury	4288-06-09 06:14 G	3287379.67	3287379.76	3287379.85	0.0134	0.0102
Mercury	4288-09-05 09:21 G	3287467.79	3287467.89	3287468.00	0.0134	0.0084
Moon	4288-12-01 18:57 G	3287555.22	3287555.29	3287555.40	0.0134	0.0126
Earth	4288-12-01 22:33 G	3287555.35	3287555.44	3287555.57	0.0134	0.0121 *
Mercury	4288-12-02 12:43 G	3287555.91	3287556.03	3287556.15	0.0134	0.0067
Mercury	4289-02-28 15:50 G	3287644.04	3287644.16	3287644.29	0.0135	0.0050
Mercury	4289-05-27 19:11 G	3287732.17	3287732.30	3287732.43	0.0135	0.0032
Mercury	4289-08-23 22:33 G	3287820.30	3287820.44	3287820.57	0.0135	0.0014
Mercury	4289-11-20 01:40 G	3287908.44	3287908.57	3287908.71	0.0135	0.0003
Earth	4289-12-06 06:43 G	3287924.62	3287924.78	3287924.99	0.0135	0.0092
Moon	4289-12-06 10:04 G	3287924.74	3287924.92	3287925.12	0.0135	0.0085 *
Mercury	4290-02-16 04:48 G	3287996.57	3287996.70	3287996.84	0.0135	0.0021
Mercury	4290-05-15 08:09 G	3288084.71	3288084.84	3288084.97	0.0135	0.0038
Mercury	4290-08-11 11:16 G	3288172.85	3288172.97	3288173.09	0.0135	0.0055
Mercury	4290-11-07 14:24 G	3288260.99	3288261.10	3288261.22	0.0135	0.0073
Moon	4290-12-10 12:28 G	3288293.81	3288294.02	3288294.25	0.0135	0.0069
Earth	4290-12-10 15:35 G	3288293.94	3288294.15	3288294.39	0.0135	0.0061 *
Mercury	4291-02-03 17:31 G	3288349.14	3288349.23	3288349.33	0.0135	0.0090
Mercury	4291-05-02 20:38 G	3288437.29	3288437.36	3288437.45	0.0135	0.0107
Mercury	4291-07-29 23:45 G	3288525.45	3288525.49	3288525.55	0.0135	0.0125
Earth	4291-12-15 00:28 G	3288663.28	3288663.52	3288663.77	0.0135	0.0031
Moon	4291-12-15 03:35 G	3288663.41	3288663.65	3288663.90	0.0135	0.0025 *
Moon	4292-12-18 06:43 G	3289032.53	3289032.78	3289033.04	0.0136	0.0004
Earth	4292-12-18 09:35 G	3289032.65	3289032.90	3289033.16	0.0136	0.0001 *
Earth	4293-12-22 18:57 G	3289402.04	3289402.29	3289402.53	0.0136	0.0032
Moon	4293-12-22 21:50 G	3289402.18	3289402.41	3289402.66	0.0136	0.0033 *
Venus	4294-07-12 10:04 G	3289603.88	3289603.92	3289603.99	0.0136	0.0132
Moon	4294-12-27 01:40 G	3289771.36	3289771.57	3289771.81	0.0137	0.0066
Earth	4294-12-27 04:48 G	3289771.48	3289771.70	3289771.92	0.0137	0.0063 *

Venus	4295-02-23 17:16 G	3289830.06	3289830.22	3289830.39	0.0137	0.0087
Venus	4295-10-08 00:28 G	3290056.32	3290056.52	3290056.73	0.0137	0.0042
Earth	4295-12-31 14:38 G	3290140.93	3290141.11	3290141.29	0.0137	0.0095
Moon	4295-12-31 17:16 G	3290141.03	3290141.22	3290141.41	0.0137	0.0088 *
Venus	4296-05-21 07:55 G	3290282.61	3290282.83	3290283.05	0.0137	0.0004
Venus	4297-01-02 15:07 G	3290508.93	3290509.13	3290509.34	0.0137	0.0050
Moon	4297-01-03 22:33 G	3290510.38	3290510.44	3290510.52	0.0138	0.0132
Earth	4297-01-04 00:57 G	3290510.46	3290510.54	3290510.66	0.0138	0.0126 *
Venus	4297-08-16 22:33 G	3290735.29	3290735.44	3290735.60	0.0138	0.0096
Mars	4325-11-23 00:00 G	3301059.17	3301059.50	3301059.83	0.0145	0.0023
Mercury	4328-12-31 22:19 G	3302194.41	3302194.43	3302194.46	0.0144	0.0142
Mercury	4329-03-30 05:45 G	3302282.65	3302282.74	3302282.87	0.0144	0.0114
Moon	4329-05-31 08:38 G	3302344.77	3302344.86	3302344.96	0.0144	0.0133
Earth	4329-05-31 11:16 G	3302344.86	3302344.97	3302345.10	0.0144	0.0127 *
Mercury	4329-06-26 13:40 G	3302370.93	3302371.07	3302371.23	0.0144	0.0085
Mercury	4329-09-22 21:21 G	3302459.23	3302459.39	3302459.57	0.0144	0.0056
Mercury	4329-12-20 05:16 G	3302547.54	3302547.72	3302547.90	0.0144	0.0027
Mercury	4330-03-18 12:57 G	3302635.86	3302636.04	3302636.23	0.0143	0.0005
Earth	4330-06-05 11:45 G	3302714.79	3302714.99	3302715.19	0.0143	0.0091
Moon	4330-06-05 14:09 G	3302714.90	3302715.09	3302715.32	0.0143	0.0084 *
Mercury	4330-06-14 20:52 G	3302724.19	3302724.37	3302724.56	0.0143	0.0032
Mercury	4330-09-11 04:33 G	3302812.53	3302812.69	3302812.87	0.0143	0.0062
Mercury	4330-12-08 12:28 G	3302900.88	3302901.02	3302901.17	0.0143	0.0091
Mercury	4331-03-06 20:38 G	3302989.26	3302989.36	3302989.46	0.0143	0.0120
Moon	4331-06-10 08:24 G	3303084.63	3303084.85	3303085.08	0.0143	0.0060
Earth	4331-06-10 11:31 G	3303084.76	3303084.98	3303085.23	0.0143	0.0054 *
Earth	4332-06-14 11:16 G	3303454.72	3303454.97	3303455.23	0.0143	0.0017
Moon	4332-06-14 14:52 G	3303454.87	3303455.12	3303455.39	0.0143	0.0013 *
Moon	4333-06-19 07:11 G	3303824.55	3303824.80	3303825.05	0.0142	0.0020
Earth	4333-06-19 10:33 G	3303824.69	3303824.94	3303825.20	0.0142	0.0020 *

Earth	4334-06-24 08:52 G	3304194.65	3304194.87	3304195.12	0.0142	0.0057
Moon	4334-06-24 12:43 G	3304194.81	3304195.03	3304195.28	0.0142	0.0052 *
Venus	4334-10-29 15:50 G	3304322.03	3304322.16	3304322.33	0.0142	0.0103
Venus	4335-06-13 02:24 G	3304548.40	3304548.60	3304548.80	0.0141	0.0052
Moon	4335-06-29 03:50 G	3304564.49	3304564.66	3304564.86	0.0141	0.0098
Earth	4335-06-29 07:40 G	3304564.63	3304564.82	3304565.01	0.0141	0.0092 *
Venus	4336-01-25 12:28 G	3304774.80	3304775.02	3304775.24	0.0141	0.0002
Earth	4336-07-03 04:33 G	3304934.61	3304934.69	3304934.83	0.0141	0.0127
Moon	4336-07-03 08:24 G	3304934.72	3304934.85	3304934.98	0.0141	0.0119 *
Venus	4336-09-07 22:04 G	3305001.23	3305001.42	3305001.64	0.0141	0.0049
Venus	4337-04-22 08:09 G	3305227.69	3305227.84	3305228.00	0.0141	0.0098
Mars	4366-03-21 12:43 G	3315788.02	3315788.03	3315788.10	0.0133	0.0133
Mars	4368-02-18 14:52 G	3316486.85	3316487.12	3316487.41	0.0134	0.0024
Mars	4370-01-17 21:07 G	3317186.18	3317186.38	3317186.61	0.0134	0.0089
Mercury	4372-01-06 06:28 G	3317904.76	3317904.77	3317904.79	0.0134	0.0133
Mercury	4372-04-03 09:50 G	3317992.85	3317992.91	3317992.98	0.0134	0.0116
Mercury	4372-06-30 12:57 G	3318080.96	3318081.04	3318081.15	0.0134	0.0099
Mercury	4372-09-26 16:33 G	3318169.08	3318169.19	3318169.30	0.0134	0.0080
Moon	4372-12-03 04:48 G	3318236.58	3318236.70	3318236.86	0.0135	0.0113
Earth	4372-12-03 08:24 G	3318236.74	3318236.85	3318236.99	0.0135	0.0117 *
Mercury	4372-12-23 19:55 G	3318257.21	3318257.33	3318257.45	0.0135	0.0063
Mercury	4373-03-21 23:02 G	3318345.34	3318345.46	3318345.59	0.0135	0.0045
Mercury	4373-06-18 02:24 G	3318433.47	3318433.60	3318433.73	0.0135	0.0028
Mercury	4373-09-14 05:31 G	3318521.60	3318521.73	3318521.87	0.0135	0.0011
Earth	4373-12-07 16:48 G	3318606.02	3318606.20	3318606.40	0.0135	0.0087
Moon	4373-12-07 20:24 G	3318606.18	3318606.35	3318606.54	0.0135	0.0094 *
Mercury	4373-12-11 08:52 G	3318609.73	3318609.87	3318610.00	0.0135	0.0007
Mercury	4374-03-09 12:00 G	3318697.87	3318698.00	3318698.13	0.0135	0.0024
Mercury	4374-06-05 15:07 G	3318786.01	3318786.13	3318786.26	0.0135	0.0042
Mercury	4374-09-01 18:28 G	3318874.15	3318874.27	3318874.39	0.0135	0.0059

Mercury	4374-11-28 21:35 G	3318962.29	3318962.40	3318962.51	0.0135	0.0076
Moon	4374-12-11 22:04 G	3318975.19	3318975.42	3318975.66	0.0135	0.0050
Earth	4374-12-12 01:26 G	3318975.34	3318975.56	3318975.80	0.0135	0.0057 *
Mercury	4375-02-25 00:43 G	3319050.44	3319050.53	3319050.63	0.0135	0.0094
Mercury	4375-05-24 03:35 G	3319138.59	3319138.65	3319138.74	0.0135	0.0112
Mercury	4375-08-20 06:57 G	3319226.76	3319226.79	3319226.84	0.0135	0.0128
Earth	4375-12-16 10:04 G	3319344.68	3319344.92	3319345.18	0.0136	0.0026
Moon	4375-12-16 13:11 G	3319344.82	3319345.05	3319345.30	0.0136	0.0033 *
Moon	4376-12-19 15:50 G	3319713.91	3319714.16	3319714.42	0.0136	0.0010
Earth	4376-12-19 19:26 G	3319714.06	3319714.31	3319714.56	0.0136	0.0005 *
Earth	4377-12-24 04:33 G	3320083.46	3320083.69	3320083.94	0.0136	0.0036
Moon	4377-12-24 07:26 G	3320083.58	3320083.81	3320084.06	0.0136	0.0037 *
Venus	4378-10-25 01:40 G	3320388.46	3320388.57	3320388.72	0.0137	0.0109
Moon	4378-12-28 11:02 G	3320452.74	3320452.96	3320453.19	0.0137	0.0065
Earth	4378-12-28 14:09 G	3320452.89	3320453.09	3320453.32	0.0137	0.0068 *
Venus	4379-06-08 09:07 G	3320614.69	3320614.88	3320615.07	0.0137	0.0063
Earth	4380-01-02 00:14 G	3320822.35	3320822.51	3320822.70	0.0137	0.0099
Moon	4380-01-02 03:07 G	3320822.49	3320822.63	3320822.81	0.0137	0.0104 *
Venus	4380-01-20 16:19 G	3320840.96	3320841.18	3320841.39	0.0137	0.0018
Venus	4380-09-02 23:31 G	3321067.27	3321067.48	3321067.70	0.0137	0.0028
Moon	4381-01-05 08:24 G	3321191.75	3321191.85	3321191.97	0.0138	0.0123
Earth	4381-01-05 10:48 G	3321191.90	3321191.95	3321192.05	0.0138	0.0131 *
Venus	4381-04-17 06:57 G	3321293.61	3321293.79	3321293.98	0.0138	0.0074
Venus	4381-11-29 14:09 G	3321520.01	3321520.09	3321520.22	0.0138	0.0121
Mars	4408-08-12 11:02 G	3331272.70	3331272.96	3331273.25	0.0145	0.0083
Mars	4410-07-20 09:35 G	3331979.66	3331979.90	3331980.18	0.0145	0.0088
Mercury	4413-01-21 05:31 G	3332895.68	3332895.73	3332895.79	0.0144	0.0136
Mercury	4413-04-19 12:57 G	3332983.93	3332984.04	3332984.17	0.0144	0.0108
Moon	4413-05-31 18:57 G	3333026.17	3333026.29	3333026.45	0.0144	0.0120
Earth	4413-05-31 20:52 G	3333026.25	3333026.37	3333026.51	0.0144	0.0123 *

Mercury	4413-07-16 20:38 G	3333072.22	3333072.36	3333072.53	0.0144	0.0079
Mercury	4413-10-13 04:33 G	3333160.52	3333160.69	3333160.87	0.0144	0.0050
Mercury	4414-01-09 12:28 G	3333248.83	3333249.02	3333249.20	0.0143	0.0021
Mercury	4414-04-07 20:09 G	3333337.15	3333337.34	3333337.53	0.0143	0.0009
Earth	4414-06-05 20:52 G	3333396.18	3333396.37	3333396.59	0.0143	0.0086
Moon	4414-06-05 23:45 G	3333396.30	3333396.49	3333396.70	0.0143	0.0094 *
Mercury	4414-07-05 03:50 G	3333425.49	3333425.66	3333425.85	0.0143	0.0038
Mercury	4414-10-01 11:45 G	3333513.83	3333513.99	3333514.16	0.0143	0.0067
Mercury	4414-12-28 19:26 G	3333602.19	3333602.31	3333602.46	0.0143	0.0097
Mercury	4415-03-27 03:35 G	3333690.57	3333690.65	3333690.74	0.0143	0.0126
Moon	4415-06-10 18:00 G	3333766.02	3333766.25	3333766.50	0.0143	0.0042
Earth	4415-06-10 21:07 G	3333766.14	3333766.38	3333766.62	0.0143	0.0049 *
Earth	4416-06-14 20:24 G	3334136.10	3334136.35	3334136.61	0.0143	0.0012
Moon	4416-06-14 23:45 G	3334136.24	3334136.49	3334136.75	0.0143	0.0016 *
Moon	4417-06-19 15:50 G	3334505.91	3334506.16	3334506.41	0.0142	0.0026
Earth	4417-06-19 19:11 G	3334506.06	3334506.30	3334506.56	0.0142	0.0026 *
Earth	4418-06-24 17:45 G	3334876.02	3334876.24	3334876.48	0.0142	0.0061
Moon	4418-06-24 21:07 G	3334876.17	3334876.38	3334876.62	0.0142	0.0065 *
Venus	4418-06-28 22:04 G	3334880.35	3334880.42	3334880.53	0.0142	0.0128
Venus	4419-02-10 08:38 G	3335106.68	3335106.86	3335107.05	0.0142	0.0077
Moon	4419-06-29 12:00 G	3335245.82	3335246.00	3335246.21	0.0141	0.0090
Earth	4419-06-29 15:50 G	3335245.98	3335246.16	3335246.36	0.0141	0.0097 *
Venus	4419-09-24 18:43 G	3335333.07	3335333.28	3335333.50	0.0141	0.0027
Venus	4420-05-08 04:48 G	3335559.49	3335559.70	3335559.92	0.0141	0.0024
Earth	4420-07-03 12:43 G	3335615.96	3335616.03	3335616.15	0.0141	0.0131
Moon	4420-07-03 16:19 G	3335616.16	3335616.18	3335616.25	0.0141	0.0139
Venus	4420-12-20 14:38 G	3335785.93	3335786.11	3335786.30	0.0141	0.0073
Venus	4421-08-03 23:45 G	3336012.41	3336012.49	3336012.62	0.0140	0.0123
Mars	4450-11-13 12:57 G	3346705.85	3346706.04	3346706.27	0.0133	0.0090
Mars	4452-10-12 16:19 G	3347404.90	3347405.18	3347405.46	0.0134	0.0020

Mars	4454-09-12 01:11 G	3348104.52	3348104.55	3348104.62	0.0134	0.0132
Mercury	4456-01-26 13:40 G	3348606.04	3348606.07	3348606.10	0.0134	0.0130
Mercury	4456-04-23 16:48 G	3348694.13	3348694.20	3348694.28	0.0134	0.0112
Mercury	4456-07-20 20:09 G	3348782.25	3348782.34	3348782.44	0.0134	0.0095
Mercury	4456-10-16 23:16 G	3348870.37	3348870.47	3348870.59	0.0135	0.0078
Moon	4456-12-03 13:26 G	3348917.96	3348918.06	3348918.21	0.0135	0.0118
Earth	4456-12-03 17:16 G	3348918.11	3348918.22	3348918.38	0.0135	0.0114 *
Mercury	4457-01-13 02:38 G	3348958.50	3348958.61	3348958.74	0.0135	0.0060
Mercury	4457-04-11 06:00 G	3349046.63	3349046.75	3349046.88	0.0135	0.0042
Mercury	4457-07-08 09:21 G	3349134.76	3349134.89	3349135.02	0.0135	0.0025
Mercury	4457-10-04 12:28 G	3349222.89	3349223.02	3349223.16	0.0135	0.0008
Earth	4457-12-08 01:40 G	3349287.39	3349287.57	3349287.79	0.0135	0.0084
Moon	4457-12-08 05:16 G	3349287.53	3349287.72	3349287.94	0.0135	0.0078 *
Mercury	4457-12-31 15:50 G	3349311.03	3349311.16	3349311.29	0.0135	0.0010
Mercury	4458-03-29 18:57 G	3349399.16	3349399.29	3349399.43	0.0135	0.0028
Mercury	4458-06-25 22:19 G	3349487.30	3349487.43	3349487.55	0.0135	0.0045
Mercury	4458-09-22 01:26 G	3349575.44	3349575.56	3349575.68	0.0135	0.0062
Moon	4458-12-12 06:57 G	3349656.57	3349656.79	3349657.02	0.0135	0.0061
Earth	4458-12-12 10:19 G	3349656.71	3349656.93	3349657.18	0.0135	0.0054 *
Mercury	4458-12-19 04:19 G	3349663.59	3349663.68	3349663.80	0.0135	0.0081
Mercury	4459-03-17 07:40 G	3349751.73	3349751.82	3349751.92	0.0135	0.0097
Mercury	4459-06-13 10:48 G	3349839.89	3349839.95	3349840.03	0.0135	0.0114
Mercury	4459-09-09 13:55 G	3349928.06	3349928.08	3349928.12	0.0136	0.0132
Earth	4459-12-16 19:11 G	3350026.06	3350026.30	3350026.56	0.0136	0.0023
Moon	4459-12-16 23:02 G	3350026.21	3350026.46	3350026.71	0.0136	0.0015 *
Moon	4460-12-20 01:11 G	3350395.30	3350395.55	3350395.81	0.0136	0.0005
Earth	4460-12-20 04:33 G	3350395.44	3350395.69	3350395.94	0.0136	0.0009 *
Earth	4461-12-24 13:40 G	3350764.84	3350765.07	3350765.32	0.0136	0.0041
Moon	4461-12-24 17:16 G	3350764.99	3350765.22	3350765.47	0.0136	0.0043 *
Venus	4462-06-24 10:04 G	3350946.87	3350946.92	3350947.00	0.0137	0.0130

Moon	4462-12-28 20:24 G	3351134.14	3351134.35	3351134.57	0.0137	0.0073
Earth	4462-12-28 23:31 G	3351134.28	3351134.48	3351134.71	0.0137	0.0072 *
Venus	4463-02-05 17:16 G	3351173.05	3351173.22	3351173.39	0.0137	0.0085
Venus	4463-09-20 00:14 G	3351399.32	3351399.51	3351399.73	0.0137	0.0041
Earth	4464-01-02 09:50 G	3351503.75	3351503.91	3351504.08	0.0137	0.0104
Moon	4464-01-02 12:57 G	3351503.88	3351504.04	3351504.23	0.0137	0.0098 *
Venus	4464-05-03 07:55 G	3351625.61	3351625.83	3351626.04	0.0137	0.0006
Venus	4464-12-15 14:52 G	3351851.94	3351852.12	3351852.34	0.0138	0.0053
Earth	4465-01-05 20:24 G	3351873.32	3351873.35	3351873.42	0.0138	0.0135
Venus	4465-07-29 22:19 G	3352078.30	3352078.43	3352078.60	0.0138	0.0099
Mars	4493-04-08 23:31 G	3362193.16	3362193.48	3362193.82	0.0145	0.0017
Mercury	4497-02-10 12:43 G	3363596.96	3363597.03	3363597.12	0.0144	0.0129
Mercury	4497-05-09 20:09 G	3363685.22	3363685.34	3363685.48	0.0144	0.0101
Moon	4497-06-01 04:48 G	3363707.60	3363707.70	3363707.84	0.0144	0.0125
Earth	4497-06-01 06:28 G	3363707.65	3363707.77	3363707.93	0.0144	0.0120 *
Mercury	4497-08-06 04:04 G	3363773.51	3363773.67	3363773.83	0.0144	0.0072
Mercury	4497-11-02 11:45 G	3363861.82	3363861.99	3363862.17	0.0143	0.0043
Mercury	4498-01-29 19:40 G	3363950.13	3363950.32	3363950.50	0.0143	0.0014
Mercury	4498-04-28 03:21 G	3364038.46	3364038.64	3364038.83	0.0143	0.0016
Earth	4498-06-06 06:57 G	3364077.59	3364077.79	3364078.00	0.0143	0.0083
Moon	4498-06-06 08:38 G	3364077.65	3364077.86	3364078.10	0.0143	0.0076 *
Mercury	4498-07-25 11:02 G	3364126.79	3364126.96	3364127.15	0.0143	0.0045
Mercury	4498-10-21 18:57 G	3364215.13	3364215.29	3364215.46	0.0143	0.0074
Mercury	4499-01-18 02:52 G	3364303.50	3364303.62	3364303.75	0.0143	0.0104
Mercury	4499-04-16 10:33 G	3364391.89	3364391.94	3364392.02	0.0143	0.0133
Moon	4499-06-11 04:04 G	3364447.45	3364447.67	3364447.91	0.0143	0.0052
Earth	4499-06-11 06:57 G	3364447.55	3364447.79	3364448.03	0.0143	0.0045 *
Earth	4500-06-16 06:00 G	3364817.50	3364817.75	3364818.01	0.0143	0.0009
Moon	4500-06-16 09:07 G	3364817.62	3364817.88	3364818.15	0.0143	0.0003 *
Moon	4501-06-21 01:55 G	3365187.34	3365187.58	3365187.83	0.0142	0.0028

Earth	4501-06-21 05:02 G	3365187.46	3365187.71	3365187.97	0.0142	0.0029 *
Earth	4502-06-26 03:07 G	3365557.42	3365557.63	3365557.87	0.0142	0.0066
Moon	4502-06-26 06:57 G	3365557.57	3365557.79	3365558.04	0.0142	0.0062 *
Venus	4502-10-11 15:35 G	3365665.01	3365665.15	3365665.31	0.0142	0.0101
Venus	4503-05-26 01:40 G	3365891.38	3365891.57	3365891.79	0.0141	0.0051
Moon	4503-06-30 21:50 G	3365927.25	3365927.41	3365927.58	0.0141	0.0107
Earth	4503-07-01 01:26 G	3365927.38	3365927.56	3365927.74	0.0141	0.0101 *
Venus	4504-01-07 12:00 G	3366117.78	3366118.00	3366118.21	0.0141	0.0002
Earth	4504-07-04 22:33 G	3366297.38	3366297.44	3366297.51	0.0141	0.0135
Moon	4504-07-05 01:55 G	3366297.49	3366297.58	3366297.70	0.0141	0.0128 *
Venus	4504-08-20 21:35 G	3366344.20	3366344.40	3366344.61	0.0141	0.0050
Venus	4505-04-04 07:11 G	3366570.66	3366570.80	3366570.97	0.0141	0.0099
Mars	4535-07-09 13:26 G	3377623.80	3377624.06	3377624.34	0.0133	0.0048
Mars	4537-06-07 18:43 G	3378323.03	3378323.28	3378323.54	0.0134	0.0063
Mercury	4540-02-16 20:24 G	3379307.32	3379307.35	3379307.40	0.0134	0.0127
Mercury	4540-05-15 00:00 G	3379395.42	3379395.50	3379395.58	0.0134	0.0109
Mercury	4540-08-11 03:07 G	3379483.54	3379483.63	3379483.74	0.0135	0.0091
Mercury	4540-11-07 06:28 G	3379571.66	3379571.77	3379571.89	0.0135	0.0074
Moon	4540-12-04 23:16 G	3379599.33	3379599.47	3379599.63	0.0135	0.0107
Earth	4540-12-05 02:24 G	3379599.48	3379599.60	3379599.76	0.0135	0.0111 *
Mercury	4541-02-03 09:50 G	3379659.79	3379659.91	3379660.03	0.0135	0.0056
Mercury	4541-05-02 12:57 G	3379747.92	3379748.04	3379748.18	0.0135	0.0039
Mercury	4541-07-29 16:19 G	3379836.05	3379836.18	3379836.31	0.0135	0.0021
Mercury	4541-10-25 19:26 G	3379924.18	3379924.31	3379924.45	0.0135	0.0006
Earth	4541-12-09 11:02 G	3379968.76	3379968.96	3379969.16	0.0135	0.0080
Moon	4541-12-09 14:38 G	3379968.93	3379969.11	3379969.31	0.0135	0.0087 *
Mercury	4542-01-21 22:48 G	3380012.32	3380012.45	3380012.58	0.0135	0.0014
Mercury	4542-04-20 01:55 G	3380100.45	3380100.58	3380100.71	0.0135	0.0031
Mercury	4542-07-17 05:16 G	3380188.59	3380188.72	3380188.84	0.0135	0.0049
Mercury	4542-10-13 08:09 G	3380276.73	3380276.84	3380276.97	0.0135	0.0067

Moon	4542-12-13 16:04 G	3380337.94	3380338.17	3380338.42	0.0135	0.0043
Earth	4542-12-13 19:26 G	3380338.09	3380338.31	3380338.56	0.0135	0.0050 *
Mercury	4543-01-09 11:31 G	3380364.88	3380364.98	3380365.09	0.0135	0.0083
Mercury	4543-04-07 14:38 G	3380453.03	3380453.11	3380453.20	0.0135	0.0100
Mercury	4543-07-04 17:45 G	3380541.18	3380541.24	3380541.31	0.0135	0.0118
Mercury	4543-09-30 20:52 G	3380629.37	3380629.37	3380629.39	0.0136	0.0135
Earth	4543-12-18 04:19 G	3380707.43	3380707.68	3380707.93	0.0136	0.0019
Moon	4543-12-18 07:55 G	3380707.58	3380707.83	3380708.08	0.0136	0.0025 *
Moon	4544-12-21 09:50 G	3381076.66	3381076.91	3381077.16	0.0136	0.0018
Earth	4544-12-21 13:26 G	3381076.81	3381077.06	3381077.32	0.0136	0.0013 *
Earth	4545-12-25 22:33 G	3381446.22	3381446.44	3381446.69	0.0136	0.0045
Moon	4545-12-26 02:09 G	3381446.36	3381446.59	3381446.84	0.0136	0.0043 *
Venus	4546-10-07 01:11 G	3381731.43	3381731.55	3381731.70	0.0137	0.0107
Moon	4546-12-30 04:33 G	3381815.50	3381815.69	3381815.92	0.0137	0.0075
Earth	4546-12-30 08:24 G	3381815.66	3381815.85	3381816.07	0.0137	0.0076 *
Venus	4547-05-21 08:38 G	3381957.67	3381957.86	3381958.06	0.0137	0.0061
Venus	4548-01-02 15:50 G	3382183.95	3382184.16	3382184.38	0.0137	0.0016
Earth	4548-01-03 18:43 G	3382185.14	3382185.28	3382185.45	0.0137	0.0107
Moon	4548-01-03 22:04 G	3382185.29	3382185.42	3382185.58	0.0137	0.0112 *
Venus	4548-08-15 23:02 G	3382410.25	3382410.46	3382410.68	0.0137	0.0030
Moon	4549-01-07 02:09 G	3382554.54	3382554.59	3382554.68	0.0138	0.0132
Venus	4549-03-30 06:14 G	3382636.60	3382636.76	3382636.96	0.0138	0.0077
Venus	4549-11-11 13:55 G	3382863.01	3382863.08	3382863.20	0.0138	0.0123
Mars	4575-12-29 07:26 G	3392406.65	3392406.81	3392407.01	0.0145	0.0122
Mars	4577-12-05 10:33 G	3393113.64	3393113.94	3393114.27	0.0145	0.0050
Mercury	4581-03-03 19:40 G	3394298.24	3394298.32	3394298.43	0.0144	0.0123
Mercury	4581-05-31 03:21 G	3394386.51	3394386.64	3394386.79	0.0144	0.0094
Moon	4581-06-02 15:50 G	3394389.03	3394389.16	3394389.33	0.0144	0.0114
Earth	4581-06-02 16:33 G	3394389.05	3394389.19	3394389.34	0.0144	0.0116 *
Mercury	4581-08-27 11:16 G	3394474.81	3394474.97	3394475.14	0.0144	0.0065

Mercury	4581-11-23 18:57 G	3394563.11	3394563.29	3394563.47	0.0143	0.0036
Mercury	4582-02-20 02:38 G	3394651.43	3394651.61	3394651.80	0.0143	0.0008
Mercury	4582-05-19 10:33 G	3394739.75	3394739.94	3394740.12	0.0143	0.0022
Earth	4582-06-07 16:19 G	3394758.98	3394759.18	3394759.41	0.0143	0.0079
Moon	4582-06-07 18:14 G	3394759.06	3394759.26	3394759.48	0.0143	0.0086 *
Mercury	4582-08-15 18:14 G	3394828.09	3394828.26	3394828.44	0.0143	0.0051
Mercury	4582-11-12 02:09 G	3394916.44	3394916.59	3394916.75	0.0143	0.0081
Mercury	4583-02-08 09:50 G	3395004.80	3395004.91	3395005.04	0.0143	0.0110
Mercury	4583-05-07 18:00 G	3395093.21	3395093.25	3395093.29	0.0143	0.0139
Moon	4583-06-12 14:24 G	3395128.87	3395129.10	3395129.35	0.0143	0.0034
Earth	4583-06-12 16:04 G	3395128.94	3395129.17	3395129.43	0.0143	0.0042 *
Earth	4584-06-16 15:35 G	3395498.89	3395499.15	3395499.41	0.0143	0.0004
Moon	4584-06-16 18:14 G	3395499.00	3395499.26	3395499.52	0.0143	0.0009 *
Moon	4585-06-21 11:16 G	3395868.73	3395868.97	3395869.22	0.0142	0.0035
Earth	4585-06-21 14:09 G	3395868.85	3395869.09	3395869.35	0.0142	0.0034 *
Venus	4586-06-10 22:04 G	3396223.34	3396223.42	3396223.54	0.0142	0.0125
Earth	4586-06-26 12:14 G	3396238.81	3396239.01	3396239.25	0.0142	0.0070
Moon	4586-06-26 15:35 G	3396238.94	3396239.15	3396239.39	0.0142	0.0072 *
Venus	4587-01-23 08:24 G	3396449.68	3396449.85	3396450.05	0.0141	0.0075
Moon	4587-07-01 06:43 G	3396608.61	3396608.78	3396608.97	0.0141	0.0099
Earth	4587-07-01 10:04 G	3396608.77	3396608.92	3396609.12	0.0141	0.0106 *
Venus	4587-09-06 18:43 G	3396676.07	3396676.28	3396676.50	0.0141	0.0024
Venus	4588-04-20 04:48 G	3396902.49	3396902.70	3396902.92	0.0141	0.0026
Earth	4588-07-05 07:26 G	3396978.79	3396978.81	3396978.86	0.0141	0.0139
Venus	4588-12-02 14:24 G	3397128.93	3397129.10	3397129.29	0.0141	0.0076
Venus	4589-07-17 00:14 G	3397355.41	3397355.51	3397355.61	0.0140	0.0125
Mars	4618-04-04 12:00 G	3407842.86	3407843.00	3407843.16	0.0133	0.0114
Mars	4620-03-03 13:40 G	3408541.79	3408542.07	3408542.36	0.0133	0.0005
Mars	4622-01-31 20:38 G	3409241.21	3409241.36	3409241.56	0.0134	0.0106
Mercury	4624-03-09 03:21 G	3410008.59	3410008.64	3410008.70	0.0134	0.0123

Mercury	4624-06-05 06:43 G	3410096.70	3410096.78	3410096.87	0.0134	0.0106
Mercury	4624-09-01 09:50 G	3410184.82	3410184.91	3410185.02	0.0135	0.0089
Mercury	4624-11-28 13:26 G	3410272.94	3410273.06	3410273.17	0.0135	0.0071
Moon	4624-12-06 07:11 G	3410280.67	3410280.80	3410280.95	0.0135	0.0111
Earth	4624-12-06 10:33 G	3410280.81	3410280.94	3410281.11	0.0135	0.0108 *
Mercury	4625-02-24 16:33 G	3410361.07	3410361.19	3410361.32	0.0135	0.0053
Mercury	4625-05-23 19:55 G	3410449.20	3410449.33	3410449.46	0.0135	0.0036
Mercury	4625-08-19 23:02 G	3410537.33	3410537.46	3410537.60	0.0135	0.0019
Mercury	4625-11-16 02:24 G	3410625.47	3410625.60	3410625.74	0.0135	0.0001
Earth	4625-12-10 18:43 G	3410650.09	3410650.28	3410650.51	0.0135	0.0078
Moon	4625-12-10 22:19 G	3410650.22	3410650.43	3410650.65	0.0135	0.0072 *
Mercury	4626-02-12 05:31 G	3410713.60	3410713.73	3410713.87	0.0135	0.0017
Mercury	4626-05-11 08:52 G	3410801.74	3410801.87	3410802.00	0.0135	0.0034
Mercury	4626-08-07 12:00 G	3410889.88	3410890.00	3410890.13	0.0135	0.0051
Mercury	4626-11-03 15:07 G	3410978.02	3410978.13	3410978.25	0.0135	0.0069
Moon	4626-12-14 23:45 G	3411019.28	3411019.49	3411019.74	0.0135	0.0055
Earth	4626-12-15 03:35 G	3411019.42	3411019.65	3411019.89	0.0135	0.0047 *
Mercury	4627-01-30 18:14 G	3411066.17	3411066.26	3411066.37	0.0135	0.0086
Mercury	4627-04-28 21:21 G	3411154.31	3411154.39	3411154.48	0.0135	0.0104
Mercury	4627-07-26 00:28 G	3411242.47	3411242.52	3411242.59	0.0135	0.0121
Earth	4627-12-19 12:28 G	3411388.77	3411389.02	3411389.27	0.0136	0.0016
Moon	4627-12-19 15:50 G	3411388.91	3411389.16	3411389.42	0.0136	0.0009 *
Moon	4628-12-22 18:14 G	3411758.01	3411758.26	3411758.51	0.0136	0.0011
Earth	4628-12-22 21:35 G	3411758.16	3411758.40	3411758.66	0.0136	0.0016 *
Earth	4629-12-27 06:57 G	3412127.56	3412127.79	3412128.03	0.0136	0.0047
Moon	4629-12-27 10:33 G	3412127.72	3412127.94	3412128.19	0.0136	0.0051 *
Venus	4630-06-07 09:07 G	3412289.82	3412289.88	3412289.96	0.0137	0.0128
Moon	4630-12-31 13:40 G	3412496.87	3412497.07	3412497.28	0.0137	0.0079
Earth	4630-12-31 17:02 G	3412497.01	3412497.21	3412497.42	0.0137	0.0079 *
Venus	4631-01-19 16:19 G	3412516.01	3412516.18	3412516.35	0.0137	0.0083

Venus	4631-09-02 23:16 G	3412742.27	3412742.47	3412742.69	0.0137	0.0038
Earth	4632-01-05 03:07 G	3412866.50	3412866.63	3412866.79	0.0137	0.0111
Moon	4632-01-05 06:43 G	3412866.64	3412866.78	3412866.96	0.0137	0.0107 *
Venus	4632-04-16 06:43 G	3412968.57	3412968.78	3412969.00	0.0137	0.0008
Venus	4632-11-28 14:24 G	3413194.90	3413195.10	3413195.30	0.0138	0.0054
Venus	4633-07-12 21:50 G	3413421.27	3413421.41	3413421.56	0.0138	0.0100
Mars	4660-08-25 17:31 G	3423326.93	3423327.23	3423327.54	0.0145	0.0057
Mars	4662-08-02 17:31 G	3424034.03	3424034.23	3424034.45	0.0144	0.0112
Mercury	4665-03-25 02:24 G	3424999.51	3424999.60	3424999.72	0.0144	0.0118
Moon	4665-06-04 00:14 G	3425070.38	3425070.51	3425070.67	0.0144	0.0117
Earth	4665-06-04 00:43 G	3425070.38	3425070.53	3425070.70	0.0144	0.0113 *
Mercury	4665-06-21 10:04 G	3425087.79	3425087.92	3425088.08	0.0144	0.0089
Mercury	4665-09-17 18:00 G	3425176.08	3425176.25	3425176.42	0.0144	0.0060
Mercury	4665-12-15 01:40 G	3425264.39	3425264.57	3425264.75	0.0143	0.0031
Mercury	4666-03-13 09:21 G	3425352.71	3425352.89	3425353.08	0.0143	0.0003
Earth	4666-06-09 00:43 G	3425440.32	3425440.53	3425440.76	0.0143	0.0076
Moon	4666-06-09 01:11 G	3425440.33	3425440.55	3425440.79	0.0143	0.0070 *
Mercury	4666-06-09 17:02 G	3425441.03	3425441.21	3425441.40	0.0143	0.0027
Mercury	4666-09-06 00:57 G	3425529.37	3425529.54	3425529.71	0.0143	0.0056
Mercury	4666-12-03 08:52 G	3425617.72	3425617.87	3425618.02	0.0143	0.0086
Mercury	4667-03-01 16:19 G	3425706.09	3425706.18	3425706.31	0.0143	0.0115
Moon	4667-06-13 23:02 G	3425810.23	3425810.46	3425810.70	0.0143	0.0045
Earth	4667-06-14 00:28 G	3425810.28	3425810.52	3425810.77	0.0143	0.0038 *
Earth	4668-06-17 23:31 G	3426180.23	3426180.48	3426180.74	0.0143	0.0003
Moon	4668-06-18 01:40 G	3426180.30	3426180.57	3426180.83	0.0143	0.0006 *
Moon	4669-06-22 20:09 G	3426550.10	3426550.34	3426550.59	0.0142	0.0034
Earth	4669-06-22 22:19 G	3426550.19	3426550.43	3426550.69	0.0142	0.0037 *
Earth	4670-06-27 20:38 G	3426920.15	3426920.36	3426920.59	0.0142	0.0073
Moon	4670-06-27 23:45 G	3426920.27	3426920.49	3426920.73	0.0142	0.0070 *
Venus	4670-09-23 14:38 G	3427007.96	3427008.11	3427008.27	0.0142	0.0099

Venus	4671-05-08 00:57 G	3427234.34	3427234.54	3427234.75	0.0141	0.0048
Moon	4671-07-02 15:21 G	3427290.00	3427290.14	3427290.30	0.0141	0.0113
Earth	4671-07-02 18:14 G	3427290.11	3427290.26	3427290.44	0.0141	0.0108 *
Venus	4671-12-20 11:02 G	3427460.75	3427460.96	3427461.18	0.0141	0.0003
Moon	4672-07-06 19:11 G	3427660.24	3427660.30	3427660.38	0.0141	0.0135
Venus	4672-08-02 20:52 G	3427687.17	3427687.37	3427687.58	0.0141	0.0052
Venus	4673-03-17 06:28 G	3427913.63	3427913.77	3427913.93	0.0141	0.0101
Mars	4702-11-28 12:57 G	3438760.80	3438761.04	3438761.28	0.0133	0.0072
Mars	4704-10-27 16:33 G	3439459.93	3439460.19	3439460.48	0.0134	0.0038
Earth	4707-12-04 11:16 G	3440592.95	3440592.97	3440592.99	0.0134	0.0134
Moon	4707-12-04 13:55 G	3440593.06	3440593.08	3440593.14	0.0134	0.0133
Mercury	4708-03-30 10:19 G	3440709.88	3440709.93	3440709.99	0.0134	0.0120
Mercury	4708-06-26 13:40 G	3440797.98	3440798.07	3440798.16	0.0134	0.0103
Mercury	4708-09-22 16:48 G	3440886.10	3440886.20	3440886.31	0.0135	0.0086
Moon	4708-12-07 16:04 G	3440962.04	3440962.17	3440962.36	0.0135	0.0103
Earth	4708-12-07 18:57 G	3440962.16	3440962.29	3440962.47	0.0135	0.0105 *
Mercury	4708-12-19 20:09 G	3440974.23	3440974.34	3440974.46	0.0135	0.0068
Mercury	4709-03-17 23:31 G	3441062.36	3441062.48	3441062.61	0.0135	0.0050
Mercury	4709-06-14 02:52 G	3441150.49	3441150.62	3441150.75	0.0135	0.0033
Mercury	4709-09-10 06:00 G	3441238.62	3441238.75	3441238.89	0.0135	0.0015
Mercury	4709-12-07 09:21 G	3441326.75	3441326.89	3441327.02	0.0135	0.0003
Earth	4709-12-12 03:21 G	3441331.44	3441331.64	3441331.86	0.0135	0.0074
Moon	4709-12-12 06:43 G	3441331.58	3441331.78	3441332.00	0.0135	0.0080 *
Mercury	4710-03-05 12:28 G	3441414.89	3441415.02	3441415.16	0.0135	0.0020
Mercury	4710-06-01 15:35 G	3441503.03	3441503.15	3441503.28	0.0135	0.0037
Mercury	4710-08-28 18:57 G	3441591.17	3441591.29	3441591.41	0.0135	0.0054
Mercury	4710-11-24 22:04 G	3441679.31	3441679.42	3441679.53	0.0135	0.0072
Moon	4710-12-16 09:07 G	3441700.65	3441700.88	3441701.13	0.0135	0.0037
Earth	4710-12-16 12:14 G	3441700.77	3441701.01	3441701.25	0.0135	0.0044 *
Mercury	4711-02-21 01:11 G	3441767.45	3441767.55	3441767.65	0.0135	0.0089

Mercury	4711-05-20 04:19 G	3441855.61	3441855.68	3441855.77	0.0135	0.0106
Mercury	4711-08-16 07:26 G	3441943.77	3441943.81	3441943.87	0.0135	0.0123
Earth	4711-12-20 20:52 G	3442070.12	3442070.37	3442070.63	0.0136	0.0012
Moon	4711-12-21 00:14 G	3442070.26	3442070.51	3442070.77	0.0136	0.0019 *
Moon	4712-12-24 02:38 G	3442439.37	3442439.61	3442439.86	0.0136	0.0026
Earth	4712-12-24 06:14 G	3442439.51	3442439.76	3442440.01	0.0136	0.0019 *
Earth	4713-12-28 15:21 G	3442808.92	3442809.14	3442809.39	0.0136	0.0051
Moon	4713-12-28 18:43 G	3442809.05	3442809.28	3442809.53	0.0136	0.0048 *
Venus	4714-09-20 00:00 G	3443074.37	3443074.50	3443074.65	0.0137	0.0105
Moon	4715-01-01 21:35 G	3443178.22	3443178.40	3443178.62	0.0137	0.0083
Earth	4715-01-02 01:26 G	3443178.37	3443178.56	3443178.77	0.0137	0.0083 *
Venus	4715-05-04 07:11 G	3443300.61	3443300.80	3443301.00	0.0137	0.0060
Venus	4715-12-16 14:38 G	3443526.89	3443527.11	3443527.32	0.0137	0.0014
Earth	4716-01-06 11:45 G	3443547.87	3443547.99	3443548.14	0.0137	0.0115
Moon	4716-01-06 15:07 G	3443548.02	3443548.13	3443548.28	0.0137	0.0117 *
Venus	4716-07-29 21:50 G	3443753.20	3443753.41	3443753.63	0.0137	0.0032
Venus	4717-03-13 05:16 G	3443979.55	3443979.72	3443979.91	0.0138	0.0078
Venus	4717-10-25 12:57 G	3444205.96	3444206.04	3444206.15	0.0138	0.0124
Jupiter	4731-05-28 17:02 G	3449168.77	3449169.21	3449169.71	0.0144	0.0065
Mars	4745-04-23 00:57 G	3454247.21	3454247.54	3454247.87	0.0145	0.0006
Moon	4748-05-31 06:57 G	3455381.79	3455381.79	3455381.81	0.0144	0.0144
Mercury	4749-01-17 01:26 G	3455612.54	3455612.56	3455612.60	0.0144	0.0142
Mercury	4749-04-15 09:07 G	3455700.77	3455700.88	3455701.00	0.0144	0.0113
Earth	4749-06-05 08:09 G	3455751.69	3455751.84	3455752.02	0.0144	0.0110
Moon	4749-06-05 09:07 G	3455751.74	3455751.88	3455752.06	0.0144	0.0109 *
Mercury	4749-07-12 16:33 G	3455789.05	3455789.19	3455789.35	0.0144	0.0085
Mercury	4749-10-09 00:28 G	3455877.35	3455877.52	3455877.69	0.0144	0.0056
Mercury	4750-01-05 08:09 G	3455965.66	3455965.84	3455966.02	0.0143	0.0027
Mercury	4750-04-03 15:50 G	3456053.98	3456054.16	3456054.35	0.0143	0.0003
Earth	4750-06-10 08:09 G	3456121.63	3456121.84	3456122.07	0.0143	0.0072

Moon	4750-06-10 08:24 G	3456121.64	3456121.85	3456122.08	0.0143	0.0078	*
Mercury	4750-06-30 23:31 G	3456142.30	3456142.48	3456142.67	0.0143	0.0031	
Mercury	4750-09-27 07:11 G	3456230.64	3456230.80	3456230.98	0.0143	0.0061	
Mercury	4750-12-24 15:07 G	3456318.99	3456319.13	3456319.28	0.0143	0.0090	
Mercury	4751-03-22 22:48 G	3456407.36	3456407.45	3456407.57	0.0143	0.0119	
Moon	4751-06-15 07:11 G	3456491.56	3456491.80	3456492.05	0.0143	0.0027	
Earth	4751-06-15 07:40 G	3456491.58	3456491.82	3456492.08	0.0143	0.0035	*
Earth	4752-06-19 06:57 G	3456861.54	3456861.79	3456862.05	0.0143	0.0003	
Moon	4752-06-19 08:09 G	3456861.58	3456861.84	3456862.11	0.0143	0.0004	*
Moon	4753-06-24 03:35 G	3457231.42	3457231.65	3457231.90	0.0142	0.0044	
Earth	4753-06-24 05:31 G	3457231.50	3457231.73	3457231.99	0.0142	0.0040	*
Venus	4754-05-24 20:24 G	3457566.25	3457566.35	3457566.46	0.0142	0.0124	
Earth	4754-06-29 03:35 G	3457601.45	3457601.65	3457601.88	0.0142	0.0077	
Moon	4754-06-29 06:00 G	3457601.54	3457601.75	3457601.98	0.0142	0.0077	*
Venus	4755-01-06 06:28 G	3457792.60	3457792.77	3457792.97	0.0141	0.0074	
Moon	4755-07-03 22:48 G	3457971.30	3457971.45	3457971.62	0.0141	0.0107	
Earth	4755-07-04 01:26 G	3457971.43	3457971.56	3457971.74	0.0141	0.0113	*
Venus	4755-08-20 16:48 G	3458018.99	3458019.20	3458019.42	0.0141	0.0023	
Venus	4756-04-03 02:52 G	3458245.41	3458245.62	3458245.84	0.0141	0.0027	
Venus	4756-11-15 12:28 G	3458471.85	3458472.02	3458472.21	0.0141	0.0077	
Venus	4757-06-29 22:19 G	3458698.34	3458698.43	3458698.53	0.0140	0.0126	
Mars	4787-07-23 12:57 G	3469678.78	3469679.04	3469679.33	0.0133	0.0031	
Mars	4789-06-21 16:48 G	3470377.98	3470378.20	3470378.44	0.0134	0.0079	
Earth	4791-12-04 19:11 G	3471274.25	3471274.30	3471274.37	0.0134	0.0131	
Moon	4791-12-04 21:21 G	3471274.36	3471274.39	3471274.47	0.0134	0.0132	*
Mercury	4792-04-19 17:02 G	3471411.15	3471411.21	3471411.28	0.0134	0.0118	
Mercury	4792-07-16 20:24 G	3471499.27	3471499.35	3471499.44	0.0134	0.0100	
Mercury	4792-10-12 23:45 G	3471587.39	3471587.49	3471587.60	0.0135	0.0083	
Moon	4792-12-08 00:43 G	3471643.38	3471643.53	3471643.69	0.0135	0.0103	
Earth	4792-12-08 03:21 G	3471643.48	3471643.64	3471643.81	0.0135	0.0101	*

Mercury	4793-01-09 03:07 G	3471675.51	3471675.63	3471675.75	0.0135	0.0065
Mercury	4793-04-07 06:14 G	3471763.64	3471763.76	3471763.89	0.0135	0.0048
Mercury	4793-07-04 09:35 G	3471851.77	3471851.90	3471852.03	0.0135	0.0030
Mercury	4793-09-30 12:57 G	3471939.90	3471940.04	3471940.17	0.0135	0.0013
Earth	4793-12-12 11:31 G	3472012.78	3472012.98	3472013.21	0.0135	0.0071
Moon	4793-12-12 13:55 G	3472012.87	3472013.08	3472013.32	0.0135	0.0067 *
Mercury	4793-12-27 16:04 G	3472028.04	3472028.17	3472028.31	0.0135	0.0005
Mercury	4794-03-25 19:26 G	3472116.17	3472116.31	3472116.44	0.0135	0.0022
Mercury	4794-06-21 22:33 G	3472204.31	3472204.44	3472204.57	0.0135	0.0040
Mercury	4794-09-18 01:40 G	3472292.45	3472292.57	3472292.70	0.0135	0.0057
Mercury	4794-12-15 04:48 G	3472380.60	3472380.70	3472380.82	0.0135	0.0074
Moon	4794-12-16 17:02 G	3472381.99	3472382.21	3472382.46	0.0135	0.0047
Earth	4794-12-16 20:09 G	3472382.11	3472382.34	3472382.59	0.0135	0.0040 *
Mercury	4795-03-13 08:09 G	3472468.74	3472468.84	3472468.94	0.0135	0.0091
Mercury	4795-06-09 11:16 G	3472556.89	3472556.97	3472557.05	0.0135	0.0109
Mercury	4795-09-05 14:24 G	3472645.06	3472645.10	3472645.15	0.0135	0.0126
Earth	4795-12-21 05:02 G	3472751.46	3472751.71	3472751.97	0.0136	0.0009
Moon	4795-12-21 07:55 G	3472751.57	3472751.83	3472752.09	0.0136	0.0002 *
Moon	4796-12-24 11:31 G	3473120.74	3473120.98	3473121.23	0.0136	0.0017
Earth	4796-12-24 14:24 G	3473120.85	3473121.10	3473121.35	0.0136	0.0023 *
Earth	4797-12-28 23:45 G	3473490.27	3473490.49	3473490.73	0.0136	0.0055
Moon	4797-12-29 03:07 G	3473490.40	3473490.63	3473490.87	0.0136	0.0058 *
Venus	4798-05-20 07:40 G	3473632.76	3473632.82	3473632.91	0.0136	0.0127
Venus	4799-01-01 14:52 G	3473858.95	3473859.12	3473859.30	0.0137	0.0082
Moon	4799-01-02 06:43 G	3473859.61	3473859.78	3473859.99	0.0137	0.0086
Earth	4799-01-02 09:50 G	3473859.73	3473859.91	3473860.12	0.0137	0.0087 *
Venus	4799-08-15 22:04 G	3474085.22	3474085.42	3474085.64	0.0137	0.0037
Earth	4800-01-06 20:24 G	3474229.24	3474229.35	3474229.49	0.0137	0.0118
Moon	4800-01-07 00:00 G	3474229.37	3474229.50	3474229.65	0.0137	0.0114 *
Venus	4800-03-29 05:31 G	3474311.51	3474311.73	3474311.95	0.0137	0.0009

Venus	4800-11-10 12:57 G	3474537.85	3474538.04	3474538.25	0.0137	0.0055
Venus	4801-06-24 20:24 G	3474764.22	3474764.35	3474764.51	0.0138	0.0102
Mars	4828-01-11 02:52 G	3484460.39	3484460.62	3484460.86	0.0145	0.0102
Mars	4829-12-18 07:26 G	3485167.53	3485167.81	3485168.12	0.0145	0.0068
Earth	4832-05-31 15:07 G	3486063.12	3486063.13	3486063.18	0.0144	0.0143
Mercury	4833-02-06 07:55 G	3486313.79	3486313.83	3486313.89	0.0144	0.0138
Mercury	4833-05-05 15:21 G	3486402.04	3486402.14	3486402.27	0.0144	0.0110
Earth	4833-06-05 15:21 G	3486432.98	3486433.14	3486433.32	0.0144	0.0106
Moon	4833-06-05 16:19 G	3486433.04	3486433.18	3486433.36	0.0144	0.0108 *
Mercury	4833-08-01 23:16 G	3486490.32	3486490.47	3486490.62	0.0144	0.0081
Mercury	4833-10-29 06:43 G	3486578.61	3486578.78	3486578.96	0.0144	0.0053
Mercury	4834-01-25 14:24 G	3486666.92	3486667.10	3486667.29	0.0143	0.0024
Mercury	4834-04-23 22:04 G	3486755.24	3486755.42	3486755.61	0.0143	0.0007
Moon	4834-06-10 14:09 G	3486802.86	3486803.09	3486803.33	0.0143	0.0064
Earth	4834-06-10 15:07 G	3486802.92	3486803.13	3486803.37	0.0143	0.0069 *
Mercury	4834-07-21 05:45 G	3486843.57	3486843.74	3486843.93	0.0143	0.0035
Mercury	4834-10-17 13:40 G	3486931.90	3486932.07	3486932.24	0.0143	0.0063
Mercury	4835-01-13 21:07 G	3487020.25	3487020.38	3487020.54	0.0143	0.0093
Mercury	4835-04-12 05:02 G	3487108.63	3487108.71	3487108.82	0.0143	0.0122
Earth	4835-06-15 14:38 G	3487172.87	3487173.11	3487173.37	0.0143	0.0031
Moon	4835-06-15 14:52 G	3487172.88	3487173.12	3487173.36	0.0143	0.0037 *
Earth	4836-06-19 13:55 G	3487542.82	3487543.08	3487543.34	0.0143	0.0007
Moon	4836-06-19 14:24 G	3487542.84	3487543.10	3487543.37	0.0143	0.0014 *
Moon	4837-06-24 11:31 G	3487912.76	3487912.98	3487913.23	0.0142	0.0041
Earth	4837-06-24 12:28 G	3487912.79	3487913.02	3487913.27	0.0142	0.0044 *
Earth	4838-06-29 11:02 G	3488282.75	3488282.96	3488283.17	0.0142	0.0080
Moon	4838-06-29 12:57 G	3488282.83	3488283.04	3488283.27	0.0142	0.0079 *
Venus	4838-09-05 11:45 G	3488350.85	3488350.99	3488351.16	0.0142	0.0100
Venus	4839-04-19 22:19 G	3488577.23	3488577.43	3488577.64	0.0141	0.0049
Moon	4839-07-04 06:43 G	3488652.66	3488652.78	3488652.92	0.0141	0.0120

Earth	4839-07-04 08:52 G	3488652.73	3488652.87	3488653.02	0.0141	0.0116 *
Venus	4839-12-02 08:38 G	3488803.64	3488803.86	3488804.08	0.0141	0.0002
Venus	4840-07-15 18:28 G	3489030.07	3489030.27	3489030.47	0.0141	0.0051
Venus	4841-02-27 04:04 G	3489256.53	3489256.67	3489256.83	0.0141	0.0101
Jupiter	4856-05-22 09:50 G	3494819.41	3494819.91	3494820.42	0.0134	0.0019
Mars	4870-04-17 12:43 G	3499897.85	3499898.03	3499898.24	0.0133	0.0097
Mars	4872-03-16 13:40 G	3500596.79	3500597.07	3500597.36	0.0134	0.0011
Mars	4874-02-13 18:00 G	3501296.15	3501296.25	3501296.40	0.0134	0.0121
Earth	4875-12-05 04:04 G	3501955.59	3501955.67	3501955.75	0.0134	0.0127
Moon	4875-12-05 05:31 G	3501955.65	3501955.73	3501955.84	0.0134	0.0125 *
Mercury	4876-02-11 20:38 G	3502024.34	3502024.36	3502024.38	0.0134	0.0132
Mercury	4876-05-10 00:00 G	3502112.43	3502112.50	3502112.57	0.0134	0.0115
Mercury	4876-08-06 03:07 G	3502200.55	3502200.63	3502200.74	0.0135	0.0098
Mercury	4876-11-02 06:43 G	3502288.67	3502288.78	3502288.89	0.0135	0.0080
Moon	4876-12-08 10:04 G	3502324.76	3502324.92	3502325.10	0.0135	0.0097
Earth	4876-12-08 11:45 G	3502324.83	3502324.99	3502325.18	0.0135	0.0098 *
Mercury	4877-01-29 09:50 G	3502376.80	3502376.91	3502377.04	0.0135	0.0062
Mercury	4877-04-27 13:11 G	3502464.93	3502465.05	3502465.18	0.0135	0.0045
Mercury	4877-07-24 16:33 G	3502553.06	3502553.19	3502553.32	0.0135	0.0027
Mercury	4877-10-20 19:40 G	3502641.19	3502641.32	3502641.46	0.0135	0.0011
Earth	4877-12-12 19:55 G	3502694.13	3502694.33	3502694.57	0.0135	0.0067
Moon	4877-12-12 22:48 G	3502694.23	3502694.45	3502694.67	0.0135	0.0071 *
Mercury	4878-01-16 23:02 G	3502729.33	3502729.46	3502729.60	0.0135	0.0008
Mercury	4878-04-15 02:09 G	3502817.46	3502817.59	3502817.73	0.0135	0.0026
Mercury	4878-07-12 05:31 G	3502905.60	3502905.73	3502905.86	0.0135	0.0042
Mercury	4878-10-08 08:38 G	3502993.74	3502993.86	3502993.98	0.0135	0.0060
Moon	4878-12-17 02:52 G	3503063.39	3503063.62	3503063.87	0.0135	0.0031
Earth	4878-12-17 04:48 G	3503063.46	3503063.70	3503063.95	0.0135	0.0036 *
Mercury	4879-01-04 11:45 G	3503081.89	3503081.99	3503082.11	0.0135	0.0077
Mercury	4879-04-02 14:52 G	3503170.03	3503170.12	3503170.22	0.0135	0.0095

Mercury	4879-06-29 18:14 G	3503258.19	3503258.26	3503258.34	0.0135	0.0112
Mercury	4879-09-25 21:21 G	3503346.36	3503346.39	3503346.43	0.0135	0.0129
Earth	4879-12-21 13:55 G	3503432.83	3503433.08	3503433.33	0.0136	0.0005
Moon	4879-12-21 16:33 G	3503432.93	3503433.19	3503433.45	0.0136	0.0011 *
Moon	4880-12-24 20:38 G	3503802.13	3503802.36	3503802.60	0.0136	0.0034
Earth	4880-12-24 23:02 G	3503802.22	3503802.46	3503802.72	0.0136	0.0027 *
Earth	4881-12-29 08:38 G	3504171.65	3504171.86	3504172.10	0.0136	0.0059
Moon	4881-12-29 11:31 G	3504171.75	3504171.98	3504172.22	0.0136	0.0055 *
Venus	4882-08-31 22:48 G	3504417.32	3504417.45	3504417.61	0.0137	0.0104
Moon	4883-01-02 16:04 G	3504541.00	3504541.17	3504541.36	0.0137	0.0092
Earth	4883-01-02 18:57 G	3504541.12	3504541.29	3504541.49	0.0137	0.0091 *
Venus	4883-04-15 06:00 G	3504643.57	3504643.75	3504643.96	0.0137	0.0059
Venus	4883-11-27 13:40 G	3504869.85	3504870.07	3504870.29	0.0137	0.0013
Earth	4884-01-07 05:45 G	3504910.63	3504910.74	3504910.85	0.0137	0.0122
Moon	4884-01-07 08:09 G	3504910.75	3504910.84	3504910.97	0.0137	0.0124 *
Venus	4884-07-10 20:52 G	3505096.17	3505096.37	3505096.59	0.0137	0.0033
Venus	4885-02-22 04:33 G	3505322.51	3505322.69	3505322.87	0.0138	0.0079
Venus	4885-10-06 12:14 G	3505548.92	3505549.01	3505549.10	0.0138	0.0125
Mars	4912-09-07 14:09 G	3515380.77	3515381.09	3515381.41	0.0145	0.0038
Mars	4914-08-15 15:07 G	3516088.01	3516088.13	3516088.30	0.0144	0.0130
Moon	4916-06-01 21:07 G	3516744.31	3516744.38	3516744.48	0.0144	0.0135
Earth	4916-06-01 23:31 G	3516744.44	3516744.48	3516744.56	0.0144	0.0139 *
Mercury	4917-02-27 14:38 G	3517015.05	3517015.11	3517015.18	0.0144	0.0133
Mercury	4917-05-26 22:19 G	3517103.31	3517103.43	3517103.56	0.0144	0.0105
Earth	4917-06-06 23:31 G	3517114.32	3517114.48	3517114.67	0.0144	0.0102
Moon	4917-06-07 01:40 G	3517114.42	3517114.57	3517114.77	0.0144	0.0103 *
Mercury	4917-08-23 05:45 G	3517191.59	3517191.74	3517191.90	0.0144	0.0077
Mercury	4917-11-19 13:26 G	3517279.89	3517280.06	3517280.24	0.0144	0.0048
Mercury	4918-02-15 21:07 G	3517368.20	3517368.38	3517368.57	0.0143	0.0019
Mercury	4918-05-15 04:48 G	3517456.52	3517456.70	3517456.89	0.0143	0.0010

Moon	4918-06-11 21:50 G	3517484.19	3517484.41	3517484.66	0.0143	0.0069
Earth	4918-06-11 23:16 G	3517484.26	3517484.47	3517484.71	0.0143	0.0065 *
Mercury	4918-08-11 12:28 G	3517544.84	3517545.02	3517545.20	0.0143	0.0039
Mercury	4918-11-07 20:09 G	3517633.18	3517633.34	3517633.51	0.0143	0.0068
Mercury	4919-02-04 03:50 G	3517721.54	3517721.66	3517721.81	0.0143	0.0097
Mercury	4919-05-03 11:45 G	3517809.91	3517809.99	3517810.09	0.0143	0.0126
Earth	4919-06-16 22:33 G	3517854.20	3517854.44	3517854.70	0.0143	0.0027
Moon	4919-06-16 23:31 G	3517854.24	3517854.48	3517854.73	0.0143	0.0020 *
Moon	4920-06-20 21:35 G	3518224.13	3518224.40	3518224.66	0.0143	0.0004
Earth	4920-06-20 21:50 G	3518224.16	3518224.41	3518224.67	0.0143	0.0011 *
Moon	4921-06-25 19:55 G	3518594.11	3518594.33	3518594.57	0.0142	0.0052
Earth	4921-06-25 20:24 G	3518594.12	3518594.35	3518594.60	0.0142	0.0048 *
Venus	4922-05-06 18:00 G	3518909.16	3518909.25	3518909.36	0.0142	0.0125
Earth	4922-06-30 18:28 G	3518964.08	3518964.27	3518964.49	0.0142	0.0085
Moon	4922-06-30 19:26 G	3518964.10	3518964.31	3518964.53	0.0142	0.0083 *
Venus	4922-12-19 04:04 G	3519135.50	3519135.67	3519135.87	0.0142	0.0075
Moon	4923-07-05 14:38 G	3519333.99	3519334.11	3519334.26	0.0141	0.0116
Earth	4923-07-05 16:19 G	3519334.07	3519334.18	3519334.33	0.0141	0.0120 *
Venus	4923-08-02 14:24 G	3519361.89	3519362.10	3519362.32	0.0141	0.0024
Venus	4924-03-16 00:28 G	3519588.31	3519588.52	3519588.74	0.0141	0.0026
Venus	4924-10-28 10:19 G	3519814.75	3519814.93	3519815.12	0.0141	0.0076
Venus	4925-06-11 19:55 G	3520041.25	3520041.33	3520041.44	0.0140	0.0126
Mars	4954-12-11 11:31 G	3530815.74	3530815.98	3530816.25	0.0133	0.0056
Mars	4956-11-09 13:26 G	3531514.81	3531515.06	3531515.34	0.0134	0.0053
Earth	4959-12-06 12:00 G	3532636.91	3532637.00	3532637.10	0.0134	0.0124
Moon	4959-12-06 13:11 G	3532636.97	3532637.05	3532637.15	0.0134	0.0126 *
Mercury	4960-03-04 03:35 G	3532725.62	3532725.65	3532725.68	0.0134	0.0130
Mercury	4960-05-31 06:43 G	3532813.71	3532813.78	3532813.86	0.0135	0.0112
Mercury	4960-08-27 10:04 G	3532901.83	3532901.92	3532902.02	0.0135	0.0095
Mercury	4960-11-23 13:26 G	3532989.95	3532990.06	3532990.18	0.0135	0.0077

Moon	4960-12-09 18:14 G	3533006.10	3533006.26	3533006.45	0.0135	0.0095
Earth	4960-12-09 19:55 G	3533006.16	3533006.33	3533006.52	0.0135	0.0094 *
Mercury	4961-02-19 16:48 G	3533078.08	3533078.20	3533078.32	0.0135	0.0060
Mercury	4961-05-18 20:09 G	3533166.21	3533166.34	3533166.47	0.0135	0.0042
Mercury	4961-08-14 23:16 G	3533254.34	3533254.47	3533254.61	0.0135	0.0025
Mercury	4961-11-11 02:38 G	3533342.48	3533342.61	3533342.75	0.0135	0.0007
Earth	4961-12-14 04:04 G	3533375.47	3533375.67	3533375.91	0.0135	0.0064
Moon	4961-12-14 05:31 G	3533375.51	3533375.73	3533375.98	0.0135	0.0061 *
Mercury	4962-02-07 06:00 G	3533430.61	3533430.75	3533430.88	0.0135	0.0011
Mercury	4962-05-06 09:07 G	3533518.75	3533518.88	3533519.01	0.0135	0.0028
Mercury	4962-08-02 12:14 G	3533606.89	3533607.01	3533607.14	0.0135	0.0046
Mercury	4962-10-29 15:35 G	3533695.03	3533695.15	3533695.27	0.0135	0.0063
Moon	4962-12-18 11:16 G	3533744.74	3533744.97	3533745.21	0.0135	0.0039
Earth	4962-12-18 13:11 G	3533744.81	3533745.05	3533745.30	0.0135	0.0033 *
Mercury	4963-01-25 18:43 G	3533783.18	3533783.28	3533783.39	0.0135	0.0080
Mercury	4963-04-23 21:50 G	3533871.33	3533871.41	3533871.51	0.0135	0.0097
Mercury	4963-07-21 00:57 G	3533959.48	3533959.54	3533959.62	0.0135	0.0115
Mercury	4963-10-17 04:19 G	3534047.65	3534047.68	3534047.71	0.0136	0.0132
Earth	4963-12-22 22:19 G	3534114.18	3534114.43	3534114.69	0.0136	0.0002
Moon	4963-12-23 00:00 G	3534114.24	3534114.50	3534114.76	0.0136	0.0007 *
Moon	4964-12-26 05:45 G	3534483.51	3534483.74	3534483.99	0.0136	0.0025
Earth	4964-12-26 07:40 G	3534483.58	3534483.82	3534484.08	0.0136	0.0031 *
Earth	4965-12-30 17:16 G	3534853.01	3534853.22	3534853.46	0.0136	0.0064
Moon	4965-12-30 19:55 G	3534853.11	3534853.33	3534853.56	0.0136	0.0068 *
Venus	4966-05-02 06:43 G	3534975.72	3534975.78	3534975.88	0.0136	0.0126
Venus	4966-12-14 13:55 G	3535201.92	3535202.08	3535202.27	0.0137	0.0081
Moon	4967-01-04 01:40 G	3535222.41	3535222.57	3535222.76	0.0137	0.0093
Earth	4967-01-04 03:50 G	3535222.49	3535222.66	3535222.85	0.0137	0.0095 *
Venus	4967-07-28 21:21 G	3535428.19	3535428.39	3535428.61	0.0137	0.0035
Earth	4968-01-08 14:09 G	3535592.02	3535592.09	3535592.21	0.0137	0.0128

Moon	4968-01-08 17:16 G	3535592.13	3535592.22	3535592.34	0.0137	0.0124	*
Venus	4968-03-11 04:48 G	3535654.48	3535654.70	3535654.92	0.0137	0.0011	
Venus	4968-10-23 12:14 G	3535880.82	3535881.01	3535881.22	0.0137	0.0057	
Venus	4969-06-06 19:40 G	3536107.19	3536107.32	3536107.48	0.0138	0.0103	
Mars	4995-05-28 17:31 G	3545594.20	3545594.23	3545594.31	0.0145	0.0143	
Mars	4997-05-05 02:38 G	3546301.29	3546301.61	3546301.95	0.0145	0.0027	
Moon	5000-06-03 05:31 G	3547425.70	3547425.73	3547425.80	0.0144	0.0141	
Earth	5000-06-03 09:07 G	3547425.81	3547425.88	3547425.98	0.0144	0.0135	

6TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 6th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	5001-03-20 21:50 G		3547716.33	3547716.41	3547716.49	0.0144	0.0127	
Earth	5001-06-08 09:07 G		3547795.70	3547795.88	3547796.07	0.0144	0.0098	
Moon	5001-06-08 11:02 G		3547795.80	3547795.96	3547796.16	0.0144	0.0099	*
Mercury	5001-06-17 05:16 G		3547804.59	3547804.72	3547804.86	0.0144	0.0099	
Mercury	5001-09-13 12:43 G		3547892.88	3547893.03	3547893.20	0.0144	0.0071	
Mercury	5001-12-10 20:24 G		3547981.18	3547981.35	3547981.53	0.0144	0.0042	
Mercury	5002-03-09 04:04 G		3548069.49	3548069.67	3548069.86	0.0143	0.0013	
Mercury	5002-06-05 11:45 G		3548157.81	3548157.99	3548158.18	0.0143	0.0016	
Moon	5002-06-13 06:14 G		3548165.52	3548165.76	3548166.00	0.0143	0.0057	
Earth	5002-06-13 08:24 G		3548165.63	3548165.85	3548166.09	0.0143	0.0061	*
Mercury	5002-09-01 19:26 G		3548246.14	3548246.31	3548246.49	0.0143	0.0045	

Mercury	5002-11-29 03:07 G	3548334.48	3548334.63	3548334.80	0.0143	0.0074
Mercury	5003-02-25 10:48 G	3548422.83	3548422.95	3548423.09	0.0143	0.0103
Mercury	5003-05-24 18:43 G	3548511.22	3548511.28	3548511.36	0.0143	0.0132
Earth	5003-06-18 07:40 G	3548535.58	3548535.82	3548536.08	0.0143	0.0023
Moon	5003-06-18 09:21 G	3548535.65	3548535.89	3548536.14	0.0143	0.0029 *
Moon	5004-06-22 06:00 G	3548905.50	3548905.75	3548906.02	0.0143	0.0023
Earth	5004-06-22 06:57 G	3548905.54	3548905.79	3548906.05	0.0143	0.0015 *
Earth	5005-06-27 05:31 G	3549275.50	3549275.73	3549275.98	0.0142	0.0053
Moon	5005-06-27 06:00 G	3549275.53	3549275.75	3549275.99	0.0142	0.0048 *
Earth	5006-07-02 03:50 G	3549645.47	3549645.66	3549645.87	0.0142	0.0089
Moon	5006-07-02 04:19 G	3549645.49	3549645.68	3549645.90	0.0142	0.0090 *
Venus	5006-08-19 10:48 G	3549693.81	3549693.95	3549694.12	0.0142	0.0099
Venus	5007-04-02 21:07 G	3549920.19	3549920.38	3549920.60	0.0141	0.0049
Moon	5007-07-07 00:43 G	3550015.45	3550015.53	3550015.66	0.0141	0.0128
Earth	5007-07-07 01:40 G	3550015.46	3550015.57	3550015.70	0.0141	0.0125 *
Venus	5007-11-15 07:26 G	3550146.59	3550146.81	3550147.03	0.0141	0.0003
Venus	5008-06-28 17:16 G	3550373.02	3550373.22	3550373.43	0.0141	0.0052
Venus	5009-02-10 02:52 G	3550599.48	3550599.62	3550599.78	0.0141	0.0102
Mars	5037-09-06 12:43 G	3561034.93	3561035.03	3561035.17	0.0133	0.0120
Mars	5039-08-06 11:31 G	3561733.69	3561733.98	3561734.26	0.0134	0.0014
Mars	5041-07-05 14:52 G	3562432.92	3562433.12	3562433.33	0.0134	0.0094
Earth	5043-12-07 20:09 G	3563318.25	3563318.34	3563318.47	0.0134	0.0121
Moon	5043-12-07 20:38 G	3563318.26	3563318.36	3563318.51	0.0134	0.0118 *
Mercury	5044-03-25 10:19 G	3563426.89	3563426.93	3563426.98	0.0134	0.0127
Mercury	5044-06-21 13:40 G	3563515.00	3563515.07	3563515.15	0.0135	0.0109
Mercury	5044-09-17 17:02 G	3563603.11	3563603.21	3563603.31	0.0135	0.0092
Moon	5044-12-11 04:19 G	3563687.51	3563687.68	3563687.86	0.0135	0.0092
Earth	5044-12-11 04:33 G	3563687.52	3563687.69	3563687.89	0.0135	0.0091 *
Mercury	5044-12-14 20:24 G	3563691.24	3563691.35	3563691.47	0.0135	0.0074
Mercury	5045-03-12 23:31 G	3563779.37	3563779.48	3563779.61	0.0135	0.0057

Mercury	5045-06-09 02:52 G	3563867.50	3563867.62	3563867.76	0.0135	0.0039
Mercury	5045-09-05 06:14 G	3563955.63	3563955.76	3563955.90	0.0135	0.0021
Mercury	5045-12-02 09:35 G	3564043.76	3564043.90	3564044.03	0.0135	0.0004
Earth	5045-12-15 13:11 G	3564056.83	3564057.05	3564057.28	0.0135	0.0060
Moon	5045-12-15 14:24 G	3564056.87	3564057.10	3564057.34	0.0135	0.0063 *
Mercury	5046-02-28 12:43 G	3564131.90	3564132.03	3564132.17	0.0135	0.0014
Mercury	5046-05-27 16:04 G	3564220.04	3564220.17	3564220.30	0.0135	0.0031
Mercury	5046-08-23 19:11 G	3564308.18	3564308.30	3564308.43	0.0135	0.0049
Mercury	5046-11-19 22:19 G	3564396.32	3564396.43	3564396.56	0.0135	0.0066
Moon	5046-12-19 21:21 G	3564426.16	3564426.39	3564426.64	0.0135	0.0024
Earth	5046-12-19 22:04 G	3564426.18	3564426.42	3564426.67	0.0135	0.0029 *
Mercury	5047-02-16 01:40 G	3564484.47	3564484.57	3564484.68	0.0135	0.0083
Mercury	5047-05-15 04:48 G	3564572.62	3564572.70	3564572.80	0.0135	0.0101
Mercury	5047-08-11 08:09 G	3564660.78	3564660.84	3564660.90	0.0135	0.0118
Mercury	5047-11-07 11:16 G	3564748.96	3564748.97	3564748.98	0.0136	0.0135
Earth	5047-12-24 07:26 G	3564795.56	3564795.81	3564796.06	0.0136	0.0003
Moon	5047-12-24 08:52 G	3564795.61	3564795.87	3564796.13	0.0136	0.0004 *
Moon	5048-12-27 15:21 G	3565164.92	3565165.14	3565165.38	0.0136	0.0042
Earth	5048-12-27 16:48 G	3565164.96	3565165.20	3565165.45	0.0136	0.0035 *
Earth	5050-01-01 02:24 G	3565534.40	3565534.60	3565534.84	0.0136	0.0068
Moon	5050-01-01 04:19 G	3565534.45	3565534.68	3565534.91	0.0136	0.0062 *
Venus	5050-08-14 22:19 G	3565760.29	3565760.43	3565760.58	0.0137	0.0102
Moon	5051-01-05 10:48 G	3565903.81	3565903.95	3565904.13	0.0137	0.0102
Earth	5051-01-05 12:57 G	3565903.88	3565904.04	3565904.22	0.0137	0.0099 *
Venus	5051-03-29 05:31 G	3565986.54	3565986.73	3565986.93	0.0137	0.0057
Venus	5051-11-10 12:57 G	3566212.82	3566213.04	3566213.26	0.0137	0.0012
Earth	5052-01-09 23:16 G	3566273.42	3566273.47	3566273.56	0.0137	0.0131
Moon	5052-01-10 00:57 G	3566273.49	3566273.54	3566273.64	0.0137	0.0131 *
Venus	5052-06-23 20:09 G	3566439.14	3566439.34	3566439.56	0.0137	0.0034
Venus	5053-02-05 03:21 G	3566665.48	3566665.64	3566665.83	0.0138	0.0081

Venus	5053-09-19 10:48 G	3566891.89	3566891.95	3566892.06	0.0138	0.0127
Mars	5080-01-24 09:07 G	3576514.59	3576514.88	3576515.17	0.0145	0.0076
Mars	5081-12-31 14:38 G	3577221.87	3577222.11	3577222.38	0.0145	0.0092
Moon	5084-06-03 15:50 G	3578107.05	3578107.16	3578107.29	0.0144	0.0127
Earth	5084-06-03 19:11 G	3578107.21	3578107.30	3578107.40	0.0144	0.0132 *
Mercury	5085-04-10 04:48 G	3578417.61	3578417.70	3578417.81	0.0144	0.0121
Earth	5085-06-08 18:43 G	3578477.10	3578477.28	3578477.49	0.0144	0.0095
Moon	5085-06-08 21:50 G	3578477.25	3578477.41	3578477.61	0.0144	0.0097 *
Mercury	5085-07-07 12:14 G	3578505.88	3578506.01	3578506.16	0.0144	0.0093
Mercury	5085-10-03 19:55 G	3578594.17	3578594.33	3578594.50	0.0144	0.0064
Mercury	5085-12-31 03:35 G	3578682.47	3578682.65	3578682.83	0.0143	0.0035
Mercury	5086-03-29 11:16 G	3578770.79	3578770.97	3578771.16	0.0143	0.0007
Moon	5086-06-13 16:04 G	3578846.94	3578847.17	3578847.41	0.0143	0.0060
Earth	5086-06-13 18:43 G	3578847.05	3578847.28	3578847.52	0.0143	0.0057 *
Mercury	5086-06-25 18:57 G	3578859.11	3578859.29	3578859.48	0.0143	0.0023
Mercury	5086-09-22 02:38 G	3578947.44	3578947.61	3578947.79	0.0143	0.0052
Mercury	5086-12-19 10:33 G	3579035.79	3579035.94	3579036.09	0.0143	0.0081
Mercury	5087-03-17 18:00 G	3579124.15	3579124.25	3579124.38	0.0143	0.0110
Mercury	5087-06-14 01:55 G	3579212.55	3579212.58	3579212.63	0.0143	0.0139
Earth	5087-06-18 18:00 G	3579217.00	3579217.25	3579217.50	0.0143	0.0019
Moon	5087-06-18 20:09 G	3579217.09	3579217.34	3579217.59	0.0143	0.0012 *
Moon	5088-06-22 15:21 G	3579586.88	3579587.14	3579587.41	0.0143	0.0012
Earth	5088-06-22 17:02 G	3579586.96	3579587.21	3579587.47	0.0143	0.0020 *
Earth	5089-06-27 15:50 G	3579956.93	3579957.16	3579957.40	0.0142	0.0056
Moon	5089-06-27 16:19 G	3579956.97	3579957.18	3579957.41	0.0142	0.0062 *
Venus	5090-04-18 18:14 G	3580252.16	3580252.26	3580252.38	0.0142	0.0122
Moon	5090-07-02 12:57 G	3580326.85	3580327.04	3580327.26	0.0142	0.0091
Earth	5090-07-02 13:40 G	3580326.90	3580327.07	3580327.28	0.0142	0.0094 *
Venus	5090-12-01 04:33 G	3580478.51	3580478.69	3580478.89	0.0141	0.0072
Moon	5091-07-07 11:16 G	3580696.87	3580696.97	3580697.09	0.0141	0.0127

Earth	5091-07-07 11:31 G	3580696.90	3580696.98	3580697.10	0.0141	0.0129 *
Venus	5091-07-15 14:52 G	3580704.90	3580705.12	3580705.33	0.0141	0.0021
Venus	5092-02-27 00:43 G	3580931.32	3580931.53	3580931.75	0.0141	0.0029
Venus	5092-10-10 10:33 G	3581157.77	3581157.94	3581158.13	0.0141	0.0079
Venus	5093-05-24 20:24 G	3581384.27	3581384.35	3581384.44	0.0140	0.0128
Mars	5122-05-02 09:50 G	3591952.70	3591952.91	3591953.16	0.0133	0.0080
Mars	5124-03-31 10:33 G	3592651.66	3592651.94	3592652.22	0.0134	0.0028
Moon	5127-12-09 03:50 G	3593999.57	3593999.66	3593999.79	0.0134	0.0122
Earth	5127-12-09 04:04 G	3593999.57	3593999.67	3593999.81	0.0134	0.0119 *
Mercury	5128-04-15 17:02 G	3594128.17	3594128.21	3594128.27	0.0134	0.0124
Mercury	5128-07-12 20:24 G	3594216.28	3594216.35	3594216.44	0.0135	0.0107
Mercury	5128-10-08 23:45 G	3594304.40	3594304.49	3594304.60	0.0135	0.0089
Moon	5128-12-12 12:14 G	3594368.84	3594369.01	3594369.21	0.0135	0.0088
Earth	5128-12-12 12:14 G	3594368.84	3594369.01	3594369.22	0.0135	0.0089 *
Mercury	5129-01-05 03:07 G	3594392.52	3594392.63	3594392.75	0.0135	0.0071
Mercury	5129-04-03 06:28 G	3594480.65	3594480.77	3594480.90	0.0135	0.0054
Mercury	5129-06-30 09:50 G	3594568.78	3594568.91	3594569.04	0.0135	0.0036
Mercury	5129-09-26 13:11 G	3594656.91	3594657.05	3594657.18	0.0135	0.0019
Moon	5129-12-16 20:52 G	3594738.14	3594738.37	3594738.62	0.0135	0.0056
Earth	5129-12-16 21:21 G	3594738.16	3594738.39	3594738.62	0.0135	0.0057 *
Mercury	5129-12-23 16:19 G	3594745.05	3594745.18	3594745.32	0.0135	0.0003
Mercury	5130-03-21 19:40 G	3594833.18	3594833.32	3594833.45	0.0135	0.0017
Mercury	5130-06-17 22:48 G	3594921.32	3594921.45	3594921.58	0.0135	0.0034
Mercury	5130-09-14 02:09 G	3595009.46	3595009.59	3595009.71	0.0135	0.0051
Mercury	5130-12-11 05:16 G	3595097.61	3595097.72	3595097.84	0.0135	0.0069
Moon	5130-12-21 05:31 G	3595107.50	3595107.73	3595107.98	0.0135	0.0031
Earth	5130-12-21 06:14 G	3595107.52	3595107.76	3595108.01	0.0135	0.0026 *
Mercury	5131-03-09 08:24 G	3595185.76	3595185.85	3595185.96	0.0135	0.0086
Mercury	5131-06-05 11:45 G	3595273.91	3595273.99	3595274.08	0.0135	0.0103
Mercury	5131-09-01 14:52 G	3595362.07	3595362.12	3595362.18	0.0135	0.0121

Earth	5131-12-25 15:35 G	3595476.90	3595477.15	3595477.40	0.0136	0.0006
Moon	5131-12-25 15:50 G	3595476.90	3595477.16	3595477.42	0.0136	0.0013 *
Moon	5132-12-29 00:28 G	3595846.29	3595846.52	3595846.76	0.0136	0.0032
Earth	5132-12-29 01:11 G	3595846.31	3595846.55	3595846.79	0.0136	0.0038 *
Earth	5134-01-02 10:48 G	3596215.75	3596215.95	3596216.18	0.0136	0.0071
Moon	5134-01-02 12:14 G	3596215.80	3596216.01	3596216.23	0.0136	0.0076 *
Venus	5134-04-15 06:00 G	3596318.67	3596318.75	3596318.84	0.0136	0.0124
Venus	5134-11-27 13:11 G	3596544.88	3596545.05	3596545.23	0.0137	0.0079
Moon	5135-01-06 20:24 G	3596585.19	3596585.35	3596585.53	0.0137	0.0099
Earth	5135-01-06 21:07 G	3596585.23	3596585.38	3596585.56	0.0137	0.0103 *
Venus	5135-07-11 20:09 G	3596771.14	3596771.34	3596771.56	0.0137	0.0034
Earth	5136-01-11 07:55 G	3596954.79	3596954.83	3596954.88	0.0137	0.0135
Moon	5136-01-11 09:35 G	3596954.85	3596954.90	3596954.96	0.0137	0.0134 *
Venus	5136-02-23 03:35 G	3596997.44	3596997.65	3596997.87	0.0137	0.0012
Venus	5136-10-06 11:02 G	3597223.77	3597223.96	3597224.16	0.0138	0.0058
Venus	5137-05-20 18:28 G	3597450.14	3597450.27	3597450.42	0.0138	0.0104
Mars	5164-09-20 22:19 G	3607435.09	3607435.43	3607435.76	0.0145	0.0011
Moon	5168-06-05 00:28 G	3608788.46	3608788.52	3608788.63	0.0144	0.0136
Earth	5168-06-05 04:19 G	3608788.59	3608788.68	3608788.81	0.0144	0.0129 *
Mercury	5169-02-02 04:33 G	3609030.67	3609030.69	3609030.72	0.0144	0.0142
Mercury	5169-05-01 12:00 G	3609118.89	3609119.00	3609119.11	0.0144	0.0114
Earth	5169-06-10 04:04 G	3609158.50	3609158.67	3609158.89	0.0144	0.0092
Moon	5169-06-10 07:11 G	3609158.63	3609158.80	3609159.02	0.0144	0.0091 *
Mercury	5169-07-28 19:26 G	3609207.17	3609207.31	3609207.46	0.0144	0.0086
Mercury	5169-10-25 03:07 G	3609295.46	3609295.63	3609295.80	0.0144	0.0057
Mercury	5170-01-21 10:48 G	3609383.77	3609383.95	3609384.13	0.0143	0.0029
Mercury	5170-04-19 18:28 G	3609472.08	3609472.27	3609472.45	0.0143	0.0002
Moon	5170-06-15 00:57 G	3609528.30	3609528.54	3609528.78	0.0143	0.0051
Earth	5170-06-15 04:04 G	3609528.44	3609528.67	3609528.91	0.0143	0.0053 *
Mercury	5170-07-17 01:55 G	3609560.41	3609560.58	3609560.77	0.0143	0.0030

Mercury	5170-10-13 09:35 G	3609648.74	3609648.90	3609649.08	0.0143	0.0059
Mercury	5171-01-09 17:31 G	3609737.09	3609737.23	3609737.38	0.0143	0.0087
Mercury	5171-04-08 01:11 G	3609825.45	3609825.55	3609825.67	0.0143	0.0116
Earth	5171-06-20 03:35 G	3609898.40	3609898.65	3609898.91	0.0143	0.0015
Moon	5171-06-20 06:14 G	3609898.52	3609898.76	3609899.01	0.0143	0.0021 *
Moon	5172-06-24 00:43 G	3610268.28	3610268.53	3610268.79	0.0142	0.0031
Earth	5172-06-24 02:52 G	3610268.37	3610268.62	3610268.88	0.0142	0.0023 *
Earth	5173-06-29 01:26 G	3610638.33	3610638.56	3610638.80	0.0142	0.0061
Moon	5173-06-29 03:21 G	3610638.41	3610638.64	3610638.87	0.0142	0.0054 *
Moon	5174-07-03 23:02 G	3611008.28	3611008.46	3611008.66	0.0142	0.0099
Earth	5174-07-04 00:00 G	3611008.31	3611008.50	3611008.68	0.0142	0.0097 *
Venus	5174-08-01 11:45 G	3611036.83	3611036.99	3611037.15	0.0142	0.0095
Venus	5175-03-15 21:50 G	3611263.21	3611263.41	3611263.63	0.0141	0.0045
Earth	5175-07-08 21:21 G	3611378.33	3611378.39	3611378.49	0.0141	0.0133
Moon	5175-07-08 22:04 G	3611378.37	3611378.42	3611378.51	0.0141	0.0135 *
Venus	5175-10-28 08:09 G	3611489.62	3611489.84	3611490.06	0.0141	0.0006
Venus	5176-06-10 18:00 G	3611716.06	3611716.25	3611716.46	0.0141	0.0056
Venus	5177-01-23 03:21 G	3611942.52	3611942.64	3611942.81	0.0141	0.0106
Mars	5206-12-25 09:50 G	3622870.64	3622870.91	3622871.19	0.0133	0.0038
Mars	5208-11-23 11:31 G	3623569.76	3623569.98	3623570.24	0.0134	0.0070
Moon	5211-12-09 12:00 G	3624680.86	3624681.00	3624681.15	0.0134	0.0111
Earth	5211-12-09 12:57 G	3624680.91	3624681.04	3624681.16	0.0134	0.0116 *
Mercury	5212-05-06 00:00 G	3624829.45	3624829.50	3624829.56	0.0134	0.0121
Mercury	5212-08-02 03:21 G	3624917.56	3624917.64	3624917.73	0.0134	0.0103
Mercury	5212-10-29 06:43 G	3625005.68	3625005.78	3625005.89	0.0135	0.0086
Earth	5212-12-12 20:52 G	3625050.19	3625050.37	3625050.58	0.0135	0.0086
Moon	5212-12-12 22:19 G	3625050.24	3625050.43	3625050.61	0.0135	0.0088 *
Mercury	5213-01-25 10:04 G	3625093.81	3625093.92	3625094.04	0.0135	0.0068
Mercury	5213-04-23 13:26 G	3625181.93	3625182.06	3625182.19	0.0135	0.0050
Mercury	5213-07-20 16:48 G	3625270.07	3625270.20	3625270.33	0.0135	0.0033

Mercury	5213-10-16 19:55 G	3625358.20	3625358.33	3625358.47	0.0135	0.0016
Moon	5213-12-17 05:31 G	3625419.50	3625419.73	3625419.98	0.0135	0.0056
Earth	5213-12-17 06:00 G	3625419.52	3625419.75	3625419.98	0.0135	0.0054 *
Mercury	5214-01-12 23:16 G	3625446.34	3625446.47	3625446.61	0.0135	0.0003
Mercury	5214-04-11 02:38 G	3625534.47	3625534.61	3625534.74	0.0135	0.0020
Mercury	5214-07-08 05:45 G	3625622.61	3625622.74	3625622.87	0.0135	0.0037
Mercury	5214-10-04 08:52 G	3625710.75	3625710.87	3625711.00	0.0135	0.0055
Earth	5214-12-21 14:52 G	3625788.88	3625789.12	3625789.38	0.0135	0.0023
Moon	5214-12-21 15:35 G	3625788.91	3625789.15	3625789.40	0.0135	0.0019 *
Mercury	5214-12-31 12:14 G	3625798.90	3625799.01	3625799.13	0.0135	0.0072
Mercury	5215-03-29 15:21 G	3625887.05	3625887.14	3625887.25	0.0135	0.0090
Mercury	5215-06-25 18:43 G	3625975.20	3625975.28	3625975.36	0.0135	0.0107
Mercury	5215-09-21 21:50 G	3626063.36	3626063.41	3626063.47	0.0135	0.0124
Moon	5215-12-26 00:14 G	3626158.25	3626158.51	3626158.77	0.0136	0.0003
Earth	5215-12-26 00:14 G	3626158.26	3626158.51	3626158.77	0.0136	0.0009 *
Earth	5216-12-29 09:50 G	3626527.67	3626527.91	3626528.15	0.0136	0.0041
Moon	5216-12-29 09:35 G	3626527.68	3626527.90	3626528.14	0.0136	0.0049 *
Moon	5218-01-02 19:40 G	3626897.09	3626897.32	3626897.55	0.0136	0.0068
Earth	5218-01-02 19:11 G	3626897.11	3626897.30	3626897.53	0.0136	0.0075 *
Venus	5218-07-27 20:38 G	3627103.23	3627103.36	3627103.52	0.0137	0.0101
Moon	5219-01-07 04:48 G	3627266.58	3627266.70	3627266.86	0.0137	0.0110
Earth	5219-01-07 05:45 G	3627266.59	3627266.74	3627266.91	0.0137	0.0106 *
Venus	5219-03-11 03:50 G	3627329.47	3627329.66	3627329.87	0.0137	0.0056
Venus	5219-10-23 11:31 G	3627555.76	3627555.98	3627556.19	0.0137	0.0011
Moon	5220-01-11 16:19 G	3627636.17	3627636.18	3627636.23	0.0137	0.0136
Venus	5220-06-05 18:43 G	3627782.07	3627782.28	3627782.49	0.0137	0.0035
Venus	5221-01-18 01:40 G	3628008.41	3628008.57	3628008.76	0.0138	0.0082
Venus	5221-09-01 09:07 G	3628234.82	3628234.88	3628234.98	0.0138	0.0128
Mars	5247-06-10 21:21 G	3637648.22	3637648.39	3637648.61	0.0145	0.0117
Mars	5249-05-18 07:11 G	3638355.50	3638355.80	3638356.12	0.0145	0.0052

Moon	5252-06-05 09:35 G	3639469.77	3639469.90	3639470.05	0.0144	0.0120
Earth	5252-06-05 12:57 G	3639469.94	3639470.04	3639470.18	0.0144	0.0126 *
Mercury	5253-02-22 11:16 G	3639731.93	3639731.97	3639732.03	0.0144	0.0137
Mercury	5253-05-21 18:43 G	3639820.17	3639820.28	3639820.41	0.0144	0.0109
Earth	5253-06-10 12:57 G	3639839.85	3639840.04	3639840.25	0.0144	0.0088
Moon	5253-06-10 16:48 G	3639840.01	3639840.20	3639840.40	0.0144	0.0091 *
Mercury	5253-08-18 02:09 G	3639908.45	3639908.59	3639908.75	0.0144	0.0081
Mercury	5253-11-14 10:04 G	3639996.75	3639996.92	3639997.09	0.0143	0.0052
Mercury	5254-02-10 17:31 G	3640085.05	3640085.23	3640085.42	0.0143	0.0023
Mercury	5254-05-10 01:11 G	3640173.37	3640173.55	3640173.74	0.0143	0.0006
Moon	5254-06-15 09:35 G	3640209.66	3640209.90	3640210.15	0.0143	0.0051
Earth	5254-06-15 12:43 G	3640209.80	3640210.03	3640210.28	0.0143	0.0050 *
Mercury	5254-08-06 08:52 G	3640261.69	3640261.87	3640262.05	0.0143	0.0035
Mercury	5254-11-02 16:48 G	3640350.03	3640350.20	3640350.36	0.0143	0.0064
Mercury	5255-01-30 00:14 G	3640438.38	3640438.51	3640438.66	0.0143	0.0093
Mercury	5255-04-28 07:55 G	3640526.75	3640526.83	3640526.94	0.0143	0.0122
Earth	5255-06-20 12:28 G	3640579.77	3640580.02	3640580.28	0.0143	0.0012
Moon	5255-06-20 15:35 G	3640579.90	3640580.15	3640580.40	0.0143	0.0005 *
Moon	5256-06-24 08:52 G	3640949.61	3640949.87	3640950.13	0.0142	0.0020
Earth	5256-06-24 11:45 G	3640949.74	3640949.99	3640950.24	0.0142	0.0027 *
Earth	5257-06-29 10:19 G	3641319.71	3641319.93	3641320.17	0.0142	0.0064
Moon	5257-06-29 12:28 G	3641319.80	3641320.02	3641320.24	0.0142	0.0070 *
Venus	5258-03-31 18:14 G	3641595.15	3641595.26	3641595.38	0.0142	0.0119
Moon	5258-07-04 06:28 G	3641689.59	3641689.77	3641689.98	0.0142	0.0097
Earth	5258-07-04 08:52 G	3641689.69	3641689.87	3641690.05	0.0142	0.0101 *
Venus	5258-11-13 04:33 G	3641821.51	3641821.69	3641821.89	0.0142	0.0068
Venus	5259-06-27 14:38 G	3642047.90	3642048.11	3642048.34	0.0141	0.0019
Earth	5259-07-09 06:14 G	3642059.72	3642059.76	3642059.84	0.0141	0.0137
Moon	5259-07-09 07:11 G	3642059.76	3642059.80	3642059.88	0.0141	0.0136 *
Venus	5260-02-09 00:43 G	3642274.32	3642274.53	3642274.75	0.0141	0.0032

Venus	5260-09-22 10:33 G	3642500.77	3642500.94	3642501.12	0.0141	0.0082
Venus	5261-05-06 20:24 G	3642727.28	3642727.35	3642727.43	0.0140	0.0131
Mars	5289-09-19 11:16 G	3653089.80	3653089.97	3653090.16	0.0133	0.0103
Mars	5291-08-19 10:04 G	3653788.63	3653788.92	3653789.20	0.0133	0.0003
Mars	5293-07-18 11:45 G	3654487.84	3654487.99	3654488.16	0.0134	0.0110
Moon	5295-12-09 19:26 G	3655362.18	3655362.31	3655362.43	0.0134	0.0118
Earth	5295-12-09 20:52 G	3655362.24	3655362.37	3655362.52	0.0134	0.0113 *
Mercury	5296-05-26 06:57 G	3655530.73	3655530.79	3655530.85	0.0134	0.0118
Mercury	5296-08-22 10:04 G	3655618.84	3655618.92	3655619.02	0.0134	0.0101
Mercury	5296-11-18 13:40 G	3655706.96	3655707.07	3655707.18	0.0135	0.0083
Earth	5296-12-13 05:02 G	3655731.53	3655731.71	3655731.93	0.0135	0.0083
Moon	5296-12-13 06:14 G	3655731.58	3655731.76	3655731.97	0.0135	0.0081 *
Mercury	5297-02-14 17:02 G	3655795.09	3655795.21	3655795.33	0.0135	0.0065
Mercury	5297-05-13 20:09 G	3655883.22	3655883.34	3655883.47	0.0135	0.0048
Mercury	5297-08-09 23:31 G	3655971.35	3655971.48	3655971.62	0.0135	0.0030
Mercury	5297-11-06 02:52 G	3656059.49	3656059.62	3656059.76	0.0135	0.0012
Moon	5297-12-17 12:14 G	3656100.78	3656101.01	3656101.27	0.0135	0.0052
Earth	5297-12-17 14:09 G	3656100.86	3656101.09	3656101.33	0.0135	0.0051 *
Mercury	5298-02-02 06:14 G	3656147.62	3656147.76	3656147.89	0.0135	0.0006
Mercury	5298-05-01 09:21 G	3656235.76	3656235.89	3656236.03	0.0135	0.0023
Mercury	5298-07-28 12:43 G	3656323.90	3656324.03	3656324.16	0.0135	0.0040
Mercury	5298-10-24 15:50 G	3656412.04	3656412.16	3656412.29	0.0135	0.0058
Earth	5298-12-21 23:16 G	3656470.22	3656470.47	3656470.72	0.0135	0.0019
Moon	5298-12-22 00:00 G	3656470.26	3656470.50	3656470.75	0.0135	0.0023 *
Mercury	5299-01-20 18:57 G	3656500.19	3656500.29	3656500.41	0.0135	0.0075
Mercury	5299-04-18 22:19 G	3656588.34	3656588.43	3656588.53	0.0135	0.0092
Mercury	5299-07-16 01:26 G	3656676.49	3656676.56	3656676.64	0.0135	0.0109
Mercury	5299-10-12 04:33 G	3656764.66	3656764.69	3656764.74	0.0135	0.0127
Moon	5299-12-26 07:11 G	3656839.55	3656839.80	3656840.06	0.0136	0.0019
Earth	5299-12-26 08:24 G	3656839.60	3656839.85	3656840.10	0.0136	0.0013 *

Earth	5300-12-30 17:45 G	3657209.01	3657209.24	3657209.48	0.0136	0.0045
Moon	5300-12-30 18:28 G	3657209.05	3657209.27	3657209.51	0.0136	0.0039 *
Moon	5302-01-04 03:07 G	3657578.44	3657578.63	3657578.85	0.0136	0.0084
Earth	5302-01-04 03:21 G	3657578.45	3657578.64	3657578.86	0.0136	0.0077 *
Venus	5302-03-28 04:04 G	3657661.59	3657661.67	3657661.78	0.0136	0.0123
Venus	5302-11-09 11:31 G	3657887.81	3657887.98	3657888.16	0.0137	0.0078
Earth	5303-01-08 13:11 G	3657947.92	3657948.05	3657948.22	0.0137	0.0110
Moon	5303-01-08 13:55 G	3657947.94	3657948.08	3657948.25	0.0137	0.0105 *
Venus	5303-06-23 18:28 G	3658114.07	3658114.27	3658114.49	0.0137	0.0033
Venus	5304-02-05 01:55 G	3658340.36	3658340.58	3658340.80	0.0137	0.0013
Venus	5304-09-18 09:07 G	3658566.69	3658566.88	3658567.08	0.0137	0.0059
Venus	5305-05-02 16:19 G	3658793.06	3658793.18	3658793.34	0.0138	0.0105
Mars	5332-02-06 08:09 G	3668568.53	3668568.84	3668569.15	0.0145	0.0054
Mars	5334-01-13 15:07 G	3669275.94	3669276.13	3669276.35	0.0145	0.0113
Moon	5336-06-06 17:16 G	3670151.14	3670151.22	3670151.35	0.0144	0.0130
Earth	5336-06-06 21:07 G	3670151.26	3670151.38	3670151.52	0.0144	0.0122 *
Mercury	5337-03-15 18:00 G	3670433.19	3670433.25	3670433.33	0.0144	0.0132
Earth	5337-06-11 21:07 G	3670521.19	3670521.38	3670521.60	0.0144	0.0085
Moon	5337-06-12 00:43 G	3670521.33	3670521.53	3670521.75	0.0144	0.0082 *
Mercury	5337-06-12 01:26 G	3670521.44	3670521.56	3670521.69	0.0144	0.0104 *
Mercury	5337-09-08 09:07 G	3670609.73	3670609.88	3670610.04	0.0144	0.0076
Mercury	5337-12-05 16:33 G	3670698.02	3670698.19	3670698.37	0.0143	0.0047
Mercury	5338-03-04 00:14 G	3670786.33	3670786.51	3670786.70	0.0143	0.0019
Mercury	5338-05-31 07:55 G	3670874.65	3670874.83	3670875.02	0.0143	0.0011
Moon	5338-06-16 17:31 G	3670890.99	3670891.23	3670891.47	0.0143	0.0045
Earth	5338-06-16 21:07 G	3670891.15	3670891.38	3670891.63	0.0143	0.0046 *
Mercury	5338-08-27 15:35 G	3670962.97	3670963.15	3670963.33	0.0143	0.0039
Mercury	5338-11-23 23:16 G	3671051.31	3671051.47	3671051.64	0.0143	0.0069
Mercury	5339-02-20 07:11 G	3671139.66	3671139.80	3671139.94	0.0143	0.0097
Mercury	5339-05-19 14:38 G	3671228.04	3671228.11	3671228.21	0.0143	0.0127

Earth	5339-06-21 20:52 G	3671261.12	3671261.37	3671261.63	0.0143	0.0007
Moon	5339-06-22 00:14 G	3671261.26	3671261.51	3671261.76	0.0143	0.0012 *
Moon	5340-06-25 16:48 G	3671630.96	3671631.20	3671631.46	0.0143	0.0039
Earth	5340-06-25 20:09 G	3671631.09	3671631.34	3671631.59	0.0143	0.0031 *
Earth	5341-06-30 18:43 G	3672001.06	3672001.28	3672001.51	0.0142	0.0068
Moon	5341-06-30 21:35 G	3672001.18	3672001.40	3672001.63	0.0142	0.0061 *
Moon	5342-07-05 14:38 G	3672370.96	3672371.11	3672371.30	0.0142	0.0109
Earth	5342-07-05 17:02 G	3672371.05	3672371.21	3672371.39	0.0142	0.0105 *
Venus	5342-07-14 10:33 G	3672379.79	3672379.94	3672380.12	0.0142	0.0094
Venus	5343-02-25 21:07 G	3672606.17	3672606.38	3672606.58	0.0141	0.0043
Earth	5343-07-10 14:38 G	3672741.11	3672741.11	3672741.14	0.0141	0.0141
Moon	5343-07-10 17:02 G	3672741.19	3672741.21	3672741.23	0.0141	0.0141
Venus	5343-10-10 07:11 G	3672832.58	3672832.80	3672833.02	0.0141	0.0008
Venus	5344-05-23 16:48 G	3673059.02	3673059.20	3673059.42	0.0141	0.0058
Venus	5345-01-05 02:38 G	3673285.48	3673285.61	3673285.76	0.0141	0.0107
Mars	5374-05-15 11:02 G	3684007.72	3684007.96	3684008.22	0.0133	0.0063
Mars	5376-04-13 09:50 G	3684706.66	3684706.91	3684707.19	0.0134	0.0044
Moon	5379-12-11 03:35 G	3686043.51	3686043.65	3686043.84	0.0134	0.0103
Earth	5379-12-11 05:45 G	3686043.61	3686043.74	3686043.91	0.0134	0.0110 *
Mercury	5380-03-20 10:19 G	3686143.92	3686143.93	3686143.96	0.0134	0.0132
Mercury	5380-06-16 13:55 G	3686232.01	3686232.08	3686232.15	0.0134	0.0114
Mercury	5380-09-12 17:16 G	3686320.13	3686320.22	3686320.32	0.0134	0.0097
Mercury	5380-12-09 20:24 G	3686408.25	3686408.35	3686408.47	0.0135	0.0080
Earth	5380-12-14 14:24 G	3686412.91	3686413.10	3686413.32	0.0135	0.0079
Moon	5380-12-14 16:33 G	3686413.01	3686413.19	3686413.40	0.0135	0.0083 *
Mercury	5381-03-08 00:00 G	3686496.38	3686496.50	3686496.62	0.0135	0.0062
Mercury	5381-06-04 03:21 G	3686584.51	3686584.64	3686584.77	0.0135	0.0044
Mercury	5381-08-31 06:28 G	3686672.64	3686672.77	3686672.91	0.0135	0.0027
Mercury	5381-11-27 09:50 G	3686760.78	3686760.91	3686761.05	0.0135	0.0010
Moon	5381-12-18 21:50 G	3686782.17	3686782.41	3686782.66	0.0135	0.0047

Earth	5381-12-18 23:31 G	3686782.24	3686782.48	3686782.72	0.0135	0.0047 *
Mercury	5382-02-23 13:11 G	3686848.91	3686849.05	3686849.19	0.0135	0.0009
Mercury	5382-05-22 16:33 G	3686937.05	3686937.19	3686937.32	0.0135	0.0026
Mercury	5382-08-18 19:40 G	3687025.19	3687025.32	3687025.45	0.0135	0.0043
Mercury	5382-11-14 22:48 G	3687113.34	3687113.45	3687113.58	0.0135	0.0061
Earth	5382-12-23 08:24 G	3687151.60	3687151.85	3687152.10	0.0135	0.0016
Moon	5382-12-23 10:04 G	3687151.68	3687151.92	3687152.17	0.0135	0.0014 *
Mercury	5383-02-11 02:09 G	3687201.48	3687201.59	3687201.70	0.0135	0.0078
Mercury	5383-05-10 05:16 G	3687289.63	3687289.72	3687289.82	0.0135	0.0095
Mercury	5383-08-06 08:38 G	3687377.79	3687377.86	3687377.93	0.0135	0.0113
Mercury	5383-11-02 11:45 G	3687465.96	3687465.99	3687466.03	0.0135	0.0130
Moon	5383-12-27 15:50 G	3687520.90	3687521.16	3687521.42	0.0136	0.0012
Earth	5383-12-27 17:31 G	3687520.98	3687521.23	3687521.48	0.0136	0.0017 *
Earth	5384-12-31 02:38 G	3687890.38	3687890.61	3687890.86	0.0136	0.0049
Moon	5384-12-31 04:04 G	3687890.45	3687890.67	3687890.90	0.0136	0.0056 *
Moon	5386-01-04 10:48 G	3688259.74	3688259.95	3688260.18	0.0136	0.0075
Earth	5386-01-04 12:14 G	3688259.82	3688260.01	3688260.23	0.0136	0.0082 *
Venus	5386-07-09 19:11 G	3688446.17	3688446.30	3688446.47	0.0136	0.0100
Earth	5387-01-08 22:04 G	3688629.31	3688629.42	3688629.58	0.0137	0.0114
Moon	5387-01-08 22:48 G	3688629.35	3688629.45	3688629.59	0.0137	0.0119 *
Venus	5387-02-21 02:24 G	3688672.41	3688672.60	3688672.81	0.0137	0.0055
Venus	5387-10-05 09:50 G	3688898.69	3688898.91	3688899.13	0.0137	0.0009
Venus	5388-05-18 17:02 G	3689125.00	3689125.21	3689125.42	0.0137	0.0036
Venus	5388-12-31 00:14 G	3689351.35	3689351.51	3689351.70	0.0138	0.0082
Venus	5389-08-14 07:55 G	3689577.76	3689577.83	3689577.91	0.0138	0.0128
Mars	5416-10-03 18:14 G	3699488.92	3699489.26	3699489.59	0.0145	0.0008
Moon	5420-06-08 02:09 G	3700832.44	3700832.59	3700832.75	0.0144	0.0112
Earth	5420-06-08 05:16 G	3700832.60	3700832.72	3700832.88	0.0144	0.0119 *
Mercury	5421-04-06 00:28 G	3701134.46	3701134.52	3701134.62	0.0144	0.0128
Earth	5421-06-13 05:16 G	3701202.52	3701202.72	3701202.94	0.0144	0.0081

Moon	5421-06-13 08:52 G	3701202.68	3701202.87	3701203.10	0.0144	0.0085 *
Mercury	5421-07-03 08:09 G	3701222.72	3701222.84	3701222.98	0.0144	0.0099
Mercury	5421-09-29 15:50 G	3701311.00	3701311.16	3701311.32	0.0144	0.0071
Mercury	5421-12-26 23:16 G	3701399.30	3701399.47	3701399.65	0.0144	0.0043
Mercury	5422-03-25 06:57 G	3701487.61	3701487.79	3701487.98	0.0143	0.0014
Moon	5422-06-18 01:55 G	3701572.35	3701572.58	3701572.83	0.0143	0.0042
Earth	5422-06-18 05:16 G	3701572.49	3701572.72	3701572.98	0.0143	0.0043 *
Mercury	5422-06-21 14:38 G	3701575.93	3701576.11	3701576.30	0.0143	0.0015
Mercury	5422-09-17 22:19 G	3701664.26	3701664.43	3701664.61	0.0143	0.0044
Mercury	5422-12-15 06:00 G	3701752.60	3701752.75	3701752.92	0.0143	0.0073
Mercury	5423-03-13 13:40 G	3701840.95	3701841.07	3701841.21	0.0143	0.0102
Mercury	5423-06-09 21:35 G	3701929.33	3701929.40	3701929.48	0.0143	0.0131
Earth	5423-06-23 05:16 G	3701942.46	3701942.72	3701942.97	0.0143	0.0004
Moon	5423-06-23 08:52 G	3701942.62	3701942.87	3701943.12	0.0143	0.0002 *
Moon	5424-06-27 00:43 G	3702312.28	3702312.53	3702312.79	0.0143	0.0028
Earth	5424-06-27 04:19 G	3702312.43	3702312.68	3702312.93	0.0143	0.0035 *
Earth	5425-07-02 02:52 G	3702682.41	3702682.62	3702682.85	0.0142	0.0072
Moon	5425-07-02 06:00 G	3702682.54	3702682.75	3702682.96	0.0142	0.0080 *
Venus	5426-03-14 16:19 G	3702938.08	3702938.18	3702938.32	0.0142	0.0119
Moon	5426-07-06 21:50 G	3703052.25	3703052.41	3703052.60	0.0142	0.0104
Earth	5426-07-07 00:57 G	3703052.40	3703052.54	3703052.72	0.0142	0.0110 *
Venus	5426-10-27 03:07 G	3703164.44	3703164.63	3703164.82	0.0142	0.0068
Venus	5427-06-10 13:26 G	3703390.84	3703391.06	3703391.27	0.0141	0.0017
Venus	5428-01-22 23:16 G	3703617.26	3703617.47	3703617.69	0.0141	0.0033
Venus	5428-09-05 09:07 G	3703843.71	3703843.88	3703844.06	0.0141	0.0082
Venus	5429-04-19 18:43 G	3704070.22	3704070.28	3704070.37	0.0141	0.0132
Mars	5457-02-08 13:11 G	3714226.98	3714227.05	3714227.15	0.0133	0.0127
Mars	5459-01-08 10:04 G	3714925.64	3714925.92	3714926.20	0.0133	0.0022
Mars	5460-12-07 09:35 G	3715624.70	3715624.90	3715625.14	0.0134	0.0085
Moon	5462-12-08 09:21 G	3716355.82	3716355.89	3716355.96	0.0134	0.0128

Moon	5463-12-12 11:45 G	3716724.86	3716724.99	3716725.15	0.0134	0.0112
Earth	5463-12-12 14:38 G	3716724.97	3716725.11	3716725.28	0.0134	0.0106 *
Mercury	5464-04-10 17:16 G	3716845.19	3716845.22	3716845.26	0.0134	0.0129
Mercury	5464-07-07 20:38 G	3716933.30	3716933.36	3716933.45	0.0134	0.0112
Mercury	5464-10-04 00:14 G	3717021.41	3717021.51	3717021.61	0.0134	0.0094
Earth	5464-12-15 23:16 G	3717094.27	3717094.47	3717094.69	0.0135	0.0075
Moon	5464-12-16 01:26 G	3717094.36	3717094.56	3717094.78	0.0135	0.0072 *
Mercury	5464-12-31 03:21 G	3717109.54	3717109.64	3717109.76	0.0135	0.0077
Mercury	5465-03-29 06:43 G	3717197.67	3717197.78	3717197.91	0.0135	0.0059
Mercury	5465-06-25 10:19 G	3717285.80	3717285.93	3717286.06	0.0135	0.0041
Mercury	5465-09-21 13:26 G	3717373.93	3717374.06	3717374.20	0.0135	0.0024
Mercury	5465-12-18 16:48 G	3717462.07	3717462.20	3717462.34	0.0135	0.0006
Moon	5465-12-20 05:16 G	3717463.48	3717463.72	3717463.97	0.0135	0.0045
Earth	5465-12-20 08:09 G	3717463.60	3717463.84	3717464.08	0.0135	0.0043 *
Mercury	5466-03-16 20:09 G	3717550.20	3717550.34	3717550.47	0.0135	0.0012
Mercury	5466-06-12 23:16 G	3717638.34	3717638.47	3717638.61	0.0135	0.0029
Mercury	5466-09-09 02:38 G	3717726.48	3717726.61	3717726.74	0.0135	0.0046
Mercury	5466-12-06 05:45 G	3717814.63	3717814.74	3717814.86	0.0135	0.0064
Earth	5466-12-24 17:02 G	3717832.95	3717833.21	3717833.46	0.0135	0.0012
Moon	5466-12-24 18:57 G	3717833.05	3717833.29	3717833.54	0.0135	0.0014 *
Mercury	5467-03-04 08:52 G	3717902.77	3717902.87	3717902.99	0.0135	0.0082
Mercury	5467-05-31 12:14 G	3717990.92	3717991.01	3717991.10	0.0135	0.0098
Mercury	5467-08-27 15:21 G	3718079.08	3718079.14	3718079.22	0.0135	0.0116
Mercury	5467-11-23 18:43 G	3718167.26	3718167.28	3718167.30	0.0136	0.0133
Moon	5467-12-28 23:31 G	3718202.23	3718202.48	3718202.74	0.0136	0.0026
Earth	5467-12-29 01:55 G	3718202.33	3718202.58	3718202.83	0.0136	0.0021 *
Earth	5469-01-01 11:16 G	3718571.74	3718571.97	3718572.20	0.0136	0.0053
Moon	5469-01-01 13:26 G	3718571.83	3718572.06	3718572.29	0.0136	0.0047 *
Moon	5470-01-05 18:57 G	3718941.12	3718941.29	3718941.50	0.0136	0.0093
Earth	5470-01-05 20:52 G	3718941.18	3718941.37	3718941.58	0.0136	0.0085 *

Venus	5470-03-10 03:07 G	3719004.55	3719004.63	3719004.74	0.0136	0.0122
Venus	5470-10-22 10:19 G	3719230.76	3719230.93	3719231.12	0.0137	0.0077
Earth	5471-01-10 06:43 G	3719310.67	3719310.78	3719310.92	0.0137	0.0118
Moon	5471-01-10 08:38 G	3719310.74	3719310.86	3719311.01	0.0137	0.0112 *
Venus	5471-06-05 17:31 G	3719457.02	3719457.23	3719457.45	0.0137	0.0032
Venus	5472-01-18 00:43 G	3719683.32	3719683.53	3719683.75	0.0137	0.0014
Venus	5472-08-31 07:55 G	3719909.64	3719909.83	3719910.03	0.0137	0.0060
Venus	5473-04-14 15:21 G	3720136.01	3720136.14	3720136.29	0.0138	0.0106
Mars	5499-06-23 19:40 G	3729702.07	3729702.32	3729702.58	0.0145	0.0097
Mars	5501-06-01 06:43 G	3730409.51	3730409.78	3730410.09	0.0145	0.0072
Moon	5504-06-09 12:14 G	3731513.89	3731514.01	3731514.14	0.0144	0.0122
Earth	5504-06-09 15:21 G	3731513.99	3731514.14	3731514.29	0.0144	0.0114 *
Mercury	5505-04-27 07:40 G	3731835.74	3731835.82	3731835.93	0.0144	0.0122
Earth	5505-06-14 15:21 G	3731883.93	3731884.14	3731884.36	0.0144	0.0076
Moon	5505-06-14 18:14 G	3731884.06	3731884.26	3731884.50	0.0144	0.0073 *
Mercury	5505-07-24 15:35 G	3731924.01	3731924.15	3731924.28	0.0144	0.0093
Mercury	5505-10-20 23:02 G	3732012.30	3732012.46	3732012.62	0.0144	0.0065
Mercury	5506-01-17 06:28 G	3732100.60	3732100.77	3732100.95	0.0143	0.0036
Mercury	5506-04-15 14:09 G	3732188.91	3732189.09	3732189.28	0.0143	0.0008
Moon	5506-06-19 11:31 G	3732253.74	3732253.98	3732254.23	0.0143	0.0038
Earth	5506-06-19 15:07 G	3732253.89	3732254.13	3732254.38	0.0143	0.0038 *
Mercury	5506-07-12 21:50 G	3732277.23	3732277.41	3732277.59	0.0143	0.0021
Mercury	5506-10-09 05:31 G	3732365.56	3732365.73	3732365.90	0.0143	0.0050
Mercury	5507-01-05 13:11 G	3732453.90	3732454.05	3732454.21	0.0143	0.0079
Mercury	5507-04-03 20:52 G	3732542.25	3732542.37	3732542.50	0.0143	0.0108
Earth	5507-06-24 14:38 G	3732623.86	3732624.11	3732624.37	0.0143	0.0002
Moon	5507-06-24 18:14 G	3732624.00	3732624.26	3732624.51	0.0143	0.0002 *
Mercury	5507-07-01 04:48 G	3732630.65	3732630.70	3732630.75	0.0143	0.0137
Moon	5508-06-28 10:04 G	3732993.68	3732993.92	3732994.17	0.0143	0.0047
Earth	5508-06-28 13:40 G	3732993.83	3732994.07	3732994.32	0.0143	0.0040 *

Earth	5509-07-03 12:14 G	3733363.80	3733364.01	3733364.23	0.0142	0.0078
Moon	5509-07-03 15:35 G	3733363.94	3733364.15	3733364.38	0.0142	0.0070 *
Venus	5510-06-27 09:35 G	3733722.75	3733722.90	3733723.08	0.0142	0.0093
Moon	5510-07-08 07:11 G	3733733.67	3733733.80	3733733.95	0.0142	0.0119
Earth	5510-07-08 10:33 G	3733733.79	3733733.94	3733734.09	0.0142	0.0114 *
Venus	5511-02-08 19:55 G	3733949.13	3733949.33	3733949.54	0.0142	0.0042
Venus	5511-09-23 06:00 G	3734175.54	3734175.75	3734175.97	0.0141	0.0009
Venus	5512-05-06 16:04 G	3734401.98	3734402.17	3734402.37	0.0141	0.0058
Venus	5512-12-19 01:26 G	3734628.44	3734628.56	3734628.72	0.0141	0.0108
Mars	5541-10-04 13:40 G	3745144.87	3745145.07	3745145.30	0.0133	0.0086
Mars	5543-09-03 10:48 G	3745843.67	3745843.95	3745844.23	0.0133	0.0020
Mars	5545-08-02 12:14 G	3746542.92	3746543.01	3746543.11	0.0134	0.0126
Earth	5546-12-09 15:50 G	3747037.14	3747037.16	3747037.22	0.0134	0.0133
Moon	5547-12-13 21:07 G	3747406.22	3747406.38	3747406.58	0.0134	0.0096
Earth	5547-12-14 00:14 G	3747406.37	3747406.51	3747406.69	0.0134	0.0102 *
Mercury	5548-05-02 00:28 G	3747546.48	3747546.52	3747546.57	0.0134	0.0125
Mercury	5548-07-29 03:50 G	3747634.59	3747634.66	3747634.75	0.0134	0.0108
Mercury	5548-10-25 07:11 G	3747722.71	3747722.80	3747722.91	0.0135	0.0090
Earth	5548-12-17 08:52 G	3747775.67	3747775.87	3747776.10	0.0135	0.0071
Moon	5548-12-17 12:14 G	3747775.81	3747776.01	3747776.22	0.0135	0.0076 *
Mercury	5549-01-21 10:33 G	3747810.83	3747810.94	3747811.06	0.0135	0.0072
Mercury	5549-04-19 13:55 G	3747898.96	3747899.08	3747899.21	0.0135	0.0055
Mercury	5549-07-16 17:16 G	3747987.09	3747987.22	3747987.35	0.0135	0.0037
Mercury	5549-10-12 20:38 G	3748075.22	3748075.36	3748075.49	0.0135	0.0020
Moon	5549-12-21 14:52 G	3748144.88	3748145.12	3748145.38	0.0135	0.0038
Earth	5549-12-21 17:45 G	3748145.00	3748145.24	3748145.49	0.0135	0.0039 *
Mercury	5550-01-09 00:00 G	3748163.36	3748163.50	3748163.63	0.0135	0.0004
Mercury	5550-04-07 03:07 G	3748251.50	3748251.63	3748251.77	0.0135	0.0016
Mercury	5550-07-04 06:28 G	3748339.64	3748339.77	3748339.90	0.0135	0.0033
Mercury	5550-09-30 09:35 G	3748427.78	3748427.90	3748428.03	0.0135	0.0050

Earth	5550-12-26 02:24 G	3748514.35	3748514.60	3748514.85	0.0135	0.0007
Moon	5550-12-26 05:16 G	3748514.48	3748514.72	3748514.97	0.0135	0.0006 *
Mercury	5550-12-27 12:57 G	3748515.92	3748516.04	3748516.16	0.0135	0.0067
Mercury	5551-03-25 16:04 G	3748604.07	3748604.17	3748604.28	0.0135	0.0085
Mercury	5551-06-21 19:11 G	3748692.22	3748692.30	3748692.40	0.0135	0.0102
Mercury	5551-09-17 22:19 G	3748780.38	3748780.43	3748780.50	0.0135	0.0120
Moon	5551-12-30 08:38 G	3748883.61	3748883.86	3748884.12	0.0136	0.0022
Earth	5551-12-30 11:31 G	3748883.73	3748883.98	3748884.23	0.0136	0.0025 *
Earth	5553-01-02 20:52 G	3749253.14	3749253.37	3749253.60	0.0136	0.0057
Moon	5553-01-02 23:16 G	3749253.26	3749253.47	3749253.69	0.0136	0.0064 *
Moon	5554-01-07 03:50 G	3749622.46	3749622.66	3749622.87	0.0136	0.0083
Earth	5554-01-07 06:28 G	3749622.59	3749622.77	3749622.97	0.0136	0.0090 *
Venus	5554-06-22 18:57 G	3749789.14	3749789.29	3749789.44	0.0137	0.0098
Earth	5555-01-11 16:19 G	3749992.09	3749992.18	3749992.31	0.0137	0.0122
Moon	5555-01-11 18:14 G	3749992.19	3749992.26	3749992.36	0.0137	0.0128 *
Venus	5555-02-04 01:55 G	3750015.38	3750015.58	3750015.78	0.0137	0.0053
Venus	5555-09-18 09:07 G	3750241.67	3750241.88	3750242.10	0.0137	0.0008
Venus	5556-05-01 16:19 G	3750467.98	3750468.18	3750468.40	0.0137	0.0038
Venus	5556-12-13 23:45 G	3750694.33	3750694.49	3750694.67	0.0138	0.0084
Venus	5557-07-28 07:11 G	3750920.75	3750920.80	3750920.88	0.0138	0.0130
Mars	5584-02-19 12:14 G	3760622.68	3760623.01	3760623.34	0.0145	0.0030
Mars	5586-01-26 21:21 G	3761330.29	3761330.39	3761330.52	0.0145	0.0136
Moon	5588-06-09 23:02 G	3762195.30	3762195.46	3762195.64	0.0144	0.0105
Earth	5588-06-10 01:40 G	3762195.42	3762195.57	3762195.74	0.0144	0.0111 *
Mercury	5589-02-18 07:55 G	3762448.81	3762448.83	3762448.86	0.0144	0.0142
Mercury	5589-05-17 15:21 G	3762537.03	3762537.14	3762537.25	0.0144	0.0114
Earth	5589-06-15 01:55 G	3762565.36	3762565.58	3762565.80	0.0144	0.0072
Moon	5589-06-15 05:02 G	3762565.50	3762565.71	3762565.94	0.0144	0.0077 *
Mercury	5589-08-13 22:48 G	3762625.31	3762625.45	3762625.60	0.0144	0.0086
Mercury	5589-11-10 06:14 G	3762713.60	3762713.76	3762713.94	0.0144	0.0058

Mercury	5590-02-06 13:55 G	3762801.90	3762802.08	3762802.26	0.0143	0.0029
Mercury	5590-05-05 21:35 G	3762890.21	3762890.40	3762890.58	0.0143	0.0000
Moon	5590-06-19 22:33 G	3762935.20	3762935.44	3762935.69	0.0143	0.0032
Earth	5590-06-20 01:40 G	3762935.33	3762935.57	3762935.83	0.0143	0.0033 *
Mercury	5590-08-02 05:16 G	3762978.54	3762978.72	3762978.90	0.0143	0.0029
Mercury	5590-10-29 12:57 G	3763066.87	3763067.04	3763067.21	0.0143	0.0057
Mercury	5591-01-25 20:38 G	3763155.21	3763155.36	3763155.51	0.0143	0.0086
Mercury	5591-04-24 04:19 G	3763243.58	3763243.68	3763243.79	0.0143	0.0115
Earth	5591-06-25 01:11 G	3763305.30	3763305.55	3763305.81	0.0143	0.0006
Moon	5591-06-25 04:48 G	3763305.45	3763305.70	3763305.96	0.0143	0.0011 *
Moon	5592-06-28 20:24 G	3763675.11	3763675.35	3763675.60	0.0143	0.0038
Earth	5592-06-29 00:00 G	3763675.26	3763675.50	3763675.75	0.0143	0.0045 *
Earth	5593-07-03 22:19 G	3764045.24	3764045.43	3764045.65	0.0142	0.0082
Moon	5593-07-04 01:55 G	3764045.39	3764045.58	3764045.79	0.0142	0.0090 *
Venus	5594-02-24 17:02 G	3764281.09	3764281.21	3764281.34	0.0142	0.0116
Moon	5594-07-08 16:33 G	3764415.06	3764415.19	3764415.37	0.0142	0.0113
Earth	5594-07-08 20:38 G	3764415.23	3764415.36	3764415.51	0.0142	0.0119 *
Venus	5594-10-09 03:07 G	3764507.45	3764507.63	3764507.84	0.0142	0.0066
Venus	5595-05-23 13:40 G	3764733.85	3764734.07	3764734.29	0.0141	0.0015
Venus	5596-01-04 23:31 G	3764960.27	3764960.48	3764960.70	0.0141	0.0035
Venus	5596-08-18 09:07 G	3765186.72	3765186.88	3765187.07	0.0141	0.0085
Venus	5597-04-01 18:57 G	3765413.23	3765413.29	3765413.36	0.0141	0.0134
Mars	5626-05-29 12:14 G	3776062.75	3776063.01	3776063.28	0.0133	0.0044
Mars	5628-04-27 10:19 G	3776761.70	3776761.93	3776762.20	0.0133	0.0062
Earth	5630-12-10 00:57 G	3777718.49	3777718.54	3777718.62	0.0134	0.0129
Moon	5630-12-10 04:19 G	3777718.60	3777718.68	3777718.80	0.0134	0.0122 *
Moon	5631-12-14 06:00 G	3778087.60	3778087.75	3778087.91	0.0134	0.0106
Earth	5631-12-14 09:21 G	3778087.73	3778087.89	3778088.07	0.0134	0.0099 *
Mercury	5632-05-22 07:40 G	3778247.76	3778247.82	3778247.87	0.0134	0.0122
Mercury	5632-08-18 10:48 G	3778335.87	3778335.95	3778336.04	0.0134	0.0104

Mercury	5632-11-14 14:09 G	3778423.99	3778424.09	3778424.20	0.0135	0.0087
Earth	5632-12-17 17:45 G	3778457.03	3778457.24	3778457.47	0.0135	0.0068
Moon	5632-12-17 20:52 G	3778457.16	3778457.37	3778457.60	0.0135	0.0063 *
Mercury	5633-02-10 17:31 G	3778512.12	3778512.23	3778512.35	0.0135	0.0069
Mercury	5633-05-09 20:52 G	3778600.25	3778600.37	3778600.50	0.0135	0.0051
Mercury	5633-08-06 00:14 G	3778688.38	3778688.51	3778688.64	0.0135	0.0034
Mercury	5633-11-02 03:35 G	3778776.51	3778776.65	3778776.78	0.0135	0.0016
Moon	5633-12-21 22:48 G	3778826.21	3778826.45	3778826.70	0.0135	0.0039
Earth	5633-12-22 02:24 G	3778826.36	3778826.60	3778826.85	0.0135	0.0036 *
Mercury	5634-01-29 06:43 G	3778864.65	3778864.78	3778864.92	0.0135	0.0005
Mercury	5634-04-27 10:04 G	3778952.79	3778952.92	3778953.06	0.0135	0.0019
Mercury	5634-07-24 13:26 G	3779040.93	3779041.06	3779041.19	0.0135	0.0036
Mercury	5634-10-20 16:33 G	3779129.07	3779129.19	3779129.32	0.0135	0.0053
Earth	5634-12-26 11:16 G	3779195.71	3779195.97	3779196.22	0.0135	0.0004
Moon	5634-12-26 14:09 G	3779195.84	3779196.09	3779196.34	0.0135	0.0005 *
Mercury	5635-01-16 19:55 G	3779217.21	3779217.33	3779217.44	0.0135	0.0071
Mercury	5635-04-14 22:48 G	3779305.36	3779305.45	3779305.56	0.0135	0.0089
Mercury	5635-07-12 02:09 G	3779393.51	3779393.59	3779393.68	0.0135	0.0105
Mercury	5635-10-08 05:16 G	3779481.68	3779481.72	3779481.79	0.0136	0.0123
Moon	5635-12-30 17:02 G	3779564.96	3779565.21	3779565.46	0.0136	0.0033
Earth	5635-12-30 20:09 G	3779565.10	3779565.34	3779565.59	0.0136	0.0029 *
Earth	5637-01-03 05:31 G	3779934.51	3779934.73	3779934.96	0.0136	0.0061
Moon	5637-01-03 08:24 G	3779934.63	3779934.85	3779935.09	0.0136	0.0056 *
Moon	5638-01-07 12:28 G	3780303.86	3780304.02	3780304.20	0.0136	0.0101
Earth	5638-01-07 15:07 G	3780303.96	3780304.13	3780304.33	0.0136	0.0094 *
Venus	5638-02-20 02:38 G	3780347.52	3780347.61	3780347.73	0.0136	0.0120
Venus	5638-10-04 09:50 G	3780573.74	3780573.91	3780574.10	0.0137	0.0075
Earth	5639-01-12 01:11 G	3780673.47	3780673.55	3780673.66	0.0137	0.0126
Moon	5639-01-12 04:19 G	3780673.57	3780673.68	3780673.80	0.0137	0.0119 *
Venus	5639-05-18 17:02 G	3780800.00	3780800.21	3780800.43	0.0137	0.0030

Venus	5639-12-31 00:28 G	3781026.30	3781026.52	3781026.73	0.0137	0.0016
Venus	5640-08-13 07:40 G	3781252.63	3781252.82	3781253.02	0.0137	0.0062
Venus	5641-03-27 15:07 G	3781479.00	3781479.13	3781479.27	0.0138	0.0108
Jupiter	5656-10-20 09:21 G	3787164.49	3787164.89	3787165.32	0.0144	0.0089
Mars	5666-11-08 13:11 G	3790835.95	3790836.05	3790836.22	0.0145	0.0134
Mars	5668-10-16 05:16 G	3791543.40	3791543.72	3791544.06	0.0145	0.0036
Moon	5671-06-06 14:24 G	3792507.05	3792507.10	3792507.19	0.0144	0.0139
Moon	5672-06-10 10:48 G	3792876.82	3792876.95	3792877.12	0.0144	0.0115
Earth	5672-06-10 12:57 G	3792876.89	3792877.04	3792877.22	0.0144	0.0107 *
Mercury	5673-03-10 15:21 G	3793150.09	3793150.14	3793150.22	0.0144	0.0134
Mercury	5673-06-06 22:48 G	3793238.34	3793238.45	3793238.58	0.0144	0.0106
Earth	5673-06-15 13:11 G	3793246.83	3793247.05	3793247.28	0.0144	0.0068
Moon	5673-06-15 16:04 G	3793246.93	3793247.17	3793247.40	0.0144	0.0063 *
Mercury	5673-09-03 06:28 G	3793326.62	3793326.77	3793326.93	0.0144	0.0078
Mercury	5673-11-30 13:55 G	3793414.91	3793415.08	3793415.26	0.0144	0.0049
Mercury	5674-02-26 21:35 G	3793503.22	3793503.40	3793503.58	0.0144	0.0021
Mercury	5674-05-26 05:16 G	3793591.53	3793591.72	3793591.90	0.0143	0.0008
Moon	5674-06-20 10:04 G	3793616.67	3793616.92	3793617.16	0.0143	0.0030
Earth	5674-06-20 13:11 G	3793616.80	3793617.05	3793617.30	0.0143	0.0029 *
Mercury	5674-08-22 12:43 G	3793679.86	3793680.03	3793680.22	0.0143	0.0037
Mercury	5674-11-18 20:38 G	3793768.19	3793768.36	3793768.52	0.0143	0.0066
Mercury	5675-02-15 04:19 G	3793856.54	3793856.68	3793856.82	0.0143	0.0095
Mercury	5675-05-14 11:45 G	3793944.91	3793944.99	3793945.09	0.0143	0.0124
Earth	5675-06-25 12:28 G	3793986.76	3793987.02	3793987.27	0.0143	0.0010
Moon	5675-06-25 15:35 G	3793986.89	3793987.15	3793987.41	0.0143	0.0008 *
Moon	5676-06-29 07:40 G	3794356.59	3794356.82	3794357.06	0.0143	0.0056
Earth	5676-06-29 11:16 G	3794356.74	3794356.97	3794357.22	0.0143	0.0049 *
Earth	5677-07-04 09:35 G	3794726.71	3794726.90	3794727.12	0.0142	0.0087
Moon	5677-07-04 13:11 G	3794726.85	3794727.05	3794727.28	0.0142	0.0080 *
Venus	5677-10-25 00:28 G	3794839.50	3794839.52	3794839.59	0.0142	0.0140

Venus	5678-06-08 11:16 G	3795065.81	3795065.97	3795066.15	0.0142	0.0088
Moon	5678-07-09 04:33 G	3795096.59	3795096.69	3795096.79	0.0142	0.0129
Earth	5678-07-09 07:26 G	3795096.71	3795096.81	3795096.96	0.0142	0.0124 *
Venus	5679-01-20 21:21 G	3795292.19	3795292.39	3795292.61	0.0142	0.0038
Venus	5679-09-04 07:40 G	3795518.60	3795518.82	3795519.04	0.0141	0.0013
Venus	5680-04-17 17:31 G	3795745.04	3795745.23	3795745.43	0.0141	0.0063
Venus	5680-11-30 03:21 G	3795971.51	3795971.64	3795971.78	0.0141	0.0112
Mars	5709-02-22 16:48 G	3806282.05	3806282.20	3806282.39	0.0133	0.0106
Mars	5711-01-22 12:57 G	3806980.76	3806981.04	3806981.33	0.0133	0.0003
Mars	5712-12-21 13:26 G	3807679.91	3807680.06	3807680.26	0.0134	0.0104
Earth	5714-12-11 10:48 G	3808399.88	3808399.95	3808400.04	0.0134	0.0126
Moon	5714-12-11 14:09 G	3808400.08	3808400.09	3808400.13	0.0134	0.0133
Moon	5715-12-15 15:35 G	3808768.96	3808769.15	3808769.35	0.0134	0.0089
Earth	5715-12-15 19:11 G	3808769.13	3808769.30	3808769.48	0.0134	0.0096 *
Mercury	5716-06-12 14:38 G	3808949.05	3808949.11	3808949.18	0.0134	0.0118
Mercury	5716-09-08 17:45 G	3809037.16	3809037.24	3809037.34	0.0134	0.0101
Mercury	5716-12-05 21:21 G	3809125.28	3809125.39	3809125.50	0.0135	0.0082
Earth	5716-12-19 03:07 G	3809138.43	3809138.63	3809138.87	0.0135	0.0065
Moon	5716-12-19 06:43 G	3809138.58	3809138.78	3809139.01	0.0135	0.0071 *
Mercury	5717-03-04 00:43 G	3809213.41	3809213.53	3809213.65	0.0135	0.0065
Mercury	5717-05-31 03:50 G	3809301.54	3809301.66	3809301.80	0.0135	0.0048
Mercury	5717-08-27 07:26 G	3809389.67	3809389.81	3809389.94	0.0135	0.0030
Mercury	5717-11-23 10:33 G	3809477.81	3809477.94	3809478.08	0.0135	0.0013
Moon	5717-12-23 08:38 G	3809507.62	3809507.86	3809508.11	0.0135	0.0030
Earth	5717-12-23 12:00 G	3809507.76	3809508.00	3809508.25	0.0135	0.0033 *
Mercury	5718-02-19 13:55 G	3809565.95	3809566.08	3809566.22	0.0135	0.0005
Mercury	5718-05-18 17:02 G	3809654.08	3809654.21	3809654.35	0.0135	0.0023
Mercury	5718-08-14 20:24 G	3809742.22	3809742.35	3809742.48	0.0135	0.0040
Mercury	5718-11-10 23:45 G	3809830.37	3809830.49	3809830.61	0.0135	0.0057
Earth	5718-12-27 20:38 G	3809877.11	3809877.36	3809877.62	0.0135	0.0002

Moon	5718-12-28 00:14 G	3809877.26	3809877.51	3809877.76	0.0135	0.0002 *
Mercury	5719-02-07 02:52 G	3809918.51	3809918.62	3809918.74	0.0135	0.0075
Mercury	5719-05-06 06:14 G	3810006.66	3810006.76	3810006.86	0.0135	0.0092
Mercury	5719-08-02 09:21 G	3810094.81	3810094.89	3810094.97	0.0135	0.0109
Mercury	5719-10-29 12:14 G	3810182.98	3810183.01	3810183.07	0.0136	0.0127
Moon	5720-01-01 02:24 G	3810246.36	3810246.60	3810246.85	0.0136	0.0030
Earth	5720-01-01 05:45 G	3810246.50	3810246.74	3810246.99	0.0136	0.0032 *
Earth	5721-01-04 14:52 G	3810615.91	3810616.12	3810616.36	0.0136	0.0065
Moon	5721-01-04 18:28 G	3810616.06	3810616.27	3810616.48	0.0136	0.0071 *
Moon	5722-01-08 21:07 G	3810985.21	3810985.38	3810985.59	0.0136	0.0091
Earth	5722-01-09 00:43 G	3810985.37	3810985.53	3810985.72	0.0136	0.0097 *
Venus	5722-06-04 18:28 G	3811132.13	3811132.27	3811132.43	0.0136	0.0095
Earth	5723-01-13 10:48 G	3811354.89	3811354.95	3811355.05	0.0137	0.0130
Moon	5723-01-13 13:55 G	3811355.07	3811355.08	3811355.11	0.0137	0.0136
Venus	5723-01-17 01:26 G	3811358.37	3811358.56	3811358.77	0.0137	0.0051
Venus	5723-08-31 08:52 G	3811584.65	3811584.87	3811585.09	0.0137	0.0005
Venus	5724-04-13 16:04 G	3811810.97	3811811.17	3811811.38	0.0137	0.0040
Venus	5724-11-25 23:31 G	3812037.32	3812037.48	3812037.66	0.0137	0.0087
Venus	5725-07-10 06:57 G	3812263.75	3812263.79	3812263.87	0.0138	0.0133
Mars	5751-07-07 06:43 G	3821756.50	3821756.78	3821757.10	0.0145	0.0068
Mars	5753-06-13 20:24 G	3822464.11	3822464.35	3822464.60	0.0145	0.0100
Earth	5755-06-07 23:16 G	3823188.43	3823188.47	3823188.52	0.0144	0.0142
Moon	5756-06-11 21:50 G	3823558.24	3823558.41	3823558.60	0.0144	0.0097
Earth	5756-06-11 23:31 G	3823558.31	3823558.48	3823558.67	0.0144	0.0104 *
Mercury	5757-03-31 22:48 G	3823851.38	3823851.45	3823851.54	0.0144	0.0127
Earth	5757-06-16 23:45 G	3823928.26	3823928.49	3823928.72	0.0144	0.0064
Moon	5757-06-17 01:55 G	3823928.36	3823928.58	3823928.82	0.0144	0.0070 *
Mercury	5757-06-28 06:14 G	3823939.64	3823939.76	3823939.90	0.0144	0.0099
Mercury	5757-09-24 13:40 G	3824027.92	3824028.07	3824028.24	0.0144	0.0071
Mercury	5757-12-21 21:21 G	3824116.22	3824116.39	3824116.57	0.0144	0.0042

Mercury	5758-03-20 05:02 G	3824204.52	3824204.71	3824204.89	0.0144	0.0013
Mercury	5758-06-16 12:28 G	3824292.84	3824293.02	3824293.21	0.0143	0.0016
Moon	5758-06-21 21:07 G	3824298.14	3824298.38	3824298.63	0.0143	0.0023
Earth	5758-06-21 23:31 G	3824298.23	3824298.48	3824298.73	0.0143	0.0025 *
Mercury	5758-09-12 20:09 G	3824381.17	3824381.34	3824381.52	0.0143	0.0044
Mercury	5758-12-10 03:35 G	3824469.50	3824469.65	3824469.82	0.0143	0.0074
Mercury	5759-03-08 11:16 G	3824557.85	3824557.97	3824558.11	0.0143	0.0102
Mercury	5759-06-04 18:57 G	3824646.23	3824646.29	3824646.38	0.0143	0.0131
Earth	5759-06-26 22:48 G	3824668.20	3824668.45	3824668.71	0.0143	0.0014
Moon	5759-06-27 02:09 G	3824668.33	3824668.59	3824668.85	0.0143	0.0018 *
Moon	5760-06-30 18:28 G	3825038.04	3825038.27	3825038.52	0.0143	0.0048
Earth	5760-06-30 21:50 G	3825038.17	3825038.41	3825038.65	0.0143	0.0053 *
Earth	5761-07-05 19:55 G	3825408.15	3825408.33	3825408.54	0.0142	0.0091
Moon	5761-07-05 23:45 G	3825408.31	3825408.49	3825408.68	0.0142	0.0098 *
Venus	5762-02-06 18:28 G	3825624.15	3825624.27	3825624.42	0.0142	0.0111
Moon	5762-07-10 14:24 G	3825777.99	3825778.10	3825778.25	0.0142	0.0121
Earth	5762-07-10 18:14 G	3825778.17	3825778.26	3825778.38	0.0142	0.0128 *
Venus	5762-09-21 04:48 G	3825850.52	3825850.70	3825850.91	0.0142	0.0061
Venus	5763-05-05 15:21 G	3826076.93	3826077.14	3826077.36	0.0141	0.0010
Venus	5763-12-18 01:26 G	3826303.36	3826303.56	3826303.77	0.0141	0.0040
Venus	5764-07-31 11:16 G	3826529.81	3826529.97	3826530.14	0.0141	0.0090
Venus	5765-03-14 20:38 G	3826756.35	3826756.36	3826756.41	0.0141	0.0140
Jupiter	5781-10-09 06:43 G	3832808.64	3832808.78	3832808.99	0.0134	0.0125
Mars	5793-10-17 17:31 G	3837199.99	3837200.23	3837200.49	0.0133	0.0065
Mars	5795-09-16 15:07 G	3837898.87	3837899.13	3837899.41	0.0133	0.0039
Earth	5798-12-11 19:40 G	3839081.24	3839081.32	3839081.44	0.0134	0.0123
Moon	5798-12-11 23:16 G	3839081.37	3839081.47	3839081.62	0.0134	0.0116 *
Moon	5799-12-16 00:28 G	3839450.36	3839450.52	3839450.70	0.0134	0.0099
Earth	5799-12-16 03:50 G	3839450.50	3839450.66	3839450.86	0.0134	0.0093 *
Mercury	5800-04-06 18:00 G	3839562.24	3839562.25	3839562.28	0.0134	0.0132

Mercury	5800-07-03 21:21 G	3839650.33	3839650.39	3839650.47	0.0134	0.0115
Mercury	5800-09-30 00:57 G	3839738.45	3839738.54	3839738.64	0.0134	0.0097
Earth	5800-12-20 12:28 G	3839819.79	3839820.02	3839820.24	0.0134	0.0061
Moon	5800-12-20 15:50 G	3839819.94	3839820.16	3839820.40	0.0134	0.0056 *
Mercury	5800-12-27 04:04 G	3839826.57	3839826.67	3839826.79	0.0134	0.0080
Mercury	5801-03-25 07:40 G	3839914.70	3839914.82	3839914.94	0.0135	0.0062
Mercury	5801-06-21 11:02 G	3840002.83	3840002.96	3840003.09	0.0135	0.0044
Mercury	5801-09-17 14:09 G	3840090.96	3840091.09	3840091.23	0.0135	0.0027
Mercury	5801-12-14 17:31 G	3840179.10	3840179.23	3840179.37	0.0135	0.0010
Moon	5801-12-24 16:48 G	3840188.97	3840189.20	3840189.46	0.0135	0.0034
Earth	5801-12-24 20:38 G	3840189.12	3840189.36	3840189.62	0.0135	0.0029 *
Mercury	5802-03-12 20:52 G	3840267.23	3840267.37	3840267.51	0.0135	0.0008
Mercury	5802-06-09 00:14 G	3840355.37	3840355.51	3840355.64	0.0135	0.0026
Mercury	5802-09-05 03:21 G	3840443.51	3840443.64	3840443.77	0.0135	0.0043
Mercury	5802-12-02 06:43 G	3840531.66	3840531.78	3840531.90	0.0135	0.0060
Earth	5802-12-29 05:31 G	3840558.47	3840558.73	3840558.98	0.0135	0.0003
Moon	5802-12-29 08:52 G	3840558.62	3840558.87	3840559.12	0.0135	0.0003 *
Mercury	5803-02-28 09:50 G	3840619.80	3840619.91	3840620.02	0.0135	0.0078
Mercury	5803-05-27 12:57 G	3840707.95	3840708.04	3840708.14	0.0135	0.0095
Mercury	5803-08-23 16:04 G	3840796.11	3840796.17	3840796.25	0.0135	0.0113
Mercury	5803-11-19 19:11 G	3840884.28	3840884.30	3840884.35	0.0135	0.0130
Moon	5804-01-02 10:48 G	3840927.71	3840927.95	3840928.20	0.0135	0.0039
Earth	5804-01-02 14:24 G	3840927.87	3840928.10	3840928.35	0.0135	0.0036 *
Earth	5805-01-05 23:45 G	3841297.28	3841297.49	3841297.71	0.0136	0.0068
Moon	5805-01-06 03:21 G	3841297.42	3841297.64	3841297.86	0.0136	0.0063 *
Moon	5806-01-10 06:14 G	3841666.61	3841666.76	3841666.92	0.0136	0.0108
Earth	5806-01-10 09:35 G	3841666.74	3841666.90	3841667.08	0.0136	0.0101 *
Venus	5806-02-03 02:24 G	3841690.50	3841690.60	3841690.72	0.0136	0.0117
Venus	5806-09-17 09:35 G	3841916.72	3841916.90	3841917.09	0.0136	0.0072
Earth	5807-01-14 19:55 G	3842036.28	3842036.33	3842036.39	0.0137	0.0133

Moon	5807-01-14 23:16 G	3842036.39	3842036.47	3842036.58	0.0137	0.0126 *
Venus	5807-05-01 16:48 G	3842142.99	3842143.20	3842143.41	0.0137	0.0027
Venus	5807-12-14 00:00 G	3842369.29	3842369.50	3842369.72	0.0137	0.0019
Venus	5808-07-27 07:26 G	3842595.62	3842595.81	3842596.01	0.0137	0.0064
Venus	5809-03-10 14:38 G	3842822.00	3842822.11	3842822.26	0.0138	0.0111
Mars	5836-03-03 22:48 G	3852677.11	3852677.45	3852677.79	0.0145	0.0003
Moon	5839-06-09 09:50 G	3853869.81	3853869.91	3853870.02	0.0144	0.0132
Earth	5839-06-09 09:07 G	3853869.83	3853869.88	3853869.97	0.0144	0.0138 *
Moon	5840-06-13 08:38 G	3854239.71	3854239.86	3854240.04	0.0144	0.0107
Earth	5840-06-13 09:35 G	3854239.73	3854239.90	3854240.10	0.0144	0.0099 *
Mercury	5841-04-22 06:00 G	3854552.67	3854552.75	3854552.86	0.0144	0.0120
Earth	5841-06-18 09:50 G	3854609.68	3854609.91	3854610.15	0.0144	0.0060
Moon	5841-06-18 11:31 G	3854609.74	3854609.98	3854610.22	0.0144	0.0054 *
Mercury	5841-07-19 13:40 G	3854640.93	3854641.07	3854641.21	0.0144	0.0092
Mercury	5841-10-15 21:07 G	3854729.22	3854729.38	3854729.55	0.0144	0.0064
Mercury	5842-01-12 04:33 G	3854817.52	3854817.69	3854817.88	0.0144	0.0036
Mercury	5842-04-10 12:14 G	3854905.83	3854906.01	3854906.20	0.0144	0.0007
Moon	5842-06-23 07:26 G	3854979.56	3854979.81	3854980.05	0.0143	0.0023
Earth	5842-06-23 09:35 G	3854979.66	3854979.90	3854980.16	0.0143	0.0021 *
Mercury	5842-07-07 19:40 G	3854994.14	3854994.32	3854994.51	0.0143	0.0023
Mercury	5842-10-04 03:21 G	3855082.47	3855082.64	3855082.82	0.0143	0.0051
Mercury	5842-12-31 11:02 G	3855170.81	3855170.96	3855171.12	0.0143	0.0080
Mercury	5843-03-29 18:57 G	3855259.17	3855259.29	3855259.41	0.0143	0.0109
Mercury	5843-06-26 02:38 G	3855347.56	3855347.61	3855347.66	0.0143	0.0138
Earth	5843-06-28 08:52 G	3855349.62	3855349.87	3855350.13	0.0143	0.0019
Moon	5843-06-28 11:31 G	3855349.72	3855349.98	3855350.24	0.0143	0.0017 *
Moon	5844-07-02 04:33 G	3855719.48	3855719.69	3855719.93	0.0143	0.0064
Earth	5844-07-02 07:40 G	3855719.60	3855719.82	3855720.07	0.0143	0.0058 *
Earth	5845-07-07 06:28 G	3856089.59	3856089.77	3856089.97	0.0142	0.0095
Moon	5845-07-07 09:50 G	3856089.71	3856089.91	3856090.12	0.0142	0.0088 *

Venus	5845-10-08 01:55 G	3856182.52	3856182.58	3856182.65	0.0142	0.0135
Venus	5846-05-22 12:14 G	3856408.85	3856409.01	3856409.20	0.0142	0.0084
Moon	5846-07-12 00:57 G	3856459.51	3856459.54	3856459.61	0.0142	0.0139
Earth	5846-07-12 04:33 G	3856459.61	3856459.69	3856459.79	0.0142	0.0132 *
Venus	5847-01-03 22:48 G	3856635.24	3856635.45	3856635.67	0.0142	0.0033
Venus	5847-08-18 09:07 G	3856861.66	3856861.88	3856862.10	0.0141	0.0018
Venus	5848-03-31 18:43 G	3857088.11	3857088.28	3857088.49	0.0141	0.0068
Venus	5848-11-13 04:48 G	3857314.59	3857314.70	3857314.83	0.0141	0.0117
Jupiter	5864-09-01 00:00 G	3863085.12	3863085.50	3863085.94	0.0134	0.0081
Mars	5876-07-14 00:57 G	3867419.46	3867419.54	3867419.62	0.0133	0.0126
Mars	5878-06-12 20:09 G	3868118.07	3868118.34	3868118.63	0.0133	0.0024
Mars	5880-05-11 17:45 G	3868817.03	3868817.24	3868817.48	0.0133	0.0081
Earth	5882-12-13 06:14 G	3869762.66	3869762.76	3869762.88	0.0134	0.0119
Moon	5882-12-13 09:35 G	3869762.82	3869762.90	3869763.00	0.0134	0.0125 *
Moon	5883-12-17 10:48 G	3870131.76	3870131.95	3870132.16	0.0134	0.0081
Earth	5883-12-17 14:24 G	3870131.92	3870132.10	3870132.30	0.0134	0.0089 *
Mercury	5884-04-27 01:26 G	3870263.52	3870263.56	3870263.60	0.0134	0.0127
Mercury	5884-07-24 04:33 G	3870351.62	3870351.69	3870351.78	0.0134	0.0110
Mercury	5884-10-20 07:55 G	3870439.74	3870439.83	3870439.94	0.0134	0.0093
Earth	5884-12-20 22:33 G	3870501.21	3870501.44	3870501.67	0.0134	0.0057
Moon	5884-12-21 01:55 G	3870501.37	3870501.58	3870501.82	0.0134	0.0064 *
Mercury	5885-01-16 11:31 G	3870527.87	3870527.98	3870528.09	0.0134	0.0075
Mercury	5885-04-14 14:38 G	3870616.00	3870616.11	3870616.24	0.0135	0.0058
Mercury	5885-07-11 18:14 G	3870704.13	3870704.26	3870704.39	0.0135	0.0040
Mercury	5885-10-07 21:21 G	3870792.26	3870792.39	3870792.53	0.0135	0.0023
Moon	5885-12-25 03:21 G	3870870.40	3870870.64	3870870.90	0.0135	0.0022
Earth	5885-12-25 06:57 G	3870870.55	3870870.79	3870871.04	0.0135	0.0025 *
Mercury	5886-01-04 00:43 G	3870880.40	3870880.53	3870880.67	0.0135	0.0005
Mercury	5886-04-02 04:04 G	3870968.53	3870968.67	3870968.80	0.0135	0.0013
Mercury	5886-06-29 07:26 G	3871056.67	3871056.81	3871056.94	0.0135	0.0030

Mercury	5886-09-25 10:33 G	3871144.82	3871144.94	3871145.07	0.0135	0.0047
Mercury	5886-12-22 13:40 G	3871232.96	3871233.07	3871233.20	0.0135	0.0065
Earth	5886-12-29 15:35 G	3871239.90	3871240.15	3871240.41	0.0135	0.0007
Moon	5886-12-29 19:26 G	3871240.06	3871240.31	3871240.56	0.0135	0.0006 *
Mercury	5887-03-20 16:48 G	3871321.11	3871321.20	3871321.32	0.0135	0.0083
Mercury	5887-06-16 20:09 G	3871409.26	3871409.34	3871409.44	0.0135	0.0099
Mercury	5887-09-12 23:16 G	3871497.41	3871497.47	3871497.55	0.0135	0.0117
Mercury	5887-12-10 02:38 G	3871585.59	3871585.61	3871585.63	0.0135	0.0133
Moon	5888-01-02 21:07 G	3871609.15	3871609.38	3871609.63	0.0135	0.0038
Earth	5888-01-03 00:43 G	3871609.29	3871609.53	3871609.77	0.0135	0.0040 *
Earth	5889-01-06 10:04 G	3871978.71	3871978.92	3871979.13	0.0136	0.0072
Moon	5889-01-06 13:40 G	3871978.87	3871979.07	3871979.28	0.0136	0.0078 *
Moon	5890-01-10 16:04 G	3872348.01	3872348.17	3872348.35	0.0136	0.0098
Earth	5890-01-10 19:26 G	3872348.17	3872348.31	3872348.49	0.0136	0.0105 *
Venus	5890-05-17 18:28 G	3872475.12	3872475.27	3872475.44	0.0136	0.0092
Venus	5890-12-30 01:26 G	3872701.37	3872701.56	3872701.78	0.0137	0.0048
Venus	5891-08-13 08:52 G	3872927.65	3872927.87	3872928.09	0.0137	0.0002
Venus	5892-03-26 16:04 G	3873153.97	3873154.17	3873154.38	0.0137	0.0043
Venus	5892-11-07 23:31 G	3873380.33	3873380.48	3873380.65	0.0137	0.0089
Venus	5893-06-22 07:11 G	3873606.77	3873606.80	3873606.84	0.0138	0.0135
Mars	5918-11-22 19:40 G	3882890.10	3882890.32	3882890.56	0.0145	0.0108
Mars	5920-10-30 12:57 G	3883597.75	3883598.04	3883598.36	0.0145	0.0060
Moon	5923-06-10 17:45 G	3884551.19	3884551.24	3884551.32	0.0145	0.0140
Earth	5923-06-10 18:14 G	3884551.19	3884551.26	3884551.37	0.0145	0.0135 *
Moon	5924-06-14 18:57 G	3884921.10	3884921.29	3884921.48	0.0144	0.0089
Earth	5924-06-14 18:57 G	3884921.11	3884921.29	3884921.49	0.0144	0.0095 *
Mercury	5925-02-14 05:45 G	3885165.72	3885165.74	3885165.77	0.0144	0.0142
Mercury	5925-05-13 13:11 G	3885253.95	3885254.05	3885254.16	0.0144	0.0114
Earth	5925-06-19 18:57 G	3885291.07	3885291.29	3885291.54	0.0144	0.0056
Moon	5925-06-19 20:09 G	3885291.11	3885291.34	3885291.59	0.0144	0.0062 *

Mercury	5925-08-09 20:38 G	3885342.22	3885342.36	3885342.51	0.0144	0.0086
Mercury	5925-11-06 04:04 G	3885430.51	3885430.67	3885430.84	0.0144	0.0058
Mercury	5926-02-02 11:31 G	3885518.81	3885518.98	3885519.17	0.0144	0.0030
Mercury	5926-05-01 19:11 G	3885607.12	3885607.30	3885607.49	0.0144	0.0002
Moon	5926-06-24 17:31 G	3885660.99	3885661.23	3885661.48	0.0144	0.0013
Earth	5926-06-24 18:43 G	3885661.04	3885661.28	3885661.54	0.0144	0.0017 *
Mercury	5926-07-29 02:52 G	3885695.44	3885695.62	3885695.80	0.0144	0.0028
Mercury	5926-10-25 10:19 G	3885783.77	3885783.93	3885784.11	0.0143	0.0057
Mercury	5927-01-21 18:00 G	3885872.11	3885872.25	3885872.41	0.0143	0.0086
Mercury	5927-04-20 01:40 G	3885960.47	3885960.57	3885960.69	0.0143	0.0115
Earth	5927-06-29 18:14 G	3886031.01	3886031.26	3886031.52	0.0143	0.0023
Moon	5927-06-29 20:38 G	3886031.11	3886031.36	3886031.63	0.0143	0.0026 *
Moon	5928-07-03 15:07 G	3886400.90	3886401.13	3886401.36	0.0143	0.0057
Earth	5928-07-03 17:16 G	3886401.00	3886401.22	3886401.46	0.0143	0.0062 *
Earth	5929-07-08 16:04 G	3886770.99	3886771.17	3886771.35	0.0142	0.0100
Moon	5929-07-08 18:43 G	3886771.13	3886771.28	3886771.47	0.0142	0.0108 *
Venus	5930-01-20 18:57 G	3886967.17	3886967.29	3886967.45	0.0142	0.0108
Moon	5930-07-13 10:33 G	3887140.86	3887140.94	3887141.06	0.0142	0.0130
Earth	5930-07-13 14:09 G	3887141.04	3887141.09	3887141.17	0.0142	0.0137 *
Venus	5930-09-04 05:45 G	3887193.54	3887193.74	3887193.94	0.0142	0.0057
Venus	5931-04-18 16:19 G	3887419.96	3887420.18	3887420.40	0.0141	0.0006
Venus	5931-12-01 02:24 G	3887646.39	3887646.60	3887646.81	0.0141	0.0044
Venus	5932-07-14 12:14 G	3887872.86	3887873.01	3887873.18	0.0141	0.0094
Mars	5961-03-09 02:24 G	3898337.39	3898337.60	3898337.82	0.0133	0.0086
Mars	5963-02-05 21:50 G	3899036.13	3899036.41	3899036.69	0.0133	0.0016
Mars	5965-01-04 19:11 G	3899735.20	3899735.30	3899735.44	0.0133	0.0121
Earth	5966-12-14 16:04 G	3900444.05	3900444.17	3900444.30	0.0134	0.0115
Moon	5966-12-14 19:26 G	3900444.17	3900444.31	3900444.47	0.0134	0.0108 *
Moon	5967-12-18 20:52 G	3900813.20	3900813.37	3900813.56	0.0134	0.0091
Earth	5967-12-18 23:45 G	3900813.31	3900813.49	3900813.71	0.0134	0.0085 *

Mercury	5968-05-18 08:09 G	3900964.80	3900964.84	3900964.90	0.0134	0.0124
Mercury	5968-08-14 11:45 G	3901052.91	3901052.99	3901053.08	0.0134	0.0106
Mercury	5968-11-10 15:07 G	3901141.03	3901141.13	3901141.24	0.0134	0.0089
Earth	5968-12-22 08:09 G	3901182.61	3901182.84	3901183.08	0.0134	0.0053
Moon	5968-12-22 11:16 G	3901182.75	3901182.97	3901183.23	0.0134	0.0048 *
Mercury	5969-02-06 18:28 G	3901229.16	3901229.27	3901229.39	0.0134	0.0071
Mercury	5969-05-05 21:50 G	3901317.29	3901317.41	3901317.54	0.0135	0.0054
Mercury	5969-08-02 01:11 G	3901405.42	3901405.55	3901405.68	0.0135	0.0036
Mercury	5969-10-29 04:33 G	3901493.56	3901493.69	3901493.83	0.0135	0.0019
Moon	5969-12-26 12:57 G	3901551.80	3901552.04	3901552.29	0.0135	0.0026
Earth	5969-12-26 16:33 G	3901551.94	3901552.19	3901552.44	0.0135	0.0021 *
Mercury	5970-01-25 07:55 G	3901581.69	3901581.83	3901581.96	0.0135	0.0003
Mercury	5970-04-23 11:02 G	3901669.83	3901669.96	3901670.10	0.0135	0.0017
Mercury	5970-07-20 14:24 G	3901757.97	3901758.10	3901758.23	0.0135	0.0034
Mercury	5970-10-16 17:31 G	3901846.11	3901846.23	3901846.36	0.0135	0.0051
Earth	5970-12-31 01:11 G	3901921.30	3901921.55	3901921.80	0.0135	0.0012
Moon	5970-12-31 04:33 G	3901921.44	3901921.69	3901921.95	0.0135	0.0013 *
Mercury	5971-01-12 20:52 G	3901934.26	3901934.37	3901934.49	0.0135	0.0068
Mercury	5971-04-11 00:14 G	3902022.40	3902022.51	3902022.61	0.0135	0.0085
Mercury	5971-07-08 03:21 G	3902110.56	3902110.64	3902110.73	0.0135	0.0103
Mercury	5971-10-04 06:28 G	3902198.72	3902198.77	3902198.84	0.0135	0.0120
Moon	5972-01-04 06:28 G	3902290.55	3902290.77	3902291.02	0.0135	0.0047
Earth	5972-01-04 10:04 G	3902290.70	3902290.92	3902291.17	0.0135	0.0045 *
Earth	5973-01-07 19:26 G	3902660.11	3902660.31	3902660.53	0.0136	0.0077
Moon	5973-01-07 22:48 G	3902660.25	3902660.45	3902660.68	0.0136	0.0073 *
Moon	5974-01-12 01:40 G	3903029.46	3903029.57	3903029.72	0.0136	0.0117
Earth	5974-01-12 05:16 G	3903029.59	3903029.72	3903029.89	0.0136	0.0110 *
Venus	5974-01-16 03:07 G	3903033.52	3903033.63	3903033.76	0.0136	0.0113
Venus	5974-08-30 10:04 G	3903259.74	3903259.92	3903260.12	0.0136	0.0069
Moon	5975-01-16 19:11 G	3903399.28	3903399.30	3903399.37	0.0137	0.0135

Venus	5975-04-13 17:16 G	3903486.01	3903486.22	3903486.44	0.0137	0.0024
Venus	5975-11-26 00:43 G	3903712.31	3903712.53	3903712.74	0.0137	0.0022
Venus	5976-07-09 07:55 G	3903938.65	3903938.83	3903939.02	0.0137	0.0067
Venus	5977-02-20 15:07 G	3904165.02	3904165.13	3904165.27	0.0137	0.0113

7TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 7th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	6003-07-20 13:26 G		3913810.74	3913811.06	3913811.39	0.0145	0.0044	
Mars	6005-06-27 04:19 G		3914518.53	3914518.68	3914518.89	0.0145	0.0123	
Moon	6007-06-11 03:35 G		3915232.54	3915232.65	3915232.80	0.0145	0.0125	
Earth	6007-06-11 04:48 G		3915232.60	3915232.70	3915232.82	0.0145	0.0130	*
Earth	6008-06-15 05:02 G		3915602.52	3915602.71	3915602.92	0.0144	0.0091	
Moon	6008-06-15 05:16 G		3915602.56	3915602.72	3915602.91	0.0144	0.0099	*
Mercury	6009-03-06 12:57 G		3915866.99	3915867.04	3915867.11	0.0144	0.0136	
Mercury	6009-06-02 20:24 G		3915955.24	3915955.35	3915955.48	0.0144	0.0108	
Earth	6009-06-20 05:02 G		3915972.48	3915972.71	3915972.96	0.0144	0.0051	
Moon	6009-06-20 05:31 G		3915972.48	3915972.73	3915972.98	0.0144	0.0044	*
Mercury	6009-08-30 03:50 G		3916043.52	3916043.66	3916043.82	0.0144	0.0080	
Mercury	6009-11-26 11:16 G		3916131.81	3916131.97	3916132.15	0.0144	0.0052	
Mercury	6010-02-22 18:57 G		3916220.11	3916220.29	3916220.47	0.0144	0.0023	
Mercury	6010-05-22 02:24 G		3916308.42	3916308.60	3916308.79	0.0144	0.0007	
Moon	6010-06-25 03:50 G		3916342.42	3916342.66	3916342.91	0.0144	0.0015	

Earth	6010-06-25 05:02 G	3916342.46	3916342.71	3916342.97	0.0144	0.0011	*
Mercury	6010-08-18 10:04 G	3916396.74	3916396.92	3916397.10	0.0144	0.0034	
Mercury	6010-11-14 17:31 G	3916485.07	3916485.23	3916485.41	0.0143	0.0063	
Mercury	6011-02-11 01:11 G	3916573.42	3916573.55	3916573.70	0.0143	0.0092	
Mercury	6011-05-10 08:52 G	3916661.78	3916661.87	3916661.98	0.0143	0.0121	
Earth	6011-06-30 04:19 G	3916712.44	3916712.68	3916712.94	0.0143	0.0028	
Moon	6011-06-30 05:31 G	3916712.48	3916712.73	3916713.00	0.0143	0.0028	*
Moon	6012-07-04 01:26 G	3917082.34	3917082.56	3917082.77	0.0143	0.0072	
Earth	6012-07-04 03:35 G	3917082.43	3917082.65	3917082.88	0.0143	0.0067	*
Earth	6013-07-09 01:55 G	3917452.43	3917452.58	3917452.77	0.0142	0.0106	
Moon	6013-07-09 04:48 G	3917452.52	3917452.70	3917452.90	0.0142	0.0098	*
Venus	6013-09-20 02:38 G	3917525.53	3917525.61	3917525.69	0.0142	0.0132	
Venus	6014-05-04 12:57 G	3917751.88	3917752.04	3917752.24	0.0142	0.0081	
Earth	6014-07-14 00:43 G	3917822.53	3917822.53	3917822.54	0.0142	0.0142	
Venus	6014-12-16 23:45 G	3917978.28	3917978.49	3917978.70	0.0142	0.0030	
Venus	6015-07-31 10:04 G	3918204.70	3918204.92	3918205.13	0.0141	0.0021	
Venus	6016-03-13 19:55 G	3918431.15	3918431.33	3918431.53	0.0141	0.0071	
Venus	6016-10-26 05:45 G	3918657.64	3918657.74	3918657.87	0.0141	0.0121	
Mars	6045-11-01 06:14 G	3929255.50	3929255.76	3929256.03	0.0133	0.0045	
Mars	6047-10-01 01:11 G	3929954.31	3929954.55	3929954.82	0.0133	0.0059	
Earth	6050-12-15 02:52 G	3931125.50	3931125.62	3931125.78	0.0134	0.0111	
Moon	6050-12-15 06:00 G	3931125.63	3931125.75	3931125.88	0.0134	0.0116	*
Moon	6051-12-19 07:55 G	3931494.63	3931494.83	3931495.05	0.0134	0.0073	
Earth	6051-12-19 11:02 G	3931494.77	3931494.96	3931495.18	0.0134	0.0080	*
Mercury	6052-06-07 15:35 G	3931666.10	3931666.15	3931666.22	0.0134	0.0119	
Mercury	6052-09-03 18:57 G	3931754.21	3931754.29	3931754.39	0.0134	0.0102	
Mercury	6052-11-30 22:33 G	3931842.33	3931842.44	3931842.55	0.0134	0.0084	
Earth	6052-12-22 18:57 G	3931864.07	3931864.29	3931864.54	0.0134	0.0049	
Moon	6052-12-22 22:04 G	3931864.20	3931864.42	3931864.67	0.0134	0.0055	*
Mercury	6053-02-27 01:55 G	3931930.46	3931930.58	3931930.70	0.0134	0.0066	

Mercury	6053-05-26 05:16 G	3932018.59	3932018.72	3932018.85	0.0135	0.0049
Mercury	6053-08-22 08:24 G	3932106.73	3932106.85	3932106.99	0.0135	0.0032
Mercury	6053-11-18 12:00 G	3932194.86	3932195.00	3932195.13	0.0135	0.0014
Moon	6053-12-27 00:43 G	3932233.28	3932233.53	3932233.78	0.0135	0.0012
Earth	6053-12-27 03:50 G	3932233.41	3932233.66	3932233.91	0.0135	0.0016 *
Mercury	6054-02-14 15:07 G	3932283.00	3932283.13	3932283.27	0.0135	0.0006
Mercury	6054-05-13 18:28 G	3932371.14	3932371.27	3932371.41	0.0135	0.0021
Mercury	6054-08-09 21:35 G	3932459.28	3932459.40	3932459.54	0.0135	0.0039
Mercury	6054-11-06 00:57 G	3932547.42	3932547.54	3932547.67	0.0135	0.0056
Earth	6054-12-31 12:28 G	3932602.77	3932603.02	3932603.28	0.0135	0.0017
Moon	6054-12-31 16:04 G	3932602.91	3932603.17	3932603.43	0.0135	0.0015 *
Mercury	6055-02-02 04:19 G	3932635.57	3932635.68	3932635.79	0.0135	0.0073
Mercury	6055-05-01 07:26 G	3932723.72	3932723.81	3932723.91	0.0135	0.0091
Mercury	6055-07-28 10:48 G	3932811.87	3932811.95	3932812.03	0.0135	0.0108
Mercury	6055-10-24 13:55 G	3932900.03	3932900.08	3932900.13	0.0135	0.0125
Moon	6056-01-04 18:28 G	3932972.05	3932972.27	3932972.51	0.0135	0.0049
Earth	6056-01-04 21:21 G	3932972.17	3932972.39	3932972.64	0.0135	0.0050 *
Earth	6057-01-08 06:43 G	3933341.60	3933341.78	3933342.00	0.0136	0.0082
Moon	6057-01-08 10:33 G	3933341.75	3933341.94	3933342.14	0.0136	0.0087 *
Venus	6057-09-15 12:43 G	3933592.00	3933592.03	3933592.09	0.0136	0.0133
Moon	6058-01-12 13:26 G	3933710.93	3933711.06	3933711.23	0.0136	0.0109
Earth	6058-01-12 17:02 G	3933711.08	3933711.21	3933711.35	0.0136	0.0114 *
Venus	6058-04-29 19:55 G	3933818.17	3933818.33	3933818.50	0.0136	0.0088
Venus	6058-12-12 02:52 G	3934044.42	3934044.62	3934044.84	0.0137	0.0044
Venus	6059-07-26 10:04 G	3934270.71	3934270.92	3934271.14	0.0137	0.0003
Venus	6060-03-08 17:16 G	3934497.02	3934497.22	3934497.43	0.0137	0.0047
Venus	6060-10-21 00:43 G	3934723.38	3934723.53	3934723.70	0.0137	0.0093
Mars	6086-04-08 13:11 G	3944024.05	3944024.05	3944024.09	0.0145	0.0145
Mars	6088-03-16 09:35 G	3944731.57	3944731.90	3944732.24	0.0145	0.0022
Moon	6091-06-11 14:09 G	3945913.98	3945914.09	3945914.21	0.0145	0.0130

Earth	6091-06-11 15:35 G	3945914.05	3945914.15	3945914.30	0.0145	0.0126 *
Earth	6092-06-15 16:04 G	3946283.98	3946284.17	3946284.39	0.0144	0.0086
Moon	6092-06-15 17:16 G	3946284.02	3946284.22	3946284.43	0.0144	0.0080 *
Mercury	6093-03-26 20:38 G	3946568.28	3946568.36	3946568.44	0.0144	0.0128
Moon	6093-06-20 16:04 G	3946653.93	3946654.17	3946654.42	0.0144	0.0053
Earth	6093-06-20 16:19 G	3946653.95	3946654.18	3946654.43	0.0144	0.0046 *
Mercury	6093-06-23 04:04 G	3946656.54	3946656.67	3946656.80	0.0144	0.0100
Mercury	6093-09-19 11:31 G	3946744.82	3946744.98	3946745.14	0.0144	0.0072
Mercury	6093-12-16 18:57 G	3946833.12	3946833.29	3946833.47	0.0144	0.0044
Mercury	6094-03-15 02:24 G	3946921.42	3946921.60	3946921.79	0.0144	0.0016
Mercury	6094-06-11 10:04 G	3947009.74	3947009.92	3947010.10	0.0144	0.0013
Moon	6094-06-25 16:04 G	3947023.92	3947024.17	3947024.42	0.0144	0.0002
Earth	6094-06-25 16:04 G	3947023.92	3947024.17	3947024.42	0.0144	0.0006 *
Mercury	6094-09-07 17:45 G	3947098.06	3947098.24	3947098.41	0.0144	0.0042
Mercury	6094-12-05 01:11 G	3947186.39	3947186.55	3947186.72	0.0143	0.0071
Mercury	6095-03-03 08:52 G	3947274.74	3947274.87	3947275.01	0.0143	0.0100
Mercury	6095-05-30 16:33 G	3947363.12	3947363.19	3947363.28	0.0143	0.0129
Earth	6095-06-30 15:21 G	3947393.90	3947394.14	3947394.40	0.0143	0.0034
Moon	6095-06-30 16:48 G	3947393.95	3947394.20	3947394.46	0.0143	0.0034 *
Moon	6096-07-04 13:11 G	3947763.85	3947764.05	3947764.28	0.0143	0.0069
Earth	6096-07-04 14:38 G	3947763.90	3947764.11	3947764.34	0.0143	0.0072 *
Earth	6097-07-09 13:11 G	3948133.91	3948134.05	3948134.23	0.0142	0.0110
Moon	6097-07-09 15:50 G	3948134.01	3948134.16	3948134.31	0.0142	0.0117 *
Venus	6098-01-01 20:38 G	3948310.23	3948310.36	3948310.53	0.0142	0.0104
Moon	6098-07-14 09:07 G	3948503.86	3948503.88	3948503.93	0.0142	0.0140
Venus	6098-08-16 07:26 G	3948536.61	3948536.81	3948537.02	0.0142	0.0053
Venus	6099-03-30 18:00 G	3948763.03	3948763.25	3948763.47	0.0142	0.0003
Venus	6099-11-12 04:04 G	3948989.47	3948989.67	3948989.88	0.0141	0.0048
Venus	6100-06-26 13:55 G	3949215.94	3949216.08	3949216.25	0.0141	0.0099
Mars	6128-07-28 14:09 G	3959474.93	3959475.09	3959475.28	0.0133	0.0105

Mars	6130-06-27 07:40 G	3960173.54	3960173.82	3960174.10	0.0133	0.0004
Mars	6132-05-26 03:50 G	3960872.50	3960872.66	3960872.87	0.0133	0.0100
Earth	6134-12-16 13:40 G	3961806.93	3961807.07	3961807.24	0.0134	0.0107
Moon	6134-12-16 16:19 G	3961807.03	3961807.18	3961807.37	0.0134	0.0101 *
Moon	6135-12-20 19:11 G	3962176.12	3962176.30	3962176.51	0.0134	0.0083
Earth	6135-12-20 21:35 G	3962176.20	3962176.40	3962176.62	0.0134	0.0076 *
Mercury	6136-04-01 19:26 G	3962279.30	3962279.31	3962279.34	0.0134	0.0132
Mercury	6136-06-28 23:02 G	3962367.39	3962367.46	3962367.53	0.0134	0.0114
Mercury	6136-09-25 02:24 G	3962455.51	3962455.60	3962455.70	0.0134	0.0097
Mercury	6136-12-22 05:45 G	3962543.63	3962543.74	3962543.85	0.0134	0.0079
Earth	6136-12-24 05:45 G	3962545.51	3962545.74	3962545.99	0.0134	0.0044
Moon	6136-12-24 08:52 G	3962545.62	3962545.87	3962546.12	0.0134	0.0038 *
Mercury	6137-03-20 09:07 G	3962631.76	3962631.88	3962632.01	0.0134	0.0062
Mercury	6137-06-16 12:28 G	3962719.89	3962720.02	3962720.15	0.0135	0.0044
Mercury	6137-09-12 15:50 G	3962808.03	3962808.16	3962808.30	0.0135	0.0027
Mercury	6137-12-09 19:11 G	3962896.16	3962896.30	3962896.44	0.0135	0.0009
Moon	6137-12-28 11:31 G	3962914.74	3962914.98	3962915.24	0.0135	0.0018
Earth	6137-12-28 14:38 G	3962914.85	3962915.11	3962915.36	0.0135	0.0012 *
Mercury	6138-03-07 22:33 G	3962984.30	3962984.44	3962984.57	0.0135	0.0009
Mercury	6138-06-04 01:40 G	3963072.44	3963072.57	3963072.71	0.0135	0.0026
Mercury	6138-08-31 05:02 G	3963160.58	3963160.71	3963160.84	0.0135	0.0043
Mercury	6138-11-27 08:09 G	3963248.73	3963248.84	3963248.97	0.0135	0.0061
Earth	6139-01-01 23:02 G	3963284.22	3963284.46	3963284.72	0.0135	0.0021
Moon	6139-01-02 01:55 G	3963284.33	3963284.58	3963284.84	0.0135	0.0023 *
Mercury	6139-02-23 11:16 G	3963336.87	3963336.97	3963337.09	0.0135	0.0078
Mercury	6139-05-22 14:38 G	3963425.02	3963425.11	3963425.21	0.0135	0.0095
Mercury	6139-08-18 18:00 G	3963513.18	3963513.25	3963513.33	0.0135	0.0112
Mercury	6139-11-14 21:07 G	3963601.35	3963601.38	3963601.42	0.0135	0.0129
Moon	6140-01-06 05:02 G	3963653.49	3963653.71	3963653.95	0.0135	0.0055
Earth	6140-01-06 08:24 G	3963653.62	3963653.85	3963654.09	0.0135	0.0054 *

Earth	6141-01-09 17:31 G	3964023.05	3964023.23	3964023.44	0.0136	0.0087
Moon	6141-01-09 20:38 G	3964023.17	3964023.36	3964023.57	0.0136	0.0083 *
Venus	6141-12-29 05:16 G	3964376.59	3964376.72	3964376.85	0.0136	0.0109
Moon	6142-01-14 00:00 G	3964392.43	3964392.50	3964392.62	0.0136	0.0126
Earth	6142-01-14 03:21 G	3964392.54	3964392.64	3964392.78	0.0136	0.0120 *
Venus	6142-08-12 12:00 G	3964602.82	3964603.00	3964603.20	0.0136	0.0064
Venus	6143-03-26 19:11 G	3964829.09	3964829.30	3964829.52	0.0137	0.0019
Venus	6143-11-08 02:24 G	3965055.39	3965055.60	3965055.82	0.0137	0.0026
Venus	6144-06-21 09:35 G	3965281.72	3965281.90	3965282.09	0.0137	0.0071
Venus	6145-02-02 17:02 G	3965508.10	3965508.21	3965508.32	0.0137	0.0117
Mars	6170-12-05 12:14 G	3974944.74	3974945.01	3974945.31	0.0145	0.0079
Mars	6172-11-12 06:57 G	3975652.54	3975652.79	3975653.08	0.0145	0.0089
Moon	6175-06-13 02:09 G	3976595.45	3976595.59	3976595.75	0.0145	0.0117
Earth	6175-06-13 04:19 G	3976595.55	3976595.68	3976595.82	0.0145	0.0121 *
Earth	6176-06-17 04:33 G	3976965.49	3976965.69	3976965.91	0.0144	0.0081
Moon	6176-06-17 05:45 G	3976965.57	3976965.74	3976965.96	0.0144	0.0090 *
Mercury	6177-04-17 04:33 G	3977269.60	3977269.69	3977269.79	0.0144	0.0119
Moon	6177-06-22 03:35 G	3977335.40	3977335.65	3977335.91	0.0144	0.0034
Earth	6177-06-22 04:48 G	3977335.46	3977335.70	3977335.94	0.0144	0.0041 *
Mercury	6177-07-14 12:00 G	3977357.86	3977358.00	3977358.14	0.0144	0.0091
Mercury	6177-10-10 19:26 G	3977446.15	3977446.31	3977446.48	0.0144	0.0063
Mercury	6178-01-07 02:52 G	3977534.45	3977534.62	3977534.80	0.0144	0.0035
Mercury	6178-04-05 10:33 G	3977622.75	3977622.94	3977623.12	0.0144	0.0006
Earth	6178-06-27 04:48 G	3977705.44	3977705.70	3977705.95	0.0144	0.0002
Moon	6178-06-27 04:48 G	3977705.45	3977705.70	3977705.94	0.0144	0.0006 *
Mercury	6178-07-02 18:00 G	3977711.07	3977711.25	3977711.44	0.0144	0.0023
Mercury	6178-09-29 01:26 G	3977799.40	3977799.56	3977799.74	0.0144	0.0052
Mercury	6178-12-26 09:07 G	3977887.74	3977887.88	3977888.04	0.0143	0.0081
Mercury	6179-03-24 16:48 G	3977976.09	3977976.20	3977976.33	0.0143	0.0109
Mercury	6179-06-21 00:28 G	3978064.49	3978064.52	3978064.58	0.0143	0.0139

Moon	6179-07-02 04:19 G	3978075.43	3978075.68	3978075.94	0.0143	0.0039
Earth	6179-07-02 04:19 G	3978075.44	3978075.68	3978075.93	0.0143	0.0038 *
Moon	6180-07-06 02:09 G	3978445.40	3978445.59	3978445.80	0.0143	0.0082
Earth	6180-07-06 03:21 G	3978445.44	3978445.64	3978445.87	0.0143	0.0078 *
Earth	6181-07-11 01:55 G	3978815.46	3978815.58	3978815.75	0.0142	0.0117
Moon	6181-07-11 03:50 G	3978815.50	3978815.66	3978815.84	0.0142	0.0109 *
Venus	6181-09-02 05:45 G	3978868.64	3978868.74	3978868.84	0.0142	0.0126
Venus	6182-04-16 16:33 G	3979095.00	3979095.19	3979095.37	0.0142	0.0075
Venus	6182-11-29 02:52 G	3979321.41	3979321.62	3979321.84	0.0142	0.0024
Venus	6183-07-13 13:11 G	3979547.84	3979548.05	3979548.27	0.0142	0.0027
Venus	6184-02-24 23:02 G	3979774.29	3979774.46	3979774.65	0.0141	0.0077
Venus	6184-10-08 09:21 G	3980000.79	3980000.89	3980000.98	0.0141	0.0126
Mars	6213-03-23 17:02 G	3990392.97	3990393.21	3990393.47	0.0133	0.0063
Mars	6215-02-20 11:16 G	3991091.72	3991091.97	3991092.26	0.0133	0.0040
Moon	6217-12-13 15:21 G	3992119.12	3992119.14	3992119.21	0.0134	0.0132
Earth	6218-12-18 01:40 G	3992488.41	3992488.57	3992488.73	0.0134	0.0103
Moon	6218-12-18 03:07 G	3992488.49	3992488.63	3992488.80	0.0134	0.0108 *
Moon	6219-12-22 07:26 G	3992857.60	3992857.81	3992858.03	0.0134	0.0065
Earth	6219-12-22 09:21 G	3992857.69	3992857.89	3992858.12	0.0134	0.0073 *
Mercury	6220-04-23 03:07 G	3992980.59	3992980.63	3992980.68	0.0134	0.0126
Mercury	6220-07-20 06:28 G	3993068.70	3993068.77	3993068.86	0.0134	0.0109
Mercury	6220-10-16 09:50 G	3993156.82	3993156.91	3993157.02	0.0134	0.0091
Earth	6220-12-25 17:45 G	3993227.00	3993227.24	3993227.49	0.0134	0.0040
Moon	6220-12-25 19:40 G	3993227.09	3993227.32	3993227.58	0.0134	0.0048 *
Mercury	6221-01-12 13:11 G	3993244.94	3993245.05	3993245.17	0.0134	0.0074
Mercury	6221-04-10 16:48 G	3993333.07	3993333.20	3993333.32	0.0134	0.0056
Mercury	6221-07-07 19:55 G	3993421.20	3993421.33	3993421.47	0.0135	0.0039
Mercury	6221-10-03 23:16 G	3993509.34	3993509.47	3993509.61	0.0135	0.0021
Moon	6221-12-30 00:14 G	3993596.26	3993596.51	3993596.76	0.0135	0.0003
Earth	6221-12-30 02:24 G	3993596.35	3993596.60	3993596.86	0.0135	0.0008 *

Mercury	6221-12-31 02:38 G	3993597.48	3993597.61	3993597.75	0.0135	0.0004
Mercury	6222-03-29 06:00 G	3993685.61	3993685.75	3993685.88	0.0135	0.0014
Mercury	6222-06-25 09:07 G	3993773.75	3993773.88	3993774.02	0.0135	0.0032
Mercury	6222-09-21 12:28 G	3993861.90	3993862.02	3993862.15	0.0135	0.0049
Mercury	6222-12-18 15:50 G	3993950.04	3993950.16	3993950.28	0.0135	0.0066
Earth	6223-01-03 11:16 G	3993965.72	3993965.97	3993966.22	0.0135	0.0025
Moon	6223-01-03 13:55 G	3993965.83	3993966.08	3993966.34	0.0135	0.0023 *
Mercury	6223-03-16 18:57 G	3994038.19	3994038.29	3994038.40	0.0135	0.0083
Mercury	6223-06-12 22:19 G	3994126.34	3994126.43	3994126.52	0.0135	0.0101
Mercury	6223-09-09 01:11 G	3994214.50	3994214.55	3994214.63	0.0135	0.0119
Mercury	6223-12-06 04:33 G	3994302.69	3994302.69	3994302.71	0.0135	0.0135
Moon	6224-01-07 18:00 G	3994335.04	3994335.25	3994335.48	0.0135	0.0059
Earth	6224-01-07 20:09 G	3994335.13	3994335.34	3994335.58	0.0135	0.0059 *
Earth	6225-01-11 05:45 G	3994704.56	3994704.74	3994704.93	0.0136	0.0091
Moon	6225-01-11 08:38 G	3994704.69	3994704.86	3994705.06	0.0136	0.0096 *
Venus	6225-08-29 15:21 G	3994935.07	3994935.14	3994935.22	0.0136	0.0127
Moon	6226-01-15 12:57 G	3995073.93	3995074.04	3995074.17	0.0136	0.0119
Earth	6226-01-15 15:21 G	3995074.06	3995074.14	3995074.26	0.0136	0.0125 *
Venus	6226-04-12 22:04 G	3995161.26	3995161.42	3995161.60	0.0136	0.0083
Venus	6226-11-25 05:16 G	3995387.51	3995387.72	3995387.93	0.0137	0.0039
Venus	6227-07-09 12:14 G	3995613.80	3995614.01	3995614.23	0.0137	0.0007
Venus	6228-02-20 19:11 G	3995840.11	3995840.30	3995840.51	0.0137	0.0052
Venus	6228-10-04 02:24 G	3996066.46	3996066.60	3996066.77	0.0137	0.0098
Mars	6255-08-03 12:14 G	4005865.67	4005866.01	4005866.35	0.0145	0.0011
Moon	6259-06-14 13:55 G	4007276.95	4007277.08	4007277.23	0.0145	0.0121
Earth	6259-06-14 17:02 G	4007277.06	4007277.21	4007277.36	0.0145	0.0117 *
Earth	6260-06-18 17:02 G	4007647.01	4007647.21	4007647.44	0.0144	0.0077
Moon	6260-06-18 19:11 G	4007647.10	4007647.30	4007647.52	0.0144	0.0071 *
Mercury	6261-02-09 05:16 G	4007882.67	4007882.72	4007882.77	0.0144	0.0138
Mercury	6261-05-08 12:28 G	4007970.91	4007971.02	4007971.15	0.0144	0.0110

Moon	6261-06-23 16:04 G	4008016.93	4008017.17	4008017.43	0.0144	0.0044
Earth	6261-06-23 17:16 G	4008016.99	4008017.22	4008017.48	0.0144	0.0037 *
Mercury	6261-08-04 19:55 G	4008059.19	4008059.33	4008059.49	0.0144	0.0082
Mercury	6261-11-01 03:35 G	4008147.48	4008147.65	4008147.82	0.0144	0.0053
Mercury	6262-01-28 11:02 G	4008235.78	4008235.96	4008236.14	0.0144	0.0025
Mercury	6262-04-26 18:28 G	4008324.09	4008324.27	4008324.46	0.0144	0.0005
Earth	6262-06-28 17:31 G	4008386.97	4008387.23	4008387.48	0.0144	0.0003
Moon	6262-06-28 18:43 G	4008387.03	4008387.28	4008387.52	0.0144	0.0009 *
Mercury	6262-07-24 02:09 G	4008412.41	4008412.59	4008412.77	0.0144	0.0033
Mercury	6262-10-20 09:35 G	4008500.74	4008500.90	4008501.08	0.0144	0.0062
Mercury	6263-01-16 17:16 G	4008589.09	4008589.22	4008589.37	0.0143	0.0090
Mercury	6263-04-15 00:57 G	4008677.45	4008677.54	4008677.65	0.0143	0.0119
Moon	6263-07-03 17:02 G	4008756.97	4008757.21	4008757.48	0.0143	0.0044
Earth	6263-07-03 17:02 G	4008756.98	4008757.21	4008757.46	0.0143	0.0044 *
Moon	6264-07-07 16:19 G	4009126.98	4009127.18	4009127.39	0.0143	0.0080
Earth	6264-07-07 16:19 G	4009126.99	4009127.18	4009127.40	0.0143	0.0083 *
Earth	6265-07-12 15:21 G	4009497.01	4009497.14	4009497.28	0.0142	0.0121
Moon	6265-07-12 16:48 G	4009497.08	4009497.20	4009497.32	0.0142	0.0127 *
Venus	6265-12-16 00:57 G	4009653.40	4009653.54	4009653.72	0.0142	0.0097
Venus	6266-07-30 11:45 G	4009879.79	4009879.99	4009880.20	0.0142	0.0045
Venus	6267-03-13 22:19 G	4010106.21	4010106.43	4010106.65	0.0142	0.0006
Venus	6267-10-26 08:24 G	4010332.66	4010332.85	4010333.06	0.0141	0.0056
Venus	6268-06-08 18:28 G	4010559.14	4010559.27	4010559.42	0.0141	0.0106
Mars	6295-12-18 03:07 G	4020612.54	4020612.63	4020612.76	0.0133	0.0122
Mars	6297-11-15 20:52 G	4021311.09	4021311.37	4021311.65	0.0133	0.0021
Mars	6299-10-15 16:04 G	4022009.96	4022010.17	4022010.41	0.0133	0.0081
Moon	6301-12-15 03:50 G	4022800.65	4022800.66	4022800.69	0.0134	0.0133
Earth	6301-12-15 04:48 G	4022800.66	4022800.70	4022800.77	0.0134	0.0131 *
Earth	6302-12-19 12:28 G	4023169.87	4023170.02	4023170.21	0.0134	0.0100
Moon	6302-12-19 14:24 G	4023169.93	4023170.10	4023170.30	0.0134	0.0094 *

Moon	6303-12-23 19:11 G	4023539.11	4023539.30	4023539.52	0.0134	0.0075
Earth	6303-12-23 20:38 G	4023539.15	4023539.36	4023539.59	0.0134	0.0068 *
Mercury	6304-05-14 10:19 G	4023681.88	4023681.93	4023682.00	0.0134	0.0121
Mercury	6304-08-10 13:55 G	4023769.99	4023770.08	4023770.17	0.0134	0.0103
Mercury	6304-11-06 17:16 G	4023858.12	4023858.22	4023858.33	0.0134	0.0086
Earth	6304-12-27 04:48 G	4023908.47	4023908.70	4023908.96	0.0134	0.0036
Moon	6304-12-27 06:57 G	4023908.53	4023908.79	4023909.05	0.0134	0.0030 *
Mercury	6305-02-02 20:38 G	4023946.24	4023946.36	4023946.48	0.0134	0.0068
Mercury	6305-05-02 00:00 G	4024034.38	4024034.50	4024034.63	0.0134	0.0051
Mercury	6305-07-29 03:21 G	4024122.51	4024122.64	4024122.77	0.0134	0.0033
Mercury	6305-10-25 06:43 G	4024210.64	4024210.78	4024210.92	0.0135	0.0016
Moon	6305-12-31 11:45 G	4024277.75	4024277.99	4024278.24	0.0135	0.0010
Earth	6305-12-31 13:40 G	4024277.82	4024278.07	4024278.33	0.0135	0.0004 *
Mercury	6306-01-21 10:04 G	4024298.78	4024298.92	4024299.06	0.0135	0.0002
Mercury	6306-04-19 13:11 G	4024386.92	4024387.05	4024387.19	0.0135	0.0020
Mercury	6306-07-16 16:33 G	4024475.06	4024475.19	4024475.32	0.0135	0.0037
Mercury	6306-10-12 19:55 G	4024563.21	4024563.33	4024563.45	0.0135	0.0054
Earth	6307-01-04 22:19 G	4024647.19	4024647.43	4024647.68	0.0135	0.0030
Moon	6307-01-05 00:00 G	4024647.26	4024647.50	4024647.77	0.0135	0.0033 *
Mercury	6307-01-08 23:02 G	4024651.35	4024651.46	4024651.58	0.0135	0.0071
Mercury	6307-04-07 02:24 G	4024739.50	4024739.60	4024739.70	0.0135	0.0088
Mercury	6307-07-04 05:45 G	4024827.65	4024827.74	4024827.82	0.0135	0.0105
Mercury	6307-09-30 08:52 G	4024915.82	4024915.87	4024915.92	0.0135	0.0123
Moon	6308-01-09 04:48 G	4025016.50	4025016.70	4025016.93	0.0135	0.0063
Earth	6308-01-09 07:26 G	4025016.59	4025016.81	4025017.04	0.0135	0.0062 *
Earth	6309-01-12 16:33 G	4025386.03	4025386.19	4025386.38	0.0136	0.0096
Moon	6309-01-12 18:43 G	4025386.11	4025386.28	4025386.48	0.0136	0.0093 *
Venus	6309-12-12 07:26 G	4025719.68	4025719.81	4025719.97	0.0136	0.0103
Moon	6310-01-16 23:45 G	4025755.47	4025755.49	4025755.54	0.0136	0.0134
Earth	6310-01-17 02:24 G	4025755.53	4025755.60	4025755.69	0.0136	0.0128 *

Venus	6310-07-26 14:24 G	4025945.91	4025946.10	4025946.30	0.0136	0.0059
Venus	6311-03-09 21:21 G	4026172.18	4026172.39	4026172.61	0.0137	0.0014
Venus	6311-10-22 04:33 G	4026398.48	4026398.69	4026398.90	0.0137	0.0031
Venus	6312-06-04 11:45 G	4026624.81	4026624.99	4026625.17	0.0137	0.0076
Venus	6313-01-16 18:28 G	4026851.20	4026851.27	4026851.39	0.0137	0.0123
Mars	6338-04-23 11:02 G	4036078.77	4036078.96	4036079.20	0.0146	0.0113
Mars	6340-03-31 08:24 G	4036786.56	4036786.85	4036787.19	0.0145	0.0055
Moon	6343-06-16 01:40 G	4037958.41	4037958.57	4037958.75	0.0145	0.0110
Earth	6343-06-16 04:33 G	4037958.55	4037958.69	4037958.86	0.0145	0.0113 *
Earth	6344-06-20 05:16 G	4038328.50	4038328.72	4038328.94	0.0144	0.0073
Moon	6344-06-20 07:26 G	4038328.62	4038328.81	4038329.03	0.0144	0.0081 *
Mercury	6345-03-02 12:57 G	4038583.97	4038584.04	4038584.13	0.0144	0.0129
Mercury	6345-05-29 20:24 G	4038672.23	4038672.35	4038672.49	0.0144	0.0101
Moon	6345-06-25 03:21 G	4038698.38	4038698.64	4038698.90	0.0144	0.0025
Earth	6345-06-25 05:45 G	4038698.49	4038698.74	4038698.99	0.0144	0.0032 *
Mercury	6345-08-26 03:50 G	4038760.51	4038760.66	4038760.83	0.0144	0.0073
Mercury	6345-11-22 11:31 G	4038848.81	4038848.98	4038849.15	0.0144	0.0044
Mercury	6346-02-18 18:57 G	4038937.11	4038937.29	4038937.48	0.0144	0.0016
Mercury	6346-05-18 02:38 G	4039025.42	4039025.61	4039025.79	0.0144	0.0013
Earth	6346-06-30 06:00 G	4039068.49	4039068.75	4039069.00	0.0144	0.0008
Moon	6346-06-30 06:57 G	4039068.55	4039068.79	4039069.04	0.0144	0.0004 *
Mercury	6346-08-14 10:04 G	4039113.75	4039113.92	4039114.10	0.0144	0.0042
Mercury	6346-11-10 17:45 G	4039202.08	4039202.24	4039202.40	0.0144	0.0071
Mercury	6347-02-07 01:26 G	4039290.43	4039290.56	4039290.70	0.0143	0.0100
Mercury	6347-05-06 09:07 G	4039378.81	4039378.88	4039378.96	0.0143	0.0129
Moon	6347-07-05 04:33 G	4039438.45	4039438.69	4039438.95	0.0143	0.0051
Earth	6347-07-05 05:45 G	4039438.51	4039438.74	4039438.99	0.0143	0.0048 *
Earth	6348-07-09 05:02 G	4039808.52	4039808.71	4039808.92	0.0143	0.0088
Moon	6348-07-09 05:02 G	4039808.53	4039808.71	4039808.91	0.0143	0.0091 *
Moon	6349-07-14 04:33 G	4040178.56	4040178.69	4040178.84	0.0142	0.0120

Earth	6349-07-14 03:50 G	4040178.57	4040178.66	4040178.80	0.0142	0.0127 *
Venus	6349-08-16 09:50 G	4040211.80	4040211.91	4040212.04	0.0142	0.0118
Venus	6350-03-30 20:38 G	4040438.17	4040438.36	4040438.56	0.0142	0.0066
Venus	6350-11-12 07:11 G	4040664.59	4040664.80	4040665.02	0.0142	0.0016
Venus	6351-06-26 17:31 G	4040891.02	4040891.23	4040891.44	0.0142	0.0035
Venus	6352-02-08 03:35 G	4041117.48	4041117.65	4041117.83	0.0141	0.0085
Venus	6352-09-21 13:11 G	4041344.01	4041344.05	4041344.13	0.0141	0.0135
Mars	6380-08-12 08:24 G	4051530.63	4051530.85	4051531.08	0.0133	0.0080
Mars	6382-07-12 02:09 G	4052229.31	4052229.59	4052229.87	0.0133	0.0020
Mars	6384-06-09 21:07 G	4052928.30	4052928.38	4052928.52	0.0133	0.0123
Moon	6385-12-15 16:19 G	4053482.11	4053482.18	4053482.29	0.0133	0.0125
Earth	6385-12-15 17:16 G	4053482.16	4053482.22	4053482.32	0.0133	0.0127 *
Earth	6386-12-20 00:57 G	4053851.38	4053851.54	4053851.74	0.0134	0.0096
Moon	6386-12-20 01:26 G	4053851.41	4053851.56	4053851.76	0.0134	0.0100 *
Moon	6387-12-24 07:55 G	4054220.62	4054220.83	4054221.06	0.0134	0.0058
Earth	6387-12-24 09:07 G	4054220.67	4054220.88	4054221.12	0.0134	0.0064 *
Mercury	6388-03-07 14:38 G	4054295.09	4054295.11	4054295.13	0.0134	0.0132
Mercury	6388-06-03 17:45 G	4054383.19	4054383.24	4054383.33	0.0134	0.0115
Mercury	6388-08-30 21:21 G	4054471.30	4054471.39	4054471.49	0.0134	0.0097
Mercury	6388-11-27 00:57 G	4054559.43	4054559.54	4054559.65	0.0134	0.0079
Earth	6388-12-27 17:31 G	4054589.99	4054590.23	4054590.48	0.0134	0.0032
Moon	6388-12-27 18:43 G	4054590.03	4054590.28	4054590.53	0.0134	0.0039 *
Mercury	6389-02-23 04:04 G	4054647.56	4054647.67	4054647.80	0.0134	0.0062
Mercury	6389-05-22 07:40 G	4054735.69	4054735.82	4054735.95	0.0134	0.0044
Mercury	6389-08-18 11:02 G	4054823.82	4054823.96	4054824.09	0.0134	0.0027
Mercury	6389-11-14 14:24 G	4054911.96	4054912.10	4054912.23	0.0134	0.0010
Moon	6390-01-01 00:57 G	4054959.30	4054959.54	4054959.79	0.0135	0.0007
Earth	6390-01-01 02:09 G	4054959.34	4054959.59	4054959.85	0.0135	0.0002 *
Mercury	6390-02-10 17:31 G	4055000.10	4055000.23	4055000.37	0.0135	0.0009
Mercury	6390-05-09 20:52 G	4055088.24	4055088.37	4055088.51	0.0135	0.0025

Mercury	6390-08-06 00:14 G	4055176.38	4055176.51	4055176.64	0.0135	0.0043
Mercury	6390-11-02 03:21 G	4055264.52	4055264.64	4055264.77	0.0135	0.0060
Earth	6391-01-05 10:48 G	4055328.71	4055328.95	4055329.20	0.0135	0.0034
Moon	6391-01-05 12:28 G	4055328.78	4055329.02	4055329.28	0.0135	0.0031 *
Mercury	6391-01-29 06:43 G	4055352.67	4055352.78	4055352.89	0.0135	0.0077
Mercury	6391-04-27 09:50 G	4055440.82	4055440.91	4055441.01	0.0135	0.0094
Mercury	6391-07-24 13:11 G	4055528.98	4055529.05	4055529.13	0.0135	0.0111
Mercury	6391-10-20 16:19 G	4055617.15	4055617.18	4055617.23	0.0135	0.0128
Moon	6392-01-09 18:28 G	4055698.06	4055698.27	4055698.48	0.0135	0.0069
Earth	6392-01-09 19:26 G	4055698.11	4055698.31	4055698.55	0.0135	0.0068 *
Earth	6393-01-13 05:02 G	4056067.54	4056067.71	4056067.88	0.0136	0.0100
Moon	6393-01-13 06:43 G	4056067.63	4056067.78	4056067.97	0.0136	0.0104 *
Venus	6393-08-11 17:45 G	4056278.16	4056278.24	4056278.35	0.0136	0.0121
Moon	6394-01-17 12:43 G	4056436.96	4056437.03	4056437.12	0.0136	0.0128
Earth	6394-01-17 14:09 G	4056437.06	4056437.09	4056437.16	0.0136	0.0134 *
Venus	6394-03-26 00:28 G	4056504.35	4056504.52	4056504.71	0.0136	0.0077
Venus	6394-11-07 07:40 G	4056730.61	4056730.82	4056731.03	0.0136	0.0033
Venus	6395-06-21 14:38 G	4056956.89	4056957.11	4056957.33	0.0137	0.0012
Venus	6396-02-02 21:35 G	4057183.21	4057183.40	4057183.60	0.0137	0.0057
Venus	6396-09-16 04:33 G	4057409.56	4057409.69	4057409.85	0.0137	0.0103
Mars	6422-12-19 09:07 G	4066999.58	4066999.88	4067000.22	0.0146	0.0048
Mars	6424-11-26 04:33 G	4067707.52	4067707.69	4067707.91	0.0145	0.0119
Moon	6427-06-16 12:43 G	4068639.89	4068640.03	4068640.21	0.0145	0.0112
Earth	6427-06-16 16:04 G	4068640.03	4068640.17	4068640.36	0.0145	0.0109 *
Earth	6428-06-20 16:48 G	4069009.99	4069010.20	4069010.44	0.0144	0.0069
Moon	6428-06-20 19:55 G	4069010.11	4069010.33	4069010.56	0.0144	0.0062 *
Mercury	6429-03-22 20:52 G	4069285.28	4069285.37	4069285.48	0.0144	0.0120
Mercury	6429-06-19 04:19 G	4069373.55	4069373.68	4069373.82	0.0144	0.0092
Moon	6429-06-25 15:07 G	4069379.89	4069380.13	4069380.39	0.0144	0.0035
Earth	6429-06-25 17:45 G	4069379.99	4069380.24	4069380.49	0.0144	0.0027 *

Mercury	6429-09-15 11:45 G	4069461.83	4069461.99	4069462.16	0.0144	0.0064
Mercury	6429-12-12 19:26 G	4069550.13	4069550.31	4069550.48	0.0144	0.0035
Mercury	6430-03-11 02:52 G	4069638.44	4069638.62	4069638.80	0.0144	0.0007
Mercury	6430-06-07 10:33 G	4069726.75	4069726.94	4069727.12	0.0144	0.0022
Earth	6430-06-30 18:00 G	4069750.00	4069750.25	4069750.50	0.0144	0.0013
Moon	6430-06-30 20:09 G	4069750.10	4069750.34	4069750.59	0.0144	0.0019 *
Mercury	6430-09-03 18:00 G	4069815.08	4069815.25	4069815.42	0.0144	0.0051
Mercury	6430-12-01 01:40 G	4069903.42	4069903.57	4069903.72	0.0144	0.0080
Mercury	6431-02-27 09:21 G	4069991.77	4069991.89	4069992.01	0.0143	0.0109
Mercury	6431-05-26 17:02 G	4070080.17	4070080.21	4070080.26	0.0143	0.0138
Moon	6431-07-05 16:33 G	4070119.96	4070120.19	4070120.45	0.0143	0.0052
Earth	6431-07-05 17:45 G	4070120.01	4070120.24	4070120.49	0.0143	0.0054 *
Earth	6432-07-09 17:16 G	4070490.04	4070490.22	4070490.42	0.0143	0.0093
Moon	6432-07-09 18:14 G	4070490.08	4070490.26	4070490.46	0.0143	0.0091 *
Venus	6433-04-15 18:00 G	4070770.22	4070770.25	4070770.30	0.0143	0.0140
Earth	6433-07-14 16:04 G	4070860.09	4070860.17	4070860.28	0.0143	0.0132
Moon	6433-07-14 16:04 G	4070860.11	4070860.17	4070860.26	0.0143	0.0137 *
Venus	6433-11-28 04:48 G	4070996.54	4070996.70	4070996.88	0.0142	0.0089
Venus	6434-07-12 15:35 G	4071222.94	4071223.15	4071223.36	0.0142	0.0038
Venus	6435-02-24 01:55 G	4071449.36	4071449.58	4071449.80	0.0142	0.0013
Venus	6435-10-08 12:00 G	4071675.81	4071676.00	4071676.20	0.0142	0.0064
Venus	6436-05-21 22:19 G	4071902.31	4071902.43	4071902.57	0.0141	0.0113
Mars	6465-04-06 12:57 G	4082448.78	4082449.04	4082449.32	0.0133	0.0040
Mars	6467-03-06 06:28 G	4083147.53	4083147.77	4083148.03	0.0133	0.0061
Earth	6469-12-16 06:00 G	4084163.65	4084163.75	4084163.85	0.0133	0.0122
Moon	6469-12-16 05:31 G	4084163.66	4084163.73	4084163.84	0.0133	0.0123 *
Earth	6470-12-20 13:26 G	4084532.88	4084533.06	4084533.26	0.0134	0.0091
Moon	6470-12-20 14:09 G	4084532.89	4084533.09	4084533.30	0.0134	0.0086 *
Earth	6471-12-24 21:21 G	4084902.17	4084902.39	4084902.63	0.0134	0.0059
Moon	6471-12-24 21:07 G	4084902.18	4084902.38	4084902.61	0.0134	0.0065 *

Mercury	6472-03-27 22:19 G	4084996.38	4084996.43	4084996.47	0.0134	0.0126
Mercury	6472-06-24 01:26 G	4085084.49	4085084.56	4085084.65	0.0134	0.0109
Mercury	6472-09-20 05:02 G	4085172.61	4085172.71	4085172.81	0.0134	0.0091
Mercury	6472-12-17 08:09 G	4085260.74	4085260.84	4085260.97	0.0134	0.0074
Earth	6472-12-28 05:45 G	4085271.49	4085271.74	4085271.99	0.0134	0.0027
Moon	6472-12-28 06:28 G	4085271.51	4085271.77	4085272.03	0.0134	0.0020 *
Mercury	6473-03-15 11:45 G	4085348.87	4085348.99	4085349.12	0.0134	0.0056
Mercury	6473-06-11 15:07 G	4085437.00	4085437.13	4085437.26	0.0134	0.0039
Mercury	6473-09-07 18:28 G	4085525.14	4085525.27	4085525.41	0.0134	0.0021
Mercury	6473-12-04 21:50 G	4085613.27	4085613.41	4085613.55	0.0134	0.0004
Moon	6474-01-01 13:26 G	4085640.81	4085641.06	4085641.30	0.0134	0.0001
Earth	6474-01-01 14:09 G	4085640.84	4085641.09	4085641.35	0.0134	0.0006 *
Mercury	6474-03-03 01:11 G	4085701.41	4085701.55	4085701.68	0.0135	0.0014
Mercury	6474-05-30 04:19 G	4085789.55	4085789.68	4085789.82	0.0135	0.0031
Mercury	6474-08-26 07:40 G	4085877.69	4085877.82	4085877.95	0.0135	0.0048
Mercury	6474-11-22 11:02 G	4085965.84	4085965.96	4085966.08	0.0135	0.0065
Earth	6475-01-05 22:33 G	4086010.20	4086010.44	4086010.68	0.0135	0.0039
Moon	6475-01-05 23:16 G	4086010.22	4086010.47	4086010.72	0.0135	0.0043 *
Mercury	6475-02-18 14:09 G	4086053.99	4086054.09	4086054.20	0.0135	0.0082
Mercury	6475-05-17 17:31 G	4086142.14	4086142.23	4086142.32	0.0135	0.0099
Mercury	6475-08-13 20:38 G	4086230.30	4086230.36	4086230.43	0.0135	0.0116
Mercury	6475-11-10 00:00 G	4086318.48	4086318.50	4086318.51	0.0135	0.0133
Moon	6476-01-10 06:00 G	4086379.55	4086379.75	4086379.96	0.0135	0.0072
Earth	6476-01-10 07:11 G	4086379.60	4086379.80	4086380.02	0.0135	0.0072 *
Earth	6477-01-13 16:33 G	4086749.03	4086749.19	4086749.35	0.0136	0.0105
Moon	6477-01-13 17:02 G	4086749.07	4086749.21	4086749.40	0.0136	0.0104 *
Venus	6477-11-23 10:19 G	4087062.79	4087062.93	4087063.10	0.0136	0.0097
Venus	6478-07-07 17:16 G	4087289.02	4087289.22	4087289.42	0.0136	0.0053
Venus	6479-02-19 00:00 G	4087515.29	4087515.50	4087515.72	0.0136	0.0009
Venus	6479-10-03 06:57 G	4087741.59	4087741.79	4087742.01	0.0137	0.0037

Venus	6480-05-16 13:55 G	4087967.92	4087968.08	4087968.27	0.0137	0.0082
Venus	6480-12-28 21:21 G	4088194.32	4088194.39	4088194.47	0.0137	0.0127
Mars	6507-08-17 04:19 G	4097920.35	4097920.68	4097921.02	0.0146	0.0016
Earth	6510-06-13 01:55 G	4098951.58	4098951.58	4098951.63	0.0145	0.0145
Moon	6510-06-13 05:45 G	4098951.71	4098951.74	4098951.81	0.0145	0.0142
Moon	6511-06-17 23:45 G	4099321.32	4099321.49	4099321.68	0.0145	0.0102
Earth	6511-06-18 03:07 G	4099321.47	4099321.63	4099321.82	0.0145	0.0104 *
Earth	6512-06-22 03:50 G	4099691.45	4099691.66	4099691.91	0.0145	0.0064
Moon	6512-06-22 07:11 G	4099691.59	4099691.80	4099692.03	0.0145	0.0071 *
Mercury	6513-01-14 21:07 G	4099898.35	4099898.38	4099898.42	0.0144	0.0141
Mercury	6513-04-13 04:33 G	4099986.58	4099986.69	4099986.81	0.0144	0.0113
Moon	6513-06-27 01:40 G	4100061.32	4100061.57	4100061.83	0.0144	0.0015
Earth	6513-06-27 04:48 G	4100061.45	4100061.70	4100061.96	0.0144	0.0023 *
Mercury	6513-07-10 12:00 G	4100074.86	4100075.00	4100075.15	0.0144	0.0084
Mercury	6513-10-06 19:26 G	4100163.14	4100163.31	4100163.48	0.0144	0.0056
Mercury	6514-01-03 02:52 G	4100251.44	4100251.62	4100251.80	0.0144	0.0028
Mercury	6514-04-01 10:33 G	4100339.75	4100339.94	4100340.12	0.0144	0.0002
Mercury	6514-06-28 18:00 G	4100428.07	4100428.25	4100428.43	0.0144	0.0030
Earth	6514-07-02 05:16 G	4100431.47	4100431.72	4100431.98	0.0144	0.0019
Moon	6514-07-02 07:26 G	4100431.57	4100431.81	4100432.06	0.0144	0.0013 *
Mercury	6514-09-25 01:40 G	4100516.40	4100516.57	4100516.74	0.0144	0.0059
Mercury	6514-12-22 09:07 G	4100604.74	4100604.88	4100605.04	0.0144	0.0088
Mercury	6515-03-20 16:48 G	4100693.11	4100693.20	4100693.32	0.0144	0.0117
Moon	6515-07-07 02:52 G	4100801.40	4100801.62	4100801.87	0.0143	0.0062
Earth	6515-07-07 05:16 G	4100801.50	4100801.72	4100801.96	0.0143	0.0059 *
Earth	6516-07-11 04:48 G	4101171.52	4101171.70	4101171.89	0.0143	0.0098
Moon	6516-07-11 05:31 G	4101171.58	4101171.73	4101171.93	0.0143	0.0101 *
Moon	6517-07-16 03:07 G	4101541.53	4101541.63	4101541.74	0.0143	0.0131
Earth	6517-07-16 03:50 G	4101541.60	4101541.66	4101541.74	0.0143	0.0137 *
Venus	6517-07-29 12:43 G	4101554.90	4101555.03	4101555.17	0.0143	0.0112

Venus	6518-03-12 23:31 G	4101781.28	4101781.48	4101781.68	0.0142	0.0061
Venus	6518-10-25 10:04 G	4102007.70	4102007.92	4102008.14	0.0142	0.0010
Venus	6519-06-08 20:38 G	4102234.15	4102234.36	4102234.57	0.0142	0.0041
Venus	6520-01-21 06:28 G	4102460.62	4102460.77	4102460.95	0.0142	0.0092
Venus	6520-09-03 16:33 G	4102687.19	4102687.19	4102687.22	0.0141	0.0141
Mars	6548-01-02 01:55 G	4112668.41	4112668.58	4112668.79	0.0133	0.0098
Mars	6549-11-30 19:11 G	4113367.02	4113367.30	4113367.58	0.0133	0.0002
Mars	6551-10-30 12:28 G	4114065.86	4114066.02	4114066.22	0.0133	0.0103
Moon	6553-12-17 19:26 G	4114845.19	4114845.31	4114845.43	0.0133	0.0116
Earth	6553-12-17 18:43 G	4114845.19	4114845.28	4114845.43	0.0133	0.0118 *
Moon	6554-12-22 02:09 G	4115214.40	4115214.59	4115214.80	0.0134	0.0089
Earth	6554-12-22 02:38 G	4115214.43	4115214.61	4115214.82	0.0134	0.0086 *
Moon	6555-12-26 10:48 G	4115583.73	4115583.95	4115584.18	0.0134	0.0048
Earth	6555-12-26 10:48 G	4115583.73	4115583.95	4115584.19	0.0134	0.0054 *
Mercury	6556-04-18 05:45 G	4115697.69	4115697.74	4115697.81	0.0134	0.0120
Mercury	6556-07-15 09:21 G	4115785.80	4115785.89	4115785.98	0.0134	0.0102
Mercury	6556-10-11 12:43 G	4115873.93	4115874.03	4115874.14	0.0134	0.0085
Moon	6556-12-29 18:57 G	4115953.04	4115953.29	4115953.55	0.0134	0.0029
Earth	6556-12-29 19:11 G	4115953.05	4115953.30	4115953.55	0.0134	0.0021 *
Mercury	6557-01-07 16:04 G	4115962.06	4115962.17	4115962.29	0.0134	0.0067
Mercury	6557-04-05 19:26 G	4116050.19	4116050.31	4116050.44	0.0134	0.0050
Mercury	6557-07-02 22:48 G	4116138.32	4116138.45	4116138.59	0.0134	0.0032
Mercury	6557-09-29 02:09 G	4116226.46	4116226.59	4116226.73	0.0134	0.0015
Mercury	6557-12-26 05:31 G	4116314.59	4116314.73	4116314.87	0.0134	0.0002
Earth	6558-01-03 03:21 G	4116322.39	4116322.64	4116322.90	0.0134	0.0011
Moon	6558-01-03 03:07 G	4116322.40	4116322.63	4116322.88	0.0134	0.0018 *
Mercury	6558-03-24 08:52 G	4116402.73	4116402.87	4116403.00	0.0135	0.0020
Mercury	6558-06-20 12:00 G	4116490.87	4116491.00	4116491.13	0.0135	0.0037
Mercury	6558-09-16 15:07 G	4116579.02	4116579.13	4116579.26	0.0135	0.0055
Mercury	6558-12-13 18:28 G	4116667.16	4116667.27	4116667.39	0.0135	0.0072

Earth	6559-01-07 11:31 G	4116691.76	4116691.98	4116692.23	0.0135	0.0045
Moon	6559-01-07 12:28 G	4116691.77	4116692.02	4116692.27	0.0135	0.0040 *
Mercury	6559-03-11 21:35 G	4116755.31	4116755.40	4116755.51	0.0135	0.0089
Mercury	6559-06-08 00:57 G	4116843.46	4116843.54	4116843.63	0.0135	0.0106
Mercury	6559-09-04 04:04 G	4116931.63	4116931.67	4116931.74	0.0135	0.0123
Moon	6560-01-11 20:09 G	4117061.15	4117061.34	4117061.55	0.0135	0.0080
Earth	6560-01-11 20:24 G	4117061.15	4117061.35	4117061.57	0.0135	0.0078 *
Earth	6561-01-15 05:16 G	4117430.59	4117430.72	4117430.88	0.0136	0.0111
Moon	6561-01-15 06:14 G	4117430.63	4117430.76	4117430.92	0.0136	0.0113 *
Venus	6561-07-24 21:07 G	4117621.28	4117621.38	4117621.51	0.0136	0.0115
Venus	6562-03-08 03:50 G	4117847.49	4117847.66	4117847.86	0.0136	0.0071
Venus	6562-10-20 11:02 G	4118073.74	4118073.96	4118074.17	0.0136	0.0027
Venus	6563-06-03 17:45 G	4118300.03	4118300.24	4118300.46	0.0137	0.0018
Venus	6564-01-16 00:57 G	4118526.34	4118526.54	4118526.73	0.0137	0.0063
Venus	6564-08-29 07:55 G	4118752.70	4118752.83	4118752.96	0.0137	0.0108
Mars	6590-05-06 05:16 G	4128133.44	4128133.72	4128134.00	0.0146	0.0084
Mars	6592-04-13 03:35 G	4128841.39	4128841.65	4128841.94	0.0146	0.0082
Earth	6594-06-13 14:38 G	4129633.06	4129633.11	4129633.19	0.0145	0.0140
Moon	6594-06-13 18:14 G	4129633.22	4129633.26	4129633.33	0.0145	0.0141
Moon	6595-06-18 12:14 G	4130002.83	4130003.01	4130003.19	0.0145	0.0101
Earth	6595-06-18 15:50 G	4130002.99	4130003.16	4130003.36	0.0145	0.0099 *
Earth	6596-06-22 16:48 G	4130372.97	4130373.20	4130373.43	0.0145	0.0058
Moon	6596-06-22 19:55 G	4130373.11	4130373.33	4130373.58	0.0145	0.0053 *
Mercury	6597-02-04 05:02 G	4130599.65	4130599.71	4130599.79	0.0144	0.0132
Mercury	6597-05-03 12:28 G	4130687.90	4130688.02	4130688.15	0.0144	0.0104
Moon	6597-06-27 14:24 G	4130742.84	4130743.10	4130743.35	0.0144	0.0025
Earth	6597-06-27 17:31 G	4130742.98	4130743.23	4130743.48	0.0144	0.0017 *
Mercury	6597-07-30 19:55 G	4130776.18	4130776.33	4130776.49	0.0144	0.0075
Mercury	6597-10-27 03:21 G	4130864.47	4130864.64	4130864.82	0.0144	0.0047
Mercury	6598-01-23 10:48 G	4130952.78	4130952.95	4130953.14	0.0144	0.0019

Mercury	6598-04-21 18:28 G	4131041.09	4131041.27	4131041.45	0.0144	0.0010
Earth	6598-07-02 17:45 G	4131112.99	4131113.24	4131113.50	0.0144	0.0024
Moon	6598-07-02 20:52 G	4131113.13	4131113.37	4131113.62	0.0144	0.0031 *
Mercury	6598-07-19 01:55 G	4131129.41	4131129.58	4131129.76	0.0144	0.0039
Mercury	6598-10-15 09:35 G	4131217.74	4131217.90	4131218.07	0.0144	0.0068
Mercury	6599-01-11 17:16 G	4131306.09	4131306.22	4131306.36	0.0144	0.0097
Mercury	6599-04-10 00:57 G	4131394.46	4131394.54	4131394.63	0.0144	0.0126
Moon	6599-07-07 15:21 G	4131482.91	4131483.14	4131483.38	0.0144	0.0062
Earth	6599-07-07 17:31 G	4131483.01	4131483.23	4131483.47	0.0144	0.0065 *
Earth	6600-07-12 17:02 G	4131853.05	4131853.21	4131853.39	0.0143	0.0104
Moon	6600-07-12 18:57 G	4131853.13	4131853.29	4131853.48	0.0143	0.0104 *
Venus	6601-03-29 20:38 G	4132113.31	4132113.36	4132113.45	0.0143	0.0135
Venus	6601-11-11 07:26 G	4132339.65	4132339.81	4132340.00	0.0143	0.0084
Venus	6602-06-25 18:14 G	4132566.06	4132566.26	4132566.48	0.0142	0.0033
Venus	6603-02-07 04:48 G	4132792.49	4132792.70	4132792.92	0.0142	0.0019
Venus	6603-09-21 14:52 G	4133018.95	4133019.12	4133019.33	0.0142	0.0070
Venus	6604-05-05 01:11 G	4133245.45	4133245.55	4133245.68	0.0141	0.0119
Mars	6632-08-27 08:09 G	4143586.59	4143586.84	4143587.10	0.0133	0.0056
Mars	6634-07-27 00:00 G	4144285.24	4144285.50	4144285.77	0.0133	0.0044
Earth	6637-12-19 08:09 G	4145526.72	4145526.84	4145526.99	0.0133	0.0113
Moon	6637-12-19 09:35 G	4145526.78	4145526.90	4145527.04	0.0133	0.0113 *
Moon	6638-12-23 15:35 G	4145895.95	4145896.15	4145896.38	0.0134	0.0077
Earth	6638-12-23 16:19 G	4145895.98	4145896.18	4145896.39	0.0134	0.0081 *
Earth	6639-12-28 00:00 G	4146265.27	4146265.50	4146265.75	0.0134	0.0049
Moon	6639-12-28 01:11 G	4146265.33	4146265.55	4146265.77	0.0134	0.0054 *
Mercury	6640-02-11 10:04 G	4146310.90	4146310.92	4146310.96	0.0134	0.0131
Mercury	6640-05-09 13:40 G	4146399.00	4146399.07	4146399.14	0.0134	0.0113
Mercury	6640-08-05 17:02 G	4146487.12	4146487.21	4146487.31	0.0134	0.0096
Mercury	6640-11-01 20:24 G	4146575.24	4146575.35	4146575.47	0.0134	0.0078
Moon	6640-12-31 07:40 G	4146634.56	4146634.82	4146635.09	0.0134	0.0010

Earth	6640-12-31 08:09 G	4146634.59	4146634.84	4146635.10	0.0134	0.0016 *
Mercury	6641-01-28 23:45 G	4146663.37	4146663.49	4146663.62	0.0134	0.0061
Mercury	6641-04-27 03:07 G	4146751.50	4146751.63	4146751.76	0.0134	0.0044
Mercury	6641-07-24 06:28 G	4146839.64	4146839.77	4146839.91	0.0134	0.0026
Mercury	6641-10-20 09:50 G	4146927.77	4146927.91	4146928.05	0.0134	0.0009
Earth	6642-01-04 16:19 G	4147003.93	4147004.18	4147004.43	0.0134	0.0017
Moon	6642-01-04 16:33 G	4147003.95	4147004.19	4147004.44	0.0134	0.0011 *
Mercury	6642-01-16 13:11 G	4147015.91	4147016.05	4147016.18	0.0134	0.0009
Mercury	6642-04-14 16:19 G	4147104.05	4147104.18	4147104.32	0.0135	0.0026
Mercury	6642-07-11 19:40 G	4147192.19	4147192.32	4147192.45	0.0135	0.0043
Mercury	6642-10-07 22:48 G	4147280.34	4147280.45	4147280.58	0.0135	0.0061
Mercury	6643-01-04 02:09 G	4147368.48	4147368.59	4147368.70	0.0135	0.0077
Moon	6643-01-09 00:00 G	4147373.27	4147373.50	4147373.75	0.0135	0.0055
Earth	6643-01-09 00:28 G	4147373.29	4147373.52	4147373.76	0.0135	0.0050 *
Mercury	6643-04-02 05:16 G	4147456.63	4147456.72	4147456.82	0.0135	0.0095
Mercury	6643-06-29 08:24 G	4147544.79	4147544.85	4147544.94	0.0135	0.0112
Mercury	6643-09-25 12:00 G	4147632.96	4147633.00	4147633.04	0.0135	0.0128
Moon	6644-01-13 08:38 G	4147742.68	4147742.86	4147743.07	0.0135	0.0082
Earth	6644-01-13 08:52 G	4147742.69	4147742.87	4147743.09	0.0135	0.0083 *
Moon	6645-01-16 18:00 G	4148112.12	4148112.25	4148112.39	0.0136	0.0115
Earth	6645-01-16 18:00 G	4148112.13	4148112.25	4148112.39	0.0136	0.0116 *
Venus	6645-03-25 08:09 G	4148179.80	4148179.84	4148179.88	0.0136	0.0133
Venus	6645-11-06 14:24 G	4148405.95	4148406.10	4148406.28	0.0136	0.0090
Venus	6646-06-20 21:21 G	4148632.19	4148632.39	4148632.60	0.0136	0.0046
Venus	6647-02-02 04:04 G	4148858.46	4148858.67	4148858.89	0.0136	0.0004
Venus	6647-09-16 11:02 G	4149084.76	4149084.96	4149085.17	0.0137	0.0044
Venus	6648-04-29 18:00 G	4149311.09	4149311.25	4149311.42	0.0137	0.0089
Venus	6648-12-12 01:11 G	4149537.52	4149537.55	4149537.60	0.0137	0.0135
Jupiter	6665-02-03 02:24 G	4155434.10	4155434.60	4155435.13	0.0144	0.0027
Mars	6675-01-02 04:48 G	4159054.37	4159054.70	4159055.04	0.0146	0.0018

Earth	6678-06-15 03:07 G	4160314.56	4160314.63	4160314.74	0.0145	0.0135
Moon	6678-06-15 06:43 G	4160314.70	4160314.78	4160314.90	0.0145	0.0133 *
Moon	6679-06-20 00:57 G	4160684.36	4160684.54	4160684.74	0.0145	0.0093
Earth	6679-06-20 04:33 G	4160684.50	4160684.69	4160684.88	0.0145	0.0094 *
Earth	6680-06-24 05:16 G	4161054.49	4161054.72	4161054.96	0.0145	0.0053
Moon	6680-06-24 08:52 G	4161054.65	4161054.87	4161055.11	0.0145	0.0060 *
Mercury	6681-02-25 13:11 G	4161300.96	4161301.05	4161301.15	0.0144	0.0122
Mercury	6681-05-24 20:24 G	4161389.23	4161389.35	4161389.50	0.0144	0.0095
Moon	6681-06-29 02:38 G	4161424.36	4161424.61	4161424.87	0.0144	0.0004
Earth	6681-06-29 06:14 G	4161424.51	4161424.76	4161425.01	0.0144	0.0012 *
Mercury	6681-08-21 03:50 G	4161477.51	4161477.66	4161477.83	0.0144	0.0067
Mercury	6681-11-17 11:31 G	4161565.80	4161565.98	4161566.16	0.0144	0.0038
Mercury	6682-02-13 18:57 G	4161654.11	4161654.29	4161654.48	0.0144	0.0009
Mercury	6682-05-13 02:24 G	4161742.43	4161742.60	4161742.79	0.0144	0.0020
Earth	6682-07-04 06:14 G	4161794.52	4161794.76	4161795.02	0.0144	0.0030
Moon	6682-07-04 09:21 G	4161794.65	4161794.89	4161795.14	0.0144	0.0024 *
Mercury	6682-08-09 10:04 G	4161830.75	4161830.92	4161831.10	0.0144	0.0048
Mercury	6682-11-05 17:45 G	4161919.08	4161919.24	4161919.40	0.0144	0.0077
Mercury	6683-02-02 01:26 G	4162007.44	4162007.56	4162007.68	0.0144	0.0106
Mercury	6683-05-01 08:38 G	4162095.82	4162095.86	4162095.94	0.0144	0.0136
Moon	6683-07-09 03:07 G	4162164.42	4162164.63	4162164.86	0.0144	0.0075
Earth	6683-07-09 06:14 G	4162164.55	4162164.76	4162164.99	0.0144	0.0071 *
Earth	6684-07-13 05:31 G	4162534.59	4162534.73	4162534.91	0.0143	0.0110
Moon	6684-07-13 07:55 G	4162534.68	4162534.83	4162534.99	0.0143	0.0111 *
Venus	6685-07-11 16:04 G	4162898.04	4162898.17	4162898.33	0.0143	0.0106
Venus	6686-02-23 02:52 G	4163124.43	4163124.62	4163124.83	0.0143	0.0055
Venus	6686-10-07 13:40 G	4163350.85	4163351.07	4163351.29	0.0142	0.0003
Venus	6687-05-22 00:00 G	4163577.30	4163577.50	4163577.72	0.0142	0.0048
Venus	6688-01-03 10:19 G	4163803.78	4163803.93	4163804.09	0.0142	0.0098
Mars	6715-05-24 22:04 G	4173806.28	4173806.42	4173806.58	0.0133	0.0112

Mars	6717-04-22 13:26 G	4174504.78	4174505.06	4174505.34	0.0133	0.0013
Mars	6719-03-22 05:45 G	4175203.54	4175203.74	4175203.97	0.0133	0.0087
Earth	6721-12-20 22:19 G	4176208.30	4176208.43	4176208.60	0.0133	0.0108
Moon	6721-12-20 23:45 G	4176208.36	4176208.49	4176208.65	0.0133	0.0107 *
Moon	6722-12-25 04:19 G	4176577.48	4176577.68	4176577.91	0.0134	0.0079
Earth	6722-12-25 06:28 G	4176577.56	4176577.77	4176577.98	0.0134	0.0076 *
Earth	6723-12-29 13:55 G	4176946.85	4176947.08	4176947.33	0.0134	0.0044
Moon	6723-12-29 15:07 G	4176946.90	4176947.13	4176947.37	0.0134	0.0038 *
Mercury	6724-03-03 18:00 G	4177012.21	4177012.25	4177012.31	0.0134	0.0124
Mercury	6724-05-30 21:21 G	4177100.32	4177100.39	4177100.48	0.0134	0.0106
Mercury	6724-08-27 00:57 G	4177188.44	4177188.54	4177188.64	0.0134	0.0089
Mercury	6724-11-23 04:19 G	4177276.56	4177276.68	4177276.80	0.0134	0.0071
Moon	6725-01-01 20:52 G	4177316.11	4177316.37	4177316.63	0.0134	0.0018
Earth	6725-01-01 22:04 G	4177316.17	4177316.42	4177316.68	0.0134	0.0011 *
Mercury	6725-02-19 07:40 G	4177364.69	4177364.82	4177364.95	0.0134	0.0054
Mercury	6725-05-18 11:02 G	4177452.83	4177452.96	4177453.09	0.0134	0.0036
Mercury	6725-08-14 14:24 G	4177540.96	4177541.10	4177541.24	0.0134	0.0019
Mercury	6725-11-10 17:45 G	4177629.10	4177629.24	4177629.37	0.0134	0.0003
Earth	6726-01-06 06:00 G	4177685.50	4177685.75	4177686.00	0.0134	0.0022
Moon	6726-01-06 06:57 G	4177685.56	4177685.79	4177686.04	0.0134	0.0029 *
Mercury	6726-02-06 20:52 G	4177717.24	4177717.37	4177717.51	0.0135	0.0016
Mercury	6726-05-06 00:14 G	4177805.38	4177805.51	4177805.64	0.0135	0.0033
Mercury	6726-08-02 03:35 G	4177893.52	4177893.65	4177893.77	0.0135	0.0050
Mercury	6726-10-29 06:43 G	4177981.67	4177981.78	4177981.90	0.0135	0.0067
Moon	6727-01-10 13:55 G	4178054.84	4178055.08	4178055.32	0.0135	0.0050
Earth	6727-01-10 14:09 G	4178054.87	4178055.09	4178055.33	0.0135	0.0056 *
Mercury	6727-01-25 10:04 G	4178069.81	4178069.92	4178070.02	0.0135	0.0084
Mercury	6727-04-23 13:11 G	4178157.97	4178158.05	4178158.14	0.0135	0.0101
Mercury	6727-07-20 16:33 G	4178246.13	4178246.19	4178246.25	0.0135	0.0118
Earth	6728-01-14 22:48 G	4178424.27	4178424.45	4178424.65	0.0135	0.0089

Moon	6728-01-15 00:00 G	4178424.32	4178424.50	4178424.68	0.0135	0.0092	*
Moon	6729-01-18 07:40 G	4178793.72	4178793.82	4178793.94	0.0136	0.0122	
Earth	6729-01-18 07:26 G	4178793.73	4178793.81	4178793.95	0.0136	0.0122	*
Venus	6729-07-08 01:55 G	4178964.46	4178964.58	4178964.73	0.0136	0.0107	
Venus	6730-02-19 08:38 G	4179190.67	4179190.86	4179191.06	0.0136	0.0063	
Venus	6730-10-03 15:35 G	4179416.93	4179417.15	4179417.36	0.0136	0.0019	
Venus	6731-05-17 22:19 G	4179643.22	4179643.43	4179643.65	0.0136	0.0026	
Venus	6731-12-30 05:31 G	4179869.55	4179869.73	4179869.92	0.0137	0.0071	
Venus	6732-08-12 12:28 G	4180095.92	4180096.02	4180096.14	0.0137	0.0116	
Mars	6757-09-22 07:55 G	4189267.65	4189267.83	4189268.06	0.0146	0.0115	
Mars	6759-08-31 09:07 G	4189975.58	4189975.88	4189976.22	0.0146	0.0052	
Earth	6762-06-16 17:45 G	4190996.15	4190996.24	4190996.36	0.0145	0.0130	
Moon	6762-06-16 20:52 G	4190996.29	4190996.37	4190996.49	0.0145	0.0133	*
Moon	6763-06-21 15:21 G	4191365.95	4191366.14	4191366.34	0.0145	0.0091	
Earth	6763-06-21 19:11 G	4191366.10	4191366.30	4191366.50	0.0145	0.0089	*
Earth	6764-06-25 19:55 G	4191736.10	4191736.33	4191736.57	0.0145	0.0048	
Moon	6764-06-25 23:31 G	4191736.24	4191736.48	4191736.73	0.0145	0.0043	*
Mercury	6764-12-20 14:38 G	4191914.06	4191914.11	4191914.16	0.0144	0.0139	
Mercury	6765-03-18 21:35 G	4192002.30	4192002.40	4192002.53	0.0144	0.0111	
Mercury	6765-06-15 05:02 G	4192090.57	4192090.71	4192090.87	0.0144	0.0083	
Moon	6765-06-30 17:02 G	4192105.96	4192106.21	4192106.47	0.0144	0.0015	
Earth	6765-06-30 20:52 G	4192106.11	4192106.37	4192106.62	0.0144	0.0006	*
Mercury	6765-09-11 12:43 G	4192178.86	4192179.03	4192179.20	0.0144	0.0055	
Mercury	6765-12-08 20:09 G	4192267.16	4192267.34	4192267.52	0.0144	0.0026	
Mercury	6766-03-07 03:35 G	4192355.47	4192355.65	4192355.83	0.0144	0.0002	
Mercury	6766-06-03 11:02 G	4192443.79	4192443.96	4192444.14	0.0144	0.0031	
Earth	6766-07-05 20:52 G	4192476.13	4192476.37	4192476.62	0.0144	0.0035	
Moon	6766-07-06 00:14 G	4192476.28	4192476.51	4192476.76	0.0144	0.0043	*
Mercury	6766-08-30 18:43 G	4192532.11	4192532.28	4192532.45	0.0144	0.0060	
Mercury	6766-11-27 02:09 G	4192620.45	4192620.59	4192620.74	0.0144	0.0089	

Mercury	6767-02-23 09:50 G	4192708.81	4192708.91	4192709.02	0.0144	0.0118
Moon	6767-07-10 17:31 G	4192846.02	4192846.23	4192846.47	0.0144	0.0073
Earth	6767-07-10 20:52 G	4192846.15	4192846.37	4192846.59	0.0144	0.0076 *
Earth	6768-07-14 19:55 G	4193216.20	4193216.33	4193216.50	0.0143	0.0116
Moon	6768-07-14 23:02 G	4193216.32	4193216.46	4193216.61	0.0143	0.0116 *
Venus	6769-03-12 01:40 G	4193456.48	4193456.57	4193456.68	0.0143	0.0126
Venus	6769-10-24 12:28 G	4193682.84	4193683.02	4193683.21	0.0143	0.0075
Venus	6770-06-07 23:31 G	4193909.26	4193909.48	4193909.69	0.0142	0.0024
Venus	6771-01-20 09:50 G	4194135.70	4194135.91	4194136.13	0.0142	0.0027
Venus	6771-09-03 19:55 G	4194362.16	4194362.33	4194362.53	0.0142	0.0078
Venus	6772-04-17 06:14 G	4194588.68	4194588.76	4194588.86	0.0141	0.0128
Jupiter	6790-02-07 10:48 G	4201093.72	4201093.95	4201094.22	0.0134	0.0116
Mars	6800-01-17 03:07 G	4204724.40	4204724.63	4204724.88	0.0133	0.0070
Mars	6801-12-15 18:57 G	4205423.02	4205423.29	4205423.57	0.0133	0.0030
Mars	6803-11-14 13:55 G	4206122.03	4206122.08	4206122.16	0.0133	0.0129
Earth	6805-12-21 12:14 G	4206889.86	4206890.01	4206890.18	0.0133	0.0104
Moon	6805-12-21 14:09 G	4206889.95	4206890.09	4206890.26	0.0133	0.0103 *
Moon	6806-12-25 18:00 G	4207259.04	4207259.25	4207259.49	0.0134	0.0069
Earth	6806-12-25 19:55 G	4207259.12	4207259.33	4207259.55	0.0134	0.0072 *
Earth	6807-12-30 03:36 G	4207628.41	4207628.65	4207628.90	0.0134	0.0039
Moon	6807-12-30 05:31 G	4207628.51	4207628.73	4207628.97	0.0134	0.0045 *
Mercury	6808-03-24 01:40 G	4207713.51	4207713.57	4207713.65	0.0134	0.0117
Mercury	6808-06-20 05:16 G	4207801.63	4207801.72	4207801.81	0.0134	0.0099
Mercury	6808-09-16 08:38 G	4207889.75	4207889.86	4207889.97	0.0134	0.0082
Mercury	6808-12-13 12:00 G	4207977.88	4207978.00	4207978.12	0.0134	0.0064
Moon	6809-01-02 09:50 G	4207997.65	4207997.91	4207998.18	0.0134	0.0002
Earth	6809-01-02 11:31 G	4207997.73	4207997.98	4207998.24	0.0134	0.0006 *
Mercury	6809-03-11 15:21 G	4208066.01	4208066.14	4208066.27	0.0134	0.0047
Mercury	6809-06-07 18:43 G	4208154.15	4208154.28	4208154.42	0.0134	0.0030
Mercury	6809-09-03 22:04 G	4208242.28	4208242.42	4208242.56	0.0134	0.0012

Mercury	6809-12-01 01:26 G	4208330.42	4208330.56	4208330.70	0.0134	0.0005
Earth	6810-01-06 19:26 G	4208367.07	4208367.31	4208367.56	0.0134	0.0027
Moon	6810-01-06 20:38 G	4208367.13	4208367.36	4208367.61	0.0134	0.0021 *
Mercury	6810-02-27 04:48 G	4208418.56	4208418.70	4208418.83	0.0134	0.0023
Mercury	6810-05-26 07:55 G	4208506.70	4208506.83	4208506.96	0.0135	0.0040
Mercury	6810-08-22 11:16 G	4208594.85	4208594.97	4208595.09	0.0135	0.0057
Mercury	6810-11-18 14:23 G	4208682.99	4208683.10	4208683.22	0.0135	0.0074
Moon	6811-01-11 01:55 G	4208736.36	4208736.58	4208736.82	0.0135	0.0066
Earth	6811-01-11 03:36 G	4208736.43	4208736.65	4208736.89	0.0135	0.0060 *
Mercury	6811-02-14 17:45 G	4208771.14	4208771.24	4208771.34	0.0135	0.0091
Mercury	6811-05-13 20:52 G	4208859.30	4208859.37	4208859.45	0.0135	0.0108
Mercury	6811-08-10 00:00 G	4208947.46	4208947.50	4208947.56	0.0135	0.0125
Earth	6812-01-15 12:14 G	4209105.84	4209106.01	4209106.20	0.0135	0.0093
Moon	6812-01-15 12:57 G	4209105.87	4209106.04	4209106.23	0.0135	0.0091 *
Moon	6813-01-18 19:40 G	4209475.25	4209475.32	4209475.43	0.0135	0.0127
Earth	6813-01-18 20:52 G	4209475.30	4209475.37	4209475.48	0.0135	0.0127 *
Venus	6813-03-07 12:43 G	4209522.97	4209523.03	4209523.14	0.0136	0.0125
Venus	6813-10-19 19:40 G	4209749.16	4209749.32	4209749.50	0.0136	0.0081
Venus	6814-06-03 02:23 G	4209975.40	4209975.60	4209975.82	0.0136	0.0037
Venus	6815-01-15 09:21 G	4210201.67	4210201.89	4210202.11	0.0136	0.0008
Venus	6815-08-29 16:04 G	4210427.98	4210428.17	4210428.38	0.0137	0.0053
Venus	6816-04-11 23:02 G	4210654.32	4210654.46	4210654.62	0.0137	0.0098
Mars	6842-05-20 08:23 G	4220188.54	4220188.85	4220189.18	0.0146	0.0048
Mars	6844-04-27 08:09 G	4220896.67	4220896.84	4220897.07	0.0146	0.0118
Earth	6846-06-17 06:28 G	4221677.66	4221677.77	4221677.91	0.0145	0.0127
Moon	6846-06-17 09:36 G	4221677.79	4221677.90	4221678.06	0.0145	0.0123 *
Moon	6847-06-22 04:33 G	4222047.50	4222047.69	4222047.90	0.0145	0.0085
Earth	6847-06-22 07:40 G	4222047.63	4222047.82	4222048.04	0.0145	0.0085 *
Earth	6848-06-26 08:38 G	4222417.63	4222417.86	4222418.11	0.0145	0.0044
Moon	6848-06-26 12:14 G	4222417.79	4222418.01	4222418.26	0.0145	0.0050 *

Mercury	6849-01-09 22:19 G	4222615.37	4222615.43	4222615.52	0.0145	0.0130
Mercury	6849-04-08 05:45 G	4222703.62	4222703.74	4222703.88	0.0144	0.0102
Moon	6849-07-01 06:00 G	4222787.50	4222787.75	4222788.01	0.0144	0.0006
Earth	6849-07-01 09:36 G	4222787.65	4222787.90	4222788.16	0.0144	0.0003 *
Mercury	6849-07-05 13:11 G	4222791.90	4222792.05	4222792.21	0.0144	0.0073
Mercury	6849-10-01 20:38 G	4222880.19	4222880.36	4222880.54	0.0144	0.0045
Mercury	6849-12-29 04:19 G	4222968.50	4222968.68	4222968.86	0.0144	0.0016
Mercury	6850-03-27 11:45 G	4223056.81	4223056.99	4223057.17	0.0144	0.0012
Mercury	6850-06-23 19:11 G	4223145.13	4223145.30	4223145.48	0.0144	0.0041
Earth	6850-07-06 09:36 G	4223157.67	4223157.90	4223158.16	0.0144	0.0041
Moon	6850-07-06 13:11 G	4223157.81	4223158.05	4223158.30	0.0144	0.0034 *
Mercury	6850-09-20 02:38 G	4223233.46	4223233.61	4223233.78	0.0144	0.0070
Mercury	6850-12-17 10:19 G	4223321.81	4223321.93	4223322.07	0.0144	0.0099
Mercury	6851-03-15 18:00 G	4223410.18	4223410.25	4223410.34	0.0144	0.0128
Moon	6851-07-11 06:00 G	4223527.56	4223527.75	4223527.97	0.0144	0.0086
Earth	6851-07-11 09:50 G	4223527.71	4223527.91	4223528.13	0.0144	0.0081 *
Earth	6852-07-15 09:21 G	4223897.76	4223897.89	4223898.03	0.0143	0.0121
Moon	6852-07-15 12:00 G	4223897.89	4223898.00	4223898.15	0.0143	0.0122 *
Venus	6853-06-23 21:21 G	4224241.24	4224241.39	4224241.56	0.0143	0.0096
Venus	6854-02-05 08:09 G	4224467.64	4224467.84	4224468.06	0.0143	0.0045
Venus	6854-09-19 18:57 G	4224694.07	4224694.29	4224694.51	0.0142	0.0007
Venus	6855-05-04 05:31 G	4224920.54	4224920.73	4224920.94	0.0142	0.0057
Venus	6855-12-16 15:50 G	4225147.03	4225147.16	4225147.31	0.0142	0.0108
Jupiter	6873-01-04 14:52 G	4231375.75	4231376.12	4231376.54	0.0134	0.0084
Mars	6882-10-12 18:28 G	4234944.21	4234944.27	4234944.39	0.0133	0.0126
Mars	6884-09-10 09:50 G	4235642.63	4235642.91	4235643.19	0.0133	0.0027
Mars	6886-08-10 02:38 G	4236341.38	4236341.61	4236341.85	0.0133	0.0072
Moon	6888-12-17 16:19 G	4237202.11	4237202.18	4237202.26	0.0133	0.0126
Earth	6888-12-17 18:28 G	4237202.26	4237202.27	4237202.34	0.0133	0.0132 *
Earth	6889-12-22 02:09 G	4237571.44	4237571.59	4237571.78	0.0133	0.0100

Moon	6889-12-22 04:19 G	4237571.53	4237571.68	4237571.86	0.0133	0.0100 *
Moon	6890-12-26 07:11 G	4237940.59	4237940.80	4237941.04	0.0134	0.0069
Earth	6890-12-26 10:04 G	4237940.70	4237940.92	4237941.14	0.0134	0.0067 *
Earth	6891-12-30 17:31 G	4238309.99	4238310.23	4238310.48	0.0134	0.0035
Moon	6891-12-30 19:26 G	4238310.08	4238310.31	4238310.56	0.0134	0.0030 *
Mercury	6892-01-16 06:14 G	4238326.72	4238326.76	4238326.81	0.0134	0.0127
Mercury	6892-04-13 09:50 G	4238414.83	4238414.91	4238414.98	0.0134	0.0109
Mercury	6892-07-10 12:57 G	4238502.95	4238503.04	4238503.15	0.0134	0.0092
Mercury	6892-10-06 16:33 G	4238591.07	4238591.19	4238591.30	0.0134	0.0074
Mercury	6893-01-02 19:55 G	4238679.20	4238679.33	4238679.45	0.0134	0.0057
Moon	6893-01-02 23:16 G	4238679.21	4238679.47	4238679.73	0.0134	0.0008 *
Earth	6893-01-03 01:26 G	4238679.31	4238679.56	4238679.82	0.0134	0.0002 *
Mercury	6893-03-31 23:02 G	4238767.34	4238767.46	4238767.60	0.0134	0.0041
Mercury	6893-06-28 02:38 G	4238855.47	4238855.61	4238855.74	0.0134	0.0023
Mercury	6893-09-24 06:00 G	4238943.61	4238943.75	4238943.88	0.0134	0.0006
Mercury	6893-12-21 09:07 G	4239031.75	4239031.88	4239032.02	0.0134	0.0013
Earth	6894-01-07 09:21 G	4239048.64	4239048.89	4239049.14	0.0134	0.0032
Moon	6894-01-07 11:16 G	4239048.74	4239048.97	4239049.21	0.0134	0.0038 *
Mercury	6894-03-19 12:28 G	4239119.89	4239120.02	4239120.16	0.0134	0.0029
Mercury	6894-06-15 15:50 G	4239208.03	4239208.16	4239208.29	0.0135	0.0047
Mercury	6894-09-11 18:57 G	4239296.18	4239296.29	4239296.41	0.0135	0.0064
Mercury	6894-12-08 22:19 G	4239384.32	4239384.43	4239384.54	0.0135	0.0081
Moon	6895-01-11 15:50 G	4239417.94	4239418.16	4239418.41	0.0135	0.0060
Earth	6895-01-11 17:31 G	4239418.02	4239418.23	4239418.46	0.0135	0.0065 *
Mercury	6895-03-07 01:26 G	4239472.47	4239472.56	4239472.66	0.0135	0.0098
Mercury	6895-06-03 04:33 G	4239560.63	4239560.69	4239560.77	0.0135	0.0115
Mercury	6895-08-30 07:55 G	4239648.81	4239648.83	4239648.86	0.0135	0.0132
Earth	6896-01-16 01:55 G	4239787.43	4239787.58	4239787.77	0.0135	0.0098
Moon	6896-01-16 04:04 G	4239787.52	4239787.67	4239787.84	0.0135	0.0102 *
Moon	6897-01-19 09:36 G	4240156.85	4240156.90	4240156.98	0.0135	0.0131

Earth	6897-01-19 10:48 G	4240156.91	4240156.95	4240157.03	0.0135	0.0131	*
Venus	6897-06-19 07:11 G	4240307.66	4240307.80	4240307.96	0.0136	0.0098	
Venus	6898-01-31 13:55 G	4240533.88	4240534.08	4240534.28	0.0136	0.0054	
Venus	6898-09-14 20:38 G	4240760.15	4240760.36	4240760.58	0.0136	0.0010	
Venus	6899-04-29 03:21 G	4240986.44	4240986.64	4240986.86	0.0136	0.0036	
Venus	6899-12-11 10:48 G	4241212.77	4241212.95	4241213.12	0.0137	0.0080	
Venus	6900-07-25 17:31 G	4241439.16	4241439.23	4241439.33	0.0137	0.0125	
Mars	6927-01-16 12:28 G	4251109.69	4251110.02	4251110.36	0.0146	0.0020	
Earth	6930-06-18 20:23 G	4252359.23	4252359.35	4252359.50	0.0145	0.0122	
Moon	6930-06-18 23:16 G	4252359.34	4252359.47	4252359.60	0.0145	0.0125	*
Moon	6931-06-23 18:28 G	4252729.07	4252729.27	4252729.48	0.0145	0.0081	
Earth	6931-06-23 21:36 G	4252729.20	4252729.40	4252729.62	0.0145	0.0080	*
Earth	6932-06-27 22:48 G	4253099.20	4253099.45	4253099.69	0.0145	0.0038	
Moon	6932-06-28 01:55 G	4253099.33	4253099.58	4253099.83	0.0145	0.0034	*
Mercury	6933-01-31 06:57 G	4253316.69	4253316.79	4253316.89	0.0145	0.0119	
Mercury	6933-04-29 14:09 G	4253404.96	4253405.09	4253405.24	0.0144	0.0091	
Moon	6933-07-02 19:40 G	4253469.07	4253469.32	4253469.58	0.0144	0.0005	
Earth	6933-07-02 23:31 G	4253469.22	4253469.48	4253469.73	0.0144	0.0004	*
Mercury	6933-07-26 21:36 G	4253493.24	4253493.40	4253493.57	0.0144	0.0063	
Mercury	6933-10-23 05:02 G	4253581.54	4253581.71	4253581.89	0.0144	0.0034	
Mercury	6934-01-19 12:28 G	4253669.84	4253670.02	4253670.21	0.0144	0.0007	
Mercury	6934-04-17 19:55 G	4253758.16	4253758.33	4253758.52	0.0144	0.0024	
Earth	6934-07-07 23:31 G	4253839.24	4253839.48	4253839.73	0.0144	0.0045	
Moon	6934-07-08 03:07 G	4253839.41	4253839.63	4253839.88	0.0144	0.0053	*
Mercury	6934-07-15 03:21 G	4253846.48	4253846.64	4253846.82	0.0144	0.0052	
Mercury	6934-10-11 11:02 G	4253934.82	4253934.96	4253935.12	0.0144	0.0081	
Mercury	6935-01-07 18:28 G	4254023.17	4254023.27	4254023.40	0.0144	0.0110	
Mercury	6935-04-06 02:09 G	4254111.56	4254111.59	4254111.65	0.0144	0.0139	
Moon	6935-07-12 20:09 G	4254209.13	4254209.34	4254209.55	0.0144	0.0082	
Earth	6935-07-12 23:16 G	4254209.28	4254209.47	4254209.69	0.0144	0.0087	*

Earth	6936-07-16 22:48 G	4254579.35	4254579.45	4254579.59	0.0143	0.0127
Moon	6936-07-17 02:23 G	4254579.50	4254579.60	4254579.73	0.0143	0.0127 *
Venus	6937-02-22 06:28 G	4254799.65	4254799.77	4254799.90	0.0143	0.0117
Venus	6937-10-06 17:16 G	4255026.04	4255026.22	4255026.42	0.0143	0.0066
Venus	6938-05-21 04:19 G	4255252.47	4255252.68	4255252.90	0.0142	0.0015
Venus	6939-01-02 14:52 G	4255478.92	4255479.12	4255479.34	0.0142	0.0038
Venus	6939-08-17 01:11 G	4255705.40	4255705.55	4255705.74	0.0142	0.0088
Venus	6940-03-30 11:31 G	4255931.95	4255931.98	4255932.05	0.0142	0.0138
Mars	6967-06-08 00:28 G	4265862.32	4265862.52	4265862.75	0.0133	0.0084
Mars	6969-05-06 16:33 G	4266560.91	4266561.19	4266561.47	0.0133	0.0015
Mars	6971-04-05 09:21 G	4267259.77	4267259.89	4267260.05	0.0133	0.0114
Moon	6972-12-19 06:28 G	4267883.72	4267883.77	4267883.83	0.0133	0.0129
Earth	6972-12-19 08:52 G	4267883.81	4267883.87	4267883.97	0.0133	0.0127 *
Earth	6973-12-23 16:19 G	4268253.01	4268253.18	4268253.37	0.0133	0.0094
Moon	6973-12-23 19:11 G	4268253.14	4268253.30	4268253.49	0.0133	0.0093 *
Moon	6974-12-27 21:21 G	4268622.17	4268622.39	4268622.63	0.0133	0.0060
Earth	6974-12-27 23:45 G	4268622.28	4268622.49	4268622.73	0.0133	0.0062 *
Earth	6976-01-01 07:26 G	4268991.57	4268991.81	4268992.06	0.0134	0.0029
Moon	6976-01-01 10:04 G	4268991.69	4268991.92	4268992.17	0.0134	0.0035 *
Mercury	6976-02-06 13:55 G	4269028.03	4269028.08	4269028.15	0.0134	0.0120
Mercury	6976-05-04 17:31 G	4269116.14	4269116.23	4269116.32	0.0134	0.0102
Mercury	6976-07-31 20:52 G	4269204.27	4269204.37	4269204.48	0.0134	0.0085
Mercury	6976-10-28 00:14 G	4269292.39	4269292.51	4269292.63	0.0134	0.0067
Moon	6977-01-04 12:28 G	4269360.77	4269361.02	4269361.29	0.0134	0.0010
Earth	6977-01-04 15:07 G	4269360.88	4269361.13	4269361.39	0.0134	0.0004 *
Mercury	6977-01-24 03:36 G	4269380.52	4269380.65	4269380.78	0.0134	0.0050
Mercury	6977-04-22 06:57 G	4269468.66	4269468.79	4269468.93	0.0134	0.0033
Mercury	6977-07-19 10:19 G	4269556.79	4269556.93	4269557.07	0.0134	0.0016
Mercury	6977-10-15 13:40 G	4269644.93	4269645.07	4269645.21	0.0134	0.0002
Earth	6978-01-08 23:02 G	4269730.22	4269730.46	4269730.71	0.0134	0.0037

Moon	6978-01-09 01:11 G	4269730.31	4269730.55	4269730.79	0.0134	0.0030	*
Mercury	6978-01-11 17:02 G	4269733.07	4269733.21	4269733.34	0.0134	0.0019	
Mercury	6978-04-09 20:09 G	4269821.21	4269821.34	4269821.48	0.0134	0.0036	
Mercury	6978-07-06 23:31 G	4269909.36	4269909.48	4269909.61	0.0134	0.0053	
Mercury	6978-10-03 02:38 G	4269997.50	4269997.61	4269997.73	0.0135	0.0071	
Mercury	6978-12-30 06:00 G	4270085.65	4270085.75	4270085.86	0.0135	0.0088	
Moon	6979-01-13 04:48 G	4270099.49	4270099.70	4270099.92	0.0135	0.0076	
Earth	6979-01-13 07:11 G	4270099.59	4270099.80	4270100.03	0.0135	0.0070	*
Mercury	6979-03-28 09:07 G	4270173.81	4270173.88	4270173.97	0.0135	0.0105	
Mercury	6979-06-24 12:14 G	4270261.97	4270262.01	4270262.08	0.0135	0.0122	
Earth	6980-01-17 15:36 G	4270469.00	4270469.15	4270469.32	0.0135	0.0103	
Moon	6980-01-17 17:31 G	4270469.07	4270469.23	4270469.40	0.0135	0.0100	*
Venus	6981-02-17 18:28 G	4270866.17	4270866.27	4270866.40	0.0135	0.0115	
Venus	6981-10-02 01:11 G	4271092.37	4271092.55	4271092.74	0.0136	0.0071	
Venus	6982-05-16 07:55 G	4271318.62	4271318.83	4271319.04	0.0136	0.0027	
Venus	6982-12-28 14:38 G	4271544.90	4271545.11	4271545.33	0.0136	0.0018	
Venus	6983-08-11 21:21 G	4271771.21	4271771.39	4271771.59	0.0136	0.0062	
Venus	6984-03-25 04:33 G	4271997.56	4271997.69	4271997.83	0.0137	0.0107	

8TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 8th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars			7009-10-06 06:14 G	4281322.50	4281322.76	4281323.06	0.0146	0.0082

Mars	7011-09-14 08:23 G	4282030.59	4282030.85	4282031.14	0.0146	0.0084
Earth	7014-06-20 07:26 G	4283040.67	4283040.81	4283040.96	0.0145	0.0118
Moon	7014-06-20 09:36 G	4283040.76	4283040.90	4283041.08	0.0145	0.0114 *
Moon	7015-06-25 06:00 G	4283410.55	4283410.75	4283410.97	0.0145	0.0077
Earth	7015-06-25 08:23 G	4283410.65	4283410.85	4283411.08	0.0145	0.0076 *
Earth	7016-06-29 09:21 G	4283780.66	4283780.89	4283781.15	0.0145	0.0034
Moon	7016-06-29 12:57 G	4283780.80	4283781.04	4283781.29	0.0145	0.0039 *
Mercury	7016-11-25 07:11 G	4283929.76	4283929.80	4283929.85	0.0145	0.0139
Mercury	7017-02-21 14:09 G	4284017.99	4284018.09	4284018.22	0.0145	0.0112
Mercury	7017-05-20 21:36 G	4284106.26	4284106.40	4284106.56	0.0145	0.0084
Moon	7017-07-04 07:11 G	4284150.55	4284150.80	4284151.05	0.0145	0.0015
Earth	7017-07-04 10:33 G	4284150.68	4284150.94	4284151.19	0.0145	0.0008 *
Mercury	7017-08-17 05:02 G	4284194.55	4284194.71	4284194.89	0.0144	0.0055
Mercury	7017-11-13 12:43 G	4284282.85	4284283.03	4284283.21	0.0144	0.0027
Mercury	7018-02-09 20:09 G	4284371.16	4284371.34	4284371.52	0.0144	0.0002
Mercury	7018-05-09 03:36 G	4284459.47	4284459.65	4284459.83	0.0144	0.0031
Earth	7018-07-09 10:33 G	4284520.71	4284520.94	4284521.18	0.0144	0.0050
Moon	7018-07-09 14:09 G	4284520.85	4284521.09	4284521.34	0.0144	0.0043 *
Mercury	7018-08-05 11:16 G	4284547.80	4284547.97	4284548.13	0.0144	0.0059
Mercury	7018-11-01 18:43 G	4284636.14	4284636.28	4284636.43	0.0144	0.0088
Mercury	7019-01-29 02:23 G	4284724.50	4284724.60	4284724.71	0.0144	0.0117
Moon	7019-07-14 06:43 G	4284890.61	4284890.78	4284890.99	0.0144	0.0097
Earth	7019-07-14 10:48 G	4284890.76	4284890.95	4284891.15	0.0144	0.0091 *
Earth	7020-07-18 10:04 G	4285260.84	4285260.92	4285261.05	0.0143	0.0132
Moon	7020-07-18 13:40 G	4285260.98	4285261.07	4285261.19	0.0143	0.0131 *
Venus	7020-10-23 13:55 G	4285358.05	4285358.08	4285358.13	0.0143	0.0141
Venus	7021-06-07 01:26 G	4285584.39	4285584.56	4285584.73	0.0143	0.0088
Venus	7022-01-19 12:14 G	4285810.80	4285811.01	4285811.23	0.0143	0.0037
Venus	7022-09-02 23:02 G	4286037.25	4286037.46	4286037.68	0.0142	0.0015
Venus	7023-04-17 09:50 G	4286263.72	4286263.91	4286264.10	0.0142	0.0066

Venus	7023-11-29 20:09 G	4286490.22	4286490.34	4286490.47	0.0142	0.0116
Mars	7052-02-01 07:26 G	4296780.54	4296780.81	4296781.07	0.0133	0.0042
Mars	7053-12-30 23:31 G	4297479.24	4297479.48	4297479.75	0.0133	0.0057
Moon	7056-12-20 19:40 G	4298565.22	4298565.32	4298565.47	0.0133	0.0117
Earth	7056-12-20 23:02 G	4298565.38	4298565.46	4298565.59	0.0133	0.0121 *
Earth	7057-12-25 06:14 G	4298934.59	4298934.76	4298934.97	0.0133	0.0090
Moon	7057-12-25 09:21 G	4298934.72	4298934.89	4298935.09	0.0133	0.0090 *
Moon	7058-12-29 10:48 G	4299303.72	4299303.95	4299304.19	0.0133	0.0058
Earth	7058-12-29 14:09 G	4299303.86	4299304.09	4299304.32	0.0133	0.0057 *
Mercury	7059-12-01 18:28 G	4299641.25	4299641.27	4299641.30	0.0134	0.0130
Earth	7060-01-02 21:36 G	4299673.15	4299673.40	4299673.65	0.0134	0.0024
Moon	7060-01-03 00:14 G	4299673.27	4299673.51	4299673.76	0.0134	0.0020 *
Mercury	7060-02-27 21:50 G	4299729.34	4299729.41	4299729.49	0.0134	0.0113
Mercury	7060-05-26 01:26 G	4299817.46	4299817.56	4299817.66	0.0134	0.0095
Mercury	7060-08-22 04:33 G	4299905.59	4299905.69	4299905.81	0.0134	0.0078
Mercury	7060-11-18 08:09 G	4299993.72	4299993.84	4299993.96	0.0134	0.0060
Moon	7061-01-06 02:23 G	4300042.34	4300042.60	4300042.86	0.0134	0.0002
Earth	7061-01-06 05:16 G	4300042.47	4300042.72	4300042.98	0.0134	0.0009 *
Mercury	7061-02-14 11:31 G	4300081.85	4300081.98	4300082.11	0.0134	0.0043
Mercury	7061-05-13 14:52 G	4300169.98	4300170.12	4300170.26	0.0134	0.0026
Mercury	7061-08-09 18:14 G	4300258.12	4300258.26	4300258.40	0.0134	0.0008
Mercury	7061-11-05 21:36 G	4300346.26	4300346.40	4300346.53	0.0134	0.0009
Earth	7062-01-10 12:57 G	4300411.81	4300412.04	4300412.29	0.0134	0.0043
Moon	7062-01-10 15:50 G	4300411.94	4300412.16	4300412.40	0.0134	0.0049 *
Mercury	7062-02-02 00:43 G	4300434.40	4300434.53	4300434.67	0.0134	0.0027
Mercury	7062-05-01 04:04 G	4300522.54	4300522.67	4300522.80	0.0134	0.0043
Mercury	7062-07-28 07:11 G	4300610.69	4300610.80	4300610.93	0.0134	0.0061
Mercury	7062-10-24 10:33 G	4300698.83	4300698.94	4300699.06	0.0134	0.0078
Moon	7063-01-14 18:43 G	4300781.07	4300781.28	4300781.52	0.0135	0.0070
Earth	7063-01-14 21:21 G	4300781.19	4300781.39	4300781.61	0.0135	0.0076 *

Mercury	7063-01-20 13:40 G	4300786.99	4300787.07	4300787.18	0.0135	0.0095
Mercury	7063-04-18 17:02 G	4300875.14	4300875.21	4300875.29	0.0135	0.0112
Mercury	7063-07-15 20:09 G	4300963.31	4300963.34	4300963.39	0.0135	0.0129
Earth	7064-01-19 05:45 G	4301150.61	4301150.74	4301150.91	0.0135	0.0109
Moon	7064-01-19 08:52 G	4301150.74	4301150.87	4301151.00	0.0135	0.0113 *
Venus	7064-10-19 06:14 G	4301424.73	4301424.76	4301424.83	0.0135	0.0131
Venus	7065-06-02 12:57 G	4301650.88	4301651.04	4301651.21	0.0135	0.0088
Venus	7066-01-14 19:40 G	4301877.11	4301877.32	4301877.52	0.0136	0.0044
Venus	7066-08-29 02:09 G	4302103.38	4302103.59	4302103.81	0.0136	0.0002
Venus	7067-04-12 08:52 G	4302329.67	4302329.87	4302330.08	0.0136	0.0045
Venus	7067-11-24 15:50 G	4302556.01	4302556.16	4302556.33	0.0136	0.0089
Venus	7068-07-07 22:48 G	4302782.42	4302782.45	4302782.51	0.0137	0.0134
Mars	7094-06-03 08:52 G	4312243.54	4312243.87	4312244.22	0.0146	0.0016
Earth	7098-06-20 19:55 G	4313722.19	4313722.33	4313722.51	0.0145	0.0113
Moon	7098-06-20 21:36 G	4313722.26	4313722.40	4313722.57	0.0145	0.0117 *
Moon	7099-06-25 18:28 G	4314092.07	4314092.27	4314092.50	0.0145	0.0072
Earth	7099-06-25 21:21 G	4314092.17	4314092.39	4314092.62	0.0145	0.0070 *
Earth	7100-06-30 22:19 G	4314462.18	4314462.43	4314462.68	0.0145	0.0028
Moon	7100-07-01 00:57 G	4314462.29	4314462.54	4314462.80	0.0145	0.0025 *
Mercury	7100-12-16 14:52 G	4314631.06	4314631.12	4314631.21	0.0145	0.0131
Mercury	7101-03-14 22:19 G	4314719.31	4314719.43	4314719.56	0.0145	0.0103
Mercury	7101-06-11 05:31 G	4314807.59	4314807.73	4314807.90	0.0145	0.0075
Moon	7101-07-05 19:40 G	4314832.07	4314832.32	4314832.57	0.0145	0.0007
Earth	7101-07-05 23:02 G	4314832.21	4314832.46	4314832.71	0.0145	0.0014 *
Mercury	7101-09-07 13:11 G	4314895.88	4314896.05	4314896.22	0.0144	0.0046
Mercury	7101-12-04 20:38 G	4314984.18	4314984.36	4314984.54	0.0144	0.0018
Mercury	7102-03-03 04:04 G	4315072.49	4315072.67	4315072.85	0.0144	0.0011
Mercury	7102-05-30 11:31 G	4315160.81	4315160.98	4315161.16	0.0144	0.0040
Earth	7102-07-10 23:16 G	4315202.24	4315202.47	4315202.71	0.0144	0.0055
Moon	7102-07-11 02:38 G	4315202.39	4315202.61	4315202.85	0.0144	0.0064 *

Mercury	7102-08-26 18:57 G	4315249.14	4315249.29	4315249.46	0.0144	0.0069
Mercury	7102-11-23 02:23 G	4315337.48	4315337.60	4315337.75	0.0144	0.0099
Mercury	7103-02-19 10:04 G	4315425.85	4315425.92	4315426.02	0.0144	0.0127
Moon	7103-07-15 19:40 G	4315572.14	4315572.32	4315572.53	0.0144	0.0092
Earth	7103-07-15 23:16 G	4315572.30	4315572.47	4315572.67	0.0144	0.0097 *
Earth	7104-07-19 23:02 G	4315942.40	4315942.46	4315942.55	0.0143	0.0137
Moon	7104-07-20 02:52 G	4315942.57	4315942.62	4315942.70	0.0143	0.0138
Venus	7105-02-05 09:21 G	4316142.77	4316142.89	4316143.04	0.0143	0.0111
Venus	7105-09-19 20:38 G	4316369.17	4316369.36	4316369.57	0.0143	0.0059
Venus	7106-05-04 07:55 G	4316595.61	4316595.83	4316596.05	0.0143	0.0007
Venus	7106-12-16 18:28 G	4316822.07	4316822.27	4316822.48	0.0142	0.0044
Venus	7107-07-31 04:48 G	4317048.56	4317048.70	4317048.88	0.0142	0.0095
Mars	7134-10-28 22:48 G	4327000.27	4327000.45	4327000.65	0.0133	0.0098
Mars	7136-09-26 15:07 G	4327698.85	4327699.13	4327699.41	0.0133	0.0001
Mars	7138-08-26 06:00 G	4328397.57	4328397.75	4328397.95	0.0133	0.0098
Moon	7140-12-22 10:04 G	4329246.83	4329246.92	4329247.05	0.0133	0.0120
Earth	7140-12-22 13:26 G	4329246.96	4329247.06	4329247.20	0.0133	0.0116 *
Earth	7141-12-26 20:38 G	4329616.18	4329616.36	4329616.58	0.0133	0.0084
Moon	7141-12-27 00:28 G	4329616.32	4329616.52	4329616.72	0.0133	0.0082 *
Moon	7142-12-31 01:11 G	4329985.32	4329985.55	4329985.80	0.0133	0.0050
Earth	7142-12-31 04:19 G	4329985.45	4329985.68	4329985.92	0.0133	0.0052 *
Mercury	7143-12-23 02:23 G	4330342.55	4330342.60	4330342.66	0.0134	0.0123
Earth	7144-01-04 11:45 G	4330354.74	4330354.99	4330355.25	0.0134	0.0019
Moon	7144-01-04 15:21 G	4330354.89	4330355.14	4330355.38	0.0134	0.0023 *
Mercury	7144-03-20 06:00 G	4330430.66	4330430.75	4330430.83	0.0134	0.0105
Mercury	7144-06-16 09:07 G	4330518.78	4330518.88	4330518.99	0.0134	0.0088
Mercury	7144-09-12 12:43 G	4330606.91	4330607.03	4330607.15	0.0134	0.0070
Mercury	7144-12-09 16:04 G	4330695.04	4330695.17	4330695.30	0.0134	0.0053
Moon	7145-01-07 16:33 G	4330723.93	4330724.19	4330724.44	0.0134	0.0020
Earth	7145-01-07 19:26 G	4330724.07	4330724.31	4330724.57	0.0134	0.0015 *

Mercury	7145-03-07 19:26 G	4330783.18	4330783.31	4330783.44	0.0134	0.0036
Mercury	7145-06-03 22:48 G	4330871.31	4330871.45	4330871.59	0.0134	0.0018
Mercury	7145-08-31 02:09 G	4330959.45	4330959.59	4330959.72	0.0134	0.0003
Mercury	7145-11-27 05:16 G	4331047.59	4331047.72	4331047.86	0.0134	0.0017
Earth	7146-01-12 03:21 G	4331093.41	4331093.64	4331093.89	0.0134	0.0048
Moon	7146-01-12 06:28 G	4331093.54	4331093.77	4331094.01	0.0134	0.0041 *
Mercury	7146-02-23 08:38 G	4331135.73	4331135.86	4331136.00	0.0134	0.0033
Mercury	7146-05-22 12:00 G	4331223.87	4331224.00	4331224.13	0.0134	0.0050
Mercury	7146-08-18 15:07 G	4331312.02	4331312.13	4331312.25	0.0134	0.0068
Mercury	7146-11-14 18:28 G	4331400.17	4331400.27	4331400.38	0.0134	0.0085
Moon	7147-01-16 08:23 G	4331462.67	4331462.85	4331463.06	0.0135	0.0088
Earth	7147-01-16 12:00 G	4331462.80	4331463.00	4331463.20	0.0135	0.0081 *
Mercury	7147-02-10 21:36 G	4331488.32	4331488.40	4331488.50	0.0135	0.0102
Mercury	7147-05-10 00:57 G	4331576.48	4331576.54	4331576.61	0.0135	0.0119
Earth	7148-01-20 20:23 G	4331832.22	4331832.35	4331832.49	0.0135	0.0114
Moon	7148-01-20 22:48 G	4331832.32	4331832.45	4331832.60	0.0135	0.0111 *
Venus	7149-02-01 00:43 G	4332209.40	4332209.53	4332209.67	0.0135	0.0105
Venus	7149-09-15 06:57 G	4332435.61	4332435.79	4332436.00	0.0135	0.0062
Venus	7150-04-29 13:40 G	4332661.86	4332662.07	4332662.29	0.0136	0.0018
Venus	7150-12-11 20:38 G	4332888.15	4332888.36	4332888.57	0.0136	0.0027
Venus	7151-07-26 03:21 G	4333114.46	4333114.64	4333114.83	0.0136	0.0071
Venus	7152-03-08 10:19 G	4333340.82	4333340.93	4333341.04	0.0137	0.0116
Mars	7177-02-21 04:19 G	4342456.49	4342456.68	4342456.90	0.0146	0.0115
Mars	7179-01-30 07:11 G	4343164.49	4343164.80	4343165.12	0.0146	0.0049
Earth	7182-06-22 06:57 G	4344403.64	4344403.79	4344403.98	0.0145	0.0109
Moon	7182-06-22 08:52 G	4344403.69	4344403.87	4344404.05	0.0145	0.0103 *
Moon	7183-06-27 06:57 G	4344773.58	4344773.79	4344774.01	0.0145	0.0068
Earth	7183-06-27 08:09 G	4344773.63	4344773.84	4344774.08	0.0145	0.0066 *
Earth	7184-07-01 09:07 G	4345143.64	4345143.88	4345144.14	0.0145	0.0024
Moon	7184-07-01 12:00 G	4345143.75	4345144.00	4345144.26	0.0145	0.0028 *

Mercury	7185-01-05 22:33 G	4345332.36	4345332.44	4345332.54	0.0145	0.0123
Mercury	7185-04-04 06:00 G	4345420.62	4345420.75	4345420.89	0.0145	0.0095
Mercury	7185-07-01 13:11 G	4345508.90	4345509.05	4345509.22	0.0145	0.0067
Moon	7185-07-06 07:11 G	4345513.56	4345513.80	4345514.05	0.0145	0.0026
Earth	7185-07-06 10:04 G	4345513.67	4345513.92	4345514.17	0.0145	0.0019 *
Mercury	7185-09-27 20:38 G	4345597.19	4345597.36	4345597.54	0.0144	0.0039
Mercury	7185-12-25 04:04 G	4345685.49	4345685.67	4345685.86	0.0144	0.0010
Mercury	7186-03-23 11:31 G	4345773.80	4345773.98	4345774.17	0.0144	0.0019
Mercury	7186-06-19 19:11 G	4345862.13	4345862.30	4345862.47	0.0144	0.0047
Earth	7186-07-11 10:19 G	4345883.70	4345883.93	4345884.16	0.0144	0.0061
Moon	7186-07-11 13:26 G	4345883.83	4345884.06	4345884.31	0.0144	0.0054 *
Mercury	7186-09-16 02:38 G	4345950.46	4345950.61	4345950.77	0.0144	0.0076
Mercury	7186-12-13 10:19 G	4346038.81	4346038.93	4346039.06	0.0144	0.0105
Mercury	7187-03-11 18:00 G	4346127.19	4346127.25	4346127.32	0.0144	0.0134
Moon	7187-07-16 06:57 G	4346253.63	4346253.79	4346253.96	0.0144	0.0108
Earth	7187-07-16 10:19 G	4346253.77	4346253.93	4346254.13	0.0144	0.0102 *
Earth	7188-07-20 10:19 G	4346623.91	4346623.93	4346623.98	0.0143	0.0142
Moon	7188-07-20 13:40 G	4346624.04	4346624.07	4346624.14	0.0143	0.0141
Venus	7188-10-05 16:48 G	4346701.14	4346701.20	4346701.29	0.0143	0.0135
Venus	7189-05-20 04:19 G	4346927.51	4346927.68	4346927.86	0.0143	0.0083
Venus	7190-01-01 15:21 G	4347153.93	4347154.14	4347154.36	0.0143	0.0031
Venus	7190-08-16 02:23 G	4347380.38	4347380.60	4347380.81	0.0143	0.0021
Venus	7191-03-30 12:43 G	4347606.85	4347607.03	4347607.23	0.0142	0.0072
Venus	7191-11-11 23:31 G	4347833.38	4347833.48	4347833.59	0.0142	0.0122
Mars	7219-06-23 05:31 G	4357918.48	4357918.73	4357918.99	0.0133	0.0056
Mars	7221-05-21 20:09 G	4358617.08	4358617.34	4358617.62	0.0133	0.0042
Moon	7224-12-23 00:00 G	4359928.37	4359928.50	4359928.68	0.0133	0.0106
Earth	7224-12-23 03:50 G	4359928.53	4359928.66	4359928.81	0.0133	0.0111 *
Earth	7225-12-27 11:16 G	4360297.77	4360297.97	4360298.18	0.0133	0.0079
Moon	7225-12-27 14:38 G	4360297.91	4360298.11	4360298.32	0.0133	0.0080 *

Moon	7226-12-31 15:07 G	4360666.89	4360667.13	4360667.37	0.0134	0.0047
Earth	7226-12-31 18:28 G	4360667.05	4360667.27	4360667.52	0.0134	0.0047 *
Mercury	7227-10-16 06:43 G	4360955.78	4360955.78	4360955.80	0.0134	0.0133
Earth	7228-01-05 02:09 G	4361036.34	4361036.59	4361036.84	0.0134	0.0013
Moon	7228-01-05 05:31 G	4361036.48	4361036.73	4361036.98	0.0134	0.0009 *
Mercury	7228-01-12 10:04 G	4361043.87	4361043.92	4361044.00	0.0134	0.0116
Mercury	7228-04-09 13:40 G	4361131.98	4361132.07	4361132.17	0.0134	0.0098
Mercury	7228-07-06 17:02 G	4361220.11	4361220.21	4361220.33	0.0134	0.0081
Mercury	7228-10-02 20:38 G	4361308.24	4361308.36	4361308.48	0.0134	0.0063
Mercury	7228-12-30 00:00 G	4361396.37	4361396.50	4361396.63	0.0134	0.0046
Moon	7229-01-08 06:28 G	4361405.52	4361405.77	4361406.03	0.0134	0.0013
Earth	7229-01-08 10:04 G	4361405.67	4361405.92	4361406.17	0.0134	0.0020 *
Mercury	7229-03-28 03:21 G	4361484.51	4361484.64	4361484.77	0.0134	0.0028
Mercury	7229-06-24 06:43 G	4361572.64	4361572.78	4361572.92	0.0134	0.0011
Mercury	7229-09-20 10:04 G	4361660.78	4361660.92	4361661.06	0.0134	0.0007
Mercury	7229-12-17 13:11 G	4361748.92	4361749.05	4361749.19	0.0134	0.0024
Earth	7230-01-12 18:00 G	4361775.02	4361775.25	4361775.49	0.0134	0.0053
Moon	7230-01-12 21:07 G	4361775.17	4361775.38	4361775.62	0.0134	0.0061 *
Mercury	7230-03-15 16:33 G	4361837.06	4361837.19	4361837.32	0.0134	0.0041
Mercury	7230-06-11 19:55 G	4361925.21	4361925.33	4361925.45	0.0134	0.0058
Mercury	7230-09-07 23:02 G	4362013.36	4362013.46	4362013.58	0.0134	0.0075
Mercury	7230-12-05 02:23 G	4362101.51	4362101.60	4362101.70	0.0135	0.0092
Moon	7231-01-16 23:02 G	4362144.27	4362144.46	4362144.68	0.0135	0.0081
Earth	7231-01-17 02:23 G	4362144.41	4362144.60	4362144.80	0.0135	0.0087 *
Mercury	7231-03-03 05:45 G	4362189.66	4362189.74	4362189.82	0.0135	0.0109
Mercury	7231-05-30 08:52 G	4362277.83	4362277.87	4362277.92	0.0135	0.0126
Earth	7232-01-21 10:48 G	4362513.85	4362513.95	4362514.08	0.0135	0.0120
Moon	7232-01-21 14:23 G	4362514.01	4362514.10	4362514.19	0.0135	0.0125 *
Venus	7232-10-01 12:43 G	4362767.94	4362768.03	4362768.13	0.0135	0.0121
Venus	7233-05-15 18:57 G	4362994.13	4362994.29	4362994.48	0.0135	0.0079

Venus	7233-12-28 01:40 G	4363220.36	4363220.57	4363220.79	0.0136	0.0035
Venus	7234-08-11 08:23 G	4363446.63	4363446.85	4363447.07	0.0136	0.0010
Venus	7235-03-25 14:52 G	4363672.93	4363673.12	4363673.33	0.0136	0.0054
Venus	7235-11-06 21:36 G	4363899.27	4363899.40	4363899.57	0.0136	0.0099
Mars	7261-10-19 09:50 G	4373377.60	4373377.91	4373378.25	0.0146	0.0047
Mars	7263-09-27 11:31 G	4374085.81	4374085.98	4374086.21	0.0146	0.0117
Moon	7265-06-17 20:23 G	4374715.28	4374715.35	4374715.44	0.0146	0.0138
Earth	7265-06-17 20:23 G	4374715.34	4374715.35	4374715.38	0.0146	0.0145 *
Earth	7266-06-22 21:07 G	4375085.22	4375085.38	4375085.58	0.0145	0.0104
Moon	7266-06-22 21:36 G	4375085.25	4375085.40	4375085.60	0.0145	0.0109 *
Moon	7267-06-27 20:52 G	4375455.15	4375455.37	4375455.60	0.0145	0.0060
Earth	7267-06-27 22:19 G	4375455.21	4375455.43	4375455.67	0.0145	0.0061 *
Earth	7268-07-01 23:31 G	4375825.23	4375825.48	4375825.73	0.0145	0.0018
Moon	7268-07-02 00:57 G	4375825.29	4375825.54	4375825.81	0.0145	0.0016 *
Mercury	7268-10-29 23:45 G	4375945.45	4375945.49	4375945.54	0.0145	0.0140
Mercury	7269-01-26 07:11 G	4376033.69	4376033.80	4376033.91	0.0145	0.0112
Mercury	7269-04-24 14:23 G	4376121.96	4376122.10	4376122.25	0.0145	0.0084
Moon	7269-07-06 21:21 G	4376195.15	4376195.39	4376195.64	0.0145	0.0018
Earth	7269-07-07 00:00 G	4376195.25	4376195.50	4376195.75	0.0145	0.0024 *
Mercury	7269-07-21 21:50 G	4376210.24	4376210.41	4376210.58	0.0145	0.0056
Mercury	7269-10-18 05:16 G	4376298.54	4376298.72	4376298.89	0.0144	0.0028
Mercury	7270-01-14 12:43 G	4376386.84	4376387.03	4376387.21	0.0144	0.0003
Mercury	7270-04-12 20:09 G	4376475.16	4376475.34	4376475.52	0.0144	0.0030
Mercury	7270-07-10 03:36 G	4376563.49	4376563.65	4376563.82	0.0144	0.0058
Earth	7270-07-12 00:14 G	4376565.30	4376565.51	4376565.75	0.0144	0.0066
Moon	7270-07-12 03:07 G	4376565.42	4376565.63	4376565.87	0.0144	0.0074 *
Mercury	7270-10-06 11:02 G	4376651.82	4376651.96	4376652.11	0.0144	0.0088
Mercury	7271-01-02 18:43 G	4376740.18	4376740.28	4376740.39	0.0144	0.0116
Moon	7271-07-16 21:36 G	4376935.23	4376935.40	4376935.58	0.0144	0.0102
Earth	7271-07-17 00:28 G	4376935.37	4376935.52	4376935.71	0.0144	0.0108 *

Venus	7273-01-17 13:11 G	4377485.92	4377486.05	4377486.22	0.0143	0.0104
Venus	7273-09-01 00:28 G	4377712.33	4377712.52	4377712.73	0.0143	0.0052
Venus	7274-04-15 11:45 G	4377938.77	4377938.99	4377939.20	0.0143	0.0003
Venus	7274-11-27 22:19 G	4378165.23	4378165.43	4378165.64	0.0142	0.0051
Venus	7275-07-12 09:07 G	4378391.73	4378391.88	4378392.03	0.0142	0.0102
Mars	7302-03-19 19:26 G	4388138.17	4388138.31	4388138.47	0.0133	0.0111
Mars	7304-02-16 10:33 G	4388836.66	4388836.94	4388837.22	0.0133	0.0014
Mars	7306-01-15 01:40 G	4389535.36	4389535.57	4389535.80	0.0133	0.0084
Moon	7307-12-21 13:55 G	4390241.07	4390241.08	4390241.12	0.0133	0.0132
Moon	7308-12-24 14:09 G	4390609.97	4390610.09	4390610.25	0.0133	0.0112
Earth	7308-12-24 17:45 G	4390610.11	4390610.24	4390610.41	0.0133	0.0107 *
Earth	7309-12-29 01:26 G	4390979.35	4390979.56	4390979.78	0.0133	0.0074
Moon	7309-12-29 05:02 G	4390979.50	4390979.71	4390979.93	0.0133	0.0072 *
Moon	7311-01-02 05:16 G	4391348.49	4391348.72	4391348.98	0.0133	0.0041
Earth	7311-01-02 08:52 G	4391348.64	4391348.87	4391349.12	0.0133	0.0042 *
Mercury	7311-11-06 14:52 G	4391657.07	4391657.12	4391657.17	0.0134	0.0125
Earth	7312-01-06 16:33 G	4391717.94	4391718.19	4391718.45	0.0134	0.0008
Moon	7312-01-06 20:23 G	4391718.10	4391718.35	4391718.60	0.0134	0.0013 *
Mercury	7312-02-02 18:14 G	4391745.18	4391745.26	4391745.34	0.0134	0.0108
Mercury	7312-04-30 21:50 G	4391833.30	4391833.41	4391833.51	0.0134	0.0090
Mercury	7312-07-28 00:57 G	4391921.43	4391921.54	4391921.66	0.0134	0.0073
Mercury	7312-10-24 04:33 G	4392009.56	4392009.69	4392009.82	0.0134	0.0055
Moon	7313-01-09 20:52 G	4392087.13	4392087.37	4392087.63	0.0134	0.0031
Earth	7313-01-10 00:28 G	4392087.28	4392087.52	4392087.78	0.0134	0.0025 *
Mercury	7313-01-20 07:55 G	4392097.70	4392097.83	4392097.96	0.0134	0.0038
Mercury	7313-04-18 11:16 G	4392185.83	4392185.97	4392186.11	0.0134	0.0021
Mercury	7313-07-15 14:38 G	4392273.97	4392274.11	4392274.25	0.0134	0.0003
Mercury	7313-10-11 18:00 G	4392362.11	4392362.25	4392362.39	0.0134	0.0014
Mercury	7314-01-07 21:21 G	4392450.25	4392450.39	4392450.52	0.0134	0.0031
Earth	7314-01-14 08:23 G	4392456.63	4392456.85	4392457.09	0.0134	0.0059

Moon	7314-01-14 12:00 G	4392456.77	4392457.00	4392457.24	0.0134	0.0052 *
Mercury	7314-04-06 00:28 G	4392538.40	4392538.52	4392538.65	0.0134	0.0048
Mercury	7314-07-03 03:50 G	4392626.54	4392626.66	4392626.78	0.0134	0.0065
Mercury	7314-09-29 06:57 G	4392714.69	4392714.79	4392714.90	0.0134	0.0083
Mercury	7314-12-26 10:19 G	4392802.84	4392802.93	4392803.02	0.0135	0.0100
Moon	7315-01-18 13:11 G	4392825.90	4392826.05	4392826.24	0.0135	0.0100
Earth	7315-01-18 16:48 G	4392826.03	4392826.20	4392826.40	0.0135	0.0093 *
Mercury	7315-03-24 13:26 G	4392891.00	4392891.06	4392891.14	0.0135	0.0117
Mercury	7315-06-20 16:33 G	4392979.19	4392979.19	4392979.22	0.0135	0.0134
Earth	7316-01-23 01:11 G	4393195.48	4393195.55	4393195.66	0.0135	0.0126
Moon	7316-01-23 04:33 G	4393195.60	4393195.69	4393195.81	0.0135	0.0122 *
Venus	7317-01-14 07:11 G	4393552.65	4393552.80	4393552.96	0.0135	0.0095
Venus	7317-08-28 13:26 G	4393778.87	4393779.06	4393779.27	0.0135	0.0051
Venus	7318-04-11 20:09 G	4394005.12	4394005.34	4394005.56	0.0136	0.0008
Venus	7318-11-24 02:38 G	4394231.41	4394231.61	4394231.83	0.0136	0.0037
Venus	7319-07-08 09:07 G	4394457.72	4394457.88	4394458.07	0.0136	0.0082
Venus	7320-02-19 15:50 G	4394684.10	4394684.16	4394684.26	0.0137	0.0126
Mars	7344-07-09 07:40 G	4403590.79	4403590.82	4403590.90	0.0146	0.0144
Mars	7346-06-17 10:19 G	4404298.60	4404298.93	4404299.27	0.0146	0.0020
Earth	7349-06-19 08:38 G	4405396.80	4405396.86	4405396.92	0.0145	0.0141
Earth	7350-06-24 09:21 G	4405766.72	4405766.89	4405767.09	0.0145	0.0100
Moon	7350-06-24 09:36 G	4405766.72	4405766.90	4405767.12	0.0145	0.0094 *
Moon	7351-06-29 10:04 G	4406136.71	4406136.92	4406137.15	0.0145	0.0059
Earth	7351-06-29 10:19 G	4406136.71	4406136.93	4406137.18	0.0145	0.0057 *
Earth	7352-07-03 11:31 G	4406506.72	4406506.98	4406507.23	0.0145	0.0014
Moon	7352-07-03 13:11 G	4406506.79	4406507.05	4406507.31	0.0145	0.0017 *
Mercury	7352-11-20 07:40 G	4406646.75	4406646.82	4406646.90	0.0145	0.0131
Mercury	7353-02-16 14:52 G	4406735.00	4406735.12	4406735.25	0.0145	0.0103
Mercury	7353-05-15 22:19 G	4406823.28	4406823.43	4406823.58	0.0145	0.0075
Moon	7353-07-08 10:19 G	4406876.70	4406876.93	4406877.18	0.0145	0.0035

Earth	7353-07-08 12:14 G	4406876.76	4406877.01	4406877.26	0.0145	0.0028	*
Mercury	7353-08-12 05:45 G	4406911.57	4406911.74	4406911.91	0.0144	0.0047	
Mercury	7353-11-08 13:11 G	4406999.87	4407000.05	4407000.23	0.0144	0.0019	
Mercury	7354-02-04 20:38 G	4407088.17	4407088.36	4407088.54	0.0144	0.0011	
Mercury	7354-05-04 03:50 G	4407176.49	4407176.66	4407176.84	0.0144	0.0040	
Earth	7354-07-13 12:28 G	4407246.81	4407247.02	4407247.25	0.0144	0.0071	
Moon	7354-07-13 15:36 G	4407246.91	4407247.15	4407247.38	0.0144	0.0064	*
Mercury	7354-07-31 11:16 G	4407264.82	4407264.97	4407265.15	0.0144	0.0069	
Mercury	7354-10-27 18:57 G	4407353.16	4407353.29	4407353.44	0.0144	0.0097	
Mercury	7355-01-24 02:23 G	4407441.53	4407441.60	4407441.71	0.0144	0.0126	
Moon	7355-07-18 09:50 G	4407616.79	4407616.91	4407617.06	0.0144	0.0119	
Earth	7355-07-18 12:57 G	4407616.89	4407617.04	4407617.21	0.0144	0.0112	*
Venus	7356-09-17 21:07 G	4408044.30	4408044.38	4408044.50	0.0143	0.0127	
Venus	7357-05-02 08:38 G	4408270.69	4408270.86	4408271.06	0.0143	0.0074	
Venus	7357-12-14 19:55 G	4408497.12	4408497.33	4408497.55	0.0143	0.0022	
Venus	7358-07-29 06:43 G	4408723.57	4408723.78	4408724.00	0.0143	0.0029	
Venus	7359-03-12 17:16 G	4408950.05	4408950.22	4408950.41	0.0142	0.0080	
Venus	7359-10-25 03:50 G	4409176.59	4409176.66	4409176.75	0.0142	0.0131	
Mars	7386-11-12 00:57 G	4419056.32	4419056.54	4419056.80	0.0133	0.0070	
Mars	7388-10-10 16:19 G	4419754.91	4419755.18	4419755.46	0.0133	0.0028	
Mars	7390-09-09 08:09 G	4420453.77	4420453.84	4420453.95	0.0133	0.0125	
Moon	7392-12-25 04:04 G	4421291.52	4421291.67	4421291.86	0.0133	0.0097	
Earth	7392-12-25 07:26 G	4421291.67	4421291.81	4421292.00	0.0133	0.0103	*
Earth	7393-12-29 14:52 G	4421660.92	4421661.12	4421661.36	0.0133	0.0071	
Moon	7393-12-29 18:43 G	4421661.08	4421661.28	4421661.51	0.0133	0.0072	*
Moon	7395-01-02 19:11 G	4422030.06	4422030.30	4422030.55	0.0133	0.0037	
Earth	7395-01-02 23:02 G	4422030.22	4422030.46	4422030.70	0.0133	0.0037	*
Mercury	7395-11-26 22:33 G	4422358.38	4422358.44	4422358.51	0.0134	0.0118	
Earth	7396-01-07 06:28 G	4422399.52	4422399.77	4422400.03	0.0134	0.0005	
Moon	7396-01-07 10:04 G	4422399.67	4422399.92	4422400.17	0.0134	0.0000	*

Mercury	7396-02-23 02:09 G	4422446.50	4422446.59	4422446.68	0.0134	0.0100
Mercury	7396-05-21 05:31 G	4422534.62	4422534.73	4422534.84	0.0134	0.0083
Mercury	7396-08-17 08:52 G	4422622.75	4422622.87	4422623.00	0.0134	0.0065
Mercury	7396-11-13 12:14 G	4422710.89	4422711.01	4422711.15	0.0134	0.0048
Moon	7397-01-10 10:48 G	4422768.71	4422768.95	4422769.21	0.0134	0.0024
Earth	7397-01-10 14:38 G	4422768.87	4422769.11	4422769.36	0.0134	0.0030 *
Mercury	7397-02-09 15:36 G	4422799.02	4422799.15	4422799.29	0.0134	0.0031
Mercury	7397-05-08 19:11 G	4422887.16	4422887.30	4422887.44	0.0134	0.0013
Mercury	7397-08-04 22:33 G	4422975.30	4422975.44	4422975.57	0.0134	0.0005
Mercury	7397-11-01 01:55 G	4423063.44	4423063.58	4423063.71	0.0134	0.0022
Earth	7398-01-14 22:33 G	4423138.23	4423138.44	4423138.68	0.0134	0.0064
Moon	7398-01-15 02:23 G	4423138.39	4423138.60	4423138.82	0.0134	0.0071 *
Mercury	7398-01-28 05:02 G	4423151.58	4423151.71	4423151.85	0.0134	0.0039
Mercury	7398-04-26 08:23 G	4423239.73	4423239.85	4423239.98	0.0134	0.0056
Mercury	7398-07-23 11:45 G	4423327.88	4423327.99	4423328.10	0.0134	0.0073
Mercury	7398-10-19 14:52 G	4423416.03	4423416.12	4423416.23	0.0134	0.0090
Mercury	7399-01-15 18:14 G	4423504.18	4423504.26	4423504.34	0.0135	0.0107
Moon	7399-01-19 03:36 G	4423507.47	4423507.65	4423507.84	0.0135	0.0091
Earth	7399-01-19 06:57 G	4423507.63	4423507.79	4423507.98	0.0135	0.0098 *
Mercury	7399-04-13 21:21 G	4423592.35	4423592.39	4423592.45	0.0135	0.0124
Earth	7400-01-23 15:21 G	4423877.10	4423877.14	4423877.22	0.0135	0.0131
Venus	7400-09-14 18:43 G	4424111.17	4424111.28	4424111.41	0.0135	0.0111
Venus	7401-04-29 00:57 G	4424337.37	4424337.54	4424337.74	0.0135	0.0069
Venus	7401-12-11 07:40 G	4424563.61	4424563.82	4424564.04	0.0136	0.0025
Venus	7402-07-25 14:09 G	4424789.88	4424790.09	4424790.31	0.0136	0.0019
Venus	7403-03-08 20:38 G	4425016.18	4425016.36	4425016.56	0.0136	0.0064
Venus	7403-10-21 03:36 G	4425242.52	4425242.65	4425242.78	0.0136	0.0108
Mars	7429-03-07 12:00 G	4434511.73	4434512.00	4434512.30	0.0146	0.0077
Mars	7431-02-13 13:55 G	4435219.82	4435220.08	4435220.37	0.0146	0.0086
Earth	7433-06-20 22:19 G	4436078.35	4436078.43	4436078.52	0.0145	0.0137

Moon	7433-06-20 23:02 G	4436078.37	4436078.46	4436078.59	0.0145	0.0130	*
Moon	7434-06-25 22:19 G	4436448.26	4436448.43	4436448.64	0.0145	0.0101	
Earth	7434-06-25 23:16 G	4436448.29	4436448.47	4436448.67	0.0145	0.0095	*
Moon	7435-07-01 00:00 G	4436818.27	4436818.50	4436818.73	0.0145	0.0050	
Earth	7435-07-01 00:14 G	4436818.28	4436818.51	4436818.76	0.0145	0.0052	*
Earth	7436-07-05 01:26 G	4437188.31	4437188.56	4437188.81	0.0145	0.0009	
Moon	7436-07-05 01:55 G	4437188.32	4437188.58	4437188.85	0.0145	0.0008	*
Mercury	7436-12-11 16:04 G	4437348.08	4437348.17	4437348.27	0.0145	0.0120	
Mercury	7437-03-09 23:02 G	4437436.34	4437436.46	4437436.61	0.0145	0.0093	
Mercury	7437-06-06 06:28 G	4437524.62	4437524.77	4437524.94	0.0144	0.0065	
Moon	7437-07-10 00:28 G	4437558.28	4437558.52	4437558.76	0.0144	0.0028	
Earth	7437-07-10 02:09 G	4437558.35	4437558.59	4437558.84	0.0144	0.0034	*
Mercury	7437-09-02 14:09 G	4437612.91	4437613.09	4437613.26	0.0144	0.0036	
Mercury	7437-11-29 21:36 G	4437701.22	4437701.40	4437701.58	0.0144	0.0008	
Mercury	7438-02-26 05:02 G	4437789.53	4437789.71	4437789.89	0.0144	0.0021	
Mercury	7438-05-25 12:28 G	4437877.85	4437878.02	4437878.19	0.0144	0.0050	
Earth	7438-07-15 02:38 G	4437928.41	4437928.61	4437928.84	0.0144	0.0076	
Moon	7438-07-15 05:02 G	4437928.50	4437928.71	4437928.92	0.0144	0.0084	*
Mercury	7438-08-21 19:55 G	4437966.18	4437966.33	4437966.49	0.0144	0.0079	
Mercury	7438-11-18 03:21 G	4438054.53	4438054.64	4438054.77	0.0144	0.0108	
Mercury	7439-02-14 11:02 G	4438142.92	4438142.96	4438143.03	0.0144	0.0137	
Moon	7439-07-20 00:28 G	4438298.38	4438298.52	4438298.69	0.0144	0.0112	
Earth	7439-07-20 02:52 G	4438298.50	4438298.62	4438298.79	0.0144	0.0118	*
Venus	7440-12-31 17:45 G	4438829.09	4438829.24	4438829.42	0.0143	0.0095	
Venus	7441-08-15 05:02 G	4439055.51	4439055.71	4439055.92	0.0143	0.0043	
Venus	7442-03-29 16:04 G	4439281.95	4439282.17	4439282.39	0.0143	0.0008	
Venus	7442-11-11 02:38 G	4439508.42	4439508.61	4439508.82	0.0142	0.0060	
Venus	7443-06-25 13:26 G	4439734.93	4439735.06	4439735.20	0.0142	0.0110	
Mars	7469-08-08 14:52 G	4449276.04	4449276.12	4449276.23	0.0133	0.0125	
Mars	7471-07-08 06:00 G	4449974.48	4449974.75	4449975.03	0.0133	0.0028	

Mars	7473-06-05 21:50 G	4450673.18	4450673.41	4450673.66	0.0133	0.0069
Earth	7475-12-23 14:09 G	4451604.05	4451604.09	4451604.14	0.0133	0.0130
Moon	7475-12-23 17:02 G	4451604.14	4451604.21	4451604.33	0.0133	0.0124 *
Moon	7476-12-26 17:45 G	4451973.10	4451973.24	4451973.42	0.0133	0.0104
Earth	7476-12-26 21:36 G	4451973.24	4451973.40	4451973.58	0.0133	0.0098 *
Earth	7477-12-31 05:02 G	4452342.50	4452342.71	4452342.94	0.0133	0.0066
Moon	7477-12-31 08:23 G	4452342.64	4452342.85	4452343.09	0.0133	0.0063 *
Moon	7479-01-04 09:21 G	4452711.64	4452711.89	4452712.14	0.0133	0.0032
Earth	7479-01-04 12:43 G	4452711.79	4452712.03	4452712.28	0.0133	0.0032 *
Mercury	7479-09-21 03:07 G	4452971.59	4452971.63	4452971.67	0.0134	0.0128
Mercury	7479-12-18 06:28 G	4453059.70	4453059.77	4453059.85	0.0134	0.0110
Earth	7480-01-08 20:38 G	4453081.10	4453081.36	4453081.61	0.0134	0.0001
Moon	7480-01-09 00:28 G	4453081.26	4453081.52	4453081.77	0.0134	0.0003 *
Mercury	7480-03-15 09:50 G	4453147.82	4453147.91	4453148.02	0.0134	0.0093
Mercury	7480-06-11 13:11 G	4453235.95	4453236.05	4453236.17	0.0134	0.0076
Mercury	7480-09-07 16:48 G	4453324.08	4453324.20	4453324.33	0.0134	0.0058
Mercury	7480-12-04 20:09 G	4453412.21	4453412.34	4453412.48	0.0134	0.0041
Moon	7481-01-12 01:11 G	4453450.31	4453450.55	4453450.80	0.0134	0.0040
Earth	7481-01-12 04:33 G	4453450.45	4453450.69	4453450.94	0.0134	0.0035 *
Mercury	7481-03-02 23:31 G	4453500.35	4453500.48	4453500.62	0.0134	0.0024
Mercury	7481-05-30 02:52 G	4453588.49	4453588.62	4453588.76	0.0134	0.0007
Mercury	7481-08-26 06:14 G	4453676.63	4453676.76	4453676.90	0.0134	0.0012
Mercury	7481-11-22 09:36 G	4453764.77	4453764.90	4453765.04	0.0134	0.0028
Earth	7482-01-16 12:28 G	4453819.82	4453820.02	4453820.25	0.0134	0.0069
Moon	7482-01-16 16:19 G	4453819.96	4453820.18	4453820.41	0.0134	0.0061 *
Mercury	7482-02-18 12:57 G	4453852.91	4453853.04	4453853.17	0.0134	0.0046
Mercury	7482-05-17 16:19 G	4453941.06	4453941.18	4453941.30	0.0134	0.0063
Mercury	7482-08-13 19:26 G	4454029.21	4454029.31	4454029.42	0.0134	0.0080
Mercury	7482-11-09 22:48 G	4454117.36	4454117.45	4454117.54	0.0134	0.0097
Moon	7483-01-20 17:16 G	4454189.09	4454189.22	4454189.38	0.0135	0.0110

Earth	7483-01-20 20:38 G	4454189.22	4454189.36	4454189.55	0.0135	0.0103 *
Mercury	7483-02-06 01:55 G	4454205.52	4454205.58	4454205.66	0.0135	0.0114
Mercury	7483-05-05 05:02 G	4454293.69	4454293.71	4454293.75	0.0135	0.0131
Moon	7484-01-25 09:07 G	4454558.83	4454558.88	4454558.93	0.0135	0.0131
Venus	7484-05-15 06:14 G	4454669.71	4454669.76	4454669.84	0.0135	0.0128
Venus	7484-12-27 12:28 G	4454895.87	4454896.02	4454896.20	0.0135	0.0085
Venus	7485-08-10 18:57 G	4455122.09	4455122.29	4455122.50	0.0135	0.0042
Venus	7486-03-25 01:26 G	4455348.35	4455348.56	4455348.78	0.0136	0.0004
Venus	7486-11-06 08:09 G	4455574.64	4455574.84	4455575.05	0.0136	0.0046
Venus	7487-06-20 14:38 G	4455800.96	4455801.11	4455801.28	0.0136	0.0090
Venus	7488-02-01 21:21 G	4456027.37	4456027.39	4456027.43	0.0136	0.0135
Mars	7513-11-03 09:50 G	4465432.57	4465432.91	4465433.25	0.0146	0.0013
Earth	7517-06-22 09:07 G	4466759.79	4466759.88	4466759.99	0.0145	0.0133
Moon	7517-06-22 11:02 G	4466759.90	4466759.96	4466760.03	0.0145	0.0140 *
Moon	7518-06-27 09:07 G	4467129.68	4467129.88	4467130.11	0.0145	0.0084
Earth	7518-06-27 10:19 G	4467129.74	4467129.93	4467130.13	0.0145	0.0091 *
Earth	7519-07-02 11:16 G	4467499.74	4467499.97	4467500.22	0.0145	0.0048
Moon	7519-07-02 12:00 G	4467499.78	4467500.00	4467500.24	0.0145	0.0051 *
Earth	7520-07-06 12:14 G	4467869.76	4467870.01	4467870.27	0.0145	0.0005
Moon	7520-07-06 12:57 G	4467869.77	4467870.04	4467870.30	0.0145	0.0007 *
Mercury	7520-10-05 16:33 G	4467961.15	4467961.19	4467961.23	0.0145	0.0140
Mercury	7521-01-01 23:31 G	4468049.38	4468049.48	4468049.60	0.0145	0.0113
Mercury	7521-03-31 06:43 G	4468137.65	4468137.78	4468137.93	0.0145	0.0085
Mercury	7521-06-27 14:09 G	4468225.93	4468226.09	4468226.26	0.0144	0.0056
Moon	7521-07-11 12:28 G	4468239.79	4468240.02	4468240.26	0.0144	0.0043
Earth	7521-07-11 12:57 G	4468239.81	4468240.04	4468240.30	0.0144	0.0039 *
Mercury	7521-09-23 21:36 G	4468314.22	4468314.40	4468314.58	0.0144	0.0028
Mercury	7521-12-21 05:02 G	4468402.53	4468402.71	4468402.89	0.0144	0.0001
Mercury	7522-03-19 12:28 G	4468490.84	4468491.02	4468491.20	0.0144	0.0029
Mercury	7522-06-15 19:55 G	4468579.17	4468579.33	4468579.50	0.0144	0.0058

Earth	7522-07-16 13:40 G	4468609.87	4468610.07	4468610.29	0.0144	0.0081
Moon	7522-07-16 15:21 G	4468609.93	4468610.14	4468610.38	0.0144	0.0074 *
Mercury	7522-09-12 03:36 G	4468667.50	4468667.65	4468667.80	0.0144	0.0087
Mercury	7522-12-09 10:48 G	4468755.86	4468755.95	4468756.07	0.0144	0.0116
Moon	7523-07-21 11:45 G	4468979.89	4468979.99	4468980.11	0.0144	0.0129
Earth	7523-07-21 13:55 G	4468979.96	4468980.08	4468980.23	0.0144	0.0122 *
Venus	7524-09-01 00:57 G	4469387.43	4469387.54	4469387.67	0.0143	0.0119
Venus	7525-04-15 12:14 G	4469613.82	4469614.01	4469614.21	0.0143	0.0067
Venus	7525-11-27 23:16 G	4469840.26	4469840.47	4469840.69	0.0143	0.0015
Venus	7526-07-12 10:04 G	4470066.72	4470066.92	4470067.14	0.0143	0.0037
Venus	7527-02-23 20:52 G	4470293.20	4470293.37	4470293.55	0.0142	0.0088
Venus	7527-10-08 07:11 G	4470519.77	4470519.80	4470519.86	0.0142	0.0138
Mars	7554-04-03 18:57 G	4480194.10	4480194.29	4480194.53	0.0133	0.0085
Mars	7556-03-02 11:02 G	4480892.69	4480892.96	4480893.25	0.0133	0.0013
Mars	7558-01-30 02:38 G	4481591.46	4481591.61	4481591.78	0.0133	0.0109
Earth	7559-12-25 02:52 G	4482285.57	4482285.62	4482285.73	0.0133	0.0126
Moon	7559-12-25 06:57 G	4482285.78	4482285.79	4482285.82	0.0133	0.0132
Moon	7560-12-28 07:55 G	4482654.65	4482654.83	4482655.02	0.0133	0.0088
Earth	7560-12-28 11:02 G	4482654.79	4482654.96	4482655.15	0.0133	0.0093 *
Earth	7562-01-01 18:28 G	4483024.05	4483024.27	4483024.50	0.0133	0.0060
Moon	7562-01-01 21:50 G	4483024.19	4483024.41	4483024.65	0.0133	0.0063 *
Moon	7563-01-05 22:48 G	4483393.21	4483393.45	4483393.70	0.0133	0.0027
Earth	7563-01-06 02:09 G	4483393.35	4483393.59	4483393.85	0.0133	0.0028 *
Mercury	7563-10-12 10:33 G	4483672.90	4483672.94	4483673.01	0.0134	0.0122
Mercury	7564-01-08 14:09 G	4483761.01	4483761.09	4483761.19	0.0134	0.0104
Earth	7564-01-10 10:04 G	4483762.67	4483762.92	4483763.18	0.0134	0.0007
Moon	7564-01-10 13:26 G	4483762.81	4483763.06	4483763.32	0.0134	0.0010 *
Mercury	7564-04-05 17:45 G	4483849.14	4483849.24	4483849.35	0.0134	0.0086
Mercury	7564-07-02 21:07 G	4483937.27	4483937.38	4483937.50	0.0134	0.0069
Mercury	7564-09-29 00:28 G	4484025.40	4484025.52	4484025.65	0.0134	0.0052

Mercury	7564-12-26 04:04 G	4484113.53	4484113.67	4484113.80	0.0134	0.0034
Moon	7565-01-13 14:38 G	4484131.86	4484132.11	4484132.35	0.0134	0.0034
Earth	7565-01-13 18:14 G	4484132.02	4484132.26	4484132.50	0.0134	0.0040 *
Mercury	7565-03-24 07:26 G	4484201.67	4484201.81	4484201.94	0.0134	0.0017
Mercury	7565-06-20 10:48 G	4484289.81	4484289.95	4484290.08	0.0134	0.0003
Mercury	7565-09-16 14:09 G	4484377.95	4484378.09	4484378.22	0.0134	0.0018
Mercury	7565-12-13 17:16 G	4484466.09	4484466.22	4484466.36	0.0134	0.0035
Earth	7566-01-18 01:55 G	4484501.38	4484501.58	4484501.80	0.0134	0.0074
Moon	7566-01-18 05:16 G	4484501.53	4484501.72	4484501.94	0.0134	0.0081 *
Mercury	7566-03-11 20:38 G	4484554.24	4484554.36	4484554.49	0.0134	0.0052
Mercury	7566-06-07 23:45 G	4484642.38	4484642.49	4484642.62	0.0134	0.0070
Mercury	7566-09-04 03:07 G	4484730.53	4484730.63	4484730.74	0.0134	0.0086
Mercury	7566-12-01 06:14 G	4484818.69	4484818.76	4484818.86	0.0134	0.0104
Moon	7567-01-22 06:57 G	4484870.62	4484870.79	4484870.95	0.0134	0.0101
Earth	7567-01-22 10:19 G	4484870.79	4484870.93	4484871.09	0.0134	0.0108 *
Mercury	7567-02-27 09:50 G	4484906.85	4484906.91	4484906.97	0.0135	0.0120
Venus	7568-08-27 23:45 G	4485454.36	4485454.49	4485454.64	0.0135	0.0102
Venus	7569-04-11 06:00 G	4485680.56	4485680.75	4485680.96	0.0135	0.0059
Venus	7569-11-23 12:43 G	4485906.81	4485907.03	4485907.25	0.0135	0.0016
Venus	7570-07-07 19:11 G	4486133.09	4486133.30	4486133.51	0.0136	0.0028
Venus	7571-02-19 01:26 G	4486359.39	4486359.56	4486359.76	0.0136	0.0072
Venus	7571-10-03 08:09 G	4486585.74	4486585.84	4486585.96	0.0136	0.0116
Mars	7596-07-23 07:26 G	4495645.61	4495645.81	4495646.05	0.0146	0.0111
Mars	7598-07-01 08:23 G	4496353.55	4496353.85	4496354.18	0.0146	0.0051
Earth	7601-06-22 20:52 G	4497441.27	4497441.37	4497441.50	0.0145	0.0129
Moon	7601-06-22 23:16 G	4497441.34	4497441.47	4497441.61	0.0145	0.0121 *
Moon	7602-06-27 20:09 G	4497811.15	4497811.34	4497811.55	0.0145	0.0093
Earth	7602-06-27 21:50 G	4497811.23	4497811.41	4497811.64	0.0145	0.0087 *
Earth	7603-07-02 23:02 G	4498181.23	4498181.46	4498181.71	0.0145	0.0043
Moon	7603-07-03 00:00 G	4498181.27	4498181.50	4498181.74	0.0145	0.0040 *

Moon	7604-07-06 23:45 G	4498551.22	4498551.49	4498551.75	0.0145	0.0001
Earth	7604-07-07 00:28 G	4498551.26	4498551.52	4498551.77	0.0145	0.0002 *
Mercury	7604-10-26 00:00 G	4498662.44	4498662.50	4498662.58	0.0145	0.0132
Mercury	7605-01-22 07:26 G	4498750.69	4498750.81	4498750.94	0.0145	0.0104
Mercury	7605-04-20 14:38 G	4498838.96	4498839.11	4498839.27	0.0145	0.0076
Moon	7605-07-12 00:28 G	4498921.30	4498921.52	4498921.77	0.0144	0.0039
Earth	7605-07-12 00:57 G	4498921.31	4498921.54	4498921.80	0.0144	0.0044 *
Mercury	7605-07-17 22:04 G	4498927.25	4498927.42	4498927.59	0.0144	0.0048
Mercury	7605-10-14 05:31 G	4499015.55	4499015.73	4499015.91	0.0144	0.0019
Mercury	7606-01-10 12:57 G	4499103.86	4499104.04	4499104.22	0.0144	0.0009
Mercury	7606-04-08 20:23 G	4499192.17	4499192.35	4499192.52	0.0144	0.0038
Mercury	7606-07-06 03:50 G	4499280.50	4499280.66	4499280.82	0.0144	0.0066
Earth	7606-07-17 01:55 G	4499291.38	4499291.58	4499291.78	0.0144	0.0086
Moon	7606-07-17 02:23 G	4499291.42	4499291.60	4499291.82	0.0144	0.0094 *
Mercury	7606-10-02 11:16 G	4499368.84	4499368.97	4499369.11	0.0144	0.0095
Mercury	7606-12-29 18:57 G	4499457.20	4499457.29	4499457.38	0.0144	0.0124
Moon	7607-07-22 00:43 G	4499661.40	4499661.53	4499661.66	0.0144	0.0121
Earth	7607-07-22 02:09 G	4499661.48	4499661.59	4499661.71	0.0144	0.0127 *
Venus	7608-05-01 08:38 G	4499945.84	4499945.86	4499945.91	0.0144	0.0142
Venus	7608-12-13 20:09 G	4500172.17	4500172.34	4500172.51	0.0143	0.0089
Venus	7609-07-28 07:11 G	4500398.59	4500398.80	4500399.01	0.0143	0.0038
Venus	7610-03-11 18:14 G	4500625.04	4500625.26	4500625.48	0.0143	0.0014
Venus	7610-10-24 04:48 G	4500851.52	4500851.70	4500851.90	0.0143	0.0065
Venus	7611-06-07 15:50 G	4501078.03	4501078.16	4501078.28	0.0142	0.0116
Mars	7638-11-27 00:43 G	4511112.27	4511112.53	4511112.80	0.0133	0.0044
Mars	7640-10-25 16:33 G	4511810.95	4511811.19	4511811.46	0.0133	0.0053
Earth	7643-12-25 16:33 G	4512967.10	4512967.19	4512967.31	0.0133	0.0121
Moon	7643-12-25 19:26 G	4512967.19	4512967.31	4512967.45	0.0133	0.0114 *
Moon	7644-12-28 20:52 G	4513336.21	4513336.37	4513336.57	0.0133	0.0094
Earth	7644-12-29 00:28 G	4513336.33	4513336.52	4513336.71	0.0133	0.0088 *

Earth	7646-01-02 07:55 G	4513705.61	4513705.83	4513706.07	0.0133	0.0056
Moon	7646-01-02 11:02 G	4513705.73	4513705.96	4513706.21	0.0133	0.0052 *
Moon	7647-01-06 12:43 G	4514074.78	4514075.03	4514075.28	0.0133	0.0022
Earth	7647-01-06 15:36 G	4514074.91	4514075.15	4514075.41	0.0133	0.0023 *
Mercury	7647-08-05 15:07 G	4514286.12	4514286.13	4514286.15	0.0134	0.0132
Mercury	7647-11-01 18:28 G	4514374.21	4514374.27	4514374.35	0.0134	0.0115
Earth	7648-01-10 23:45 G	4514444.23	4514444.49	4514444.74	0.0134	0.0012
Moon	7648-01-11 03:07 G	4514444.37	4514444.63	4514444.89	0.0134	0.0009 *
Mercury	7648-01-28 22:04 G	4514462.33	4514462.42	4514462.52	0.0134	0.0097
Mercury	7648-04-26 01:26 G	4514550.45	4514550.56	4514550.68	0.0134	0.0080
Mercury	7648-07-23 05:02 G	4514638.59	4514638.71	4514638.83	0.0134	0.0062
Mercury	7648-10-19 08:23 G	4514726.72	4514726.85	4514726.98	0.0134	0.0045
Moon	7649-01-14 04:33 G	4514813.46	4514813.69	4514813.92	0.0134	0.0050
Earth	7649-01-14 07:26 G	4514813.58	4514813.81	4514814.06	0.0134	0.0046 *
Mercury	7649-01-15 11:45 G	4514814.86	4514814.99	4514815.13	0.0134	0.0027
Mercury	7649-04-13 15:07 G	4514902.99	4514903.13	4514903.27	0.0134	0.0010
Mercury	7649-07-10 18:28 G	4514991.13	4514991.27	4514991.41	0.0134	0.0007
Mercury	7649-10-06 21:50 G	4515079.27	4515079.41	4515079.54	0.0134	0.0025
Mercury	7650-01-03 00:57 G	4515167.42	4515167.54	4515167.68	0.0134	0.0042
Earth	7650-01-18 15:21 G	4515182.94	4515183.14	4515183.35	0.0134	0.0080
Moon	7650-01-18 18:43 G	4515183.08	4515183.28	4515183.51	0.0134	0.0073 *
Mercury	7650-04-01 04:19 G	4515255.56	4515255.68	4515255.81	0.0134	0.0059
Mercury	7650-06-28 07:40 G	4515343.71	4515343.82	4515343.93	0.0134	0.0076
Mercury	7650-09-24 10:48 G	4515431.86	4515431.95	4515432.05	0.0134	0.0093
Mercury	7650-12-21 14:09 G	4515520.02	4515520.09	4515520.17	0.0134	0.0110
Moon	7651-01-22 20:09 G	4515552.24	4515552.34	4515552.46	0.0135	0.0121
Earth	7651-01-22 23:45 G	4515552.36	4515552.49	4515552.63	0.0135	0.0113 *
Mercury	7651-03-19 17:16 G	4515608.19	4515608.22	4515608.27	0.0135	0.0127
Venus	7652-04-27 10:48 G	4516012.87	4516012.95	4516013.07	0.0135	0.0120
Venus	7652-12-09 17:31 G	4516239.06	4516239.23	4516239.41	0.0135	0.0077

Venus	7653-07-23 23:45 G	4516465.28	4516465.49	4516465.71	0.0135	0.0033
Venus	7654-03-07 06:14 G	4516691.54	4516691.76	4516691.98	0.0136	0.0010
Venus	7654-10-19 12:43 G	4516917.83	4516918.03	4516918.23	0.0136	0.0054
Venus	7655-06-02 19:11 G	4517144.16	4517144.30	4517144.46	0.0136	0.0098
Jupiter	7673-06-03 18:14 G	4523719.80	4523720.26	4523720.77	0.0144	0.0057
Mars	7681-03-20 03:36 G	4526566.34	4526566.65	4526566.98	0.0146	0.0049
Mars	7683-02-26 04:19 G	4527274.48	4527274.68	4527274.91	0.0146	0.0113
Earth	7685-06-23 06:57 G	4528122.68	4528122.79	4528122.94	0.0145	0.0124
Moon	7685-06-23 09:36 G	4528122.82	4528122.90	4528123.03	0.0145	0.0132 *
Moon	7686-06-28 06:00 G	4528492.54	4528492.75	4528492.99	0.0145	0.0075
Earth	7686-06-28 08:23 G	4528492.64	4528492.85	4528493.06	0.0145	0.0081 *
Earth	7687-07-03 09:21 G	4528862.65	4528862.89	4528863.14	0.0145	0.0038
Moon	7687-07-03 11:16 G	4528862.74	4528862.97	4528863.21	0.0145	0.0043 *
Moon	7688-07-07 09:36 G	4529232.63	4529232.90	4529233.16	0.0145	0.0005
Earth	7688-07-07 10:19 G	4529232.68	4529232.93	4529233.18	0.0145	0.0005 *
Mercury	7688-11-15 07:11 G	4529363.73	4529363.80	4529363.90	0.0145	0.0126
Mercury	7689-02-11 14:38 G	4529451.98	4529452.11	4529452.24	0.0145	0.0098
Mercury	7689-05-10 21:50 G	4529540.26	4529540.41	4529540.57	0.0145	0.0070
Earth	7689-07-12 11:02 G	4529602.72	4529602.96	4529603.20	0.0144	0.0048
Moon	7689-07-12 11:31 G	4529602.76	4529602.98	4529603.21	0.0144	0.0053 *
Mercury	7689-08-07 05:16 G	4529628.55	4529628.72	4529628.89	0.0144	0.0042
Mercury	7689-11-03 12:43 G	4529716.85	4529717.03	4529717.21	0.0144	0.0013
Mercury	7690-01-30 20:09 G	4529805.16	4529805.34	4529805.52	0.0144	0.0016
Mercury	7690-04-29 03:21 G	4529893.47	4529893.64	4529893.82	0.0144	0.0044
Earth	7690-07-17 11:31 G	4529972.79	4529972.98	4529973.18	0.0144	0.0090
Moon	7690-07-17 12:00 G	4529972.79	4529973.00	4529973.22	0.0144	0.0084 *
Mercury	7690-07-26 11:02 G	4529981.80	4529981.96	4529982.12	0.0144	0.0073
Mercury	7690-10-22 18:28 G	4530070.14	4530070.27	4530070.40	0.0144	0.0101
Mercury	7691-01-19 01:55 G	4530158.51	4530158.58	4530158.67	0.0144	0.0130
Moon	7691-07-22 10:04 G	4530342.88	4530342.92	4530343.00	0.0144	0.0140

Earth	7691-07-22 11:16 G	4530342.89	4530342.97	4530343.09	0.0144	0.0132 *
Venus	7692-08-13 02:09 G	4530730.47	4530730.59	4530730.73	0.0143	0.0115
Venus	7693-03-27 13:40 G	4530956.87	4530957.07	4530957.26	0.0143	0.0063
Venus	7693-11-09 00:28 G	4531183.31	4531183.52	4531183.74	0.0143	0.0011
Venus	7694-06-23 11:16 G	4531409.77	4531409.97	4531410.19	0.0143	0.0041
Venus	7695-02-04 22:04 G	4531636.26	4531636.42	4531636.59	0.0142	0.0092
Venus	7695-09-19 08:52 G	4531862.85	4531862.87	4531862.88	0.0142	0.0142
Mars	7721-08-23 11:45 G	4541331.83	4541331.99	4541332.20	0.0133	0.0101
Mars	7723-07-23 04:33 G	4542030.41	4542030.69	4542030.98	0.0133	0.0005
Mars	7725-06-20 19:11 G	4542729.12	4542729.30	4542729.53	0.0133	0.0093
Earth	7727-12-27 05:16 G	4543648.61	4543648.72	4543648.86	0.0133	0.0117
Moon	7727-12-27 08:09 G	4543648.76	4543648.84	4543648.95	0.0133	0.0123 *
Moon	7728-12-30 11:02 G	4544017.76	4544017.96	4544018.16	0.0133	0.0078
Earth	7728-12-30 12:57 G	4544017.86	4544018.04	4544018.26	0.0133	0.0084 *
Earth	7730-01-03 20:38 G	4544387.14	4544387.36	4544387.61	0.0133	0.0051
Moon	7730-01-03 23:45 G	4544387.26	4544387.49	4544387.74	0.0133	0.0053 *
Moon	7731-01-08 01:55 G	4544756.33	4544756.58	4544756.83	0.0133	0.0016
Earth	7731-01-08 04:48 G	4544756.45	4544756.70	4544756.95	0.0133	0.0017 *
Mercury	7731-08-26 22:48 G	4544987.41	4544987.45	4544987.50	0.0134	0.0126
Mercury	7731-11-23 02:23 G	4545075.52	4545075.60	4545075.68	0.0134	0.0108
Earth	7732-01-12 12:28 G	4545125.77	4545126.02	4545126.28	0.0134	0.0017
Moon	7732-01-12 15:21 G	4545125.89	4545126.14	4545126.40	0.0134	0.0020 *
Mercury	7732-02-19 05:45 G	4545163.64	4545163.74	4545163.84	0.0134	0.0091
Mercury	7732-05-17 09:07 G	4545251.77	4545251.88	4545252.00	0.0134	0.0073
Mercury	7732-08-13 12:28 G	4545339.90	4545340.02	4545340.15	0.0134	0.0056
Mercury	7732-11-09 15:50 G	4545428.04	4545428.16	4545428.30	0.0134	0.0039
Moon	7733-01-15 16:48 G	4545494.98	4545495.20	4545495.45	0.0134	0.0046
Earth	7733-01-15 20:09 G	4545495.12	4545495.34	4545495.59	0.0134	0.0051 *
Mercury	7733-02-05 19:26 G	4545516.17	4545516.31	4545516.45	0.0134	0.0021
Mercury	7733-05-04 22:48 G	4545604.31	4545604.45	4545604.59	0.0134	0.0004

Mercury	7733-08-01 02:09 G	4545692.45	4545692.59	4545692.73	0.0134	0.0013
Mercury	7733-10-28 05:31 G	4545780.59	4545780.73	4545780.86	0.0134	0.0031
Earth	7734-01-20 03:50 G	4545864.48	4545864.66	4545864.88	0.0134	0.0085
Moon	7734-01-20 06:57 G	4545864.62	4545864.79	4545864.99	0.0134	0.0092 *
Mercury	7734-01-24 08:38 G	4545868.74	4545868.86	4545868.99	0.0134	0.0048
Mercury	7734-04-22 12:00 G	4545956.88	4545957.00	4545957.12	0.0134	0.0065
Mercury	7734-07-19 15:21 G	4546045.03	4546045.14	4546045.25	0.0134	0.0082
Mercury	7734-10-15 18:28 G	4546133.18	4546133.27	4546133.37	0.0134	0.0099
Mercury	7735-01-11 21:36 G	4546221.34	4546221.40	4546221.48	0.0135	0.0116
Moon	7735-01-24 09:07 G	4546233.75	4546233.88	4546234.02	0.0135	0.0112
Earth	7735-01-24 12:14 G	4546233.91	4546234.01	4546234.14	0.0135	0.0119 *
Mercury	7735-04-10 00:43 G	4546309.52	4546309.53	4546309.57	0.0135	0.0133
Venus	7736-08-10 04:33 G	4546797.54	4546797.69	4546797.84	0.0135	0.0095
Venus	7737-03-24 10:33 G	4547023.75	4547023.94	4547024.15	0.0135	0.0052
Venus	7737-11-05 17:16 G	4547250.00	4547250.22	4547250.43	0.0135	0.0008
Venus	7738-06-19 23:31 G	4547476.28	4547476.48	4547476.70	0.0136	0.0036
Venus	7739-02-01 06:00 G	4547702.59	4547702.75	4547702.94	0.0136	0.0080
Venus	7739-09-15 12:28 G	4547928.95	4547929.02	4547929.13	0.0136	0.0125
Mars	7763-12-09 03:07 G	4556779.61	4556779.63	4556779.72	0.0146	0.0144
Mars	7765-11-16 03:07 G	4557487.30	4557487.63	4557487.98	0.0146	0.0017
Earth	7769-06-24 19:26 G	4558804.18	4558804.31	4558804.46	0.0145	0.0120
Moon	7769-06-24 22:04 G	4558804.29	4558804.42	4558804.60	0.0145	0.0113 *
Moon	7770-06-29 17:31 G	4559174.03	4559174.23	4559174.45	0.0145	0.0084
Earth	7770-06-29 20:23 G	4559174.15	4559174.35	4559174.58	0.0145	0.0077 *
Earth	7771-07-04 21:07 G	4559544.15	4559544.38	4559544.64	0.0145	0.0034
Moon	7771-07-04 23:02 G	4559544.23	4559544.46	4559544.71	0.0145	0.0030 *
Moon	7772-07-08 20:23 G	4559914.09	4559914.35	4559914.61	0.0145	0.0009
Earth	7772-07-08 22:19 G	4559914.18	4559914.43	4559914.68	0.0145	0.0010 *
Mercury	7772-09-09 08:09 G	4559976.84	4559976.84	4559976.85	0.0145	0.0144
Mercury	7772-12-06 15:21 G	4560065.04	4560065.14	4560065.24	0.0145	0.0117

Mercury	7773-03-04 22:19 G	4560153.30	4560153.43	4560153.58	0.0145	0.0089
Mercury	7773-06-01 05:31 G	4560241.58	4560241.73	4560241.90	0.0145	0.0062
Earth	7773-07-13 22:33 G	4560284.22	4560284.44	4560284.69	0.0144	0.0054
Moon	7773-07-13 23:31 G	4560284.26	4560284.48	4560284.72	0.0144	0.0049 *
Mercury	7773-08-28 12:57 G	4560329.87	4560330.04	4560330.22	0.0144	0.0033
Mercury	7773-11-24 20:23 G	4560418.17	4560418.35	4560418.53	0.0144	0.0005
Mercury	7774-02-21 03:50 G	4560506.48	4560506.66	4560506.84	0.0144	0.0024
Mercury	7774-05-20 11:16 G	4560594.80	4560594.97	4560595.14	0.0144	0.0052
Moon	7774-07-18 22:48 G	4560654.27	4560654.45	4560654.64	0.0144	0.0102
Earth	7774-07-18 23:02 G	4560654.28	4560654.46	4560654.66	0.0144	0.0096 *
Mercury	7774-08-16 18:28 G	4560683.13	4560683.27	4560683.43	0.0144	0.0081
Mercury	7774-11-13 01:55 G	4560771.48	4560771.58	4560771.71	0.0144	0.0110
Mercury	7775-02-09 09:50 G	4560859.87	4560859.91	4560859.96	0.0144	0.0138
Moon	7775-07-23 22:48 G	4561024.36	4561024.45	4561024.56	0.0144	0.0131
Earth	7775-07-23 23:16 G	4561024.40	4561024.47	4561024.54	0.0144	0.0137 *
Venus	7776-04-13 09:50 G	4561288.86	4561288.91	4561288.97	0.0144	0.0138
Venus	7776-11-25 20:52 G	4561515.21	4561515.37	4561515.55	0.0143	0.0086
Venus	7777-07-10 08:09 G	4561741.63	4561741.84	4561742.05	0.0143	0.0034
Venus	7778-02-21 19:11 G	4561968.08	4561968.30	4561968.51	0.0143	0.0017
Venus	7778-10-06 05:31 G	4562194.55	4562194.73	4562194.94	0.0143	0.0069
Venus	7779-05-20 16:19 G	4562421.08	4562421.18	4562421.31	0.0142	0.0119
Mars	7806-04-18 16:04 G	4572249.93	4572250.17	4572250.43	0.0133	0.0060
Mars	7808-03-17 07:40 G	4572948.56	4572948.82	4572949.10	0.0133	0.0037
Earth	7811-12-28 18:28 G	4574330.14	4574330.27	4574330.40	0.0133	0.0113
Moon	7811-12-28 19:55 G	4574330.19	4574330.33	4574330.51	0.0133	0.0106 *
Moon	7812-12-31 23:16 G	4574699.30	4574699.47	4574699.68	0.0133	0.0086
Earth	7813-01-01 01:55 G	4574699.39	4574699.58	4574699.80	0.0133	0.0080 *
Earth	7814-01-05 09:36 G	4575068.67	4575068.90	4575069.15	0.0133	0.0046
Moon	7814-01-05 12:00 G	4575068.76	4575069.00	4575069.26	0.0133	0.0042 *
Moon	7815-01-09 15:07 G	4575437.89	4575438.13	4575438.38	0.0134	0.0013

Earth	7815-01-09 17:31 G	4575437.98	4575438.23	4575438.49	0.0134	0.0012	*
Mercury	7815-09-17 06:14 G	4575688.71	4575688.76	4575688.83	0.0134	0.0120	
Mercury	7815-12-14 09:50 G	4575776.83	4575776.91	4575777.01	0.0134	0.0102	
Earth	7816-01-14 01:11 G	4575807.30	4575807.55	4575807.81	0.0134	0.0022	
Moon	7816-01-14 04:04 G	4575807.42	4575807.67	4575807.93	0.0134	0.0020	*
Mercury	7816-03-11 13:11 G	4575864.95	4575865.05	4575865.17	0.0134	0.0085	
Mercury	7816-06-07 16:48 G	4575953.08	4575953.20	4575953.32	0.0134	0.0067	
Mercury	7816-09-03 20:09 G	4576041.22	4576041.34	4576041.47	0.0134	0.0050	
Mercury	7816-11-30 23:45 G	4576129.35	4576129.49	4576129.62	0.0134	0.0032	
Moon	7817-01-17 06:43 G	4576176.56	4576176.78	4576177.01	0.0134	0.0060	
Earth	7817-01-17 09:07 G	4576176.65	4576176.88	4576177.12	0.0134	0.0056	*
Mercury	7817-02-27 03:07 G	4576217.49	4576217.63	4576217.76	0.0134	0.0015	
Mercury	7817-05-26 06:28 G	4576305.63	4576305.77	4576305.90	0.0134	0.0004	
Mercury	7817-08-22 09:36 G	4576393.77	4576393.90	4576394.04	0.0134	0.0020	
Mercury	7817-11-18 12:57 G	4576481.91	4576482.04	4576482.18	0.0134	0.0037	
Earth	7818-01-21 16:48 G	4576546.02	4576546.20	4576546.40	0.0134	0.0090	
Moon	7818-01-21 19:40 G	4576546.14	4576546.32	4576546.54	0.0134	0.0084	*
Mercury	7818-02-14 16:19 G	4576570.06	4576570.18	4576570.31	0.0134	0.0054	
Mercury	7818-05-13 19:40 G	4576658.20	4576658.32	4576658.44	0.0134	0.0071	
Mercury	7818-08-09 23:02 G	4576746.35	4576746.46	4576746.56	0.0134	0.0088	
Mercury	7818-11-06 02:09 G	4576834.51	4576834.59	4576834.68	0.0135	0.0105	
Moon	7819-01-25 22:04 G	4576915.39	4576915.42	4576915.50	0.0135	0.0132	
Earth	7819-01-26 00:57 G	4576915.46	4576915.54	4576915.65	0.0135	0.0124	*
Mercury	7819-02-02 05:16 G	4576922.67	4576922.72	4576922.78	0.0135	0.0122	
Venus	7820-04-10 15:21 G	4577356.03	4577356.14	4577356.27	0.0135	0.0112	
Venus	7820-11-22 21:50 G	4577582.23	4577582.41	4577582.60	0.0135	0.0069	
Venus	7821-07-07 04:04 G	4577808.46	4577808.67	4577808.89	0.0135	0.0026	
Venus	7822-02-18 10:33 G	4578034.73	4578034.94	4578035.16	0.0136	0.0018	
Venus	7822-10-02 17:02 G	4578261.02	4578261.21	4578261.41	0.0136	0.0062	
Venus	7823-05-16 23:31 G	4578487.36	4578487.48	4578487.63	0.0136	0.0106	

Mars	7848-08-06 01:26 G	4587700.30	4587700.56	4587700.86	0.0145	0.0080
Mars	7850-07-15 01:55 G	4588408.32	4588408.58	4588408.88	0.0145	0.0082
Earth	7853-06-26 06:57 G	4589485.64	4589485.79	4589485.95	0.0145	0.0116
Moon	7853-06-26 10:19 G	4589485.80	4589485.93	4589486.07	0.0145	0.0123 *
Moon	7854-07-01 04:48 G	4589855.48	4589855.70	4589855.94	0.0145	0.0065
Earth	7854-07-01 07:40 G	4589855.61	4589855.82	4589856.05	0.0145	0.0073 *
Earth	7855-07-06 08:38 G	4590225.61	4590225.86	4590226.11	0.0145	0.0029
Moon	7855-07-06 11:16 G	4590225.74	4590225.97	4590226.22	0.0145	0.0035 *
Moon	7856-07-10 07:26 G	4590595.55	4590595.81	4590596.07	0.0145	0.0015
Earth	7856-07-10 09:21 G	4590595.64	4590595.89	4590596.14	0.0145	0.0014 *
Mercury	7856-09-30 15:36 G	4590678.10	4590678.15	4590678.21	0.0145	0.0137
Mercury	7856-12-27 22:33 G	4590766.34	4590766.44	4590766.57	0.0145	0.0110
Mercury	7857-03-26 06:00 G	4590854.60	4590854.75	4590854.90	0.0145	0.0082
Mercury	7857-06-22 13:11 G	4590942.89	4590943.05	4590943.22	0.0144	0.0054
Earth	7857-07-15 09:36 G	4590965.67	4590965.90	4590966.14	0.0144	0.0058
Moon	7857-07-15 11:16 G	4590965.75	4590965.97	4590966.20	0.0144	0.0062 *
Mercury	7857-09-18 20:38 G	4591031.18	4591031.36	4591031.54	0.0144	0.0026
Mercury	7857-12-16 03:50 G	4591119.48	4591119.66	4591119.84	0.0144	0.0004
Mercury	7858-03-14 11:16 G	4591207.79	4591207.97	4591208.15	0.0144	0.0031
Mercury	7858-06-10 18:43 G	4591296.12	4591296.28	4591296.45	0.0144	0.0059
Moon	7858-07-20 08:38 G	4591335.68	4591335.86	4591336.07	0.0144	0.0094
Earth	7858-07-20 09:50 G	4591335.73	4591335.91	4591336.10	0.0144	0.0100 *
Mercury	7858-09-07 01:55 G	4591384.45	4591384.58	4591384.74	0.0144	0.0089
Mercury	7858-12-04 09:21 G	4591472.80	4591472.89	4591473.01	0.0144	0.0117
Earth	7859-07-25 09:21 G	4591705.87	4591705.89	4591705.95	0.0144	0.0142
Venus	7860-07-27 03:36 G	4592073.53	4592073.65	4592073.80	0.0143	0.0111
Venus	7861-03-10 14:52 G	4592299.93	4592300.12	4592300.33	0.0143	0.0059
Venus	7861-10-23 01:55 G	4592526.37	4592526.58	4592526.80	0.0143	0.0008
Venus	7862-06-06 12:57 G	4592752.84	4592753.04	4592753.25	0.0143	0.0045
Venus	7863-01-18 23:31 G	4592979.33	4592979.48	4592979.65	0.0142	0.0096

Jupiter	7881-05-06 23:45 G	4599662.06	4599662.49	4599662.98	0.0135	0.0058
Mars	7889-01-12 00:28 G	4602469.41	4602469.52	4602469.68	0.0133	0.0117
Mars	7890-12-11 18:14 G	4603167.99	4603168.26	4603168.54	0.0133	0.0020
Mars	7892-11-09 09:50 G	4603866.69	4603866.91	4603867.15	0.0133	0.0077
Earth	7895-12-29 05:45 G	4605011.62	4605011.74	4605011.91	0.0133	0.0109
Moon	7895-12-29 07:55 G	4605011.72	4605011.83	4605011.97	0.0133	0.0116 *
Moon	7897-01-01 12:28 G	4605380.82	4605381.02	4605381.24	0.0133	0.0069
Earth	7897-01-01 13:55 G	4605380.88	4605381.08	4605381.30	0.0133	0.0076 *
Earth	7898-01-05 21:36 G	4605750.16	4605750.40	4605750.65	0.0133	0.0042
Moon	7898-01-05 23:31 G	4605750.25	4605750.48	4605750.74	0.0133	0.0046 *
Moon	7899-01-10 03:36 G	4606119.40	4606119.65	4606119.90	0.0134	0.0006
Earth	7899-01-10 05:31 G	4606119.48	4606119.73	4606119.99	0.0134	0.0008 *
Mercury	7899-07-11 10:33 G	4606301.92	4606301.94	4606301.96	0.0134	0.0131
Mercury	7899-10-07 13:55 G	4606390.01	4606390.08	4606390.16	0.0134	0.0114
Mercury	7900-01-03 17:31 G	4606478.13	4606478.23	4606478.32	0.0134	0.0096
Earth	7900-01-14 13:11 G	4606488.81	4606489.05	4606489.30	0.0134	0.0027
Moon	7900-01-14 15:21 G	4606488.88	4606489.14	4606489.40	0.0134	0.0028 *
Mercury	7900-04-01 20:52 G	4606566.26	4606566.37	4606566.48	0.0134	0.0079
Mercury	7900-06-29 00:14 G	4606654.39	4606654.51	4606654.64	0.0134	0.0061
Mercury	7900-09-25 03:36 G	4606742.53	4606742.65	4606742.79	0.0134	0.0044
Mercury	7900-12-22 07:11 G	4606830.66	4606830.80	4606830.93	0.0134	0.0027
Moon	7901-01-18 18:28 G	4606858.05	4606858.27	4606858.50	0.0134	0.0056
Earth	7901-01-18 20:52 G	4606858.15	4606858.37	4606858.61	0.0134	0.0061 *
Mercury	7901-03-20 10:33 G	4606918.80	4606918.94	4606919.08	0.0134	0.0009
Mercury	7901-06-16 13:55 G	4607006.94	4607007.08	4607007.22	0.0134	0.0008
Mercury	7901-09-12 17:16 G	4607095.08	4607095.22	4607095.35	0.0134	0.0025
Mercury	7901-12-09 20:38 G	4607183.23	4607183.36	4607183.49	0.0134	0.0042
Earth	7902-01-23 05:02 G	4607227.54	4607227.71	4607227.89	0.0134	0.0095
Moon	7902-01-23 07:11 G	4607227.63	4607227.80	4607227.98	0.0134	0.0101 *
Mercury	7902-03-07 23:45 G	4607271.37	4607271.49	4607271.62	0.0134	0.0060

Mercury	7902-06-04 03:07 G	4607359.52	4607359.63	4607359.74	0.0134	0.0076
Mercury	7902-08-31 06:14 G	4607447.67	4607447.76	4607447.87	0.0135	0.0094
Mercury	7902-11-27 09:36 G	4607535.83	4607535.90	4607535.98	0.0135	0.0110
Moon	7903-01-27 11:02 G	4607596.86	4607596.96	4607597.06	0.0135	0.0122
Earth	7903-01-27 13:11 G	4607596.99	4607597.05	4607597.14	0.0135	0.0129 *
Mercury	7903-02-23 12:43 G	4607624.00	4607624.03	4607624.08	0.0135	0.0128
Venus	7903-12-11 02:09 G	4607914.55	4607914.59	4607914.66	0.0135	0.0130
Venus	7904-07-24 08:23 G	4608140.69	4608140.85	4608141.02	0.0135	0.0087
Venus	7905-03-07 14:38 G	4608366.91	4608367.11	4608367.32	0.0135	0.0044
Venus	7905-10-19 21:21 G	4608593.17	4608593.39	4608593.60	0.0135	0.0002
Venus	7906-06-03 03:36 G	4608819.45	4608819.65	4608819.87	0.0136	0.0044
Venus	7907-01-15 10:19 G	4609045.77	4609045.93	4609046.10	0.0136	0.0087
Venus	7907-08-29 17:02 G	4609272.16	4609272.21	4609272.27	0.0136	0.0132
Mars	7933-04-04 01:11 G	4618621.21	4618621.55	4618621.89	0.0145	0.0014
Earth	7937-06-27 18:57 G	4620167.15	4620167.29	4620167.46	0.0145	0.0112
Moon	7937-06-27 22:33 G	4620167.28	4620167.44	4620167.62	0.0145	0.0105 *
Moon	7938-07-02 16:33 G	4620536.98	4620537.19	4620537.41	0.0145	0.0076
Earth	7938-07-02 19:55 G	4620537.12	4620537.33	4620537.56	0.0145	0.0069 *
Earth	7939-07-07 20:38 G	4620907.11	4620907.36	4620907.61	0.0145	0.0025
Moon	7939-07-07 23:31 G	4620907.23	4620907.48	4620907.73	0.0145	0.0020 *
Moon	7940-07-11 18:28 G	4621277.01	4621277.27	4621277.53	0.0145	0.0017
Earth	7940-07-11 21:21 G	4621277.14	4621277.39	4621277.65	0.0145	0.0019 *
Mercury	7940-10-21 23:31 G	4621379.40	4621379.48	4621379.56	0.0145	0.0128
Mercury	7941-01-18 06:28 G	4621467.65	4621467.77	4621467.91	0.0145	0.0101
Mercury	7941-04-16 13:55 G	4621555.92	4621556.08	4621556.23	0.0144	0.0073
Mercury	7941-07-13 21:07 G	4621644.21	4621644.38	4621644.55	0.0144	0.0045
Earth	7941-07-16 21:36 G	4621647.18	4621647.40	4621647.64	0.0144	0.0062
Moon	7941-07-16 23:31 G	4621647.26	4621647.48	4621647.71	0.0144	0.0059 *
Mercury	7941-10-10 04:19 G	4621732.50	4621732.68	4621732.86	0.0144	0.0017
Mercury	7942-01-06 11:45 G	4621820.81	4621820.99	4621821.17	0.0144	0.0011

Mercury	7942-04-04 18:57 G	4621909.12	4621909.29	4621909.47	0.0144	0.0040
Mercury	7942-07-02 02:23 G	4621997.45	4621997.60	4621997.77	0.0144	0.0068
Moon	7942-07-21 19:55 G	4622017.18	4622017.33	4622017.51	0.0144	0.0111
Earth	7942-07-21 21:21 G	4622017.24	4622017.39	4622017.58	0.0144	0.0105 *
Mercury	7942-09-28 09:50 G	4622085.78	4622085.91	4622086.05	0.0144	0.0097
Mercury	7942-12-25 17:16 G	4622174.14	4622174.22	4622174.32	0.0144	0.0126
Moon	7943-07-26 22:19 G	4622387.39	4622387.43	4622387.50	0.0144	0.0140
Venus	7944-03-27 11:31 G	4622631.91	4622631.98	4622632.07	0.0144	0.0133
Venus	7944-11-08 22:33 G	4622858.28	4622858.44	4622858.64	0.0143	0.0082
Venus	7945-06-23 10:04 G	4623084.71	4623084.92	4623085.13	0.0143	0.0029
Venus	7946-02-04 20:52 G	4623311.16	4623311.37	4623311.59	0.0143	0.0023
Venus	7946-09-19 07:40 G	4623537.64	4623537.82	4623538.01	0.0143	0.0074
Venus	7947-05-03 18:14 G	4623764.17	4623764.26	4623764.38	0.0142	0.0125
Mars	7973-09-07 04:33 G	4633387.48	4633387.69	4633387.94	0.0133	0.0076
Mars	7975-08-06 20:52 G	4634086.09	4634086.37	4634086.65	0.0133	0.0021
Mars	7977-07-05 12:57 G	4634784.92	4634785.04	4634785.19	0.0133	0.0117
Earth	7979-12-30 18:00 G	4635693.10	4635693.25	4635693.41	0.0133	0.0105
Moon	7979-12-30 18:57 G	4635693.11	4635693.29	4635693.47	0.0133	0.0099 *
Moon	7981-01-03 00:00 G	4636062.31	4636062.50	4636062.71	0.0133	0.0078
Earth	7981-01-03 01:26 G	4636062.36	4636062.56	4636062.79	0.0133	0.0072 *
Earth	7982-01-07 09:07 G	4636431.65	4636431.88	4636432.14	0.0133	0.0039
Moon	7982-01-07 10:33 G	4636431.69	4636431.94	4636432.20	0.0133	0.0033 *
Moon	7983-01-11 15:50 G	4636800.91	4636801.16	4636801.41	0.0134	0.0006
Earth	7983-01-11 17:16 G	4636800.97	4636801.22	4636801.48	0.0134	0.0004 *
Mercury	7983-08-01 17:45 G	4637003.20	4637003.24	4637003.30	0.0134	0.0126
Mercury	7983-10-28 21:21 G	4637091.31	4637091.39	4637091.48	0.0134	0.0108
Earth	7984-01-16 00:43 G	4637170.29	4637170.53	4637170.79	0.0134	0.0031
Moon	7984-01-16 02:52 G	4637170.36	4637170.62	4637170.88	0.0134	0.0029 *
Mercury	7984-01-25 00:43 G	4637179.44	4637179.53	4637179.64	0.0134	0.0091
Mercury	7984-04-22 04:19 G	4637267.57	4637267.68	4637267.80	0.0134	0.0073

Mercury	7984-07-19 07:40 G	4637355.70	4637355.82	4637355.95	0.0134	0.0056
Mercury	7984-10-15 11:16 G	4637443.83	4637443.97	4637444.10	0.0134	0.0038
Mercury	7985-01-11 14:38 G	4637531.97	4637532.11	4637532.25	0.0134	0.0021
Moon	7985-01-19 07:11 G	4637539.60	4637539.80	4637540.03	0.0134	0.0068
Earth	7985-01-19 08:38 G	4637539.65	4637539.86	4637540.10	0.0134	0.0065 *
Mercury	7985-04-09 18:00 G	4637620.11	4637620.25	4637620.39	0.0134	0.0004
Mercury	7985-07-06 21:21 G	4637708.25	4637708.39	4637708.53	0.0134	0.0014
Mercury	7985-10-03 00:43 G	4637796.39	4637796.53	4637796.66	0.0134	0.0031
Mercury	7985-12-30 03:50 G	4637884.54	4637884.66	4637884.80	0.0134	0.0048
Earth	7986-01-23 16:33 G	4637909.04	4637909.19	4637909.38	0.0134	0.0100
Moon	7986-01-23 18:57 G	4637909.11	4637909.29	4637909.49	0.0134	0.0093 *
Mercury	7986-03-28 07:11 G	4637972.69	4637972.80	4637972.93	0.0134	0.0065
Mercury	7986-06-24 10:33 G	4638060.84	4638060.94	4638061.05	0.0134	0.0082
Mercury	7986-09-20 13:40 G	4638148.99	4638149.07	4638149.17	0.0134	0.0100
Mercury	7986-12-17 17:16 G	4638237.15	4638237.22	4638237.28	0.0135	0.0116
Earth	7987-01-28 01:11 G	4638278.52	4638278.55	4638278.60	0.0135	0.0133
Mercury	7987-03-15 20:23 G	4638325.34	4638325.35	4638325.37	0.0135	0.0133
Venus	7988-03-23 18:43 G	4638699.16	4638699.28	4638699.43	0.0135	0.0105
Venus	7988-11-05 01:11 G	4638925.37	4638925.55	4638925.75	0.0135	0.0062
Venus	7989-06-19 07:55 G	4639151.61	4639151.83	4639152.04	0.0135	0.0019
Venus	7990-01-31 14:09 G	4639377.88	4639378.09	4639378.31	0.0136	0.0025
Venus	7990-09-14 20:38 G	4639604.18	4639604.36	4639604.56	0.0136	0.0069
Venus	7991-04-29 03:21 G	4639830.53	4639830.64	4639830.77	0.0136	0.0113

9TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 9th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	8015-12-22 23:45	G	4648834.28	4648834.49	4648834.72	0.0145	0.0110	
Mars	8017-11-29 23:02	G	4649542.15	4649542.46	4649542.79	0.0145	0.0050	
Earth	8021-06-28 06:00	G	4650848.60	4650848.75	4650848.93	0.0145	0.0108	
Moon	8021-06-28 09:36	G	4650848.76	4650848.90	4650849.06	0.0145	0.0114	*
Moon	8022-07-03 03:07	G	4651218.41	4651218.63	4651218.88	0.0145	0.0057	
Earth	8022-07-03 06:28	G	4651218.56	4651218.77	4651219.01	0.0145	0.0065	*
Earth	8023-07-08 07:11	G	4651588.56	4651588.80	4651589.06	0.0145	0.0021	
Moon	8023-07-08 10:48	G	4651588.71	4651588.95	4651589.20	0.0145	0.0027	*
Moon	8024-07-12 05:02	G	4651958.46	4651958.71	4651958.97	0.0145	0.0025	
Earth	8024-07-12 07:55	G	4651958.58	4651958.83	4651959.08	0.0145	0.0023	*
Mercury	8024-11-11 06:28	G	4652080.69	4652080.77	4652080.88	0.0145	0.0122	
Mercury	8025-02-07 13:55	G	4652168.95	4652169.08	4652169.22	0.0144	0.0094	
Mercury	8025-05-06 20:52	G	4652257.22	4652257.37	4652257.54	0.0144	0.0067	
Earth	8025-07-17 07:40	G	4652328.61	4652328.82	4652329.06	0.0144	0.0067	
Moon	8025-07-17 10:19	G	4652328.73	4652328.93	4652329.16	0.0144	0.0070	*
Mercury	8025-08-03 04:19	G	4652345.51	4652345.68	4652345.86	0.0144	0.0038	
Mercury	8025-10-30 11:45	G	4652433.81	4652433.99	4652434.17	0.0144	0.0010	
Mercury	8026-01-26 18:57	G	4652522.11	4652522.29	4652522.47	0.0144	0.0018	
Mercury	8026-04-25 02:23	G	4652610.43	4652610.60	4652610.77	0.0144	0.0047	
Moon	8026-07-22 05:45	G	4652698.57	4652698.74	4652698.93	0.0144	0.0103	
Earth	8026-07-22 07:40	G	4652698.67	4652698.82	4652699.00	0.0144	0.0109	*
Mercury	8026-07-22 09:36	G	4652698.75	4652698.90	4652699.06	0.0144	0.0075	*
Mercury	8026-10-18 17:02	G	4652787.10	4652787.21	4652787.35	0.0144	0.0104	
Mercury	8027-01-15 00:43	G	4652875.46	4652875.53	4652875.60	0.0144	0.0132	
Venus	8028-07-09 05:31	G	4653416.59	4653416.73	4653416.88	0.0143	0.0105	
Venus	8029-02-20 16:33	G	4653643.00	4653643.19	4653643.40	0.0143	0.0053	

Venus	8029-10-05 03:50 G	4653869.44	4653869.66	4653869.88	0.0143	0.0001
Venus	8030-05-19 14:52 G	4654095.92	4654096.12	4654096.32	0.0143	0.0050
Venus	8031-01-01 01:11 G	4654322.42	4654322.55	4654322.72	0.0142	0.0102
Mars	8058-05-02 05:31 G	4664305.47	4664305.73	4664306.01	0.0133	0.0037
Mars	8060-03-30 22:04 G	4665004.18	4665004.42	4665004.68	0.0133	0.0060
Moon	8062-12-26 20:38 G	4666005.33	4666005.36	4666005.43	0.0133	0.0131
Earth	8063-12-31 04:48 G	4666374.54	4666374.70	4666374.87	0.0133	0.0101
Moon	8063-12-31 05:16 G	4666374.58	4666374.72	4666374.89	0.0133	0.0108 *
Moon	8065-01-03 12:14 G	4666743.80	4666744.01	4666744.23	0.0133	0.0061
Earth	8065-01-03 12:14 G	4666743.81	4666744.01	4666744.25	0.0133	0.0068 *
Earth	8066-01-07 20:23 G	4667113.10	4667113.35	4667113.59	0.0133	0.0034
Moon	8066-01-07 21:07 G	4667113.13	4667113.38	4667113.64	0.0133	0.0038 *
Moon	8067-01-12 03:07 G	4667482.39	4667482.63	4667482.88	0.0134	0.0004
Earth	8067-01-12 04:04 G	4667482.41	4667482.67	4667482.92	0.0134	0.0001 *
Mercury	8067-08-22 01:11 G	4667704.50	4667704.55	4667704.61	0.0134	0.0121
Mercury	8067-11-18 04:48 G	4667792.61	4667792.70	4667792.79	0.0134	0.0103
Earth	8068-01-16 11:45 G	4667851.75	4667851.99	4667852.24	0.0134	0.0035
Moon	8068-01-16 12:28 G	4667851.78	4667852.02	4667852.29	0.0134	0.0035 *
Mercury	8068-02-14 08:09 G	4667880.74	4667880.84	4667880.95	0.0134	0.0086
Mercury	8068-05-12 11:45 G	4667968.87	4667968.99	4667969.11	0.0134	0.0068
Mercury	8068-08-08 15:07 G	4668057.00	4668057.13	4668057.26	0.0134	0.0051
Mercury	8068-11-04 18:28 G	4668145.14	4668145.27	4668145.41	0.0134	0.0033
Moon	8069-01-19 18:14 G	4668221.05	4668221.26	4668221.48	0.0134	0.0065
Earth	8069-01-19 19:26 G	4668221.11	4668221.31	4668221.54	0.0134	0.0069 *
Mercury	8069-01-31 21:50 G	4668233.27	4668233.41	4668233.55	0.0134	0.0016
Mercury	8069-04-30 01:11 G	4668321.41	4668321.55	4668321.69	0.0134	0.0003
Mercury	8069-07-27 04:33 G	4668409.56	4668409.69	4668409.83	0.0134	0.0019
Mercury	8069-10-23 07:55 G	4668497.70	4668497.83	4668497.97	0.0134	0.0036
Mercury	8070-01-19 11:16 G	4668585.85	4668585.97	4668586.10	0.0134	0.0053
Earth	8070-01-24 03:36 G	4668590.51	4668590.65	4668590.83	0.0134	0.0103

Moon	8070-01-24 04:33 G	4668590.56	4668590.69	4668590.86	0.0134	0.0109 *
Mercury	8070-04-17 14:23 G	4668673.99	4668674.10	4668674.23	0.0134	0.0071
Mercury	8070-07-14 17:45 G	4668762.15	4668762.24	4668762.35	0.0134	0.0087
Mercury	8070-10-10 21:21 G	4668850.30	4668850.39	4668850.47	0.0134	0.0104
Mercury	8071-01-07 00:28 G	4668938.47	4668938.52	4668938.58	0.0135	0.0121
Moon	8071-01-28 10:48 G	4668959.90	4668959.95	4668960.01	0.0135	0.0131
Venus	8071-11-22 05:16 G	4669257.64	4669257.72	4669257.81	0.0135	0.0123
Venus	8072-07-05 11:02 G	4669483.81	4669483.96	4669484.15	0.0135	0.0081
Venus	8073-02-16 17:45 G	4669710.03	4669710.24	4669710.45	0.0135	0.0037
Venus	8073-10-01 00:14 G	4669936.29	4669936.51	4669936.73	0.0135	0.0006
Venus	8074-05-15 06:43 G	4670162.58	4670162.78	4670162.99	0.0136	0.0050
Venus	8074-12-27 13:11 G	4670388.91	4670389.05	4670389.22	0.0136	0.0094
Mars	8100-08-19 18:43 G	4679754.97	4679755.28	4679755.61	0.0145	0.0047
Mars	8102-07-28 18:28 G	4680463.08	4680463.27	4680463.51	0.0145	0.0113
Earth	8105-06-29 16:33 G	4681530.02	4681530.19	4681530.37	0.0145	0.0104
Moon	8105-06-29 19:55 G	4681530.16	4681530.33	4681530.53	0.0145	0.0098 *
Moon	8106-07-04 13:11 G	4681899.85	4681900.05	4681900.29	0.0145	0.0069
Earth	8106-07-04 17:02 G	4681899.99	4681900.21	4681900.45	0.0145	0.0061 *
Earth	8107-07-09 17:31 G	4682269.98	4682270.23	4682270.49	0.0145	0.0017
Moon	8107-07-09 20:52 G	4682270.13	4682270.37	4682270.63	0.0145	0.0012 *
Moon	8108-07-13 14:23 G	4682639.85	4682640.10	4682640.36	0.0145	0.0024
Earth	8108-07-13 18:00 G	4682640.01	4682640.25	4682640.51	0.0145	0.0027 *
Mercury	8108-09-05 06:57 G	4682693.76	4682693.79	4682693.83	0.0145	0.0142
Mercury	8108-12-02 13:55 G	4682781.98	4682782.08	4682782.20	0.0145	0.0115
Mercury	8109-02-28 21:21 G	4682870.24	4682870.39	4682870.53	0.0144	0.0087
Mercury	8109-05-28 04:19 G	4682958.52	4682958.68	4682958.85	0.0144	0.0059
Earth	8109-07-18 18:00 G	4683010.04	4683010.25	4683010.48	0.0144	0.0071
Moon	8109-07-18 21:07 G	4683010.16	4683010.38	4683010.60	0.0144	0.0069 *
Mercury	8109-08-24 11:31 G	4683046.81	4683046.98	4683047.16	0.0144	0.0032
Mercury	8109-11-20 18:57 G	4683135.11	4683135.29	4683135.47	0.0144	0.0003

Mercury	8110-02-17 02:09 G	4683223.42	4683223.59	4683223.77	0.0144	0.0025
Mercury	8110-05-16 09:36 G	4683311.73	4683311.90	4683312.07	0.0144	0.0053
Moon	8110-07-23 15:07 G	4683380.00	4683380.13	4683380.29	0.0144	0.0119
Earth	8110-07-23 18:00 G	4683380.11	4683380.25	4683380.42	0.0144	0.0113 *
Mercury	8110-08-12 16:48 G	4683400.06	4683400.20	4683400.36	0.0144	0.0082
Mercury	8110-11-09 00:14 G	4683488.41	4683488.51	4683488.64	0.0144	0.0111
Mercury	8111-02-05 07:55 G	4683576.79	4683576.83	4683576.88	0.0144	0.0139
Venus	8112-03-09 12:14 G	4683974.92	4683975.01	4683975.11	0.0143	0.0129
Venus	8112-10-21 23:16 G	4684201.30	4684201.47	4684201.67	0.0143	0.0077
Venus	8113-06-05 10:48 G	4684427.74	4684427.95	4684428.17	0.0143	0.0025
Venus	8114-01-17 21:50 G	4684654.20	4684654.41	4684654.63	0.0143	0.0027
Venus	8114-09-01 08:38 G	4684880.68	4684880.86	4684881.05	0.0143	0.0078
Venus	8115-04-15 19:11 G	4685107.22	4685107.30	4685107.40	0.0142	0.0128
Mars	8141-01-26 14:38 G	4694524.91	4694525.11	4694525.31	0.0133	0.0094
Mars	8142-12-26 08:09 G	4695223.56	4695223.84	4695224.13	0.0133	0.0004
Mars	8144-11-24 01:40 G	4695922.40	4695922.57	4695922.77	0.0133	0.0099
Earth	8146-12-28 07:26 G	4696686.80	4696686.81	4696686.88	0.0133	0.0132
Moon	8148-01-01 15:07 G	4697055.95	4697056.13	4697056.33	0.0133	0.0091
Earth	8148-01-01 15:50 G	4697055.99	4697056.16	4697056.34	0.0133	0.0098 *
Moon	8149-01-04 23:02 G	4697425.26	4697425.46	4697425.68	0.0133	0.0070
Earth	8149-01-04 23:31 G	4697425.26	4697425.48	4697425.70	0.0133	0.0064 *
Moon	8150-01-09 07:11 G	4697794.54	4697794.80	4697795.06	0.0133	0.0024
Earth	8150-01-09 07:11 G	4697794.55	4697794.80	4697795.05	0.0133	0.0030 *
Moon	8151-01-13 14:52 G	4698163.87	4698164.12	4698164.36	0.0134	0.0002
Earth	8151-01-13 15:07 G	4698163.87	4698164.13	4698164.38	0.0134	0.0005 *
Mercury	8151-06-16 05:02 G	4698317.71	4698317.71	4698317.72	0.0134	0.0133
Mercury	8151-09-12 08:23 G	4698405.79	4698405.85	4698405.93	0.0134	0.0116
Mercury	8151-12-09 12:00 G	4698493.91	4698494.00	4698494.10	0.0134	0.0098
Earth	8152-01-17 22:33 G	4698533.21	4698533.44	4698533.69	0.0134	0.0039
Moon	8152-01-17 23:16 G	4698533.22	4698533.47	4698533.73	0.0134	0.0039 *

Mercury	8152-03-06 15:21 G	4698582.04	4698582.14	4698582.26	0.0134	0.0081
Mercury	8152-06-02 18:57 G	4698670.17	4698670.29	4698670.42	0.0134	0.0063
Mercury	8152-08-29 22:19 G	4698758.30	4698758.43	4698758.57	0.0134	0.0046
Mercury	8152-11-26 01:55 G	4698846.44	4698846.58	4698846.71	0.0134	0.0028
Moon	8153-01-21 06:14 G	4698902.57	4698902.76	4698902.98	0.0134	0.0076
Earth	8153-01-21 06:43 G	4698902.57	4698902.78	4698903.00	0.0134	0.0073 *
Mercury	8153-02-22 05:16 G	4698934.58	4698934.72	4698934.86	0.0134	0.0011
Mercury	8153-05-21 08:38 G	4699022.72	4699022.86	4699023.00	0.0134	0.0006
Mercury	8153-08-17 12:00 G	4699110.86	4699111.00	4699111.14	0.0134	0.0024
Mercury	8153-11-13 15:07 G	4699199.01	4699199.13	4699199.27	0.0134	0.0042
Earth	8154-01-25 15:07 G	4699271.98	4699272.13	4699272.28	0.0134	0.0108
Moon	8154-01-25 15:36 G	4699272.01	4699272.15	4699272.35	0.0134	0.0103 *
Mercury	8154-02-09 18:28 G	4699287.15	4699287.27	4699287.40	0.0134	0.0058
Mercury	8154-05-08 21:50 G	4699375.30	4699375.41	4699375.53	0.0134	0.0075
Mercury	8154-08-05 01:11 G	4699463.46	4699463.55	4699463.65	0.0134	0.0092
Mercury	8154-11-01 04:33 G	4699551.61	4699551.69	4699551.77	0.0134	0.0109
Mercury	8155-01-28 07:55 G	4699639.78	4699639.83	4699639.87	0.0135	0.0126
Venus	8156-03-05 21:21 G	4700042.25	4700042.39	4700042.54	0.0135	0.0099
Venus	8156-10-18 03:36 G	4700268.46	4700268.65	4700268.86	0.0135	0.0057
Venus	8157-06-01 10:19 G	4700494.71	4700494.93	4700495.15	0.0135	0.0013
Venus	8158-01-13 16:48 G	4700720.99	4700721.20	4700721.41	0.0135	0.0031
Venus	8158-08-27 23:02 G	4700947.29	4700947.46	4700947.65	0.0136	0.0075
Venus	8159-04-11 06:00 G	4701173.65	4701173.75	4701173.86	0.0136	0.0118
Mars	8183-05-09 15:21 G	4709968.11	4709968.14	4709968.21	0.0145	0.0143
Mars	8185-04-16 12:43 G	4710675.70	4710676.03	4710676.38	0.0145	0.0015
Moon	8188-06-24 21:50 G	4711841.37	4711841.41	4711841.49	0.0145	0.0141
Earth	8188-06-25 01:11 G	4711841.53	4711841.55	4711841.60	0.0145	0.0144
Earth	8189-06-30 01:40 G	4712211.40	4712211.57	4712211.76	0.0145	0.0100
Moon	8189-06-30 04:33 G	4712211.54	4712211.69	4712211.89	0.0145	0.0107 *
Moon	8190-07-04 22:33 G	4712581.21	4712581.44	4712581.68	0.0145	0.0049

Earth	8190-07-05 01:55 G	4712581.36	4712581.58	4712581.83	0.0145	0.0057	*
Earth	8191-07-10 02:38 G	4712951.36	4712951.61	4712951.86	0.0145	0.0013	
Moon	8191-07-10 06:14 G	4712951.51	4712951.76	4712952.01	0.0145	0.0020	*
Moon	8192-07-13 23:16 G	4713321.23	4713321.47	4713321.73	0.0145	0.0035	
Earth	8192-07-14 02:52 G	4713321.38	4713321.62	4713321.87	0.0145	0.0031	*
Mercury	8192-09-25 13:40 G	4713395.03	4713395.07	4713395.14	0.0145	0.0137	
Mercury	8192-12-22 20:52 G	4713483.26	4713483.37	4713483.49	0.0144	0.0109	
Mercury	8193-03-21 04:04 G	4713571.53	4713571.67	4713571.82	0.0144	0.0082	
Mercury	8193-06-17 11:02 G	4713659.80	4713659.96	4713660.14	0.0144	0.0055	
Earth	8193-07-19 02:38 G	4713691.40	4713691.61	4713691.84	0.0144	0.0075	
Moon	8193-07-19 06:00 G	4713691.55	4713691.75	4713691.98	0.0144	0.0077	*
Mercury	8193-09-13 18:28 G	4713748.09	4713748.27	4713748.45	0.0144	0.0026	
Mercury	8193-12-11 01:40 G	4713836.39	4713836.57	4713836.76	0.0144	0.0004	
Mercury	8194-03-09 09:07 G	4713924.70	4713924.88	4713925.06	0.0144	0.0030	
Mercury	8194-06-05 16:33 G	4714013.02	4714013.19	4714013.35	0.0144	0.0058	
Moon	8194-07-23 23:16 G	4714061.34	4714061.47	4714061.66	0.0144	0.0113	
Earth	8194-07-24 02:38 G	4714061.48	4714061.61	4714061.77	0.0144	0.0117	*
Mercury	8194-09-01 23:45 G	4714101.35	4714101.49	4714101.64	0.0144	0.0087	
Mercury	8194-11-29 06:57 G	4714189.70	4714189.79	4714189.92	0.0144	0.0116	
Venus	8196-06-21 05:16 G	4714759.58	4714759.72	4714759.88	0.0143	0.0102	
Venus	8197-02-02 16:33 G	4714985.99	4714986.19	4714986.40	0.0143	0.0051	
Venus	8197-09-17 03:50 G	4715212.44	4715212.66	4715212.88	0.0143	0.0001	
Venus	8198-05-01 14:38 G	4715438.92	4715439.11	4715439.32	0.0143	0.0053	
Venus	8198-12-14 01:26 G	4715665.42	4715665.56	4715665.72	0.0142	0.0104	
Mars	8225-09-21 15:21 G	4725442.90	4725443.14	4725443.41	0.0133	0.0055	
Mars	8227-08-21 09:21 G	4726141.64	4726141.89	4726142.17	0.0133	0.0042	
Earth	8230-12-29 17:31 G	4727368.18	4727368.23	4727368.33	0.0133	0.0128	
Moon	8230-12-29 19:11 G	4727368.22	4727368.30	4727368.40	0.0133	0.0123	*
Moon	8232-01-03 01:11 G	4727737.37	4727737.55	4727737.72	0.0133	0.0100	
Earth	8232-01-03 01:26 G	4727737.39	4727737.56	4727737.75	0.0133	0.0094	*

Earth	8233-01-06 09:21 G	4728106.67	4728106.89	4728107.12	0.0133	0.0060
Moon	8233-01-06 10:04 G	4728106.71	4728106.92	4728107.16	0.0133	0.0054 *
Moon	8234-01-10 16:48 G	4728475.94	4728476.20	4728476.46	0.0133	0.0031
Earth	8234-01-10 17:16 G	4728475.97	4728476.22	4728476.47	0.0133	0.0025 *
Earth	8235-01-15 00:57 G	4728845.29	4728845.54	4728845.80	0.0134	0.0009
Moon	8235-01-15 01:26 G	4728845.31	4728845.56	4728845.81	0.0134	0.0013 *
Mercury	8235-07-07 12:14 G	4729018.98	4729019.01	4729019.05	0.0134	0.0129
Mercury	8235-10-03 15:36 G	4729107.08	4729107.15	4729107.23	0.0134	0.0112
Mercury	8235-12-30 19:11 G	4729195.21	4729195.30	4729195.40	0.0134	0.0094
Moon	8236-01-19 08:23 G	4729214.60	4729214.85	4729215.11	0.0134	0.0042
Earth	8236-01-19 08:38 G	4729214.64	4729214.86	4729215.12	0.0134	0.0044 *
Mercury	8236-03-27 22:33 G	4729283.33	4729283.44	4729283.56	0.0134	0.0077
Mercury	8236-06-24 02:09 G	4729371.47	4729371.59	4729371.72	0.0134	0.0059
Mercury	8236-09-20 05:31 G	4729459.60	4729459.73	4729459.87	0.0134	0.0042
Mercury	8236-12-17 09:07 G	4729547.74	4729547.88	4729548.01	0.0134	0.0024
Moon	8237-01-22 17:02 G	4729584.01	4729584.21	4729584.41	0.0134	0.0075
Earth	8237-01-22 16:48 G	4729584.01	4729584.20	4729584.42	0.0134	0.0078 *
Mercury	8237-03-15 12:28 G	4729635.88	4729636.02	4729636.16	0.0134	0.0007
Mercury	8237-06-11 15:50 G	4729724.02	4729724.16	4729724.30	0.0134	0.0011
Mercury	8237-09-07 19:11 G	4729812.17	4729812.30	4729812.44	0.0134	0.0028
Mercury	8237-12-04 22:33 G	4729900.31	4729900.44	4729900.57	0.0134	0.0045
Moon	8238-01-27 00:57 G	4729953.43	4729953.54	4729953.68	0.0134	0.0117
Earth	8238-01-27 01:11 G	4729953.43	4729953.55	4729953.70	0.0134	0.0113 *
Mercury	8238-03-03 01:55 G	4729988.46	4729988.58	4729988.70	0.0134	0.0062
Mercury	8238-05-30 05:02 G	4730076.61	4730076.71	4730076.83	0.0134	0.0080
Mercury	8238-08-26 08:23 G	4730164.76	4730164.85	4730164.95	0.0134	0.0097
Mercury	8238-11-22 11:45 G	4730252.92	4730252.99	4730253.07	0.0135	0.0113
Mercury	8239-02-18 14:52 G	4730341.10	4730341.12	4730341.16	0.0135	0.0131
Venus	8239-11-05 06:57 G	4730600.70	4730600.79	4730600.91	0.0135	0.0119
Venus	8240-06-18 13:11 G	4730826.89	4730827.05	4730827.25	0.0135	0.0076

Venus	8241-01-30 19:55 G	4731053.12	4731053.33	4731053.54	0.0135	0.0032
Venus	8241-09-14 02:09 G	4731279.38	4731279.59	4731279.81	0.0135	0.0011
Venus	8242-04-28 08:38 G	4731505.67	4731505.86	4731506.07	0.0136	0.0055
Venus	8242-12-10 15:07 G	4731732.00	4731732.13	4731732.30	0.0136	0.0099
Mars	8268-01-05 08:38 G	4740888.58	4740888.86	4740889.14	0.0145	0.0082
Mars	8269-12-13 06:28 G	4741596.50	4741596.77	4741597.07	0.0145	0.0076
Moon	8272-06-26 08:09 G	4742522.81	4742522.84	4742522.92	0.0145	0.0141
Earth	8272-06-26 10:33 G	4742522.90	4742522.94	4742523.03	0.0145	0.0140 *
Earth	8273-07-01 10:48 G	4742892.78	4742892.95	4742893.15	0.0145	0.0097
Moon	8273-07-01 14:09 G	4742892.90	4742893.09	4742893.30	0.0145	0.0091 *
Moon	8274-07-06 08:23 G	4743262.62	4743262.85	4743263.07	0.0145	0.0061
Earth	8274-07-06 11:16 G	4743262.75	4743262.97	4743263.22	0.0145	0.0053 *
Earth	8275-07-11 11:45 G	4743632.74	4743632.99	4743633.24	0.0145	0.0009
Moon	8275-07-11 15:21 G	4743632.88	4743633.14	4743633.39	0.0145	0.0003 *
Moon	8276-07-15 07:55 G	4744002.59	4744002.83	4744003.09	0.0145	0.0031
Earth	8276-07-15 11:45 G	4744002.75	4744002.99	4744003.24	0.0145	0.0036 *
Mercury	8276-10-16 20:38 G	4744096.30	4744096.36	4744096.44	0.0145	0.0132
Mercury	8277-01-13 03:36 G	4744184.54	4744184.65	4744184.79	0.0144	0.0105
Mercury	8277-04-11 11:02 G	4744272.81	4744272.96	4744273.11	0.0144	0.0077
Mercury	8277-07-08 18:14 G	4744361.09	4744361.26	4744361.43	0.0144	0.0049
Earth	8277-07-20 11:45 G	4744372.79	4744372.99	4744373.21	0.0144	0.0079
Moon	8277-07-20 15:07 G	4744372.93	4744373.13	4744373.35	0.0144	0.0078 *
Mercury	8277-10-05 01:26 G	4744449.38	4744449.56	4744449.74	0.0144	0.0021
Mercury	8278-01-01 08:38 G	4744537.68	4744537.86	4744538.04	0.0144	0.0008
Mercury	8278-03-30 16:04 G	4744625.99	4744626.17	4744626.35	0.0144	0.0035
Mercury	8278-06-26 23:16 G	4744714.31	4744714.47	4744714.64	0.0144	0.0064
Moon	8278-07-25 08:23 G	4744742.73	4744742.85	4744742.98	0.0144	0.0126
Earth	8278-07-25 11:45 G	4744742.87	4744742.99	4744743.14	0.0144	0.0122 *
Mercury	8278-09-23 06:43 G	4744802.65	4744802.78	4744802.93	0.0144	0.0092
Mercury	8278-12-20 14:09 G	4744891.00	4744891.09	4744891.19	0.0144	0.0121

Venus	8280-02-20 11:02 G	4745317.88	4745317.96	4745318.08	0.0143	0.0128
Venus	8280-10-03 22:33 G	4745544.26	4745544.44	4745544.63	0.0143	0.0076
Venus	8281-05-18 09:50 G	4745770.70	4745770.91	4745771.13	0.0143	0.0024
Venus	8281-12-30 20:52 G	4745997.16	4745997.37	4745997.59	0.0143	0.0028
Venus	8282-08-14 07:55 G	4746223.65	4746223.83	4746224.01	0.0143	0.0079
Venus	8283-03-28 18:28 G	4746450.19	4746450.27	4746450.37	0.0142	0.0129
Mars	8308-06-17 21:36 G	4755662.27	4755662.40	4755662.57	0.0133	0.0112
Mars	8310-05-17 17:31 G	4756360.95	4756361.23	4756361.51	0.0133	0.0015
Mars	8312-04-15 09:36 G	4757059.70	4757059.90	4757060.14	0.0133	0.0081
Earth	8314-12-31 04:04 G	4758049.58	4758049.67	4758049.77	0.0133	0.0124
Moon	8314-12-31 05:31 G	4758049.67	4758049.73	4758049.79	0.0133	0.0129 *
Moon	8316-01-04 09:50 G	4758418.72	4758418.91	4758419.13	0.0133	0.0085
Earth	8316-01-04 11:45 G	4758418.82	4758418.99	4758419.19	0.0133	0.0090 *
Earth	8317-01-07 19:26 G	4758788.09	4758788.31	4758788.56	0.0133	0.0056
Moon	8317-01-07 20:38 G	4758788.15	4758788.36	4758788.59	0.0133	0.0063 *
Moon	8318-01-12 02:09 G	4759157.33	4759157.59	4759157.85	0.0134	0.0015
Earth	8318-01-12 03:36 G	4759157.40	4759157.65	4759157.90	0.0134	0.0022 *
Earth	8319-01-16 11:31 G	4759526.72	4759526.98	4759527.23	0.0134	0.0013
Moon	8319-01-16 12:28 G	4759526.78	4759527.02	4759527.27	0.0134	0.0009 *
Mercury	8319-07-28 19:11 G	4759720.26	4759720.30	4759720.36	0.0134	0.0125
Mercury	8319-10-24 22:48 G	4759808.38	4759808.45	4759808.54	0.0134	0.0107
Moon	8320-01-20 18:28 G	4759896.04	4759896.27	4759896.53	0.0134	0.0049
Earth	8320-01-20 19:11 G	4759896.07	4759896.30	4759896.55	0.0134	0.0048 *
Mercury	8320-01-21 02:09 G	4759896.50	4759896.59	4759896.71	0.0134	0.0090 *
Mercury	8320-04-18 05:45 G	4759984.63	4759984.74	4759984.87	0.0134	0.0072
Mercury	8320-07-15 09:21 G	4760072.77	4760072.89	4760073.02	0.0134	0.0054
Mercury	8320-10-11 12:43 G	4760160.90	4760161.03	4760161.17	0.0134	0.0037
Mercury	8321-01-07 16:19 G	4760249.04	4760249.18	4760249.32	0.0134	0.0019
Earth	8321-01-24 03:36 G	4760265.46	4760265.65	4760265.86	0.0134	0.0082
Moon	8321-01-24 04:48 G	4760265.51	4760265.70	4760265.89	0.0134	0.0084 *

Mercury	8321-04-05 19:40 G	4760337.18	4760337.32	4760337.46	0.0134	0.0003
Mercury	8321-07-02 23:02 G	4760425.33	4760425.46	4760425.60	0.0134	0.0016
Mercury	8321-09-29 02:23 G	4760513.47	4760513.60	4760513.74	0.0134	0.0033
Mercury	8321-12-26 05:45 G	4760601.62	4760601.74	4760601.87	0.0134	0.0050
Moon	8322-01-28 11:31 G	4760634.85	4760634.98	4760635.14	0.0134	0.0112
Earth	8322-01-28 11:45 G	4760634.89	4760634.99	4760635.13	0.0134	0.0117 *
Mercury	8322-03-24 09:07 G	4760689.76	4760689.88	4760690.00	0.0134	0.0067
Mercury	8322-06-20 12:14 G	4760777.92	4760778.01	4760778.13	0.0134	0.0085
Mercury	8322-09-16 15:36 G	4760866.07	4760866.15	4760866.25	0.0134	0.0102
Mercury	8322-12-13 19:11 G	4760954.24	4760954.30	4760954.36	0.0135	0.0118
Venus	8324-02-17 23:02 G	4761385.32	4761385.46	4761385.63	0.0135	0.0095
Venus	8324-10-01 05:16 G	4761611.53	4761611.72	4761611.93	0.0135	0.0052
Venus	8325-05-15 12:00 G	4761837.78	4761838.00	4761838.21	0.0135	0.0009
Venus	8325-12-27 18:28 G	4762064.06	4762064.27	4762064.48	0.0136	0.0035
Venus	8326-08-11 00:43 G	4762290.36	4762290.53	4762290.72	0.0136	0.0079
Venus	8327-03-25 07:26 G	4762516.72	4762516.81	4762516.91	0.0136	0.0122
Mars	8352-09-02 02:52 G	4771809.29	4771809.62	4771809.96	0.0145	0.0019
Mars	8354-08-11 00:57 G	4772517.47	4772517.54	4772517.67	0.0145	0.0139
Moon	8356-06-27 18:14 G	4773204.18	4773204.26	4773204.35	0.0145	0.0136
Earth	8356-06-27 20:38 G	4773204.29	4773204.36	4773204.45	0.0145	0.0137 *
Earth	8357-07-02 20:38 G	4773574.18	4773574.36	4773574.56	0.0145	0.0093
Moon	8357-07-02 23:16 G	4773574.28	4773574.47	4773574.67	0.0145	0.0097 *
Moon	8358-07-07 17:45 G	4773944.01	4773944.24	4773944.49	0.0145	0.0042
Earth	8358-07-07 21:07 G	4773944.14	4773944.38	4773944.62	0.0145	0.0049 *
Earth	8359-07-12 21:07 G	4774314.13	4774314.38	4774314.64	0.0145	0.0005
Moon	8359-07-13 00:28 G	4774314.27	4774314.52	4774314.78	0.0145	0.0013 *
Moon	8360-07-16 17:45 G	4774684.01	4774684.24	4774684.49	0.0145	0.0044
Earth	8360-07-16 21:07 G	4774684.15	4774684.38	4774684.63	0.0145	0.0040 *
Mercury	8360-11-07 03:50 G	4774797.58	4774797.66	4774797.75	0.0144	0.0126
Mercury	8361-02-03 10:48 G	4774885.83	4774885.95	4774886.09	0.0144	0.0098

Mercury	8361-05-02 18:14 G	4774974.10	4774974.26	4774974.41	0.0144	0.0071
Earth	8361-07-21 20:52 G	4775054.18	4775054.37	4775054.59	0.0144	0.0083
Moon	8361-07-22 00:43 G	4775054.34	4775054.53	4775054.75	0.0144	0.0083 *
Mercury	8361-07-30 01:11 G	4775062.38	4775062.55	4775062.73	0.0144	0.0043
Mercury	8361-10-26 08:23 G	4775150.68	4775150.85	4775151.03	0.0144	0.0016
Mercury	8362-01-22 15:50 G	4775238.98	4775239.16	4775239.34	0.0144	0.0013
Mercury	8362-04-20 23:02 G	4775327.29	4775327.46	4775327.64	0.0144	0.0041
Mercury	8362-07-18 06:28 G	4775415.61	4775415.77	4775415.93	0.0144	0.0069
Moon	8362-07-26 17:45 G	4775424.11	4775424.24	4775424.37	0.0144	0.0122
Earth	8362-07-26 20:52 G	4775424.27	4775424.37	4775424.51	0.0144	0.0126 *
Mercury	8362-10-14 13:40 G	4775503.95	4775504.07	4775504.21	0.0144	0.0098
Mercury	8363-01-10 21:07 G	4775592.31	4775592.38	4775592.47	0.0144	0.0127
Venus	8364-06-04 04:48 G	4776102.55	4776102.70	4776102.86	0.0143	0.0101
Venus	8365-01-16 15:50 G	4776328.97	4776329.16	4776329.37	0.0143	0.0049
Venus	8365-08-31 03:07 G	4776555.41	4776555.63	4776555.85	0.0143	0.0003
Venus	8366-04-14 13:55 G	4776781.88	4776782.08	4776782.28	0.0143	0.0054
Venus	8366-11-27 00:28 G	4777008.39	4777008.52	4777008.68	0.0142	0.0105
Mars	8393-02-09 21:36 G	4786580.18	4786580.40	4786580.65	0.0133	0.0072
Mars	8395-01-09 16:04 G	4787278.90	4787279.17	4787279.45	0.0133	0.0024
Mars	8396-12-08 08:23 G	4787977.74	4787977.85	4787977.99	0.0133	0.0119
Earth	8398-12-31 12:43 G	4788730.95	4788731.03	4788731.16	0.0133	0.0122
Moon	8398-12-31 15:21 G	4788731.04	4788731.14	4788731.27	0.0133	0.0119 *
Moon	8400-01-04 19:11 G	4789100.11	4789100.30	4789100.49	0.0133	0.0093
Earth	8400-01-04 20:38 G	4789100.19	4789100.36	4789100.57	0.0133	0.0088 *
Earth	8401-01-08 05:02 G	4789469.48	4789469.71	4789469.95	0.0133	0.0053
Moon	8401-01-08 07:11 G	4789469.57	4789469.80	4789470.04	0.0133	0.0046 *
Moon	8402-01-12 11:02 G	4789838.71	4789838.96	4789839.23	0.0134	0.0025
Earth	8402-01-12 12:57 G	4789838.79	4789839.04	4789839.30	0.0134	0.0018 *
Earth	8403-01-16 20:52 G	4790208.12	4790208.37	4790208.63	0.0134	0.0017
Moon	8403-01-16 22:33 G	4790208.20	4790208.44	4790208.69	0.0134	0.0022 *

Mercury	8403-08-18 02:23 G	4790421.55	4790421.60	4790421.67	0.0134	0.0121
Mercury	8403-11-14 06:00 G	4790509.67	4790509.75	4790509.84	0.0134	0.0103
Moon	8404-01-21 03:07 G	4790577.40	4790577.63	4790577.89	0.0134	0.0049
Earth	8404-01-21 05:02 G	4790577.49	4790577.71	4790577.96	0.0134	0.0052 *
Mercury	8404-02-10 09:36 G	4790597.79	4790597.90	4790598.01	0.0134	0.0085
Mercury	8404-05-08 12:57 G	4790685.93	4790686.04	4790686.17	0.0134	0.0068
Mercury	8404-08-04 16:33 G	4790774.06	4790774.19	4790774.32	0.0134	0.0050
Mercury	8404-10-31 19:55 G	4790862.20	4790862.33	4790862.47	0.0134	0.0033
Earth	8405-01-24 13:40 G	4790946.88	4790947.07	4790947.27	0.0134	0.0086
Moon	8405-01-24 14:38 G	4790946.93	4790947.11	4790947.31	0.0134	0.0085 *
Mercury	8405-01-27 23:31 G	4790950.34	4790950.48	4790950.62	0.0134	0.0015
Mercury	8405-04-26 02:52 G	4791038.48	4791038.62	4791038.76	0.0134	0.0002
Mercury	8405-07-23 06:14 G	4791126.62	4791126.76	4791126.90	0.0134	0.0020
Mercury	8405-10-19 09:36 G	4791214.77	4791214.90	4791215.04	0.0134	0.0037
Mercury	8406-01-15 12:57 G	4791302.92	4791303.04	4791303.17	0.0134	0.0054
Moon	8406-01-28 20:09 G	4791316.27	4791316.34	4791316.46	0.0134	0.0125
Earth	8406-01-28 21:50 G	4791316.32	4791316.41	4791316.54	0.0134	0.0122 *
Mercury	8406-04-13 16:19 G	4791391.07	4791391.18	4791391.30	0.0134	0.0071
Mercury	8406-07-10 19:26 G	4791479.22	4791479.31	4791479.42	0.0134	0.0089
Mercury	8406-10-06 22:48 G	4791567.38	4791567.45	4791567.54	0.0135	0.0106
Mercury	8407-01-03 02:09 G	4791655.54	4791655.59	4791655.65	0.0135	0.0122
Venus	8407-10-18 08:38 G	4791943.75	4791943.86	4791943.98	0.0135	0.0114
Venus	8408-05-31 14:38 G	4792169.94	4792170.11	4792170.31	0.0135	0.0072
Venus	8409-01-12 21:21 G	4792396.17	4792396.39	4792396.60	0.0135	0.0029
Venus	8409-08-27 03:36 G	4792622.43	4792622.65	4792622.87	0.0135	0.0015
Venus	8410-04-10 09:50 G	4792848.72	4792848.91	4792849.12	0.0136	0.0059
Venus	8410-11-22 16:33 G	4793075.06	4793075.19	4793075.34	0.0136	0.0102
Mars	8435-05-23 00:14 G	4802022.32	4802022.51	4802022.75	0.0145	0.0112
Mars	8437-04-29 20:38 G	4802730.05	4802730.36	4802730.69	0.0145	0.0044
Moon	8440-06-28 05:16 G	4803885.64	4803885.72	4803885.82	0.0145	0.0134

Earth	8440-06-28 06:14 G	4803885.69	4803885.76	4803885.88	0.0145	0.0134	*
Earth	8441-07-03 06:28 G	4804255.58	4804255.77	4804255.98	0.0145	0.0090	
Moon	8441-07-03 08:52 G	4804255.68	4804255.87	4804256.10	0.0145	0.0085	*
Moon	8442-07-08 04:19 G	4804625.46	4804625.68	4804625.92	0.0145	0.0053	
Earth	8442-07-08 06:43 G	4804625.55	4804625.78	4804626.03	0.0145	0.0046	*
Earth	8443-07-13 06:57 G	4804995.54	4804995.79	4804996.05	0.0145	0.0003	
Moon	8443-07-13 10:04 G	4804995.67	4804995.92	4804996.18	0.0145	0.0006	*
Moon	8444-07-17 03:36 G	4805365.41	4805365.65	4805365.90	0.0144	0.0037	
Earth	8444-07-17 07:11 G	4805365.56	4805365.80	4805366.04	0.0144	0.0043	*
Mercury	8444-11-27 11:02 G	4805498.87	4805498.96	4805499.06	0.0144	0.0119	
Mercury	8445-02-23 18:14 G	4805587.12	4805587.26	4805587.40	0.0144	0.0092	
Mercury	8445-05-23 01:11 G	4805675.40	4805675.55	4805675.72	0.0144	0.0064	
Earth	8445-07-22 06:57 G	4805735.60	4805735.79	4805736.00	0.0144	0.0087	
Moon	8445-07-22 10:19 G	4805735.74	4805735.93	4805736.15	0.0144	0.0088	*
Mercury	8445-08-19 08:23 G	4805763.68	4805763.85	4805764.03	0.0144	0.0037	
Mercury	8445-11-15 15:50 G	4805851.98	4805852.16	4805852.34	0.0144	0.0009	
Mercury	8446-02-11 23:02 G	4805940.28	4805940.46	4805940.64	0.0144	0.0020	
Mercury	8446-05-11 06:14 G	4806028.59	4806028.76	4806028.93	0.0144	0.0048	
Moon	8446-07-27 02:52 G	4806105.56	4806105.62	4806105.74	0.0144	0.0134	
Earth	8446-07-27 06:43 G	4806105.70	4806105.78	4806105.91	0.0144	0.0130	*
Mercury	8446-08-07 13:40 G	4806116.92	4806117.07	4806117.22	0.0144	0.0076	
Mercury	8446-11-03 20:52 G	4806205.26	4806205.37	4806205.50	0.0144	0.0105	
Mercury	8447-01-31 04:33 G	4806293.63	4806293.69	4806293.76	0.0144	0.0133	
Venus	8448-02-02 11:16 G	4806660.87	4806660.97	4806661.08	0.0143	0.0125	
Venus	8448-09-15 22:19 G	4806887.25	4806887.43	4806887.63	0.0143	0.0074	
Venus	8449-04-30 09:36 G	4807113.69	4807113.90	4807114.12	0.0143	0.0022	
Venus	8449-12-12 20:38 G	4807340.15	4807340.36	4807340.58	0.0143	0.0030	
Venus	8450-07-27 07:26 G	4807566.64	4807566.81	4807566.99	0.0143	0.0081	
Venus	8451-03-10 17:45 G	4807793.18	4807793.24	4807793.34	0.0142	0.0132	
Mars	8475-11-06 02:23 G	4816799.55	4816799.60	4816799.69	0.0133	0.0129	

Mars	8477-10-04 22:48 G	4817498.19	4817498.45	4817498.74	0.0133	0.0033
Mars	8479-09-03 15:50 G	4818196.91	4818197.16	4818197.40	0.0133	0.0064
Earth	8482-12-31 22:19 G	4819412.33	4819412.43	4819412.56	0.0133	0.0119
Moon	8483-01-01 00:43 G	4819412.45	4819412.53	4819412.64	0.0133	0.0123 *
Moon	8484-01-05 03:21 G	4819781.45	4819781.64	4819781.86	0.0133	0.0080
Earth	8484-01-05 06:28 G	4819781.58	4819781.77	4819781.98	0.0133	0.0085 *
Earth	8485-01-08 14:38 G	4820150.88	4820151.11	4820151.35	0.0133	0.0050
Moon	8485-01-08 16:48 G	4820150.98	4820151.20	4820151.43	0.0133	0.0057 *
Moon	8486-01-12 20:09 G	4820520.08	4820520.34	4820520.60	0.0134	0.0008
Earth	8486-01-12 22:33 G	4820520.20	4820520.44	4820520.70	0.0134	0.0016 *
Earth	8487-01-17 06:57 G	4820889.54	4820889.79	4820890.04	0.0134	0.0020
Moon	8487-01-17 09:07 G	4820889.64	4820889.88	4820890.13	0.0134	0.0015 *
Mercury	8487-06-11 06:14 G	4821034.76	4821034.76	4821034.76	0.0134	0.0134
Mercury	8487-09-07 09:36 G	4821122.84	4821122.90	4821122.97	0.0134	0.0116
Mercury	8487-12-04 12:57 G	4821210.96	4821211.04	4821211.15	0.0134	0.0099
Moon	8488-01-21 13:26 G	4821258.82	4821259.06	4821259.29	0.0134	0.0057
Earth	8488-01-21 15:07 G	4821258.91	4821259.13	4821259.37	0.0134	0.0055 *
Mercury	8488-03-01 16:33 G	4821299.09	4821299.19	4821299.31	0.0134	0.0081
Mercury	8488-05-28 20:09 G	4821387.22	4821387.34	4821387.47	0.0134	0.0063
Mercury	8488-08-24 23:31 G	4821475.36	4821475.48	4821475.62	0.0134	0.0046
Mercury	8488-11-21 03:07 G	4821563.50	4821563.63	4821563.77	0.0134	0.0028
Earth	8489-01-24 23:31 G	4821628.31	4821628.48	4821628.68	0.0134	0.0090
Moon	8489-01-25 01:40 G	4821628.40	4821628.57	4821628.77	0.0134	0.0090 *
Mercury	8489-02-17 06:43 G	4821651.64	4821651.78	4821651.91	0.0134	0.0011
Mercury	8489-05-16 10:04 G	4821739.78	4821739.92	4821740.06	0.0134	0.0007
Mercury	8489-08-12 13:26 G	4821827.92	4821828.06	4821828.20	0.0134	0.0024
Mercury	8489-11-08 16:48 G	4821916.07	4821916.20	4821916.33	0.0134	0.0041
Moon	8490-01-29 06:28 G	4821997.68	4821997.77	4821997.90	0.0134	0.0121
Earth	8490-01-29 07:55 G	4821997.77	4821997.83	4821997.95	0.0134	0.0126 *
Mercury	8490-02-04 20:09 G	4822004.22	4822004.34	4822004.47	0.0134	0.0058

Mercury	8490-05-03 23:31 G	4822092.37	4822092.48	4822092.59	0.0134	0.0076
Mercury	8490-07-31 02:52 G	4822180.52	4822180.62	4822180.72	0.0135	0.0093
Mercury	8490-10-27 06:00 G	4822268.68	4822268.75	4822268.84	0.0135	0.0110
Mercury	8491-01-23 09:21 G	4822356.85	4822356.89	4822356.94	0.0135	0.0127
Venus	8491-06-17 17:45 G	4822502.23	4822502.24	4822502.29	0.0135	0.0134
Venus	8492-01-30 00:00 G	4822728.35	4822728.50	4822728.67	0.0135	0.0091
Venus	8492-09-12 06:14 G	4822954.57	4822954.76	4822954.98	0.0135	0.0049
Venus	8493-04-26 12:43 G	4823180.82	4823181.03	4823181.25	0.0135	0.0006
Venus	8493-12-08 19:11 G	4823407.10	4823407.30	4823407.52	0.0136	0.0039
Venus	8494-07-23 01:40 G	4823633.41	4823633.57	4823633.75	0.0136	0.0082
Venus	8495-03-06 08:09 G	4823859.77	4823859.84	4823859.93	0.0136	0.0126
Mars	8520-01-18 18:14 G	4832942.95	4832943.26	4832943.58	0.0145	0.0050
Mars	8521-12-26 15:07 G	4833650.91	4833651.13	4833651.37	0.0145	0.0106
Moon	8524-06-29 15:21 G	4834567.05	4834567.14	4834567.25	0.0145	0.0131
Earth	8524-06-29 16:19 G	4834567.09	4834567.18	4834567.30	0.0145	0.0131 *
Earth	8525-07-04 16:33 G	4834937.00	4834937.19	4834937.40	0.0145	0.0087
Moon	8525-07-04 17:45 G	4834937.05	4834937.24	4834937.46	0.0145	0.0090 *
Moon	8526-07-09 14:38 G	4835306.87	4835307.11	4835307.35	0.0145	0.0036
Earth	8526-07-09 16:48 G	4835306.97	4835307.20	4835307.45	0.0145	0.0043 *
Earth	8527-07-14 17:02 G	4835676.95	4835677.21	4835677.46	0.0145	0.0002
Moon	8527-07-14 19:40 G	4835677.06	4835677.32	4835677.58	0.0145	0.0006 *
Moon	8528-07-18 14:09 G	4836046.86	4836047.09	4836047.33	0.0144	0.0051
Earth	8528-07-18 17:02 G	4836046.98	4836047.21	4836047.46	0.0144	0.0046 *
Mercury	8528-09-21 11:02 G	4836111.93	4836111.96	4836112.02	0.0144	0.0140
Mercury	8528-12-18 18:14 G	4836200.16	4836200.26	4836200.38	0.0144	0.0112
Mercury	8529-03-17 01:11 G	4836288.42	4836288.55	4836288.70	0.0144	0.0085
Mercury	8529-06-13 08:23 G	4836376.69	4836376.85	4836377.02	0.0144	0.0058
Earth	8529-07-23 16:48 G	4836417.02	4836417.20	4836417.41	0.0144	0.0091
Moon	8529-07-23 20:38 G	4836417.17	4836417.36	4836417.57	0.0144	0.0089 *
Mercury	8529-09-09 15:36 G	4836464.98	4836465.15	4836465.33	0.0144	0.0030

Mercury	8529-12-06 23:02 G	4836553.28	4836553.46	4836553.64	0.0144	0.0003
Mercury	8530-03-05 06:14 G	4836641.58	4836641.76	4836641.94	0.0144	0.0026
Mercury	8530-06-01 13:26 G	4836729.90	4836730.06	4836730.23	0.0144	0.0055
Moon	8530-07-28 13:40 G	4836786.98	4836787.07	4836787.18	0.0144	0.0131
Earth	8530-07-28 17:02 G	4836787.12	4836787.21	4836787.31	0.0144	0.0133 *
Mercury	8530-08-28 20:38 G	4836818.22	4836818.36	4836818.52	0.0144	0.0083
Mercury	8530-11-25 04:19 G	4836906.57	4836906.68	4836906.79	0.0144	0.0111
Mercury	8531-02-21 11:31 G	4836994.95	4836994.98	4836995.03	0.0144	0.0140
Venus	8532-05-17 04:48 G	4837445.55	4837445.70	4837445.87	0.0143	0.0098
Venus	8532-12-29 16:04 G	4837671.97	4837672.17	4837672.38	0.0143	0.0046
Venus	8533-08-13 03:07 G	4837898.42	4837898.63	4837898.85	0.0143	0.0006
Venus	8534-03-27 13:55 G	4838124.89	4838125.08	4838125.28	0.0143	0.0057
Venus	8534-11-09 00:28 G	4838351.39	4838351.52	4838351.67	0.0142	0.0108
Mars	8560-07-01 01:55 G	4847717.38	4847717.58	4847717.80	0.0133	0.0090
Mars	8562-05-30 20:23 G	4848416.07	4848416.35	4848416.63	0.0133	0.0007
Mars	8564-04-28 13:40 G	4849114.90	4849115.07	4849115.26	0.0133	0.0101
Earth	8567-01-02 06:43 G	4850093.67	4850093.78	4850093.92	0.0133	0.0116
Moon	8567-01-02 10:19 G	4850093.81	4850093.93	4850094.06	0.0133	0.0115 *
Moon	8568-01-06 12:00 G	4850462.82	4850463.00	4850463.21	0.0133	0.0087
Earth	8568-01-06 15:21 G	4850462.94	4850463.14	4850463.34	0.0133	0.0082 *
Earth	8569-01-09 23:02 G	4850832.23	4850832.46	4850832.71	0.0133	0.0048
Moon	8569-01-10 02:23 G	4850832.37	4850832.60	4850832.84	0.0133	0.0040 *
Moon	8570-01-14 04:48 G	4851201.44	4851201.70	4851201.96	0.0134	0.0019
Earth	8570-01-14 07:26 G	4851201.56	4851201.81	4851202.07	0.0134	0.0013 *
Earth	8571-01-18 15:50 G	4851570.91	4851571.16	4851571.41	0.0134	0.0023
Moon	8571-01-18 18:28 G	4851571.03	4851571.27	4851571.51	0.0134	0.0029 *
Mercury	8571-07-02 13:11 G	4851736.02	4851736.05	4851736.08	0.0134	0.0130
Mercury	8571-09-28 16:48 G	4851824.12	4851824.20	4851824.27	0.0134	0.0112
Mercury	8571-12-25 20:09 G	4851912.25	4851912.34	4851912.44	0.0134	0.0095
Moon	8572-01-22 21:07 G	4851940.15	4851940.38	4851940.63	0.0134	0.0054

Earth	8572-01-23 00:28 G	4851940.29	4851940.52	4851940.74	0.0134	0.0058 *
Mercury	8572-03-22 23:45 G	4852000.38	4852000.49	4852000.60	0.0134	0.0077
Mercury	8572-06-19 03:07 G	4852088.51	4852088.63	4852088.76	0.0134	0.0060
Mercury	8572-09-15 06:43 G	4852176.65	4852176.78	4852176.91	0.0134	0.0042
Mercury	8572-12-12 10:04 G	4852264.79	4852264.92	4852265.06	0.0134	0.0025
Earth	8573-01-26 08:38 G	4852309.69	4852309.86	4852310.05	0.0134	0.0094
Moon	8573-01-26 11:02 G	4852309.79	4852309.96	4852310.14	0.0134	0.0093 *
Mercury	8573-03-10 13:40 G	4852352.93	4852353.07	4852353.21	0.0134	0.0007
Mercury	8573-06-06 17:02 G	4852441.07	4852441.21	4852441.35	0.0134	0.0010
Mercury	8573-09-02 20:23 G	4852529.22	4852529.35	4852529.49	0.0134	0.0028
Mercury	8573-11-29 23:45 G	4852617.36	4852617.49	4852617.62	0.0134	0.0045
Moon	8574-01-30 14:09 G	4852679.06	4852679.09	4852679.18	0.0134	0.0131
Earth	8574-01-30 17:02 G	4852679.16	4852679.21	4852679.30	0.0134	0.0129 *
Mercury	8574-02-26 03:07 G	4852705.51	4852705.63	4852705.75	0.0134	0.0062
Mercury	8574-05-25 06:28 G	4852793.66	4852793.77	4852793.88	0.0134	0.0079
Mercury	8574-08-21 09:36 G	4852881.82	4852881.90	4852882.01	0.0135	0.0097
Mercury	8574-11-17 12:57 G	4852969.98	4852970.04	4852970.12	0.0135	0.0114
Mercury	8575-02-13 16:19 G	4853058.16	4853058.18	4853058.22	0.0135	0.0130
Venus	8575-09-30 08:38 G	4853286.76	4853286.86	4853287.00	0.0135	0.0111
Venus	8576-05-13 15:07 G	4853512.95	4853513.13	4853513.32	0.0135	0.0068
Venus	8576-12-25 21:36 G	4853739.19	4853739.40	4853739.62	0.0135	0.0025
Venus	8577-08-09 03:50 G	4853965.45	4853965.66	4853965.88	0.0136	0.0019
Venus	8578-03-23 10:19 G	4854191.74	4854191.93	4854192.13	0.0136	0.0062
Venus	8578-11-04 16:33 G	4854418.08	4854418.19	4854418.35	0.0136	0.0106
Mars	8602-10-08 16:19 G	4863156.13	4863156.18	4863156.25	0.0145	0.0142
Mars	8604-09-15 09:50 G	4863863.58	4863863.91	4863864.26	0.0145	0.0012
Moon	8608-07-01 01:55 G	4865248.47	4865248.58	4865248.70	0.0145	0.0126
Earth	8608-07-01 01:40 G	4865248.47	4865248.57	4865248.70	0.0145	0.0128 *
Earth	8609-07-06 01:55 G	4865618.38	4865618.58	4865618.79	0.0145	0.0084
Moon	8609-07-06 03:07 G	4865618.42	4865618.63	4865618.86	0.0145	0.0080 *

Moon	8610-07-11 00:43 G	4865988.30	4865988.53	4865988.77	0.0145	0.0046
Earth	8610-07-11 01:55 G	4865988.35	4865988.58	4865988.84	0.0145	0.0040 *
Earth	8611-07-16 02:23 G	4866358.35	4866358.60	4866358.85	0.0145	0.0005
Moon	8611-07-16 04:33 G	4866358.43	4866358.69	4866358.95	0.0145	0.0012 *
Moon	8612-07-19 23:45 G	4866728.26	4866728.49	4866728.73	0.0144	0.0044
Earth	8612-07-20 02:23 G	4866728.37	4866728.60	4866728.84	0.0144	0.0050 *
Mercury	8612-10-12 18:14 G	4866813.20	4866813.26	4866813.33	0.0144	0.0133
Mercury	8613-01-09 01:11 G	4866901.44	4866901.55	4866901.68	0.0144	0.0106
Mercury	8613-04-07 08:09 G	4866989.71	4866989.84	4866990.00	0.0144	0.0080
Mercury	8613-07-04 15:36 G	4867077.98	4867078.15	4867078.32	0.0144	0.0051
Earth	8613-07-25 02:09 G	4867098.42	4867098.59	4867098.80	0.0144	0.0094
Moon	8613-07-25 05:31 G	4867098.54	4867098.73	4867098.92	0.0144	0.0096 *
Mercury	8613-09-30 22:33 G	4867166.27	4867166.44	4867166.63	0.0144	0.0025
Mercury	8613-12-28 06:00 G	4867254.57	4867254.75	4867254.93	0.0144	0.0004
Mercury	8614-03-26 13:11 G	4867342.88	4867343.05	4867343.23	0.0144	0.0032
Mercury	8614-06-22 20:23 G	4867431.19	4867431.35	4867431.52	0.0144	0.0061
Moon	8614-07-29 22:33 G	4867468.40	4867468.44	4867468.51	0.0144	0.0140
Earth	8614-07-30 02:09 G	4867468.53	4867468.59	4867468.68	0.0144	0.0137
Mercury	8614-09-19 03:36 G	4867519.52	4867519.65	4867519.81	0.0144	0.0089
Mercury	8614-12-16 11:16 G	4867607.87	4867607.97	4867608.08	0.0144	0.0117
Venus	8616-01-16 11:02 G	4868003.85	4868003.96	4868004.08	0.0143	0.0122
Venus	8616-08-29 22:04 G	4868230.24	4868230.42	4868230.62	0.0143	0.0070
Venus	8617-04-13 09:21 G	4868456.68	4868456.89	4868457.11	0.0143	0.0019
Venus	8617-11-25 20:09 G	4868683.14	4868683.34	4868683.56	0.0143	0.0033
Venus	8618-07-10 06:57 G	4868909.62	4868909.79	4868909.98	0.0143	0.0084
Venus	8619-02-21 17:45 G	4869136.17	4869136.24	4869136.31	0.0142	0.0134
Mars	8645-02-24 01:11 G	4878635.30	4878635.55	4878635.82	0.0133	0.0051
Mars	8647-01-23 19:26 G	4879334.06	4879334.31	4879334.59	0.0133	0.0045
Earth	8651-01-03 15:36 G	4880775.04	4880775.15	4880775.31	0.0133	0.0114
Moon	8651-01-03 18:57 G	4880775.19	4880775.29	4880775.43	0.0133	0.0116 *

Moon	8652-01-07 20:23 G	4881144.15	4881144.35	4881144.58	0.0133	0.0075
Earth	8652-01-08 00:00 G	4881144.31	4881144.50	4881144.72	0.0133	0.0079 *
Earth	8653-01-11 08:38 G	4881513.62	4881513.86	4881514.10	0.0133	0.0044
Moon	8653-01-11 11:31 G	4881513.76	4881513.98	4881514.22	0.0133	0.0050 *
Moon	8654-01-15 13:26 G	4881882.80	4881883.06	4881883.32	0.0133	0.0002
Earth	8654-01-15 16:48 G	4881882.95	4881883.20	4881883.46	0.0133	0.0009 *
Earth	8655-01-20 00:57 G	4882252.30	4882252.54	4882252.80	0.0134	0.0027
Moon	8655-01-20 04:19 G	4882252.43	4882252.68	4882252.93	0.0134	0.0020 *
Mercury	8655-07-23 20:09 G	4882437.30	4882437.34	4882437.39	0.0134	0.0126
Mercury	8655-10-19 23:31 G	4882525.41	4882525.48	4882525.57	0.0134	0.0109
Mercury	8656-01-16 03:07 G	4882613.54	4882613.63	4882613.74	0.0134	0.0091
Moon	8656-01-24 06:43 G	4882621.56	4882621.78	4882622.01	0.0134	0.0065
Earth	8656-01-24 09:21 G	4882621.68	4882621.89	4882622.13	0.0134	0.0062 *
Mercury	8656-04-13 06:43 G	4882701.67	4882701.78	4882701.90	0.0134	0.0073
Mercury	8656-07-10 10:04 G	4882789.80	4882789.92	4882790.06	0.0134	0.0056
Mercury	8656-10-06 13:40 G	4882877.94	4882878.07	4882878.21	0.0134	0.0038
Mercury	8657-01-02 17:16 G	4882966.08	4882966.22	4882966.36	0.0134	0.0021
Earth	8657-01-27 17:45 G	4882991.08	4882991.24	4882991.43	0.0134	0.0097
Moon	8657-01-27 21:07 G	4882991.21	4882991.38	4882991.56	0.0134	0.0096 *
Mercury	8657-03-31 20:38 G	4883054.22	4883054.36	4883054.50	0.0134	0.0003
Mercury	8657-06-28 00:00 G	4883142.36	4883142.50	4883142.64	0.0134	0.0014
Mercury	8657-09-24 03:21 G	4883230.51	4883230.64	4883230.78	0.0134	0.0032
Mercury	8657-12-21 06:57 G	4883318.66	4883318.79	4883318.91	0.0134	0.0049
Moon	8658-01-31 23:45 G	4883360.44	4883360.49	4883360.57	0.0134	0.0130
Earth	8658-02-01 02:09 G	4883360.57	4883360.59	4883360.66	0.0134	0.0133 *
Mercury	8658-03-19 10:04 G	4883406.81	4883406.92	4883407.05	0.0134	0.0066
Mercury	8658-06-15 13:26 G	4883494.96	4883495.06	4883495.17	0.0134	0.0083
Mercury	8658-09-11 16:48 G	4883583.11	4883583.20	4883583.29	0.0135	0.0100
Mercury	8658-12-08 20:09 G	4883671.28	4883671.34	4883671.41	0.0135	0.0117
Mercury	8659-03-06 23:16 G	4883759.47	4883759.47	4883759.49	0.0135	0.0134

Venus	8659-05-31 17:31 G	4883845.20	4883845.23	4883845.30	0.0135	0.0131
Venus	8660-01-12 23:45 G	4884071.34	4884071.49	4884071.67	0.0135	0.0088
Venus	8660-08-26 06:14 G	4884297.56	4884297.76	4884297.97	0.0135	0.0045
Venus	8661-04-09 12:28 G	4884523.81	4884524.02	4884524.24	0.0135	0.0003
Venus	8661-11-21 18:57 G	4884750.09	4884750.29	4884750.50	0.0136	0.0041
Venus	8662-07-06 01:26 G	4884976.40	4884976.56	4884976.74	0.0136	0.0085
Venus	8663-02-17 07:40 G	4885202.78	4885202.82	4885202.91	0.0136	0.0129
Jupiter	8681-09-21 09:21 G	4891993.41	4891993.89	4891994.43	0.0144	0.0036
Mars	8687-06-05 05:16 G	4894076.45	4894076.72	4894077.01	0.0145	0.0083
Mars	8689-05-12 23:31 G	4894784.20	4894784.48	4894784.79	0.0145	0.0071
Earth	8692-07-01 10:19 G	4895929.83	4895929.93	4895930.08	0.0145	0.0125
Moon	8692-07-01 10:33 G	4895929.84	4895929.94	4895930.07	0.0145	0.0127 *
Moon	8693-07-06 10:48 G	4896299.74	4896299.95	4896300.17	0.0145	0.0082
Earth	8693-07-06 10:33 G	4896299.75	4896299.94	4896300.17	0.0145	0.0081 *
Moon	8694-07-11 10:04 G	4896669.69	4896669.92	4896670.16	0.0145	0.0031
Earth	8694-07-11 11:16 G	4896669.72	4896669.97	4896670.21	0.0145	0.0036 *
Earth	8695-07-16 11:16 G	4897039.72	4897039.97	4897040.22	0.0145	0.0009
Moon	8695-07-16 12:43 G	4897039.77	4897040.03	4897040.30	0.0145	0.0003 *
Moon	8696-07-20 09:21 G	4897409.67	4897409.89	4897410.12	0.0144	0.0059
Earth	8696-07-20 11:16 G	4897409.74	4897409.97	4897410.21	0.0144	0.0053 *
Mercury	8696-11-02 00:57 G	4897514.48	4897514.54	4897514.64	0.0144	0.0129
Mercury	8697-01-29 08:09 G	4897602.72	4897602.84	4897602.97	0.0144	0.0101
Mercury	8697-04-27 15:21 G	4897690.99	4897691.14	4897691.29	0.0144	0.0073
Mercury	8697-07-24 22:19 G	4897779.27	4897779.43	4897779.61	0.0144	0.0046
Earth	8697-07-25 11:16 G	4897779.79	4897779.97	4897780.16	0.0144	0.0097
Moon	8697-07-25 13:55 G	4897779.90	4897780.08	4897780.29	0.0144	0.0096 *
Mercury	8697-10-21 05:31 G	4897867.56	4897867.73	4897867.91	0.0144	0.0019
Mercury	8698-01-17 12:57 G	4897955.86	4897956.04	4897956.22	0.0144	0.0010
Mercury	8698-04-15 19:55 G	4898044.16	4898044.33	4898044.51	0.0144	0.0038
Mercury	8698-07-13 03:07 G	4898132.48	4898132.63	4898132.80	0.0144	0.0066

Moon	8698-07-30 08:09 G	4898149.80	4898149.84	4898149.91	0.0144	0.0140
Earth	8698-07-30 10:48 G	4898149.92	4898149.95	4898150.02	0.0144	0.0141
Mercury	8698-10-09 10:33 G	4898220.81	4898220.94	4898221.08	0.0144	0.0094
Mercury	8699-01-05 17:45 G	4898309.16	4898309.24	4898309.35	0.0144	0.0123
Venus	8700-04-30 03:50 G	4898788.51	4898788.66	4898788.83	0.0143	0.0095
Venus	8700-12-12 14:52 G	4899014.93	4899015.12	4899015.34	0.0143	0.0045
Venus	8701-07-27 02:09 G	4899241.37	4899241.59	4899241.81	0.0143	0.0008
Venus	8702-03-10 12:43 G	4899467.84	4899468.03	4899468.24	0.0143	0.0059
Venus	8702-10-22 23:16 G	4899694.35	4899694.47	4899694.62	0.0142	0.0109
Mars	8727-11-21 03:36 G	4908854.50	4908854.65	4908854.83	0.0133	0.0109
Mars	8729-10-20 00:14 G	4909553.23	4909553.51	4909553.80	0.0133	0.0013
Mars	8731-09-18 18:00 G	4910252.05	4910252.25	4910252.49	0.0133	0.0082
Earth	8735-01-05 00:00 G	4911456.38	4911456.50	4911456.66	0.0133	0.0111
Moon	8735-01-05 03:36 G	4911456.53	4911456.65	4911456.81	0.0133	0.0110 *
Moon	8736-01-09 05:02 G	4911825.52	4911825.71	4911825.93	0.0133	0.0080
Earth	8736-01-09 08:52 G	4911825.66	4911825.87	4911826.08	0.0133	0.0076 *
Earth	8737-01-12 17:02 G	4912194.97	4912195.21	4912195.45	0.0133	0.0041
Moon	8737-01-12 20:38 G	4912195.12	4912195.36	4912195.61	0.0133	0.0034 *
Moon	8738-01-16 21:50 G	4912564.16	4912564.41	4912564.67	0.0134	0.0013
Earth	8738-01-17 01:26 G	4912564.31	4912564.56	4912564.82	0.0134	0.0005 *
Earth	8739-01-21 09:36 G	4912933.66	4912933.90	4912934.16	0.0134	0.0030
Moon	8739-01-21 12:57 G	4912933.81	4912934.04	4912934.29	0.0134	0.0037 *
Mercury	8739-08-14 02:52 G	4913138.58	4913138.62	4913138.68	0.0134	0.0123
Mercury	8739-11-10 06:43 G	4913226.69	4913226.78	4913226.86	0.0134	0.0105
Moon	8740-01-25 14:23 G	4913302.88	4913303.10	4913303.34	0.0134	0.0060
Earth	8740-01-25 18:00 G	4913303.04	4913303.25	4913303.48	0.0134	0.0066 *
Mercury	8740-02-06 10:04 G	4913314.82	4913314.92	4913315.03	0.0134	0.0088
Mercury	8740-05-04 13:40 G	4913402.95	4913403.07	4913403.19	0.0134	0.0070
Mercury	8740-07-31 17:02 G	4913491.09	4913491.21	4913491.34	0.0134	0.0053
Mercury	8740-10-27 20:38 G	4913579.23	4913579.36	4913579.50	0.0134	0.0035

Mercury	8741-01-24 00:00 G	4913667.37	4913667.50	4913667.64	0.0134	0.0018
Earth	8741-01-29 02:09 G	4913672.45	4913672.59	4913672.78	0.0134	0.0101
Moon	8741-01-29 05:16 G	4913672.58	4913672.72	4913672.90	0.0134	0.0102 *
Mercury	8741-04-22 03:36 G	4913755.51	4913755.65	4913755.79	0.0134	0.0002
Mercury	8741-07-19 06:57 G	4913843.65	4913843.79	4913843.93	0.0134	0.0017
Mercury	8741-10-15 10:19 G	4913931.80	4913931.93	4913932.07	0.0134	0.0035
Mercury	8742-01-11 13:40 G	4914019.95	4914020.07	4914020.20	0.0134	0.0052
Mercury	8742-04-09 17:02 G	4914108.10	4914108.21	4914108.33	0.0134	0.0069
Mercury	8742-07-06 20:23 G	4914196.25	4914196.35	4914196.46	0.0135	0.0086
Mercury	8742-10-02 23:45 G	4914284.40	4914284.49	4914284.58	0.0135	0.0103
Mercury	8742-12-30 03:07 G	4914372.57	4914372.63	4914372.69	0.0135	0.0120
Venus	8743-09-13 07:55 G	4914629.72	4914629.83	4914629.98	0.0135	0.0109
Venus	8744-04-26 14:23 G	4914855.92	4914856.10	4914856.30	0.0135	0.0066
Venus	8744-12-08 20:52 G	4915082.16	4915082.37	4915082.59	0.0135	0.0023
Venus	8745-07-23 03:21 G	4915308.42	4915308.64	4915308.85	0.0135	0.0020
Venus	8746-03-06 09:36 G	4915534.72	4915534.90	4915535.10	0.0136	0.0064
Venus	8746-10-18 15:50 G	4915761.05	4915761.16	4915761.31	0.0136	0.0108
Mars	8772-01-31 17:16 G	4924996.89	4924997.22	4924997.55	0.0145	0.0024
Mars	8774-01-08 12:28 G	4925704.89	4925705.02	4925705.18	0.0145	0.0131
Earth	8776-07-02 18:43 G	4926611.16	4926611.28	4926611.43	0.0145	0.0122
Moon	8776-07-02 19:55 G	4926611.21	4926611.33	4926611.49	0.0145	0.0119 *
Moon	8777-07-07 18:43 G	4926981.07	4926981.28	4926981.51	0.0145	0.0076
Earth	8777-07-07 18:57 G	4926981.09	4926981.29	4926981.51	0.0145	0.0078 *
Earth	8778-07-12 19:11 G	4927351.06	4927351.30	4927351.55	0.0145	0.0033
Moon	8778-07-12 19:11 G	4927351.07	4927351.30	4927351.54	0.0145	0.0038 *
Earth	8779-07-17 19:26 G	4927721.06	4927721.31	4927721.56	0.0145	0.0012
Moon	8779-07-17 20:23 G	4927721.09	4927721.35	4927721.61	0.0145	0.0019 *
Moon	8780-07-21 17:45 G	4928091.02	4928091.24	4928091.48	0.0144	0.0051
Earth	8780-07-21 19:11 G	4928091.08	4928091.30	4928091.55	0.0144	0.0058 *
Mercury	8780-11-23 07:55 G	4928215.75	4928215.83	4928215.92	0.0144	0.0124

Mercury	8781-02-19 14:52 G	4928304.00	4928304.12	4928304.26	0.0144	0.0097
Mercury	8781-05-18 21:50 G	4928392.26	4928392.41	4928392.57	0.0144	0.0070
Earth	8781-07-26 19:11 G	4928461.13	4928461.30	4928461.49	0.0144	0.0101
Moon	8781-07-26 21:07 G	4928461.21	4928461.38	4928461.57	0.0144	0.0105 *
Mercury	8781-08-15 05:02 G	4928480.54	4928480.71	4928480.89	0.0144	0.0042
Mercury	8781-11-11 12:14 G	4928568.83	4928569.01	4928569.19	0.0144	0.0014
Mercury	8782-02-07 19:26 G	4928657.13	4928657.31	4928657.49	0.0144	0.0014
Mercury	8782-05-07 02:38 G	4928745.44	4928745.61	4928745.79	0.0144	0.0042
Mercury	8782-08-03 09:50 G	4928833.76	4928833.91	4928834.07	0.0144	0.0070
Mercury	8782-10-30 17:16 G	4928922.09	4928922.22	4928922.35	0.0144	0.0098
Mercury	8783-01-27 00:28 G	4929010.45	4929010.52	4929010.62	0.0144	0.0127
Venus	8783-12-29 09:07 G	4929346.78	4929346.88	4929347.00	0.0143	0.0121
Venus	8784-08-11 20:09 G	4929573.16	4929573.34	4929573.54	0.0143	0.0070
Venus	8785-03-26 07:26 G	4929799.59	4929799.81	4929800.03	0.0143	0.0018
Venus	8785-11-07 18:14 G	4930026.05	4930026.26	4930026.48	0.0143	0.0033
Venus	8786-06-22 05:02 G	4930252.54	4930252.71	4930252.89	0.0143	0.0084
Venus	8787-02-03 15:50 G	4930479.09	4930479.16	4930479.23	0.0142	0.0134
Jupiter	8806-09-26 08:38 G	4937653.68	4937653.86	4937654.11	0.0134	0.0122
Mars	8812-07-15 02:52 G	4939772.40	4939772.62	4939772.88	0.0133	0.0070
Mars	8814-06-13 23:02 G	4940471.19	4940471.46	4940471.74	0.0133	0.0025
Mars	8816-05-12 15:50 G	4941170.06	4941170.16	4941170.30	0.0133	0.0120
Earth	8819-01-05 08:52 G	4942137.74	4942137.87	4942138.04	0.0133	0.0108
Moon	8819-01-05 12:57 G	4942137.90	4942138.04	4942138.19	0.0133	0.0109 *
Moon	8820-01-09 13:55 G	4942506.87	4942507.08	4942507.31	0.0133	0.0070
Earth	8820-01-09 17:31 G	4942507.03	4942507.23	4942507.46	0.0133	0.0073 *
Earth	8821-01-13 01:55 G	4942876.34	4942876.58	4942876.83	0.0133	0.0037
Moon	8821-01-13 05:16 G	4942876.49	4942876.72	4942876.97	0.0133	0.0044 *
Moon	8822-01-17 06:43 G	4943245.52	4943245.78	4943246.03	0.0134	0.0006
Earth	8822-01-17 10:19 G	4943245.68	4943245.93	4943246.19	0.0134	0.0003 *
Earth	8823-01-21 18:28 G	4943615.03	4943615.27	4943615.52	0.0134	0.0034

Moon	8823-01-21 22:04 G	4943615.18	4943615.42	4943615.68	0.0134	0.0027 *
Mercury	8823-09-03 09:50 G	4943839.86	4943839.91	4943839.98	0.0134	0.0120
Mercury	8823-11-30 13:26 G	4943927.98	4943928.06	4943928.16	0.0134	0.0102
Moon	8824-01-25 23:16 G	4943984.27	4943984.47	4943984.70	0.0134	0.0074
Earth	8824-01-26 02:52 G	4943984.41	4943984.62	4943984.85	0.0134	0.0069 *
Mercury	8824-02-26 17:02 G	4944016.10	4944016.21	4944016.32	0.0134	0.0084
Mercury	8824-05-24 20:23 G	4944104.24	4944104.35	4944104.48	0.0134	0.0067
Mercury	8824-08-21 00:00 G	4944192.37	4944192.50	4944192.64	0.0134	0.0049
Mercury	8824-11-17 03:36 G	4944280.51	4944280.65	4944280.79	0.0134	0.0032
Earth	8825-01-29 11:16 G	4944353.81	4944353.97	4944354.13	0.0134	0.0105
Moon	8825-01-29 14:23 G	4944353.96	4944354.10	4944354.29	0.0134	0.0103 *
Mercury	8825-02-13 06:57 G	4944368.65	4944368.79	4944368.93	0.0134	0.0015
Mercury	8825-05-12 10:33 G	4944456.80	4944456.94	4944457.08	0.0134	0.0004
Mercury	8825-08-08 13:55 G	4944544.94	4944545.08	4944545.22	0.0134	0.0020
Mercury	8825-11-04 17:16 G	4944633.09	4944633.22	4944633.35	0.0134	0.0038
Mercury	8826-01-31 20:38 G	4944721.24	4944721.36	4944721.49	0.0134	0.0055
Mercury	8826-04-29 23:45 G	4944809.39	4944809.49	4944809.62	0.0135	0.0073
Mercury	8826-07-27 03:07 G	4944897.54	4944897.63	4944897.74	0.0135	0.0090
Mercury	8826-10-23 06:43 G	4944985.70	4944985.78	4944985.86	0.0135	0.0106
Mercury	8827-01-19 10:04 G	4945073.87	4945073.92	4945073.97	0.0135	0.0123
Venus	8827-05-13 16:48 G	4945188.15	4945188.20	4945188.27	0.0135	0.0129
Venus	8827-12-25 23:16 G	4945414.30	4945414.47	4945414.64	0.0135	0.0086
Venus	8828-08-08 05:16 G	4945640.52	4945640.72	4945640.93	0.0135	0.0044
Venus	8829-03-22 11:45 G	4945866.77	4945866.99	4945867.21	0.0135	0.0001
Venus	8829-11-03 18:14 G	4946093.05	4946093.26	4946093.47	0.0136	0.0043
Venus	8830-06-18 00:28 G	4946319.37	4946319.52	4946319.70	0.0136	0.0087
Venus	8831-01-30 07:26 G	4946545.75	4946545.81	4946545.87	0.0136	0.0130
Mars	8854-10-20 14:23 G	4955209.92	4955210.10	4955210.32	0.0145	0.0117
Mars	8856-09-27 06:14 G	4955917.44	4955917.76	4955918.10	0.0145	0.0036
Earth	8860-07-03 03:36 G	4957292.52	4957292.65	4957292.81	0.0145	0.0119

Moon	8860-07-03 05:16 G	4957292.60	4957292.72	4957292.86	0.0145	0.0122	*
Moon	8861-07-08 02:23 G	4957662.38	4957662.60	4957662.83	0.0145	0.0074	
Earth	8861-07-08 04:04 G	4957662.45	4957662.67	4957662.89	0.0145	0.0074	*
Earth	8862-07-13 03:50 G	4958032.42	4958032.66	4958032.92	0.0145	0.0030	
Moon	8862-07-13 04:33 G	4958032.45	4958032.69	4958032.93	0.0145	0.0025	*
Moon	8863-07-18 04:04 G	4958402.41	4958402.67	4958402.94	0.0145	0.0009	
Earth	8863-07-18 04:04 G	4958402.42	4958402.67	4958402.92	0.0145	0.0016	*
Moon	8864-07-22 03:21 G	4958772.43	4958772.64	4958772.86	0.0144	0.0067	
Earth	8864-07-22 04:04 G	4958772.44	4958772.67	4958772.90	0.0144	0.0061	*
Mercury	8864-12-13 14:23 G	4958917.02	4958917.10	4958917.22	0.0144	0.0120	
Mercury	8865-03-11 21:36 G	4959005.27	4959005.40	4959005.54	0.0144	0.0092	
Mercury	8865-06-08 04:48 G	4959093.54	4959093.70	4959093.86	0.0144	0.0065	
Earth	8865-07-27 03:21 G	4959142.49	4959142.64	4959142.83	0.0144	0.0106	
Moon	8865-07-27 05:16 G	4959142.54	4959142.72	4959142.92	0.0144	0.0101	*
Mercury	8865-09-04 11:45 G	4959181.82	4959181.99	4959182.17	0.0144	0.0037	
Mercury	8865-12-01 18:57 G	4959270.11	4959270.29	4959270.47	0.0144	0.0010	
Mercury	8866-02-28 02:09 G	4959358.41	4959358.59	4959358.77	0.0144	0.0018	
Mercury	8866-05-27 09:21 G	4959446.72	4959446.89	4959447.06	0.0144	0.0046	
Mercury	8866-08-23 16:48 G	4959535.04	4959535.20	4959535.35	0.0144	0.0074	
Mercury	8866-11-19 23:45 G	4959623.37	4959623.49	4959623.63	0.0144	0.0103	
Mercury	8867-02-16 07:11 G	4959711.73	4959711.80	4959711.88	0.0144	0.0131	
Venus	8868-04-11 01:40 G	4960131.41	4960131.57	4960131.74	0.0143	0.0096	
Venus	8868-11-23 12:43 G	4960357.83	4960358.03	4960358.24	0.0143	0.0044	
Venus	8869-07-07 23:45 G	4960584.28	4960584.49	4960584.71	0.0143	0.0007	
Venus	8870-02-19 10:33 G	4960810.75	4960810.94	4960811.14	0.0143	0.0058	
Venus	8870-10-03 21:07 G	4961037.25	4961037.38	4961037.53	0.0142	0.0109	
Jupiter	8889-08-17 04:04 G	4967929.49	4967929.67	4967929.92	0.0135	0.0122	
Mars	8895-04-10 03:21 G	4969991.55	4969991.64	4969991.72	0.0134	0.0127	
Mars	8897-03-09 01:26 G	4970690.29	4970690.56	4970690.84	0.0133	0.0032	
Mars	8899-02-05 19:40 G	4971389.09	4971389.32	4971389.58	0.0133	0.0064	

Earth	8903-01-06 17:16 G	4972819.07	4972819.22	4972819.39	0.0133	0.0105
Moon	8903-01-06 20:38 G	4972819.22	4972819.36	4972819.53	0.0133	0.0106 *
Moon	8904-01-10 22:33 G	4973188.23	4973188.44	4973188.65	0.0133	0.0073
Earth	8904-01-11 01:55 G	4973188.37	4973188.58	4973188.80	0.0133	0.0070 *
Earth	8905-01-14 10:04 G	4973557.68	4973557.92	4973558.17	0.0133	0.0034
Moon	8905-01-14 13:55 G	4973557.83	4973558.08	4973558.33	0.0133	0.0028 *
Moon	8906-01-18 15:07 G	4973926.88	4973927.13	4973927.39	0.0134	0.0005
Earth	8906-01-18 18:43 G	4973927.02	4973927.28	4973927.53	0.0134	0.0003 *
Earth	8907-01-23 02:52 G	4974296.37	4974296.62	4974296.87	0.0134	0.0037
Moon	8907-01-23 06:28 G	4974296.53	4974296.77	4974297.02	0.0134	0.0044 *
Mercury	8907-09-24 16:33 G	4974541.14	4974541.19	4974541.27	0.0134	0.0117
Mercury	8907-12-21 20:23 G	4974629.26	4974629.35	4974629.44	0.0134	0.0099
Moon	8908-01-27 07:40 G	4974665.60	4974665.82	4974666.04	0.0134	0.0067
Earth	8908-01-27 10:48 G	4974665.76	4974665.95	4974666.18	0.0134	0.0073 *
Mercury	8908-03-19 00:00 G	4974717.39	4974717.50	4974717.61	0.0134	0.0082
Mercury	8908-06-15 03:21 G	4974805.52	4974805.64	4974805.77	0.0134	0.0064
Mercury	8908-09-11 06:57 G	4974893.66	4974893.79	4974893.92	0.0134	0.0046
Mercury	8908-12-08 10:19 G	4974981.80	4974981.93	4974982.07	0.0134	0.0029
Earth	8909-01-30 19:11 G	4975035.17	4975035.30	4975035.46	0.0134	0.0108
Moon	8909-01-30 22:48 G	4975035.32	4975035.45	4975035.60	0.0134	0.0111 *
Mercury	8909-03-06 13:55 G	4975069.94	4975070.08	4975070.22	0.0134	0.0012
Mercury	8909-06-02 17:16 G	4975158.08	4975158.22	4975158.36	0.0134	0.0006
Mercury	8909-08-29 20:38 G	4975246.23	4975246.36	4975246.50	0.0134	0.0024
Mercury	8909-11-26 00:00 G	4975334.37	4975334.50	4975334.64	0.0134	0.0041
Mercury	8910-02-22 03:36 G	4975422.52	4975422.65	4975422.77	0.0135	0.0058
Mercury	8910-05-21 06:57 G	4975510.67	4975510.79	4975510.90	0.0135	0.0075
Mercury	8910-08-17 10:19 G	4975598.83	4975598.93	4975599.03	0.0135	0.0092
Mercury	8910-11-13 13:40 G	4975686.99	4975687.07	4975687.15	0.0135	0.0109
Mercury	8911-02-09 16:48 G	4975775.16	4975775.20	4975775.25	0.0135	0.0126
Venus	8911-08-26 07:11 G	4975972.68	4975972.80	4975972.94	0.0135	0.0107

Venus	8912-04-08 13:40 G	4976198.88	4976199.07	4976199.26	0.0135	0.0064
Venus	8912-11-20 20:09 G	4976425.12	4976425.34	4976425.55	0.0135	0.0021
Venus	8913-07-05 02:23 G	4976651.39	4976651.60	4976651.82	0.0135	0.0022
Venus	8914-02-16 08:38 G	4976877.69	4976877.86	4976878.07	0.0136	0.0066
Venus	8914-09-30 15:21 G	4977104.02	4977104.14	4977104.28	0.0136	0.0109
Mars	8939-06-18 02:23 G	4986130.31	4986130.60	4986130.93	0.0145	0.0057
Mars	8941-05-25 20:23 G	4986838.11	4986838.35	4986838.61	0.0145	0.0097
Earth	8944-07-04 12:57 G	4987973.90	4987974.04	4987974.19	0.0145	0.0116
Moon	8944-07-04 15:36 G	4987974.00	4987974.15	4987974.31	0.0145	0.0111 *
Moon	8945-07-09 11:31 G	4988343.75	4988343.98	4988344.21	0.0145	0.0071
Earth	8945-07-09 12:43 G	4988343.83	4988344.03	4988344.27	0.0145	0.0072 *
Earth	8946-07-14 12:57 G	4988713.79	4988714.04	4988714.29	0.0145	0.0026
Moon	8946-07-14 14:09 G	4988713.86	4988714.09	4988714.34	0.0145	0.0031 *
Moon	8947-07-19 12:00 G	4989083.75	4989084.00	4989084.27	0.0145	0.0026
Earth	8947-07-19 12:43 G	4989083.79	4989084.03	4989084.29	0.0145	0.0020 *
Moon	8948-07-23 12:14 G	4989453.80	4989454.01	4989454.25	0.0144	0.0058
Earth	8948-07-23 12:28 G	4989453.81	4989454.02	4989454.26	0.0144	0.0065 *
Mercury	8948-10-07 14:38 G	4989530.08	4989530.11	4989530.15	0.0144	0.0141
Mercury	8949-01-03 21:36 G	4989618.30	4989618.40	4989618.51	0.0144	0.0114
Mercury	8949-04-02 04:19 G	4989706.55	4989706.68	4989706.83	0.0144	0.0087
Mercury	8949-06-29 11:31 G	4989794.82	4989794.98	4989795.15	0.0144	0.0060
Earth	8949-07-28 11:45 G	4989823.85	4989823.99	4989824.18	0.0144	0.0109
Moon	8949-07-28 12:28 G	4989823.87	4989824.02	4989824.19	0.0144	0.0114 *
Mercury	8949-09-25 18:43 G	4989883.11	4989883.28	4989883.45	0.0144	0.0032
Mercury	8949-12-23 01:40 G	4989971.40	4989971.57	4989971.75	0.0144	0.0007
Mercury	8950-03-21 08:52 G	4990059.70	4990059.87	4990060.05	0.0144	0.0023
Mercury	8950-06-17 16:04 G	4990148.01	4990148.17	4990148.34	0.0144	0.0051
Mercury	8950-09-13 23:16 G	4990236.33	4990236.47	4990236.63	0.0144	0.0079
Mercury	8950-12-11 06:43 G	4990324.66	4990324.78	4990324.90	0.0144	0.0107
Mercury	8951-03-09 13:40 G	4990413.03	4990413.07	4990413.15	0.0144	0.0136

Venus	8951-12-11 06:57 G	4990689.69	4990689.79	4990689.92	0.0143	0.0122
Venus	8952-07-24 18:28 G	4990916.08	4990916.27	4990916.46	0.0143	0.0070
Venus	8953-03-08 05:31 G	4991142.51	4991142.73	4991142.94	0.0143	0.0018
Venus	8953-10-20 16:19 G	4991368.97	4991369.18	4991369.39	0.0143	0.0033
Venus	8954-06-04 03:07 G	4991595.46	4991595.63	4991595.81	0.0143	0.0084
Venus	8955-01-16 13:55 G	4991822.01	4991822.08	4991822.15	0.0142	0.0134
Mars	8979-12-04 02:23 G	5000909.41	5000909.60	5000909.84	0.0133	0.0089
Mars	8981-11-02 00:14 G	5001608.23	5001608.51	5001608.80	0.0133	0.0007
Mars	8983-10-01 17:45 G	5002307.07	5002307.24	5002307.43	0.0133	0.0102
Earth	8987-01-07 01:55 G	5003500.43	5003500.58	5003500.76	0.0133	0.0103
Moon	8987-01-07 05:16 G	5003500.57	5003500.72	5003500.90	0.0133	0.0103 *
Moon	8988-01-11 07:11 G	5003869.59	5003869.80	5003870.03	0.0133	0.0066
Earth	8988-01-11 10:19 G	5003869.73	5003869.93	5003870.17	0.0133	0.0068 *
Earth	8989-01-14 18:43 G	5004239.04	5004239.28	5004239.54	0.0133	0.0032
Moon	8989-01-14 22:04 G	5004239.18	5004239.42	5004239.68	0.0133	0.0037 *
Moon	8990-01-18 23:45 G	5004608.24	5004608.49	5004608.74	0.0134	0.0011
Earth	8990-01-19 03:21 G	5004608.38	5004608.64	5004608.89	0.0134	0.0004 *
Earth	8991-01-23 11:16 G	5004977.74	5004977.97	5004978.22	0.0134	0.0041
Moon	8991-01-23 14:52 G	5004977.87	5004978.12	5004978.37	0.0134	0.0033 *
Mercury	8991-07-18 20:09 G	5005154.32	5005154.34	5005154.37	0.0134	0.0131
Mercury	8991-10-14 23:31 G	5005242.42	5005242.48	5005242.56	0.0134	0.0114
Mercury	8992-01-11 03:07 G	5005330.54	5005330.63	5005330.74	0.0134	0.0096
Moon	8992-01-27 16:04 G	5005346.98	5005347.17	5005347.38	0.0134	0.0082
Earth	8992-01-27 19:40 G	5005347.12	5005347.32	5005347.54	0.0134	0.0076 *
Mercury	8992-04-08 06:43 G	5005418.67	5005418.78	5005418.90	0.0134	0.0078
Mercury	8992-07-05 10:19 G	5005506.81	5005506.93	5005507.06	0.0134	0.0061
Mercury	8992-10-01 13:40 G	5005594.94	5005595.07	5005595.21	0.0134	0.0043
Mercury	8992-12-28 17:16 G	5005683.08	5005683.22	5005683.36	0.0134	0.0026
Earth	8993-01-31 04:04 G	5005716.54	5005716.67	5005716.81	0.0134	0.0112
Moon	8993-01-31 07:40 G	5005716.68	5005716.82	5005716.98	0.0134	0.0108 *

Mercury	8993-03-26 20:38 G	5005771.23	5005771.36	5005771.50	0.0134	0.0009
Mercury	8993-06-23 00:14 G	5005859.37	5005859.51	5005859.65	0.0134	0.0009
Mercury	8993-09-19 03:36 G	5005947.51	5005947.65	5005947.79	0.0134	0.0027
Mercury	8993-12-16 06:57 G	5006035.66	5006035.79	5006035.92	0.0134	0.0044
Mercury	8994-03-14 10:19 G	5006123.81	5006123.93	5006124.06	0.0135	0.0061
Mercury	8994-06-10 13:40 G	5006211.96	5006212.07	5006212.19	0.0135	0.0078
Mercury	8994-09-06 17:02 G	5006300.12	5006300.21	5006300.31	0.0135	0.0095
Mercury	8994-12-03 20:23 G	5006388.28	5006388.35	5006388.43	0.0135	0.0112
Mercury	8995-03-01 23:31 G	5006476.46	5006476.48	5006476.53	0.0135	0.0130
Venus	8995-04-25 16:04 G	5006531.10	5006531.17	5006531.24	0.0135	0.0127
Venus	8995-12-07 22:04 G	5006757.27	5006757.42	5006757.60	0.0135	0.0085
Venus	8996-07-21 04:33 G	5006983.49	5006983.69	5006983.90	0.0135	0.0042
Venus	8997-03-04 11:02 G	5007209.74	5007209.96	5007210.18	0.0135	0.0001
Venus	8997-10-16 17:16 G	5007436.02	5007436.22	5007436.43	0.0136	0.0045
Venus	8998-05-30 23:45 G	5007662.34	5007662.49	5007662.67	0.0136	0.0089
Venus	8999-01-12 06:43 G	5007888.74	5007888.78	5007888.84	0.0136	0.0132

10TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 10th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	9024-02-13 16:48 G		5017050.86	5017051.20	5017051.54	0.0145	0.0005	
Earth	9028-07-05 22:19 G		5018655.29	5018655.43	5018655.60	0.0145	0.0114	
Moon	9028-07-06 01:11 G		5018655.41	5018655.55	5018655.69	0.0145	0.0118	*

Moon	9029-07-10 19:40 G	5019025.10	5019025.32	5019025.56	0.0145	0.0067
Earth	9029-07-10 22:19 G	5019025.22	5019025.43	5019025.67	0.0145	0.0069 *
Earth	9030-07-15 22:33 G	5019395.19	5019395.44	5019395.69	0.0145	0.0023
Moon	9030-07-16 00:14 G	5019395.27	5019395.51	5019395.75	0.0145	0.0020 *
Moon	9031-07-20 21:07 G	5019765.12	5019765.38	5019765.64	0.0145	0.0015
Earth	9031-07-20 22:19 G	5019765.18	5019765.43	5019765.68	0.0145	0.0023 *
Earth	9032-07-24 22:04 G	5020135.20	5020135.42	5020135.65	0.0144	0.0068
Moon	9032-07-24 22:48 G	5020135.25	5020135.45	5020135.66	0.0144	0.0075 *
Mercury	9032-10-28 21:36 G	5020231.35	5020231.40	5020231.47	0.0144	0.0135
Mercury	9033-01-25 04:19 G	5020319.58	5020319.68	5020319.81	0.0144	0.0108
Mercury	9033-04-23 11:16 G	5020407.84	5020407.97	5020408.13	0.0144	0.0082
Mercury	9033-07-20 18:28 G	5020496.11	5020496.27	5020496.44	0.0144	0.0054
Moon	9033-07-29 21:36 G	5020505.24	5020505.40	5020505.59	0.0144	0.0107
Earth	9033-07-29 21:21 G	5020505.25	5020505.39	5020505.56	0.0144	0.0113 *
Mercury	9033-10-17 01:40 G	5020584.40	5020584.57	5020584.75	0.0144	0.0026
Mercury	9034-01-13 08:52 G	5020672.69	5020672.87	5020673.05	0.0144	0.0003
Mercury	9034-04-11 15:50 G	5020760.99	5020761.16	5020761.34	0.0144	0.0029
Mercury	9034-07-08 23:02 G	5020849.30	5020849.46	5020849.63	0.0144	0.0057
Mercury	9034-10-05 06:14 G	5020937.62	5020937.76	5020937.91	0.0144	0.0085
Mercury	9035-01-01 13:26 G	5021025.96	5021026.06	5021026.18	0.0144	0.0113
Mercury	9035-03-30 20:52 G	5021114.35	5021114.37	5021114.41	0.0144	0.0141
Venus	9036-03-25 00:14 G	5021474.36	5021474.51	5021474.69	0.0143	0.0094
Venus	9036-11-06 11:31 G	5021700.78	5021700.98	5021701.19	0.0143	0.0043
Venus	9037-06-20 22:48 G	5021927.23	5021927.45	5021927.66	0.0143	0.0009
Venus	9038-02-02 09:21 G	5022153.70	5022153.89	5022154.10	0.0143	0.0060
Venus	9038-09-16 20:09 G	5022380.21	5022380.34	5022380.48	0.0142	0.0110
Mars	9064-07-29 01:11 G	5031827.29	5031827.55	5031827.82	0.0133	0.0050
Mars	9066-06-27 20:38 G	5032526.10	5032526.36	5032526.63	0.0133	0.0046
Moon	9070-01-03 22:33 G	5033812.41	5033812.44	5033812.48	0.0133	0.0132
Earth	9071-01-08 09:50 G	5034181.75	5034181.91	5034182.09	0.0133	0.0100

Moon	9071-01-08 12:28 G	5034181.87	5034182.02	5034182.20	0.0133	0.0103	*
Moon	9072-01-12 15:36 G	5034550.94	5034551.15	5034551.37	0.0133	0.0067	
Earth	9072-01-12 18:14 G	5034551.05	5034551.26	5034551.50	0.0133	0.0065	*
Earth	9073-01-16 02:23 G	5034920.36	5034920.60	5034920.86	0.0134	0.0030	
Moon	9073-01-16 05:45 G	5034920.49	5034920.74	5034921.00	0.0134	0.0025	*
Moon	9074-01-20 08:09 G	5035289.59	5035289.84	5035290.09	0.0134	0.0002	
Earth	9074-01-20 11:02 G	5035289.71	5035289.96	5035290.22	0.0134	0.0007	*
Earth	9075-01-24 19:11 G	5035659.06	5035659.30	5035659.55	0.0134	0.0043	
Moon	9075-01-24 22:33 G	5035659.21	5035659.44	5035659.69	0.0134	0.0050	*
Mercury	9075-08-09 02:52 G	5035855.59	5035855.62	5035855.66	0.0134	0.0128	
Mercury	9075-11-05 06:14 G	5035943.69	5035943.76	5035943.85	0.0134	0.0111	
Moon	9076-01-29 00:14 G	5036028.31	5036028.51	5036028.73	0.0134	0.0072	
Earth	9076-01-29 03:21 G	5036028.45	5036028.64	5036028.86	0.0134	0.0079	*
Mercury	9076-02-01 09:50 G	5036031.82	5036031.91	5036032.02	0.0134	0.0093	
Mercury	9076-04-29 13:26 G	5036119.95	5036120.06	5036120.18	0.0134	0.0076	
Mercury	9076-07-26 17:02 G	5036208.09	5036208.21	5036208.34	0.0134	0.0058	
Mercury	9076-10-22 20:38 G	5036296.22	5036296.36	5036296.49	0.0134	0.0040	
Mercury	9077-01-19 00:00 G	5036384.37	5036384.50	5036384.64	0.0134	0.0023	
Earth	9077-02-01 11:45 G	5036397.87	5036397.99	5036398.14	0.0134	0.0115	
Moon	9077-02-01 15:21 G	5036398.02	5036398.14	5036398.27	0.0134	0.0118	*
Mercury	9077-04-17 03:36 G	5036472.51	5036472.65	5036472.79	0.0134	0.0006	
Mercury	9077-07-14 06:57 G	5036560.65	5036560.79	5036560.93	0.0134	0.0012	
Mercury	9077-10-10 10:19 G	5036648.80	5036648.93	5036649.07	0.0134	0.0030	
Mercury	9078-01-06 13:55 G	5036736.95	5036737.08	5036737.21	0.0134	0.0047	
Mercury	9078-04-04 17:02 G	5036825.10	5036825.21	5036825.34	0.0135	0.0065	
Mercury	9078-07-01 20:23 G	5036913.25	5036913.35	5036913.47	0.0135	0.0082	
Mercury	9078-09-27 23:45 G	5037001.41	5037001.49	5037001.59	0.0135	0.0099	
Mercury	9078-12-25 03:07 G	5037089.57	5037089.63	5037089.71	0.0135	0.0116	
Mercury	9079-03-23 06:28 G	5037177.76	5037177.77	5037177.80	0.0135	0.0133	
Venus	9079-08-08 06:14 G	5037315.64	5037315.76	5037315.91	0.0135	0.0105	

Venus	9080-03-21 12:43 G	5037541.84	5037542.03	5037542.23	0.0135	0.0062
Venus	9080-11-02 19:11 G	5037768.09	5037768.30	5037768.52	0.0135	0.0019
Venus	9081-06-17 01:40 G	5037994.36	5037994.57	5037994.79	0.0135	0.0024
Venus	9082-01-29 08:09 G	5038220.66	5038220.84	5038221.04	0.0136	0.0068
Venus	9082-09-12 14:52 G	5038447.00	5038447.12	5038447.25	0.0136	0.0111
Mars	9106-11-03 15:21 G	5047263.89	5047264.14	5047264.43	0.0145	0.0087
Mars	9108-10-11 07:26 G	5047971.52	5047971.81	5047972.12	0.0145	0.0066
Earth	9112-07-07 07:55 G	5049336.68	5049336.83	5049337.00	0.0145	0.0111
Moon	9112-07-07 11:16 G	5049336.81	5049336.97	5049337.15	0.0145	0.0105 *
Moon	9113-07-12 05:16 G	5049706.49	5049706.72	5049706.95	0.0145	0.0067
Earth	9113-07-12 07:40 G	5049706.61	5049706.82	5049707.06	0.0145	0.0066 *
Earth	9114-07-17 07:40 G	5050076.57	5050076.82	5050077.07	0.0145	0.0020
Moon	9114-07-17 10:04 G	5050076.68	5050076.92	5050077.17	0.0145	0.0023 *
Moon	9115-07-22 05:31 G	5050446.48	5050446.73	5050446.99	0.0145	0.0031
Earth	9115-07-22 07:26 G	5050446.57	5050446.81	5050447.07	0.0145	0.0026 *
Earth	9116-07-26 06:57 G	5050816.58	5050816.79	5050817.02	0.0144	0.0071
Moon	9116-07-26 08:09 G	5050816.63	5050816.84	5050817.07	0.0144	0.0064 *
Mercury	9116-11-19 04:19 G	5050932.62	5050932.68	5050932.77	0.0144	0.0130
Mercury	9117-02-15 11:31 G	5051020.86	5051020.98	5051021.11	0.0144	0.0102
Mercury	9117-05-14 18:28 G	5051109.12	5051109.27	5051109.42	0.0144	0.0075
Moon	9117-07-31 05:16 G	5051186.59	5051186.72	5051186.87	0.0144	0.0121
Earth	9117-07-31 06:28 G	5051186.63	5051186.77	5051186.93	0.0144	0.0115 *
Mercury	9117-08-11 01:26 G	5051197.40	5051197.56	5051197.73	0.0144	0.0048
Mercury	9117-11-07 08:38 G	5051285.68	5051285.86	5051286.03	0.0144	0.0021
Mercury	9118-02-03 15:36 G	5051373.98	5051374.15	5051374.33	0.0144	0.0008
Mercury	9118-05-02 22:48 G	5051462.28	5051462.45	5051462.63	0.0144	0.0035
Mercury	9118-07-30 05:45 G	5051550.59	5051550.74	5051550.91	0.0144	0.0063
Mercury	9118-10-26 12:57 G	5051638.92	5051639.04	5051639.19	0.0144	0.0091
Mercury	9119-01-22 20:23 G	5051727.26	5051727.35	5051727.46	0.0144	0.0119
Venus	9119-11-24 06:28 G	5052032.66	5052032.77	5052032.90	0.0143	0.0118

Venus	9120-07-07 17:31 G	5052259.05	5052259.23	5052259.44	0.0143	0.0067
Venus	9121-02-19 04:48 G	5052485.49	5052485.70	5052485.92	0.0143	0.0016
Venus	9121-10-03 15:36 G	5052711.95	5052712.15	5052712.37	0.0143	0.0036
Venus	9122-05-18 02:23 G	5052938.44	5052938.60	5052938.79	0.0142	0.0087
Venus	9122-12-30 13:11 G	5053165.00	5053165.05	5053165.12	0.0142	0.0136
Mars	9147-04-25 01:26 G	5062046.41	5062046.56	5062046.75	0.0134	0.0107
Mars	9149-03-23 23:31 G	5062745.20	5062745.48	5062745.77	0.0133	0.0011
Mars	9151-02-20 18:14 G	5063444.06	5063444.26	5063444.49	0.0133	0.0084
Earth	9154-01-05 09:36 G	5064493.90	5064493.90	5064493.93	0.0133	0.0133
Earth	9155-01-09 18:00 G	5064863.10	5064863.25	5064863.44	0.0133	0.0098
Moon	9155-01-09 20:38 G	5064863.19	5064863.36	5064863.56	0.0133	0.0097 *
Moon	9156-01-14 00:00 G	5065232.29	5065232.50	5065232.73	0.0133	0.0063
Earth	9156-01-14 02:23 G	5065232.39	5065232.60	5065232.84	0.0133	0.0063 *
Earth	9157-01-17 10:48 G	5065601.70	5065601.95	5065602.20	0.0133	0.0027
Moon	9157-01-17 13:11 G	5065601.80	5065602.05	5065602.31	0.0133	0.0030 *
Moon	9158-01-21 16:19 G	5065970.94	5065971.18	5065971.43	0.0134	0.0016
Earth	9158-01-21 19:11 G	5065971.05	5065971.30	5065971.56	0.0134	0.0010 *
Earth	9159-01-26 03:07 G	5066340.40	5066340.63	5066340.88	0.0134	0.0046
Moon	9159-01-26 05:45 G	5066340.50	5066340.74	5066341.00	0.0134	0.0039 *
Mercury	9159-08-30 09:36 G	5066556.86	5066556.90	5066556.95	0.0134	0.0125
Mercury	9159-11-26 12:57 G	5066644.97	5066645.04	5066645.14	0.0134	0.0108
Moon	9160-01-30 08:38 G	5066709.69	5066709.86	5066710.06	0.0134	0.0088
Earth	9160-01-30 12:00 G	5066709.80	5066710.00	5066710.20	0.0134	0.0081 *
Mercury	9160-02-22 16:48 G	5066733.10	5066733.20	5066733.31	0.0134	0.0090
Mercury	9160-05-20 20:23 G	5066821.23	5066821.35	5066821.47	0.0134	0.0072
Mercury	9160-08-17 00:00 G	5066909.37	5066909.50	5066909.63	0.0134	0.0055
Mercury	9160-11-13 03:21 G	5066997.51	5066997.64	5066997.78	0.0134	0.0037
Earth	9161-02-02 20:09 G	5067079.23	5067079.34	5067079.47	0.0134	0.0118
Moon	9161-02-02 23:02 G	5067079.34	5067079.46	5067079.62	0.0134	0.0112 *
Mercury	9161-02-09 06:57 G	5067085.65	5067085.79	5067085.93	0.0134	0.0019

Mercury	9161-05-08 10:19 G	5067173.79	5067173.93	5067174.07	0.0134	0.0004
Mercury	9161-08-04 13:55 G	5067261.94	5067262.08	5067262.22	0.0134	0.0016
Mercury	9161-10-31 17:16 G	5067350.09	5067350.22	5067350.36	0.0134	0.0033
Mercury	9162-01-27 20:38 G	5067438.23	5067438.36	5067438.49	0.0134	0.0050
Mercury	9162-04-26 00:00 G	5067526.39	5067526.50	5067526.62	0.0135	0.0067
Mercury	9162-07-23 03:21 G	5067614.54	5067614.64	5067614.75	0.0135	0.0085
Mercury	9162-10-19 06:43 G	5067702.70	5067702.78	5067702.88	0.0135	0.0102
Mercury	9163-01-15 10:04 G	5067790.86	5067790.92	5067790.99	0.0135	0.0119
Venus	9163-04-08 14:38 G	5067874.05	5067874.11	5067874.20	0.0135	0.0125
Venus	9163-11-20 21:21 G	5068100.22	5068100.39	5068100.56	0.0135	0.0082
Venus	9164-07-04 03:36 G	5068326.45	5068326.65	5068326.86	0.0135	0.0040
Venus	9165-02-15 10:04 G	5068552.70	5068552.92	5068553.14	0.0135	0.0004
Venus	9165-09-29 16:33 G	5068778.99	5068779.19	5068779.40	0.0136	0.0047
Venus	9166-05-13 22:48 G	5069005.31	5069005.45	5069005.63	0.0136	0.0091
Venus	9166-12-26 05:45 G	5069231.72	5069231.74	5069231.79	0.0136	0.0134
Mars	9191-07-01 04:19 G	5078184.35	5078184.68	5078185.02	0.0145	0.0027
Mars	9193-06-07 21:50 G	5078892.26	5078892.41	5078892.59	0.0145	0.0126
Moon	9195-07-03 13:40 G	5079648.07	5079648.07	5079648.08	0.0145	0.0145
Earth	9196-07-07 17:02 G	5080018.05	5080018.21	5080018.39	0.0145	0.0108
Moon	9196-07-07 20:09 G	5080018.20	5080018.34	5080018.51	0.0145	0.0114 *
Moon	9197-07-12 13:11 G	5080387.83	5080388.05	5080388.30	0.0145	0.0060
Earth	9197-07-12 16:48 G	5080387.98	5080388.20	5080388.44	0.0145	0.0063 *
Earth	9198-07-17 16:48 G	5080757.95	5080758.20	5080758.45	0.0145	0.0017
Moon	9198-07-17 19:26 G	5080758.07	5080758.31	5080758.56	0.0145	0.0015 *
Moon	9199-07-22 13:55 G	5081127.83	5081128.08	5081128.34	0.0145	0.0023
Earth	9199-07-22 16:33 G	5081127.94	5081128.19	5081128.44	0.0145	0.0029 *
Earth	9200-07-26 15:50 G	5081497.95	5081498.16	5081498.39	0.0144	0.0074
Moon	9200-07-26 18:00 G	5081498.06	5081498.25	5081498.46	0.0144	0.0082 *
Mercury	9200-12-09 11:31 G	5081633.90	5081633.98	5081634.07	0.0144	0.0124
Mercury	9201-03-07 18:14 G	5081722.14	5081722.26	5081722.40	0.0144	0.0097

Mercury	9201-06-04 01:11 G	5081810.41	5081810.55	5081810.71	0.0144	0.0070
Moon	9201-07-31 14:23 G	5081867.94	5081868.10	5081868.27	0.0144	0.0112
Earth	9201-07-31 15:07 G	5081868.01	5081868.13	5081868.29	0.0144	0.0119 *
Mercury	9201-08-31 08:23 G	5081898.68	5081898.85	5081899.02	0.0144	0.0043
Mercury	9201-11-27 15:21 G	5081986.97	5081987.14	5081987.32	0.0144	0.0016
Mercury	9202-02-23 22:33 G	5082075.26	5082075.44	5082075.62	0.0144	0.0012
Mercury	9202-05-23 05:45 G	5082163.57	5082163.74	5082163.91	0.0144	0.0040
Mercury	9202-08-19 12:57 G	5082251.88	5082252.04	5082252.20	0.0144	0.0068
Mercury	9202-11-15 20:09 G	5082340.21	5082340.34	5082340.48	0.0144	0.0096
Mercury	9203-02-12 03:21 G	5082428.56	5082428.64	5082428.74	0.0144	0.0124
Venus	9203-07-24 12:28 G	5082591.01	5082591.02	5082591.04	0.0143	0.0143
Venus	9204-03-06 23:31 G	5082817.32	5082817.48	5082817.66	0.0143	0.0092
Venus	9204-10-19 10:48 G	5083043.75	5083043.95	5083044.16	0.0143	0.0040
Venus	9205-06-02 22:04 G	5083270.20	5083270.42	5083270.64	0.0143	0.0011
Venus	9206-01-15 08:38 G	5083496.68	5083496.86	5083497.07	0.0143	0.0063
Venus	9206-08-29 19:26 G	5083723.19	5083723.31	5083723.45	0.0142	0.0113
Mars	9231-12-18 00:14 G	5092964.29	5092964.51	5092964.78	0.0133	0.0069
Mars	9233-11-15 22:04 G	5093663.15	5093663.42	5093663.70	0.0133	0.0027
Mars	9235-10-15 17:02 G	5094362.12	5094362.21	5094362.35	0.0133	0.0121
Moon	9238-01-05 15:36 G	5095175.09	5095175.15	5095175.25	0.0133	0.0126
Earth	9238-01-05 17:45 G	5095175.20	5095175.24	5095175.29	0.0133	0.0131 *
Earth	9239-01-10 01:40 G	5095544.41	5095544.57	5095544.77	0.0133	0.0096
Moon	9239-01-10 03:36 G	5095544.48	5095544.65	5095544.83	0.0133	0.0099 *
Moon	9240-01-14 08:23 G	5095913.64	5095913.85	5095914.08	0.0133	0.0060
Earth	9240-01-14 10:19 G	5095913.71	5095913.93	5095914.16	0.0133	0.0060 *
Earth	9241-01-17 18:28 G	5096283.02	5096283.27	5096283.53	0.0133	0.0024
Moon	9241-01-17 20:38 G	5096283.11	5096283.36	5096283.63	0.0133	0.0020 *
Moon	9242-01-22 01:11 G	5096652.30	5096652.55	5096652.80	0.0134	0.0008
Earth	9242-01-22 02:52 G	5096652.37	5096652.62	5096652.88	0.0134	0.0012 *
Earth	9243-01-26 10:48 G	5097021.73	5097021.95	5097022.20	0.0134	0.0049

Moon	9243-01-26 13:40 G	5097021.83	5097022.07	5097022.31	0.0134	0.0055 *
Mercury	9243-09-19 16:19 G	5097258.13	5097258.18	5097258.24	0.0134	0.0123
Mercury	9243-12-16 19:55 G	5097346.25	5097346.33	5097346.42	0.0134	0.0105
Moon	9244-01-30 17:02 G	5097391.03	5097391.21	5097391.43	0.0134	0.0078
Earth	9244-01-30 19:11 G	5097391.12	5097391.30	5097391.51	0.0134	0.0085 *
Mercury	9244-03-13 23:31 G	5097434.38	5097434.48	5097434.59	0.0134	0.0087
Mercury	9244-06-10 03:07 G	5097522.51	5097522.63	5097522.75	0.0134	0.0069
Mercury	9244-09-06 06:28 G	5097610.65	5097610.77	5097610.91	0.0134	0.0053
Mercury	9244-12-03 10:19 G	5097698.79	5097698.93	5097699.06	0.0134	0.0034
Earth	9245-02-03 03:50 G	5097760.57	5097760.66	5097760.79	0.0134	0.0121
Moon	9245-02-03 06:43 G	5097760.69	5097760.78	5097760.88	0.0134	0.0125 *
Mercury	9245-03-01 13:40 G	5097786.93	5097787.07	5097787.21	0.0134	0.0017
Mercury	9245-05-28 17:16 G	5097875.08	5097875.22	5097875.36	0.0134	0.0004
Mercury	9245-08-24 20:38 G	5097963.22	5097963.36	5097963.50	0.0134	0.0018
Mercury	9245-11-21 00:00 G	5098051.37	5098051.50	5098051.64	0.0134	0.0036
Mercury	9246-02-17 03:21 G	5098139.52	5098139.64	5098139.77	0.0134	0.0053
Mercury	9246-05-16 06:43 G	5098227.67	5098227.78	5098227.91	0.0134	0.0070
Mercury	9246-08-12 10:04 G	5098315.82	5098315.92	5098316.03	0.0135	0.0088
Mercury	9246-11-08 13:26 G	5098403.98	5098404.06	5098404.15	0.0135	0.0105
Mercury	9247-02-04 16:48 G	5098492.15	5098492.20	5098492.27	0.0135	0.0122
Venus	9247-07-21 05:02 G	5098658.59	5098658.71	5098658.87	0.0135	0.0103
Venus	9248-03-03 11:31 G	5098884.79	5098884.98	5098885.18	0.0135	0.0060
Venus	9248-10-15 18:00 G	5099111.04	5099111.25	5099111.47	0.0135	0.0017
Venus	9249-05-30 00:14 G	5099337.31	5099337.51	5099337.74	0.0135	0.0027
Venus	9250-01-11 06:57 G	5099563.61	5099563.79	5099563.98	0.0136	0.0070
Venus	9250-08-25 13:26 G	5099789.96	5099790.06	5099790.19	0.0136	0.0113
Mars	9274-03-20 03:21 G	5108397.47	5108397.64	5108397.85	0.0145	0.0119
Mars	9276-02-25 16:19 G	5109104.85	5109105.18	5109105.51	0.0145	0.0032
Earth	9280-07-08 01:26 G	5110699.40	5110699.56	5110699.74	0.0145	0.0105
Moon	9280-07-08 05:02 G	5110699.54	5110699.71	5110699.91	0.0145	0.0098 *

Moon	9281-07-12 21:50 G	5111069.19	5111069.41	5111069.65	0.0145	0.0063
Earth	9281-07-13 01:11 G	5111069.33	5111069.55	5111069.79	0.0145	0.0060 *
Earth	9282-07-18 00:57 G	5111439.30	5111439.54	5111439.80	0.0145	0.0014
Moon	9282-07-18 04:19 G	5111439.44	5111439.68	5111439.93	0.0145	0.0016 *
Moon	9283-07-22 21:50 G	5111809.16	5111809.41	5111809.66	0.0145	0.0037
Earth	9283-07-23 00:43 G	5111809.29	5111809.53	5111809.79	0.0145	0.0033 *
Earth	9284-07-27 00:28 G	5112179.31	5112179.52	5112179.74	0.0144	0.0078
Moon	9284-07-27 02:38 G	5112179.40	5112179.61	5112179.83	0.0144	0.0070 *
Mercury	9284-12-29 18:00 G	5112335.17	5112335.25	5112335.36	0.0144	0.0120
Mercury	9285-03-28 00:57 G	5112423.42	5112423.54	5112423.69	0.0144	0.0093
Mercury	9285-06-24 08:09 G	5112511.68	5112511.84	5112512.00	0.0144	0.0065
Moon	9285-07-31 21:21 G	5112549.29	5112549.39	5112549.52	0.0144	0.0129
Earth	9285-07-31 23:45 G	5112549.37	5112549.49	5112549.63	0.0144	0.0122 *
Mercury	9285-09-20 15:07 G	5112599.96	5112600.13	5112600.31	0.0144	0.0038
Mercury	9285-12-17 22:19 G	5112688.25	5112688.43	5112688.61	0.0144	0.0011
Mercury	9286-03-16 05:16 G	5112776.55	5112776.72	5112776.90	0.0144	0.0017
Mercury	9286-06-12 12:28 G	5112864.85	5112865.02	5112865.19	0.0144	0.0045
Mercury	9286-09-08 19:40 G	5112953.17	5112953.32	5112953.48	0.0144	0.0073
Mercury	9286-12-06 02:52 G	5113041.50	5113041.62	5113041.75	0.0144	0.0101
Mercury	9287-03-04 10:04 G	5113129.85	5113129.92	5113130.01	0.0144	0.0129
Venus	9287-11-05 05:16 G	5113375.60	5113375.72	5113375.85	0.0143	0.0117
Venus	9288-06-18 16:33 G	5113602.01	5113602.19	5113602.39	0.0143	0.0065
Venus	9289-01-31 03:50 G	5113828.45	5113828.66	5113828.88	0.0143	0.0014
Venus	9289-09-14 14:38 G	5114054.91	5114055.11	5114055.33	0.0143	0.0038
Venus	9290-04-29 01:26 G	5114281.40	5114281.56	5114281.74	0.0142	0.0088
Venus	9290-12-11 12:00 G	5114507.97	5114508.00	5114508.07	0.0142	0.0139
Mars	9314-09-13 01:26 G	5123183.46	5123183.56	5123183.65	0.0134	0.0125
Mars	9316-08-12 00:43 G	5123882.25	5123882.53	5123882.81	0.0133	0.0029
Mars	9318-07-11 21:21 G	5124581.16	5124581.39	5124581.65	0.0133	0.0066
Earth	9322-01-07 02:09 G	5125856.53	5125856.59	5125856.67	0.0133	0.0127

Earth	9323-01-11 10:19 G	5126225.76	5126225.93	5126226.12	0.0133	0.0092
Moon	9323-01-11 11:16 G	5126225.79	5126225.97	5126226.19	0.0133	0.0090 *
Moon	9324-01-15 17:31 G	5126595.01	5126595.23	5126595.46	0.0133	0.0058
Earth	9324-01-15 18:28 G	5126595.05	5126595.27	5126595.51	0.0133	0.0057 *
Earth	9325-01-19 02:52 G	5126964.37	5126964.62	5126964.87	0.0133	0.0020
Moon	9325-01-19 03:50 G	5126964.41	5126964.66	5126964.93	0.0133	0.0023 *
Moon	9326-01-23 09:36 G	5127333.65	5127333.90	5127334.14	0.0134	0.0021
Earth	9326-01-23 11:16 G	5127333.72	5127333.97	5127334.22	0.0134	0.0016 *
Earth	9327-01-27 19:11 G	5127703.08	5127703.30	5127703.55	0.0134	0.0052
Moon	9327-01-27 20:23 G	5127703.12	5127703.35	5127703.61	0.0134	0.0046 *
Mercury	9327-10-10 23:02 G	5127959.41	5127959.46	5127959.53	0.0134	0.0120
Mercury	9328-01-07 02:38 G	5128047.53	5128047.61	5128047.71	0.0134	0.0102
Moon	9328-02-01 02:09 G	5128072.42	5128072.59	5128072.76	0.0134	0.0094
Earth	9328-02-01 03:36 G	5128072.47	5128072.65	5128072.86	0.0134	0.0088 *
Mercury	9328-04-04 06:28 G	5128135.66	5128135.77	5128135.88	0.0134	0.0084
Mercury	9328-07-01 10:04 G	5128223.80	5128223.92	5128224.04	0.0134	0.0066
Mercury	9328-09-27 13:26 G	5128311.93	5128312.06	5128312.20	0.0134	0.0049
Mercury	9328-12-24 17:02 G	5128400.08	5128400.21	5128400.35	0.0134	0.0031
Earth	9329-02-04 12:14 G	5128441.94	5128442.01	5128442.12	0.0134	0.0124
Moon	9329-02-04 14:38 G	5128441.99	5128442.11	5128442.24	0.0134	0.0118 *
Mercury	9329-03-22 20:38 G	5128488.22	5128488.36	5128488.50	0.0134	0.0014
Mercury	9329-06-19 00:00 G	5128576.36	5128576.50	5128576.64	0.0134	0.0005
Mercury	9329-09-15 03:36 G	5128664.51	5128664.65	5128664.78	0.0134	0.0022
Mercury	9329-12-12 06:57 G	5128752.66	5128752.79	5128752.92	0.0134	0.0039
Mercury	9330-03-10 10:19 G	5128840.81	5128840.93	5128841.06	0.0134	0.0056
Mercury	9330-06-06 13:40 G	5128928.96	5128929.07	5128929.19	0.0134	0.0074
Mercury	9330-09-02 17:02 G	5129017.12	5129017.21	5129017.32	0.0135	0.0091
Mercury	9330-11-29 20:23 G	5129105.28	5129105.35	5129105.44	0.0135	0.0108
Mercury	9331-02-25 23:45 G	5129193.45	5129193.49	5129193.55	0.0135	0.0125
Venus	9331-03-21 13:40 G	5129216.99	5129217.07	5129217.16	0.0135	0.0123

Venus	9331-11-02 19:55 G	5129443.17	5129443.33	5129443.51	0.0135	0.0081
Venus	9332-06-16 02:23 G	5129669.39	5129669.60	5129669.81	0.0135	0.0038
Venus	9333-01-28 08:52 G	5129895.65	5129895.87	5129896.09	0.0135	0.0005
Venus	9333-09-11 15:07 G	5130121.93	5130122.13	5130122.34	0.0136	0.0049
Venus	9334-04-25 21:36 G	5130348.25	5130348.40	5130348.57	0.0136	0.0092
Venus	9334-12-08 04:19 G	5130574.67	5130574.68	5130574.71	0.0136	0.0135
Mars	9358-11-15 14:09 G	5139317.79	5139318.09	5139318.40	0.0145	0.0060
Mars	9360-10-23 04:19 G	5140025.45	5140025.68	5140025.97	0.0145	0.0092
Moon	9363-07-05 06:57 G	5141010.73	5141010.79	5141010.86	0.0145	0.0140
Earth	9364-07-09 09:36 G	5141380.74	5141380.90	5141381.10	0.0145	0.0102
Moon	9364-07-09 13:11 G	5141380.90	5141381.05	5141381.23	0.0145	0.0108 *
Moon	9365-07-14 05:45 G	5141750.51	5141750.74	5141750.98	0.0145	0.0052
Earth	9365-07-14 09:36 G	5141750.67	5141750.90	5141751.14	0.0145	0.0056 *
Earth	9366-07-19 09:21 G	5142120.64	5142120.89	5142121.14	0.0145	0.0010
Moon	9366-07-19 12:43 G	5142120.78	5142121.03	5142121.28	0.0145	0.0010 *
Moon	9367-07-24 05:45 G	5142490.49	5142490.74	5142491.00	0.0145	0.0030
Earth	9367-07-24 09:07 G	5142490.64	5142490.88	5142491.13	0.0145	0.0036 *
Earth	9368-07-28 08:23 G	5142860.65	5142860.85	5142861.07	0.0144	0.0081
Moon	9368-07-28 11:31 G	5142860.79	5142860.98	5142861.19	0.0144	0.0088 *
Mercury	9368-10-23 18:00 G	5142948.23	5142948.25	5142948.29	0.0144	0.0141
Mercury	9369-01-20 00:57 G	5143036.44	5143036.54	5143036.65	0.0144	0.0115
Mercury	9369-04-18 07:55 G	5143124.69	5143124.83	5143124.97	0.0144	0.0088
Mercury	9369-07-15 14:52 G	5143212.96	5143213.12	5143213.28	0.0144	0.0061
Moon	9369-08-02 05:31 G	5143230.60	5143230.73	5143230.89	0.0144	0.0119
Earth	9369-08-02 07:55 G	5143230.73	5143230.83	5143230.97	0.0144	0.0126 *
Mercury	9369-10-11 21:50 G	5143301.24	5143301.41	5143301.59	0.0144	0.0033
Mercury	9370-01-08 05:02 G	5143389.53	5143389.71	5143389.89	0.0144	0.0006
Mercury	9370-04-06 12:00 G	5143477.83	5143478.00	5143478.18	0.0144	0.0022
Mercury	9370-07-03 19:11 G	5143566.13	5143566.30	5143566.47	0.0144	0.0050
Mercury	9370-09-30 02:09 G	5143654.45	5143654.59	5143654.75	0.0144	0.0078

Mercury	9370-12-27 09:21 G	5143742.78	5143742.89	5143743.03	0.0144	0.0106
Mercury	9371-03-25 16:48 G	5143831.15	5143831.20	5143831.27	0.0144	0.0134
Venus	9371-07-06 11:02 G	5143933.93	5143933.96	5143933.99	0.0144	0.0142
Venus	9372-02-17 22:04 G	5144160.27	5144160.42	5144160.60	0.0143	0.0091
Venus	9372-10-01 09:21 G	5144386.69	5144386.89	5144387.11	0.0143	0.0039
Venus	9373-05-15 20:38 G	5144613.15	5144613.36	5144613.58	0.0143	0.0012
Venus	9373-12-28 07:26 G	5144839.62	5144839.81	5144840.01	0.0143	0.0063
Venus	9374-08-11 18:14 G	5145066.14	5145066.26	5145066.40	0.0142	0.0114
Mars	9399-05-08 00:14 G	5154101.31	5154101.51	5154101.75	0.0133	0.0087
Mars	9401-04-07 00:00 G	5154800.22	5154800.50	5154800.79	0.0133	0.0009
Mars	9403-03-06 19:11 G	5155499.13	5155499.30	5155499.49	0.0133	0.0102
Moon	9406-01-08 09:36 G	5156537.80	5156537.90	5156538.02	0.0133	0.0120
Earth	9406-01-08 09:36 G	5156537.84	5156537.90	5156538.01	0.0133	0.0126 *
Earth	9407-01-12 18:00 G	5156907.07	5156907.25	5156907.45	0.0133	0.0090
Moon	9407-01-12 17:45 G	5156907.08	5156907.24	5156907.45	0.0133	0.0095 *
Moon	9408-01-17 01:55 G	5157276.36	5157276.58	5157276.81	0.0133	0.0052
Earth	9408-01-17 02:23 G	5157276.37	5157276.60	5157276.84	0.0133	0.0054 *
Earth	9409-01-20 10:33 G	5157645.69	5157645.94	5157646.20	0.0133	0.0018
Moon	9409-01-20 11:31 G	5157645.72	5157645.98	5157646.24	0.0133	0.0016 *
Moon	9410-01-24 18:28 G	5158015.03	5158015.27	5158015.52	0.0134	0.0015
Earth	9410-01-24 18:57 G	5158015.04	5158015.29	5158015.54	0.0134	0.0019 *
Earth	9411-01-29 03:07 G	5158384.41	5158384.63	5158384.87	0.0134	0.0055
Moon	9411-01-29 04:33 G	5158384.45	5158384.69	5158384.92	0.0134	0.0061 *
Mercury	9411-11-01 05:45 G	5158660.69	5158660.74	5158660.82	0.0134	0.0117
Mercury	9412-01-28 09:36 G	5158748.81	5158748.90	5158749.00	0.0134	0.0099
Moon	9412-02-02 10:33 G	5158753.77	5158753.94	5158754.15	0.0134	0.0085
Earth	9412-02-02 11:31 G	5158753.81	5158753.98	5158754.18	0.0134	0.0092 *
Mercury	9412-04-25 13:11 G	5158836.94	5158837.05	5158837.16	0.0134	0.0081
Mercury	9412-07-22 16:48 G	5158925.08	5158925.20	5158925.32	0.0134	0.0063
Mercury	9412-10-18 20:09 G	5159013.22	5159013.34	5159013.48	0.0134	0.0046

Mercury	9413-01-14 23:45 G	5159101.36	5159101.49	5159101.63	0.0134	0.0029
Earth	9413-02-05 20:23 G	5159123.29	5159123.35	5159123.44	0.0134	0.0128
Moon	9413-02-05 21:50 G	5159123.38	5159123.41	5159123.45	0.0134	0.0133 *
Mercury	9413-04-13 03:21 G	5159189.50	5159189.64	5159189.78	0.0134	0.0011
Mercury	9413-07-10 06:57 G	5159277.65	5159277.79	5159277.93	0.0134	0.0007
Mercury	9413-10-06 10:19 G	5159365.79	5159365.93	5159366.07	0.0134	0.0024
Mercury	9414-01-02 13:40 G	5159453.94	5159454.07	5159454.21	0.0134	0.0042
Mercury	9414-03-31 17:16 G	5159542.09	5159542.22	5159542.34	0.0134	0.0059
Mercury	9414-06-27 20:23 G	5159630.25	5159630.35	5159630.47	0.0135	0.0077
Mercury	9414-09-23 23:45 G	5159718.41	5159718.49	5159718.60	0.0135	0.0094
Mercury	9414-12-21 03:21 G	5159806.57	5159806.64	5159806.72	0.0135	0.0110
Mercury	9415-03-19 06:28 G	5159894.74	5159894.77	5159894.83	0.0135	0.0128
Venus	9415-07-04 03:50 G	5160001.54	5160001.66	5160001.82	0.0135	0.0102
Venus	9416-02-15 10:19 G	5160227.74	5160227.93	5160228.13	0.0135	0.0059
Venus	9416-09-28 16:48 G	5160453.98	5160454.20	5160454.42	0.0135	0.0016
Venus	9417-05-12 23:02 G	5160680.25	5160680.46	5160680.68	0.0135	0.0027
Venus	9417-12-25 05:31 G	5160906.56	5160906.73	5160906.93	0.0136	0.0071
Venus	9418-08-08 12:00 G	5161132.90	5161133.00	5161133.13	0.0136	0.0114
Mars	9443-07-14 02:23 G	5170238.26	5170238.60	5170238.94	0.0145	0.0001
Earth	9447-07-06 18:57 G	5171692.28	5171692.29	5171692.33	0.0145	0.0144
Earth	9448-07-10 18:28 G	5172062.10	5172062.27	5172062.46	0.0145	0.0099
Moon	9448-07-10 22:04 G	5172062.23	5172062.42	5172062.63	0.0145	0.0091 *
Moon	9449-07-15 15:07 G	5172431.90	5172432.13	5172432.36	0.0145	0.0057
Earth	9449-07-15 18:14 G	5172432.04	5172432.26	5172432.51	0.0145	0.0053 *
Earth	9450-07-20 18:14 G	5172802.00	5172802.26	5172802.51	0.0145	0.0007
Moon	9450-07-20 21:50 G	5172802.16	5172802.41	5172802.66	0.0145	0.0008 *
Moon	9451-07-25 14:09 G	5173171.85	5173172.09	5173172.34	0.0145	0.0043
Earth	9451-07-25 17:31 G	5173172.00	5173172.23	5173172.49	0.0145	0.0040 *
Earth	9452-07-29 17:02 G	5173542.02	5173542.21	5173542.43	0.0144	0.0086
Moon	9452-07-29 20:23 G	5173542.15	5173542.35	5173542.57	0.0144	0.0078 *

Mercury	9452-11-14 00:43 G	5173649.49	5173649.53	5173649.60	0.0144	0.0137
Mercury	9453-02-10 07:55 G	5173737.72	5173737.83	5173737.95	0.0144	0.0109
Mercury	9453-05-09 14:52 G	5173825.98	5173826.12	5173826.26	0.0144	0.0082
Moon	9453-08-03 13:40 G	5173912.00	5173912.07	5173912.15	0.0144	0.0138
Earth	9453-08-03 16:33 G	5173912.10	5173912.19	5173912.32	0.0144	0.0130 *
Mercury	9453-08-05 21:50 G	5173914.25	5173914.41	5173914.57	0.0144	0.0055
Mercury	9453-11-02 04:48 G	5174002.53	5174002.70	5174002.88	0.0144	0.0028
Mercury	9454-01-29 11:45 G	5174090.82	5174090.99	5174091.17	0.0144	0.0004
Mercury	9454-04-27 18:57 G	5174179.12	5174179.29	5174179.47	0.0144	0.0027
Mercury	9454-07-25 01:55 G	5174267.42	5174267.58	5174267.76	0.0144	0.0055
Mercury	9454-10-21 09:07 G	5174355.74	5174355.88	5174356.04	0.0144	0.0083
Mercury	9455-01-17 16:19 G	5174444.08	5174444.18	5174444.31	0.0144	0.0111
Mercury	9455-04-15 23:31 G	5174532.45	5174532.48	5174532.54	0.0144	0.0139
Venus	9455-10-19 03:50 G	5174718.54	5174718.66	5174718.80	0.0143	0.0116
Venus	9456-06-01 15:21 G	5174944.95	5174945.14	5174945.34	0.0143	0.0064
Venus	9457-01-14 02:38 G	5175171.39	5175171.61	5175171.82	0.0143	0.0013
Venus	9457-08-28 13:26 G	5175397.85	5175398.06	5175398.27	0.0143	0.0038
Venus	9458-04-12 00:14 G	5175624.34	5175624.51	5175624.68	0.0143	0.0089
Venus	9458-11-24 11:02 G	5175850.92	5175850.96	5175851.01	0.0142	0.0139
Mars	9484-01-01 01:55 G	5185019.31	5185019.58	5185019.84	0.0133	0.0047
Mars	9485-11-30 00:14 G	5185718.25	5185718.51	5185718.78	0.0133	0.0048
Earth	9490-01-08 18:14 G	5187219.18	5187219.26	5187219.37	0.0133	0.0123
Moon	9490-01-08 19:11 G	5187219.26	5187219.30	5187219.37	0.0133	0.0130 *
Moon	9491-01-13 02:09 G	5187588.39	5187588.59	5187588.81	0.0133	0.0082
Earth	9491-01-13 02:23 G	5187588.43	5187588.60	5187588.81	0.0133	0.0088 *
Earth	9492-01-17 11:02 G	5187957.73	5187957.96	5187958.20	0.0133	0.0051
Moon	9492-01-17 11:02 G	5187957.75	5187957.96	5187958.20	0.0133	0.0054 *
Moon	9493-01-20 18:57 G	5188327.03	5188327.29	5188327.55	0.0133	0.0014
Earth	9493-01-20 19:26 G	5188327.05	5188327.31	5188327.56	0.0133	0.0014 *
Moon	9494-01-25 03:21 G	5188696.40	5188696.64	5188696.89	0.0134	0.0026

Earth	9494-01-25 03:50 G	5188696.41	5188696.66	5188696.91	0.0134	0.0022 *
Moon	9495-01-29 11:45 G	5189065.76	5189065.99	5189066.24	0.0134	0.0053
Earth	9495-01-29 11:45 G	5189065.78	5189065.99	5189066.24	0.0134	0.0059 *
Mercury	9495-08-25 09:21 G	5189273.87	5189273.89	5189273.92	0.0134	0.0131
Mercury	9495-11-21 12:57 G	5189361.97	5189362.04	5189362.12	0.0134	0.0113
Moon	9496-02-02 19:55 G	5189435.19	5189435.33	5189435.51	0.0134	0.0102
Earth	9496-02-02 20:23 G	5189435.19	5189435.35	5189435.55	0.0134	0.0095 *
Mercury	9496-02-17 16:33 G	5189450.09	5189450.19	5189450.29	0.0134	0.0095
Mercury	9496-05-15 19:55 G	5189538.23	5189538.33	5189538.46	0.0134	0.0078
Mercury	9496-08-11 23:45 G	5189626.36	5189626.49	5189626.62	0.0134	0.0060
Mercury	9496-11-08 03:21 G	5189714.50	5189714.64	5189714.77	0.0134	0.0042
Mercury	9497-02-04 06:43 G	5189802.65	5189802.78	5189802.92	0.0134	0.0025
Moon	9497-02-06 06:00 G	5189804.67	5189804.75	5189804.86	0.0134	0.0124
Earth	9497-02-06 05:16 G	5189804.69	5189804.72	5189804.79	0.0134	0.0132 *
Mercury	9497-05-03 10:19 G	5189890.79	5189890.93	5189891.07	0.0134	0.0007
Mercury	9497-07-30 13:55 G	5189978.94	5189979.08	5189979.22	0.0134	0.0011
Mercury	9497-10-26 17:16 G	5190067.09	5190067.22	5190067.36	0.0134	0.0028
Mercury	9498-01-22 20:38 G	5190155.23	5190155.36	5190155.50	0.0134	0.0045
Mercury	9498-04-21 00:00 G	5190243.39	5190243.50	5190243.63	0.0135	0.0063
Mercury	9498-07-18 03:36 G	5190331.54	5190331.65	5190331.76	0.0135	0.0080
Mercury	9498-10-14 06:57 G	5190419.70	5190419.79	5190419.89	0.0135	0.0097
Mercury	9499-01-10 10:19 G	5190507.86	5190507.93	5190508.01	0.0135	0.0114
Venus	9499-03-03 12:28 G	5190559.95	5190560.02	5190560.13	0.0135	0.0122
Mercury	9499-04-08 13:40 G	5190596.05	5190596.07	5190596.11	0.0135	0.0131
Venus	9499-10-15 18:57 G	5190786.12	5190786.29	5190786.47	0.0135	0.0079
Venus	9500-05-30 01:11 G	5191012.35	5191012.55	5191012.77	0.0135	0.0037
Venus	9501-01-11 07:40 G	5191238.60	5191238.82	5191239.04	0.0135	0.0006
Venus	9501-08-25 13:55 G	5191464.89	5191465.08	5191465.29	0.0136	0.0050
Venus	9502-04-08 20:23 G	5191691.20	5191691.35	5191691.52	0.0136	0.0093
Mars	9526-04-03 03:36 G	5200451.41	5200451.65	5200451.93	0.0145	0.0090

Mars	9528-03-10 15:21 G	5201158.84	5201159.14	5201159.45	0.0145	0.0060
Moon	9531-07-08 01:26 G	5202373.49	5202373.56	5202373.66	0.0145	0.0135
Earth	9531-07-08 03:50 G	5202373.63	5202373.66	5202373.73	0.0145	0.0143 *
Earth	9532-07-12 03:36 G	5202743.47	5202743.65	5202743.85	0.0145	0.0097
Moon	9532-07-12 06:43 G	5202743.61	5202743.78	5202743.97	0.0145	0.0103 *
Moon	9533-07-17 00:00 G	5203113.27	5203113.50	5203113.74	0.0145	0.0045
Earth	9533-07-17 03:36 G	5203113.42	5203113.65	5203113.89	0.0145	0.0050 *
Earth	9534-07-22 03:21 G	5203483.39	5203483.64	5203483.89	0.0145	0.0004
Moon	9534-07-22 06:43 G	5203483.53	5203483.78	5203484.04	0.0145	0.0005 *
Moon	9535-07-26 23:16 G	5203853.23	5203853.47	5203853.72	0.0145	0.0039
Earth	9535-07-27 03:07 G	5203853.39	5203853.63	5203853.87	0.0145	0.0043 *
Earth	9536-07-31 02:38 G	5204223.42	5204223.61	5204223.81	0.0144	0.0089
Moon	9536-07-31 06:00 G	5204223.58	5204223.75	5204223.95	0.0144	0.0095 *
Mercury	9536-12-05 07:55 G	5204350.77	5204350.83	5204350.91	0.0144	0.0130
Mercury	9537-03-03 14:52 G	5204439.01	5204439.12	5204439.25	0.0144	0.0104
Mercury	9537-05-30 21:50 G	5204527.27	5204527.41	5204527.56	0.0144	0.0077
Moon	9537-08-04 23:02 G	5204593.35	5204593.46	5204593.60	0.0144	0.0126
Earth	9537-08-05 02:09 G	5204593.52	5204593.59	5204593.70	0.0144	0.0134 *
Mercury	9537-08-27 04:48 G	5204615.54	5204615.70	5204615.87	0.0144	0.0050
Mercury	9537-11-23 12:00 G	5204703.82	5204704.00	5204704.17	0.0144	0.0022
Mercury	9538-02-19 18:57 G	5204792.11	5204792.29	5204792.47	0.0144	0.0005
Mercury	9538-05-19 01:55 G	5204880.41	5204880.58	5204880.76	0.0144	0.0033
Mercury	9538-08-15 09:07 G	5204968.72	5204968.88	5204969.05	0.0144	0.0061
Mercury	9538-11-11 16:04 G	5205057.04	5205057.17	5205057.32	0.0144	0.0089
Mercury	9539-02-07 23:16 G	5205145.38	5205145.47	5205145.59	0.0144	0.0117
Venus	9539-06-19 09:50 G	5205276.89	5205276.91	5205276.98	0.0144	0.0141
Venus	9540-01-31 21:36 G	5205503.23	5205503.40	5205503.57	0.0143	0.0089
Venus	9540-09-14 08:38 G	5205729.66	5205729.86	5205730.08	0.0143	0.0038
Venus	9541-04-28 19:40 G	5205956.11	5205956.32	5205956.54	0.0143	0.0014
Venus	9541-12-11 06:28 G	5206182.59	5206182.77	5206182.97	0.0143	0.0065

Venus	9542-07-25 17:31 G	5206409.10	5206409.23	5206409.36	0.0142	0.0115
Mars	9566-09-27 00:43 G	5215238.37	5215238.53	5215238.73	0.0134	0.0104
Mars	9568-08-26 02:09 G	5215937.31	5215937.59	5215937.87	0.0133	0.0008
Mars	9570-07-25 21:07 G	5216636.19	5216636.38	5216636.62	0.0133	0.0086
Earth	9574-01-10 02:23 G	5217900.50	5217900.60	5217900.71	0.0133	0.0121
Moon	9574-01-10 03:21 G	5217900.53	5217900.64	5217900.78	0.0133	0.0115 *
Moon	9575-01-14 09:07 G	5218269.70	5218269.88	5218270.09	0.0133	0.0090
Earth	9575-01-14 10:33 G	5218269.75	5218269.94	5218270.15	0.0133	0.0085 *
Earth	9576-01-18 18:57 G	5218639.06	5218639.29	5218639.54	0.0133	0.0049
Moon	9576-01-18 20:09 G	5218639.11	5218639.34	5218639.58	0.0133	0.0045 *
Moon	9577-01-22 02:52 G	5219008.36	5219008.62	5219008.88	0.0133	0.0012
Earth	9577-01-22 03:36 G	5219008.39	5219008.65	5219008.90	0.0133	0.0012 *
Earth	9578-01-26 11:45 G	5219377.74	5219377.99	5219378.25	0.0134	0.0025
Moon	9578-01-26 12:57 G	5219377.80	5219378.04	5219378.28	0.0134	0.0023 *
Moon	9579-01-30 19:55 G	5219747.11	5219747.33	5219747.57	0.0134	0.0067
Earth	9579-01-30 20:09 G	5219747.13	5219747.34	5219747.58	0.0134	0.0062 *
Mercury	9579-09-15 16:04 G	5219975.14	5219975.17	5219975.22	0.0134	0.0128
Mercury	9579-12-12 19:40 G	5220063.25	5220063.32	5220063.41	0.0134	0.0110
Earth	9580-02-04 05:02 G	5220116.55	5220116.71	5220116.89	0.0134	0.0098
Moon	9580-02-04 05:45 G	5220116.56	5220116.74	5220116.92	0.0134	0.0091 *
Mercury	9580-03-09 23:31 G	5220151.38	5220151.48	5220151.58	0.0134	0.0092
Mercury	9580-06-06 03:07 G	5220239.51	5220239.63	5220239.75	0.0134	0.0074
Mercury	9580-09-02 06:28 G	5220327.65	5220327.77	5220327.90	0.0134	0.0057
Mercury	9580-11-29 10:04 G	5220415.79	5220415.92	5220416.06	0.0134	0.0039
Mercury	9581-02-25 13:40 G	5220503.93	5220504.07	5220504.21	0.0134	0.0022
Mercury	9581-05-24 17:16 G	5220592.08	5220592.22	5220592.36	0.0134	0.0004
Mercury	9581-08-20 20:38 G	5220680.22	5220680.36	5220680.50	0.0134	0.0014
Mercury	9581-11-17 00:00 G	5220768.37	5220768.50	5220768.64	0.0134	0.0032
Mercury	9582-02-13 03:36 G	5220856.52	5220856.65	5220856.78	0.0134	0.0048
Mercury	9582-05-12 06:57 G	5220944.67	5220944.79	5220944.92	0.0135	0.0066

Mercury	9582-08-08 10:19 G	5221032.83	5221032.93	5221033.05	0.0135	0.0083
Mercury	9582-11-04 13:55 G	5221120.99	5221121.08	5221121.17	0.0135	0.0100
Mercury	9583-01-31 17:16 G	5221209.15	5221209.22	5221209.29	0.0135	0.0117
Mercury	9583-04-29 20:23 G	5221297.35	5221297.35	5221297.37	0.0135	0.0134
Venus	9583-06-16 03:07 G	5221344.50	5221344.63	5221344.79	0.0135	0.0100
Venus	9584-01-28 09:36 G	5221570.70	5221570.90	5221571.10	0.0135	0.0057
Venus	9584-09-10 15:50 G	5221796.94	5221797.16	5221797.38	0.0135	0.0014
Venus	9585-04-24 22:04 G	5222023.21	5222023.42	5222023.64	0.0135	0.0029
Venus	9585-12-07 04:33 G	5222249.51	5222249.69	5222249.88	0.0136	0.0072
Venus	9586-07-21 11:02 G	5222475.86	5222475.96	5222476.08	0.0136	0.0115
Mars	9610-11-28 16:33 G	5231371.86	5231372.19	5231372.52	0.0145	0.0030
Mars	9612-11-05 06:14 G	5232079.60	5232079.76	5232079.97	0.0145	0.0121
Earth	9615-07-08 13:40 G	5233055.02	5233055.07	5233055.15	0.0145	0.0140
Earth	9616-07-12 13:11 G	5233424.87	5233425.05	5233425.26	0.0145	0.0094
Moon	9616-07-12 16:04 G	5233424.98	5233425.17	5233425.39	0.0145	0.0086 *
Moon	9617-07-17 10:19 G	5233794.71	5233794.93	5233795.17	0.0145	0.0053
Earth	9617-07-17 13:26 G	5233794.82	5233795.06	5233795.30	0.0145	0.0047 *
Earth	9618-07-22 13:11 G	5234164.80	5234165.05	5234165.31	0.0145	0.0002
Moon	9618-07-22 16:48 G	5234164.95	5234165.20	5234165.46	0.0145	0.0003 *
Moon	9619-07-27 09:21 G	5234534.67	5234534.89	5234535.14	0.0145	0.0049
Earth	9619-07-27 13:11 G	5234534.81	5234535.05	5234535.29	0.0145	0.0046 *
Earth	9620-07-31 12:28 G	5234904.84	5234905.02	5234905.23	0.0144	0.0093
Moon	9620-07-31 16:04 G	5234904.98	5234905.17	5234905.39	0.0144	0.0086 *
Mercury	9620-12-25 15:21 G	5235052.06	5235052.14	5235052.23	0.0144	0.0123
Mercury	9621-03-23 22:04 G	5235140.30	5235140.42	5235140.56	0.0144	0.0097
Mercury	9621-06-20 05:02 G	5235228.56	5235228.71	5235228.87	0.0144	0.0070
Earth	9621-08-05 12:28 G	5235274.95	5235275.02	5235275.10	0.0144	0.0137
Mercury	9621-09-16 12:00 G	5235316.84	5235317.00	5235317.17	0.0144	0.0043
Mercury	9621-12-13 18:57 G	5235405.12	5235405.29	5235405.47	0.0144	0.0016
Mercury	9622-03-12 02:09 G	5235493.41	5235493.59	5235493.77	0.0144	0.0012

Mercury	9622-06-08 09:07 G	5235581.72	5235581.88	5235582.06	0.0144	0.0040
Mercury	9622-09-04 16:19 G	5235670.03	5235670.18	5235670.34	0.0144	0.0067
Mercury	9622-12-01 23:16 G	5235758.35	5235758.47	5235758.62	0.0144	0.0096
Mercury	9623-02-28 06:57 G	5235846.70	5235846.79	5235846.88	0.0144	0.0123
Venus	9623-10-01 03:50 G	5236061.54	5236061.66	5236061.81	0.0143	0.0113
Venus	9624-05-14 15:07 G	5236287.95	5236288.13	5236288.34	0.0143	0.0062
Venus	9624-12-27 02:23 G	5236514.39	5236514.60	5236514.82	0.0143	0.0011
Venus	9625-08-10 13:26 G	5236740.85	5236741.06	5236741.27	0.0143	0.0041
Venus	9626-03-25 00:00 G	5236967.34	5236967.50	5236967.68	0.0143	0.0092
Venus	9626-11-06 10:33 G	5237193.93	5237193.94	5237193.98	0.0142	0.0142
Mars	9651-05-22 03:07 G	5246156.40	5246156.63	5246156.90	0.0133	0.0064
Mars	9653-04-20 01:26 G	5246855.30	5246855.56	5246855.85	0.0133	0.0032
Mars	9655-03-19 20:52 G	5247554.28	5247554.37	5247554.48	0.0133	0.0123
Earth	9658-01-10 10:48 G	5248581.85	5248581.95	5248582.08	0.0133	0.0118
Moon	9658-01-10 13:11 G	5248581.98	5248582.05	5248582.14	0.0133	0.0126 *
Moon	9659-01-14 17:31 G	5248951.02	5248951.23	5248951.45	0.0133	0.0077
Earth	9659-01-14 19:26 G	5248951.12	5248951.31	5248951.52	0.0133	0.0082 *
Earth	9660-01-19 03:36 G	5249320.43	5249320.65	5249320.91	0.0133	0.0047
Moon	9660-01-19 05:31 G	5249320.50	5249320.73	5249320.96	0.0133	0.0050 *
Moon	9661-01-22 10:33 G	5249689.67	5249689.94	5249690.20	0.0133	0.0008
Earth	9661-01-22 12:28 G	5249689.76	5249690.02	5249690.27	0.0133	0.0009 *
Earth	9662-01-26 20:52 G	5250059.12	5250059.37	5250059.62	0.0134	0.0028
Moon	9662-01-26 21:50 G	5250059.18	5250059.41	5250059.66	0.0134	0.0031 *
Moon	9663-01-31 03:50 G	5250428.43	5250428.66	5250428.90	0.0134	0.0060
Earth	9663-01-31 05:16 G	5250428.51	5250428.72	5250428.96	0.0134	0.0065 *
Mercury	9663-10-05 23:02 G	5250676.42	5250676.46	5250676.52	0.0134	0.0124
Mercury	9664-01-02 02:52 G	5250764.54	5250764.62	5250764.71	0.0134	0.0106
Earth	9664-02-04 14:09 G	5250797.93	5250798.09	5250798.26	0.0134	0.0101
Moon	9664-02-04 15:21 G	5250797.99	5250798.14	5250798.28	0.0134	0.0107 *
Mercury	9664-03-30 06:28 G	5250852.67	5250852.77	5250852.88	0.0134	0.0088

Mercury	9664-06-26 10:04 G	5250940.80	5250940.92	5250941.04	0.0134	0.0071
Mercury	9664-09-22 13:26 G	5251028.94	5251029.06	5251029.20	0.0134	0.0054
Mercury	9664-12-19 17:16 G	5251117.08	5251117.22	5251117.35	0.0134	0.0035
Moon	9665-02-07 21:50 G	5251167.37	5251167.41	5251167.49	0.0134	0.0131
Mercury	9665-03-17 20:38 G	5251205.22	5251205.36	5251205.50	0.0134	0.0018
Mercury	9665-06-14 00:14 G	5251293.37	5251293.51	5251293.65	0.0134	0.0000
Mercury	9665-09-10 03:36 G	5251381.52	5251381.65	5251381.79	0.0134	0.0018
Mercury	9665-12-07 07:11 G	5251469.66	5251469.80	5251469.93	0.0134	0.0035
Mercury	9666-03-05 10:33 G	5251557.81	5251557.94	5251558.07	0.0134	0.0052
Mercury	9666-06-01 13:55 G	5251645.97	5251646.08	5251646.20	0.0135	0.0069
Mercury	9666-08-28 17:16 G	5251734.12	5251734.22	5251734.33	0.0135	0.0087
Mercury	9666-11-24 20:38 G	5251822.28	5251822.36	5251822.46	0.0135	0.0104
Venus	9667-02-13 12:00 G	5251902.91	5251903.00	5251903.11	0.0135	0.0119
Mercury	9667-02-21 00:00 G	5251910.45	5251910.50	5251910.57	0.0135	0.0121
Venus	9667-09-27 18:00 G	5252129.08	5252129.25	5252129.44	0.0135	0.0077
Venus	9668-05-11 00:28 G	5252355.31	5252355.52	5252355.73	0.0135	0.0035
Venus	9668-12-23 06:57 G	5252581.57	5252581.79	5252582.00	0.0135	0.0009
Venus	9669-08-06 12:57 G	5252807.85	5252808.04	5252808.25	0.0136	0.0052
Venus	9670-03-20 19:11 G	5253034.17	5253034.30	5253034.48	0.0136	0.0095
Jupiter	9689-12-20 16:19 G	5260248.72	5260249.18	5260249.70	0.0144	0.0049
Mars	9693-08-17 22:19 G	5261585.24	5261585.43	5261585.62	0.0145	0.0118
Mars	9695-07-26 06:00 G	5262292.42	5262292.75	5262293.08	0.0145	0.0030
Moon	9699-07-08 21:21 G	5263736.31	5263736.39	5263736.52	0.0145	0.0131
Earth	9699-07-08 23:02 G	5263736.40	5263736.46	5263736.56	0.0145	0.0137 *
Earth	9700-07-13 22:48 G	5264106.27	5264106.45	5264106.66	0.0145	0.0091
Moon	9700-07-14 00:57 G	5264106.37	5264106.54	5264106.75	0.0145	0.0098 *
Moon	9701-07-18 20:09 G	5264476.11	5264476.34	5264476.58	0.0145	0.0038
Earth	9701-07-18 23:02 G	5264476.22	5264476.46	5264476.70	0.0145	0.0044 *
Earth	9702-07-23 22:48 G	5264846.20	5264846.45	5264846.71	0.0145	0.0004
Moon	9702-07-24 01:55 G	5264846.32	5264846.58	5264846.84	0.0145	0.0001 *

Moon	9703-07-28 19:11 G	5265216.07	5265216.30	5265216.55	0.0145	0.0046
Earth	9703-07-28 22:48 G	5265216.22	5265216.45	5265216.69	0.0145	0.0050 *
Earth	9704-08-01 22:33 G	5265586.26	5265586.44	5265586.64	0.0144	0.0096
Moon	9704-08-02 01:55 G	5265586.41	5265586.58	5265586.77	0.0144	0.0102 *
Mercury	9704-10-19 15:36 G	5265665.15	5265665.15	5265665.17	0.0144	0.0144
Mercury	9705-01-15 22:19 G	5265753.34	5265753.43	5265753.54	0.0144	0.0117
Mercury	9705-04-14 05:16 G	5265841.59	5265841.72	5265841.86	0.0144	0.0091
Mercury	9705-07-11 12:14 G	5265929.86	5265930.01	5265930.17	0.0144	0.0064
Moon	9705-08-06 18:43 G	5265956.20	5265956.28	5265956.39	0.0144	0.0134
Earth	9705-08-06 22:04 G	5265956.39	5265956.42	5265956.49	0.0144	0.0142 *
Mercury	9705-10-07 19:11 G	5266018.13	5266018.30	5266018.48	0.0144	0.0036
Mercury	9706-01-04 02:23 G	5266106.42	5266106.60	5266106.77	0.0144	0.0009
Mercury	9706-04-02 09:21 G	5266194.71	5266194.89	5266195.07	0.0144	0.0019
Mercury	9706-06-29 16:33 G	5266283.02	5266283.19	5266283.36	0.0144	0.0046
Mercury	9706-09-25 23:31 G	5266371.33	5266371.48	5266371.64	0.0144	0.0074
Mercury	9706-12-23 06:43 G	5266459.66	5266459.78	5266459.91	0.0144	0.0102
Mercury	9707-03-21 13:55 G	5266548.01	5266548.08	5266548.16	0.0144	0.0130
Venus	9707-06-01 10:04 G	5266619.88	5266619.92	5266620.01	0.0144	0.0137
Venus	9708-01-13 21:50 G	5266846.24	5266846.41	5266846.59	0.0143	0.0085
Venus	9708-08-27 09:07 G	5267072.67	5267072.88	5267073.09	0.0143	0.0034
Venus	9709-04-10 19:55 G	5267299.12	5267299.33	5267299.55	0.0143	0.0018
Venus	9709-11-23 06:57 G	5267525.60	5267525.79	5267525.98	0.0143	0.0068
Venus	9710-07-07 17:31 G	5267752.12	5267752.23	5267752.36	0.0143	0.0119
Mars	9734-02-15 01:40 G	5276375.47	5276375.57	5276375.72	0.0134	0.0121
Mars	9736-01-15 03:36 G	5277074.38	5277074.65	5277074.93	0.0133	0.0025
Mars	9737-12-14 01:11 G	5277773.32	5277773.55	5277773.81	0.0133	0.0069
Earth	9742-01-11 18:57 G	5279263.19	5279263.29	5279263.44	0.0133	0.0116
Moon	9742-01-11 21:36 G	5279263.27	5279263.40	5279263.55	0.0133	0.0110 *
Moon	9743-01-16 00:57 G	5279632.36	5279632.54	5279632.76	0.0133	0.0087
Earth	9743-01-16 03:50 G	5279632.46	5279632.66	5279632.87	0.0133	0.0080 *

Earth	9744-01-20 12:14 G	5280001.77	5280002.01	5280002.26	0.0133	0.0043
Moon	9744-01-20 14:38 G	5280001.88	5280002.11	5280002.36	0.0133	0.0039 *
Moon	9745-01-23 18:57 G	5280371.03	5280371.29	5280371.55	0.0133	0.0008
Earth	9745-01-23 20:52 G	5280371.12	5280371.37	5280371.63	0.0133	0.0006 *
Earth	9746-01-28 05:16 G	5280740.47	5280740.72	5280740.97	0.0134	0.0031
Moon	9746-01-28 07:40 G	5280740.58	5280740.82	5280741.06	0.0134	0.0030 *
Moon	9747-02-01 12:00 G	5281109.79	5281110.00	5281110.23	0.0134	0.0072
Earth	9747-02-01 13:40 G	5281109.87	5281110.07	5281110.31	0.0134	0.0068 *
Mercury	9747-10-27 06:00 G	5281377.70	5281377.75	5281377.82	0.0134	0.0121
Mercury	9748-01-23 09:36 G	5281465.82	5281465.90	5281466.00	0.0134	0.0103
Earth	9748-02-05 22:33 G	5281479.29	5281479.44	5281479.60	0.0134	0.0104
Moon	9748-02-06 00:14 G	5281479.35	5281479.51	5281479.69	0.0134	0.0098 *
Mercury	9748-04-20 13:11 G	5281553.95	5281554.05	5281554.17	0.0134	0.0085
Mercury	9748-07-17 17:02 G	5281642.08	5281642.21	5281642.33	0.0134	0.0067
Mercury	9748-10-13 20:23 G	5281730.22	5281730.35	5281730.49	0.0134	0.0050
Mercury	9749-01-10 00:00 G	5281818.37	5281818.50	5281818.64	0.0134	0.0032
Mercury	9749-04-08 03:36 G	5281906.51	5281906.65	5281906.79	0.0134	0.0015
Mercury	9749-07-05 06:57 G	5281994.65	5281994.79	5281994.93	0.0134	0.0005
Mercury	9749-10-01 10:33 G	5282082.80	5282082.94	5282083.08	0.0134	0.0020
Mercury	9749-12-28 13:55 G	5282170.95	5282171.08	5282171.22	0.0134	0.0038
Mercury	9750-03-26 17:16 G	5282259.10	5282259.22	5282259.35	0.0134	0.0055
Mercury	9750-06-22 20:38 G	5282347.25	5282347.36	5282347.49	0.0135	0.0073
Mercury	9750-09-19 00:14 G	5282435.41	5282435.51	5282435.61	0.0135	0.0089
Mercury	9750-12-16 03:36 G	5282523.57	5282523.65	5282523.74	0.0135	0.0107
Mercury	9751-03-14 06:57 G	5282611.74	5282611.79	5282611.85	0.0135	0.0124
Venus	9751-05-29 02:23 G	5282687.46	5282687.60	5282687.76	0.0135	0.0097
Venus	9752-01-10 08:38 G	5282913.67	5282913.86	5282914.06	0.0135	0.0055
Venus	9752-08-23 14:52 G	5283139.90	5283140.12	5283140.34	0.0135	0.0012
Venus	9753-04-06 21:07 G	5283366.17	5283366.38	5283366.60	0.0135	0.0031
Venus	9753-11-19 03:36 G	5283592.47	5283592.65	5283592.84	0.0136	0.0074

Venus	9754-07-03 10:04 G	5283818.82	5283818.92	5283819.04	0.0136	0.0117
Mars	9778-04-15 08:23 G	5292505.57	5292505.85	5292506.18	0.0145	0.0061
Mars	9780-03-22 18:57 G	5293213.05	5293213.29	5293213.58	0.0145	0.0089
Moon	9783-07-10 07:26 G	5294417.77	5294417.81	5294417.89	0.0145	0.0140
Earth	9783-07-10 09:07 G	5294417.78	5294417.88	5294417.98	0.0145	0.0134 *
Earth	9784-07-14 08:52 G	5294787.67	5294787.87	5294788.07	0.0145	0.0087
Moon	9784-07-14 10:33 G	5294787.73	5294787.94	5294788.16	0.0145	0.0079 *
Moon	9785-07-19 06:43 G	5295157.56	5295157.78	5295158.02	0.0145	0.0047
Earth	9785-07-19 08:38 G	5295157.63	5295157.86	5295158.12	0.0145	0.0041 *
Earth	9786-07-24 08:52 G	5295527.62	5295527.87	5295528.13	0.0145	0.0007
Moon	9786-07-24 12:00 G	5295527.74	5295528.00	5295528.26	0.0145	0.0008 *
Moon	9787-07-29 05:45 G	5295897.53	5295897.74	5295897.98	0.0145	0.0055
Earth	9787-07-29 08:38 G	5295897.64	5295897.86	5295898.11	0.0145	0.0054 *
Earth	9788-08-02 08:38 G	5296267.69	5296267.86	5296268.05	0.0144	0.0100
Moon	9788-08-02 12:00 G	5296267.82	5296268.00	5296268.21	0.0144	0.0094 *
Mercury	9788-11-08 22:48 G	5296366.41	5296366.45	5296366.51	0.0144	0.0137
Mercury	9789-02-05 05:45 G	5296454.63	5296454.74	5296454.86	0.0144	0.0111
Mercury	9789-05-04 12:28 G	5296542.89	5296543.02	5296543.17	0.0144	0.0084
Mercury	9789-07-31 19:26 G	5296631.16	5296631.31	5296631.48	0.0144	0.0057
Mercury	9789-10-28 02:23 G	5296719.43	5296719.60	5296719.78	0.0144	0.0030
Mercury	9790-01-24 09:36 G	5296807.72	5296807.90	5296808.08	0.0144	0.0003
Mercury	9790-04-22 16:33 G	5296896.02	5296896.19	5296896.37	0.0144	0.0025
Mercury	9790-07-19 23:31 G	5296984.32	5296984.48	5296984.65	0.0144	0.0053
Mercury	9790-10-16 06:28 G	5297072.64	5297072.77	5297072.93	0.0144	0.0081
Mercury	9791-01-12 13:55 G	5297160.97	5297161.08	5297161.20	0.0144	0.0108
Mercury	9791-04-10 21:21 G	5297249.33	5297249.39	5297249.44	0.0144	0.0136
Venus	9791-09-13 04:19 G	5297404.54	5297404.68	5297404.82	0.0144	0.0109
Venus	9792-04-26 15:21 G	5297630.95	5297631.14	5297631.35	0.0143	0.0058
Venus	9792-12-09 02:38 G	5297857.39	5297857.61	5297857.83	0.0143	0.0006
Venus	9793-07-23 13:26 G	5298083.86	5298084.06	5298084.28	0.0143	0.0045

Venus	9794-03-07 00:14 G	5298310.36	5298310.51	5298310.68	0.0143	0.0095
Jupiter	9815-01-01 16:33 G	5305914.74	5305915.19	5305915.68	0.0134	0.0054
Mars	9818-10-11 06:00 G	5307293.53	5307293.75	5307293.98	0.0134	0.0081
Mars	9820-09-09 06:00 G	5307992.47	5307992.75	5307993.04	0.0133	0.0014
Mars	9822-08-09 02:23 G	5308691.45	5308691.60	5308691.79	0.0133	0.0106
Earth	9826-01-13 04:48 G	5309944.57	5309944.70	5309944.84	0.0133	0.0112
Moon	9826-01-13 07:40 G	5309944.73	5309944.82	5309944.95	0.0133	0.0120 *
Moon	9827-01-17 10:04 G	5310313.72	5310313.92	5310314.16	0.0133	0.0070
Earth	9827-01-17 13:11 G	5310313.85	5310314.05	5310314.27	0.0133	0.0077 *
Earth	9828-01-21 21:50 G	5310683.17	5310683.41	5310683.66	0.0133	0.0040
Moon	9828-01-22 00:28 G	5310683.29	5310683.52	5310683.76	0.0133	0.0045 *
Moon	9829-01-25 03:21 G	5311052.38	5311052.64	5311052.90	0.0133	0.0000
Earth	9829-01-25 06:28 G	5311052.51	5311052.77	5311053.02	0.0133	0.0004 *
Earth	9830-01-29 14:38 G	5311421.87	5311422.11	5311422.37	0.0133	0.0034
Moon	9830-01-29 17:02 G	5311421.97	5311422.21	5311422.45	0.0133	0.0036 *
Moon	9831-02-02 20:23 G	5311791.14	5311791.35	5311791.59	0.0134	0.0068
Earth	9831-02-02 23:31 G	5311791.26	5311791.48	5311791.69	0.0134	0.0071 *
Mercury	9831-11-17 12:57 G	5312078.98	5312079.04	5312079.12	0.0134	0.0117
Earth	9832-02-07 07:26 G	5312160.68	5312160.81	5312160.98	0.0134	0.0108
Moon	9832-02-07 09:36 G	5312160.79	5312160.90	5312161.05	0.0134	0.0114 *
Mercury	9832-02-13 16:33 G	5312167.10	5312167.19	5312167.29	0.0134	0.0099
Mercury	9832-05-11 20:23 G	5312255.24	5312255.35	5312255.46	0.0134	0.0081
Mercury	9832-08-07 23:45 G	5312343.37	5312343.49	5312343.62	0.0134	0.0064
Mercury	9832-11-04 03:21 G	5312431.51	5312431.64	5312431.78	0.0134	0.0046
Mercury	9833-01-31 06:57 G	5312519.66	5312519.79	5312519.93	0.0134	0.0029
Mercury	9833-04-29 10:33 G	5312607.80	5312607.94	5312608.08	0.0134	0.0011
Mercury	9833-07-26 14:09 G	5312695.95	5312696.09	5312696.23	0.0134	0.0008
Mercury	9833-10-22 17:31 G	5312784.09	5312784.23	5312784.37	0.0134	0.0024
Mercury	9834-01-18 20:52 G	5312872.24	5312872.37	5312872.51	0.0134	0.0042
Mercury	9834-04-17 00:28 G	5312960.39	5312960.52	5312960.64	0.0134	0.0059

Mercury	9834-07-14 03:50 G	5313048.55	5313048.66	5313048.78	0.0135	0.0076
Mercury	9834-10-10 07:11 G	5313136.71	5313136.80	5313136.90	0.0135	0.0093
Mercury	9835-01-06 10:33 G	5313224.87	5313224.94	5313225.02	0.0135	0.0110
Venus	9835-01-27 11:02 G	5313245.87	5313245.96	5313246.08	0.0135	0.0117
Mercury	9835-04-04 13:55 G	5313313.04	5313313.08	5313313.13	0.0135	0.0127
Venus	9835-09-10 17:16 G	5313472.05	5313472.22	5313472.41	0.0135	0.0075
Venus	9836-04-23 23:31 G	5313698.27	5313698.48	5313698.69	0.0135	0.0032
Venus	9836-12-06 06:00 G	5313924.53	5313924.75	5313924.97	0.0135	0.0010
Venus	9837-07-20 12:14 G	5314150.81	5314151.01	5314151.21	0.0135	0.0053
Venus	9838-03-03 18:28 G	5314377.13	5314377.27	5314377.44	0.0136	0.0097
Mars	9862-12-11 19:40 G	5323425.99	5323426.32	5323426.66	0.0145	0.0003
Moon	9867-07-11 17:45 G	5325099.12	5325099.24	5325099.37	0.0145	0.0125
Earth	9867-07-11 18:00 G	5325099.15	5325099.25	5325099.36	0.0145	0.0131 *
Earth	9868-07-15 17:45 G	5325469.05	5325469.24	5325469.46	0.0145	0.0085
Moon	9868-07-15 18:43 G	5325469.10	5325469.28	5325469.50	0.0145	0.0091 *
Moon	9869-07-20 16:19 G	5325838.95	5325839.18	5325839.43	0.0145	0.0031
Earth	9869-07-20 18:14 G	5325839.02	5325839.26	5325839.51	0.0145	0.0037 *
Earth	9870-07-25 18:14 G	5326209.01	5326209.26	5326209.51	0.0145	0.0010
Moon	9870-07-25 20:09 G	5326209.08	5326209.34	5326209.60	0.0145	0.0007 *
Moon	9871-07-30 15:07 G	5326578.92	5326579.13	5326579.37	0.0145	0.0056
Earth	9871-07-30 18:14 G	5326579.03	5326579.26	5326579.50	0.0145	0.0057 *
Earth	9872-08-03 18:00 G	5326949.08	5326949.25	5326949.43	0.0144	0.0104
Moon	9872-08-03 20:52 G	5326949.21	5326949.37	5326949.55	0.0144	0.0109 *
Mercury	9872-11-30 06:00 G	5327067.69	5327067.75	5327067.82	0.0144	0.0132
Mercury	9873-02-26 12:43 G	5327155.92	5327156.03	5327156.16	0.0144	0.0105
Mercury	9873-05-25 19:40 G	5327244.18	5327244.32	5327244.47	0.0144	0.0078
Moon	9873-08-08 14:09 G	5327319.07	5327319.09	5327319.14	0.0144	0.0142
Mercury	9873-08-22 02:38 G	5327332.45	5327332.61	5327332.77	0.0144	0.0051
Mercury	9873-11-18 09:36 G	5327420.73	5327420.90	5327421.07	0.0144	0.0024
Mercury	9874-02-14 16:33 G	5327509.01	5327509.19	5327509.37	0.0144	0.0003

Mercury	9874-05-13 23:31 G	5327597.31	5327597.48	5327597.66	0.0144	0.0031
Mercury	9874-08-10 06:43 G	5327685.62	5327685.78	5327685.94	0.0144	0.0058
Mercury	9874-11-06 13:40 G	5327773.93	5327774.07	5327774.22	0.0144	0.0086
Mercury	9875-02-02 20:52 G	5327862.27	5327862.37	5327862.49	0.0144	0.0114
Mercury	9875-05-02 04:04 G	5327950.65	5327950.67	5327950.70	0.0144	0.0142
Venus	9875-05-14 10:04 G	5327962.86	5327962.92	5327963.01	0.0144	0.0134
Venus	9875-12-26 21:21 G	5328189.23	5328189.39	5328189.58	0.0143	0.0083
Venus	9876-08-09 08:38 G	5328415.66	5328415.86	5328416.08	0.0143	0.0032
Venus	9877-03-23 19:55 G	5328642.11	5328642.33	5328642.54	0.0143	0.0020
Venus	9877-11-05 06:43 G	5328868.60	5328868.78	5328868.97	0.0143	0.0071
Venus	9878-06-19 17:45 G	5329095.13	5329095.24	5329095.35	0.0143	0.0121
Mars	9903-06-06 07:40 G	5338211.56	5338211.82	5338212.10	0.0133	0.0042
Mars	9905-05-05 06:57 G	5338910.54	5338910.79	5338911.07	0.0133	0.0052
Earth	9910-01-14 13:40 G	5340625.94	5340626.07	5340626.23	0.0133	0.0109
Moon	9910-01-14 16:33 G	5340626.06	5340626.19	5340626.37	0.0133	0.0104 *
Moon	9911-01-18 18:43 G	5340995.09	5340995.28	5340995.50	0.0133	0.0080
Earth	9911-01-18 22:04 G	5340995.23	5340995.42	5340995.65	0.0133	0.0074 *
Earth	9912-01-23 06:43 G	5341364.54	5341364.78	5341365.03	0.0133	0.0036
Moon	9912-01-23 10:04 G	5341364.67	5341364.92	5341365.17	0.0133	0.0031 *
Moon	9913-01-26 12:14 G	5341733.75	5341734.01	5341734.27	0.0133	0.0002
Earth	9913-01-26 15:21 G	5341733.88	5341734.14	5341734.39	0.0133	0.0002 *
Earth	9914-01-30 23:31 G	5342103.24	5342103.48	5342103.73	0.0133	0.0038
Moon	9914-01-31 02:38 G	5342103.38	5342103.61	5342103.86	0.0133	0.0039 *
Moon	9915-02-04 05:02 G	5342472.50	5342472.71	5342472.93	0.0134	0.0078
Earth	9915-02-04 07:55 G	5342472.62	5342472.83	5342473.05	0.0134	0.0075 *
Mercury	9915-09-11 16:04 G	5342692.16	5342692.17	5342692.21	0.0134	0.0132
Mercury	9915-12-08 19:40 G	5342780.26	5342780.32	5342780.41	0.0134	0.0114
Earth	9916-02-08 16:04 G	5342842.05	5342842.17	5342842.32	0.0134	0.0112
Moon	9916-02-08 18:57 G	5342842.15	5342842.29	5342842.46	0.0134	0.0106 *
Mercury	9916-03-05 23:31 G	5342868.39	5342868.48	5342868.58	0.0134	0.0096

Mercury	9916-06-02 03:07 G	5342956.52	5342956.63	5342956.75	0.0134	0.0078
Mercury	9916-08-29 06:43 G	5343044.66	5343044.78	5343044.91	0.0134	0.0060
Mercury	9916-11-25 10:19 G	5343132.80	5343132.93	5343133.07	0.0134	0.0043
Mercury	9917-02-21 13:55 G	5343220.94	5343221.08	5343221.22	0.0134	0.0025
Mercury	9917-05-20 17:31 G	5343309.09	5343309.23	5343309.37	0.0134	0.0008
Mercury	9917-08-16 20:52 G	5343397.23	5343397.37	5343397.51	0.0134	0.0010
Mercury	9917-11-13 00:28 G	5343485.38	5343485.52	5343485.65	0.0134	0.0027
Mercury	9918-02-09 03:50 G	5343573.53	5343573.66	5343573.79	0.0134	0.0044
Mercury	9918-05-08 07:11 G	5343661.68	5343661.80	5343661.93	0.0134	0.0062
Mercury	9918-08-04 10:48 G	5343749.84	5343749.95	5343750.06	0.0135	0.0079
Mercury	9918-10-31 14:09 G	5343838.00	5343838.09	5343838.19	0.0135	0.0096
Mercury	9919-01-27 17:31 G	5343926.16	5343926.23	5343926.31	0.0135	0.0113
Mercury	9919-04-25 20:52 G	5344014.34	5344014.37	5344014.41	0.0135	0.0130
Venus	9919-05-12 01:55 G	5344030.42	5344030.58	5344030.73	0.0135	0.0095
Venus	9919-12-24 07:55 G	5344256.64	5344256.83	5344257.04	0.0135	0.0053
Venus	9920-08-06 14:09 G	5344482.88	5344483.09	5344483.31	0.0135	0.0011
Venus	9921-03-20 20:23 G	5344709.14	5344709.35	5344709.57	0.0135	0.0033
Venus	9921-11-02 02:38 G	5344935.44	5344935.61	5344935.80	0.0135	0.0076
Venus	9922-06-16 09:07 G	5345161.79	5345161.88	5345162.00	0.0136	0.0119
Mars	9945-09-01 01:26 G	5353639.32	5353639.56	5353639.84	0.0145	0.0092
Mars	9947-08-09 07:55 G	5354346.53	5354346.83	5354347.16	0.0145	0.0056
Earth	9951-07-13 03:21 G	5355780.54	5355780.64	5355780.78	0.0145	0.0128
Moon	9951-07-13 03:36 G	5355780.57	5355780.65	5355780.77	0.0145	0.0133 *
Earth	9952-07-17 03:50 G	5356150.45	5356150.66	5356150.87	0.0145	0.0080
Moon	9952-07-17 04:19 G	5356150.46	5356150.68	5356150.91	0.0145	0.0073 *
Moon	9953-07-22 02:52 G	5356520.40	5356520.62	5356520.87	0.0145	0.0040
Earth	9953-07-22 03:50 G	5356520.42	5356520.66	5356520.91	0.0145	0.0033 *
Earth	9954-07-27 04:04 G	5356890.42	5356890.67	5356890.92	0.0145	0.0014
Moon	9954-07-27 06:00 G	5356890.49	5356890.75	5356891.01	0.0145	0.0018 *
Moon	9955-08-01 01:55 G	5357260.37	5357260.58	5357260.81	0.0145	0.0062

Earth	9955-08-01 03:50 G	5357260.44	5357260.66	5357260.90	0.0145	0.0062	*
Earth	9956-08-05 03:21 G	5357630.49	5357630.64	5357630.82	0.0145	0.0109	
Moon	9956-08-05 06:28 G	5357630.60	5357630.77	5357630.96	0.0145	0.0103	*
Mercury	9956-12-21 13:11 G	5357768.97	5357769.05	5357769.13	0.0144	0.0126	
Mercury	9957-03-19 19:55 G	5357857.21	5357857.33	5357857.46	0.0144	0.0099	
Mercury	9957-06-16 02:52 G	5357945.47	5357945.62	5357945.77	0.0144	0.0072	
Mercury	9957-09-12 09:50 G	5358033.74	5358033.91	5358034.07	0.0144	0.0046	
Mercury	9957-12-09 16:48 G	5358122.02	5358122.20	5358122.37	0.0144	0.0019	
Mercury	9958-03-07 23:45 G	5358210.31	5358210.49	5358210.66	0.0144	0.0009	
Mercury	9958-06-04 06:43 G	5358298.61	5358298.78	5358298.95	0.0144	0.0036	
Mercury	9958-08-31 13:40 G	5358386.92	5358387.07	5358387.24	0.0144	0.0064	
Mercury	9958-11-27 20:38 G	5358475.24	5358475.36	5358475.51	0.0144	0.0092	
Mercury	9959-02-24 03:50 G	5358563.57	5358563.66	5358563.77	0.0144	0.0120	
Venus	9959-08-27 03:50 G	5358747.52	5358747.66	5358747.81	0.0144	0.0107	
Venus	9960-04-09 15:07 G	5358973.93	5358974.13	5358974.33	0.0143	0.0056	
Venus	9960-11-22 02:23 G	5359200.38	5359200.60	5359200.81	0.0143	0.0005	
Venus	9961-07-06 13:11 G	5359426.85	5359427.05	5359427.27	0.0143	0.0047	
Venus	9962-02-18 00:14 G	5359653.36	5359653.51	5359653.67	0.0143	0.0097	
Mars	9986-03-01 07:55 G	5368430.66	5368430.83	5368431.05	0.0134	0.0098	
Mars	9988-01-29 11:16 G	5369129.68	5369129.97	5369130.25	0.0133	0.0003	
Mars	9989-12-28 08:38 G	5369828.68	5369828.86	5369829.09	0.0133	0.0091	
Earth	9994-01-14 23:45 G	5371307.35	5371307.49	5371307.66	0.0133	0.0106	
Moon	9994-01-15 03:21 G	5371307.53	5371307.64	5371307.79	0.0133	0.0113	*
Moon	9995-01-19 05:16 G	5371676.49	5371676.72	5371676.95	0.0133	0.0063	
Earth	9995-01-19 08:38 G	5371676.64	5371676.86	5371677.08	0.0133	0.0069	*
Earth	9996-01-23 16:48 G	5372045.96	5372046.20	5372046.46	0.0133	0.0033	
Moon	9996-01-23 20:09 G	5372046.11	5372046.34	5372046.59	0.0133	0.0038	*
Moon	9997-01-26 21:36 G	5372415.14	5372415.40	5372415.66	0.0133	0.0009	
Earth	9997-01-27 01:11 G	5372415.30	5372415.55	5372415.81	0.0133	0.0005	*
Earth	9998-01-31 09:21 G	5372784.65	5372784.89	5372785.14	0.0134	0.0042	

Moon	9998-01-31 12:28 G	5372784.79	5372785.02	5372785.26	0.0134	0.0042	*
Moon	9999-02-04 13:55 G	5373153.89	5373154.08	5373154.31	0.0134	0.0077	
Earth	9999-02-04 17:45 G	5373154.04	5373154.24	5373154.45	0.0134	0.0079	*
Mercury	9999-10-01 23:31 G	5373393.44	5373393.48	5373393.52	0.0134	0.0127	
Mercury	9999-12-29 02:52 G	5373481.55	5373481.62	5373481.71	0.0134	0.0110	
Earth	10000-02-09 01:40 G	5373523.46	5373523.57	5373523.71	0.0134	0.0116	
Moon	10000-02-09 04:48 G	5373523.61	5373523.70	5373523.82	0.0134	0.0121	*
Mercury	10000-03-26 06:28 G	5373569.68	5373569.77	5373569.88	0.0134	0.0092	
Mercury	10000-06-22 10:19 G	5373657.81	5373657.93	5373658.05	0.0134	0.0074	
Mercury	10000-09-18 13:55 G	5373745.95	5373746.08	5373746.21	0.0134	0.0056	
Mercury	10000-12-15 17:16 G	5373834.09	5373834.22	5373834.36	0.0134	0.0039	

11TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 11th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	10001-03-13 20:52 G	5373922.23	5373922.37	5373922.51	0.0134	0.0022		
Mercury	10001-06-10 00:28 G	5374010.38	5374010.52	5374010.66	0.0134	0.0004		
Mercury	10001-09-06 04:04 G	5374098.53	5374098.67	5374098.81	0.0134	0.0014		
Mercury	10001-12-03 07:26 G	5374186.68	5374186.81	5374186.95	0.0134	0.0031		
Mercury	10002-03-01 10:48 G	5374274.83	5374274.95	5374275.09	0.0134	0.0049		
Mercury	10002-05-28 14:23 G	5374362.98	5374363.10	5374363.22	0.0134	0.0066		
Mercury	10002-08-24 17:45 G	5374451.14	5374451.24	5374451.35	0.0135	0.0083		
Mercury	10002-11-20 21:07 G	5374539.30	5374539.38	5374539.48	0.0135	0.0100		

Venus	10003-01-09 10:48 G	5374588.85	5374588.95	5374589.08	0.0135	0.0115
Mercury	10003-02-17 00:28 G	5374627.46	5374627.52	5374627.60	0.0135	0.0117
Mercury	10003-05-16 03:50 G	5374715.66	5374715.66	5374715.68	0.0135	0.0134
Venus	10003-08-23 16:48 G	5374815.03	5374815.20	5374815.40	0.0135	0.0073
Venus	10004-04-05 23:16 G	5375041.26	5375041.47	5375041.68	0.0135	0.0030
Venus	10004-11-18 05:31 G	5375267.52	5375267.73	5375267.95	0.0135	0.0013
Venus	10005-07-02 12:00 G	5375493.80	5375494.00	5375494.20	0.0135	0.0056
Venus	10006-02-13 18:14 G	5375720.13	5375720.26	5375720.42	0.0136	0.0099
Mars	10030-04-28 12:14 G	5384559.69	5384560.01	5384560.34	0.0145	0.0033
Mars	10032-04-04 22:04 G	5385267.24	5385267.42	5385267.64	0.0145	0.0116
Earth	10035-07-13 13:26 G	5386461.95	5386462.06	5386462.20	0.0145	0.0124
Moon	10035-07-13 14:23 G	5386461.98	5386462.10	5386462.25	0.0145	0.0120 *
Moon	10036-07-17 13:11 G	5386831.85	5386832.05	5386832.27	0.0145	0.0083
Earth	10036-07-17 13:26 G	5386831.86	5386832.06	5386832.29	0.0145	0.0078 *
Moon	10037-07-22 13:26 G	5387201.82	5387202.06	5387202.30	0.0145	0.0023
Earth	10037-07-22 13:40 G	5387201.83	5387202.07	5387202.33	0.0145	0.0030 *
Earth	10038-07-27 13:55 G	5387571.83	5387572.08	5387572.33	0.0145	0.0018
Moon	10038-07-27 14:38 G	5387571.85	5387572.11	5387572.37	0.0145	0.0013 *
Moon	10039-08-01 11:45 G	5387941.78	5387941.99	5387942.22	0.0145	0.0066
Earth	10039-08-01 13:40 G	5387941.85	5387942.07	5387942.30	0.0145	0.0066 *
Earth	10040-08-05 13:11 G	5388311.91	5388312.05	5388312.22	0.0145	0.0113
Moon	10040-08-05 15:21 G	5388312.00	5388312.14	5388312.30	0.0145	0.0116 *
Mercury	10041-01-10 20:23 G	5388470.25	5388470.35	5388470.44	0.0144	0.0120
Mercury	10041-04-09 02:52 G	5388558.50	5388558.62	5388558.76	0.0144	0.0094
Mercury	10041-07-06 09:50 G	5388646.76	5388646.91	5388647.07	0.0144	0.0067
Mercury	10041-10-02 16:48 G	5388735.03	5388735.20	5388735.37	0.0144	0.0040
Mercury	10041-12-29 23:45 G	5388823.32	5388823.49	5388823.67	0.0144	0.0013
Mercury	10042-03-28 06:43 G	5388911.61	5388911.78	5388911.96	0.0144	0.0015
Mercury	10042-06-24 13:55 G	5388999.91	5389000.08	5389000.25	0.0144	0.0042
Mercury	10042-09-20 20:52 G	5389088.22	5389088.37	5389088.53	0.0144	0.0070

Mercury	10042-12-18 03:50 G	5389176.54	5389176.66	5389176.80	0.0144	0.0098
Mercury	10043-03-16 10:48 G	5389264.88	5389264.95	5389265.05	0.0144	0.0126
Venus	10043-04-26 09:50 G	5389305.84	5389305.91	5389306.01	0.0144	0.0132
Venus	10043-12-08 21:36 G	5389532.22	5389532.40	5389532.58	0.0144	0.0080
Venus	10044-07-22 08:52 G	5389758.65	5389758.87	5389759.08	0.0143	0.0029
Venus	10045-03-05 19:55 G	5389985.11	5389985.33	5389985.54	0.0143	0.0023
Venus	10045-10-18 06:43 G	5390211.60	5390211.78	5390211.97	0.0143	0.0073
Venus	10046-06-01 17:31 G	5390438.14	5390438.23	5390438.35	0.0143	0.0124
Mars	10070-10-24 13:11 G	5399348.80	5399349.05	5399349.31	0.0133	0.0058
Mars	10072-09-22 13:55 G	5400047.82	5400048.08	5400048.36	0.0133	0.0036
Mars	10074-08-22 09:21 G	5400746.84	5400746.89	5400746.99	0.0133	0.0128
Earth	10078-01-15 09:36 G	5401988.75	5401988.90	5401989.08	0.0133	0.0103
Moon	10078-01-15 13:26 G	5401988.89	5401989.06	5401989.24	0.0133	0.0096 *
Moon	10079-01-19 14:38 G	5402357.90	5402358.11	5402358.32	0.0133	0.0073
Earth	10079-01-19 18:14 G	5402358.05	5402358.26	5402358.49	0.0133	0.0066 *
Earth	10080-01-24 02:23 G	5402727.35	5402727.60	5402727.85	0.0133	0.0029
Moon	10080-01-24 06:00 G	5402727.50	5402727.75	5402728.00	0.0133	0.0023 *
Moon	10081-01-27 07:11 G	5403096.54	5403096.80	5403097.06	0.0133	0.0005
Earth	10081-01-27 10:48 G	5403096.69	5403096.95	5403097.20	0.0133	0.0008 *
Earth	10082-01-31 18:43 G	5403466.05	5403466.28	5403466.53	0.0133	0.0046
Moon	10082-01-31 22:19 G	5403466.20	5403466.43	5403466.68	0.0133	0.0048 *
Moon	10083-02-04 23:16 G	5403835.29	5403835.47	5403835.69	0.0134	0.0085
Earth	10083-02-05 02:52 G	5403835.43	5403835.62	5403835.83	0.0134	0.0083 *
Mercury	10083-10-22 06:14 G	5404094.72	5404094.76	5404094.82	0.0134	0.0124
Mercury	10084-01-18 09:50 G	5404182.84	5404182.91	5404183.01	0.0134	0.0106
Earth	10084-02-09 10:48 G	5404204.86	5404204.95	5404205.08	0.0134	0.0120
Moon	10084-02-09 14:23 G	5404204.99	5404205.10	5404205.25	0.0134	0.0115 *
Mercury	10084-04-15 13:40 G	5404270.97	5404271.07	5404271.18	0.0134	0.0088
Mercury	10084-07-12 17:16 G	5404359.10	5404359.22	5404359.34	0.0134	0.0070
Mercury	10084-10-08 20:52 G	5404447.24	5404447.37	5404447.50	0.0134	0.0053

Mercury	10085-01-05 00:28 G	5404535.38	5404535.52	5404535.66	0.0134	0.0035
Mercury	10085-04-03 04:04 G	5404623.53	5404623.67	5404623.81	0.0134	0.0018
Mercury	10085-06-30 07:26 G	5404711.67	5404711.81	5404711.95	0.0134	0.0003
Mercury	10085-09-26 11:02 G	5404799.82	5404799.96	5404800.10	0.0134	0.0017
Mercury	10085-12-23 14:23 G	5404887.97	5404888.10	5404888.24	0.0134	0.0035
Mercury	10086-03-21 17:45 G	5404976.12	5404976.24	5404976.38	0.0134	0.0053
Mercury	10086-06-17 21:21 G	5405064.27	5405064.39	5405064.51	0.0134	0.0069
Venus	10086-09-08 20:09 G	5405147.32	5405147.34	5405147.35	0.0135	0.0134
Mercury	10086-09-14 00:43 G	5405152.43	5405152.53	5405152.64	0.0135	0.0086
Mercury	10086-12-11 04:04 G	5405240.59	5405240.67	5405240.77	0.0135	0.0104
Mercury	10087-03-09 07:26 G	5405328.76	5405328.81	5405328.88	0.0135	0.0121
Venus	10087-04-23 01:40 G	5405373.43	5405373.57	5405373.74	0.0135	0.0093
Venus	10087-12-05 08:09 G	5405599.65	5405599.84	5405600.05	0.0135	0.0050
Venus	10088-07-18 14:23 G	5405825.89	5405826.10	5405826.32	0.0135	0.0008
Venus	10089-03-01 20:38 G	5406052.16	5406052.36	5406052.58	0.0135	0.0036
Venus	10089-10-14 02:52 G	5406278.46	5406278.62	5406278.81	0.0135	0.0079
Venus	10090-05-28 09:21 G	5406504.81	5406504.89	5406505.00	0.0136	0.0122
Mars	10113-01-16 22:48 G	5414773.27	5414773.45	5414773.64	0.0145	0.0119
Mars	10114-12-25 01:26 G	5415480.24	5415480.56	5415480.90	0.0145	0.0027
Earth	10119-07-15 00:00 G	5417143.38	5417143.50	5417143.66	0.0145	0.0121
Moon	10119-07-15 01:55 G	5417143.46	5417143.58	5417143.70	0.0145	0.0125 *
Moon	10120-07-18 23:31 G	5417513.26	5417513.48	5417513.72	0.0145	0.0066
Earth	10120-07-19 00:14 G	5417513.31	5417513.51	5417513.74	0.0145	0.0074 *
Earth	10121-07-24 00:28 G	5417883.28	5417883.52	5417883.77	0.0145	0.0026
Moon	10121-07-24 00:57 G	5417883.31	5417883.54	5417883.78	0.0145	0.0033 *
Earth	10122-07-29 00:28 G	5418253.28	5418253.52	5418253.78	0.0145	0.0022
Moon	10122-07-29 01:11 G	5418253.30	5418253.55	5418253.81	0.0145	0.0027 *
Moon	10123-08-02 23:31 G	5418623.28	5418623.48	5418623.71	0.0145	0.0069
Earth	10123-08-03 00:28 G	5418623.30	5418623.52	5418623.75	0.0145	0.0070 *
Earth	10124-08-07 00:14 G	5418993.37	5418993.51	5418993.66	0.0145	0.0117

Moon	10124-08-07 01:55 G	5418993.43	5418993.58	5418993.75	0.0145	0.0113	*
Mercury	10124-11-04 20:52 G	5419083.34	5419083.37	5419083.42	0.0145	0.0140	
Mercury	10125-02-01 03:50 G	5419171.55	5419171.66	5419171.77	0.0145	0.0113	
Mercury	10125-04-30 10:19 G	5419259.80	5419259.93	5419260.08	0.0144	0.0087	
Mercury	10125-07-27 17:16 G	5419348.07	5419348.22	5419348.39	0.0144	0.0060	
Mercury	10125-10-24 00:14 G	5419436.34	5419436.51	5419436.68	0.0144	0.0033	
Mercury	10126-01-20 07:11 G	5419524.63	5419524.80	5419524.98	0.0144	0.0006	
Mercury	10126-04-18 14:09 G	5419612.92	5419613.09	5419613.27	0.0144	0.0022	
Mercury	10126-07-15 21:07 G	5419701.22	5419701.38	5419701.55	0.0144	0.0050	
Mercury	10126-10-12 04:19 G	5419789.53	5419789.68	5419789.83	0.0144	0.0077	
Mercury	10127-01-08 11:16 G	5419877.86	5419877.97	5419878.10	0.0144	0.0105	
Mercury	10127-04-06 18:28 G	5419966.21	5419966.27	5419966.34	0.0144	0.0133	
Venus	10127-08-09 04:19 G	5420090.54	5420090.68	5420090.84	0.0144	0.0104	
Venus	10128-03-22 15:50 G	5420316.96	5420317.16	5420317.36	0.0144	0.0052	
Venus	10128-11-04 03:07 G	5420543.41	5420543.63	5420543.85	0.0143	0.0001	
Venus	10129-06-18 14:09 G	5420769.89	5420770.09	5420770.30	0.0143	0.0050	
Venus	10130-01-31 00:57 G	5420996.40	5420996.54	5420996.71	0.0143	0.0101	
Mars	10153-07-20 12:00 G	5429567.87	5429568.00	5429568.18	0.0134	0.0113	
Mars	10155-06-19 17:16 G	5430266.94	5430267.22	5430267.51	0.0133	0.0018	
Mars	10157-05-18 15:50 G	5430965.94	5430966.16	5430966.41	0.0133	0.0076	
Moon	10161-01-12 08:23 G	5432300.84	5432300.85	5432300.89	0.0133	0.0132	
Earth	10162-01-16 20:09 G	5432670.19	5432670.34	5432670.53	0.0133	0.0100	
Moon	10162-01-16 23:45 G	5432670.36	5432670.49	5432670.67	0.0133	0.0107	*
Moon	10163-01-21 01:26 G	5433039.33	5433039.56	5433039.79	0.0133	0.0056	
Earth	10163-01-21 04:48 G	5433039.48	5433039.70	5433039.93	0.0133	0.0063	*
Earth	10164-01-25 12:43 G	5433408.79	5433409.03	5433409.29	0.0133	0.0026	
Moon	10164-01-25 16:33 G	5433408.95	5433409.19	5433409.45	0.0133	0.0032	*
Moon	10165-01-28 17:16 G	5433777.98	5433778.22	5433778.48	0.0133	0.0018	
Earth	10165-01-28 21:07 G	5433778.13	5433778.38	5433778.64	0.0133	0.0012	*
Earth	10166-02-02 05:02 G	5434147.48	5434147.71	5434147.96	0.0133	0.0049	

Moon	10166-02-02 08:38 G	5434147.63	5434147.86	5434148.10	0.0133	0.0048 *
Moon	10167-02-06 09:07 G	5434516.71	5434516.88	5434517.10	0.0134	0.0086
Earth	10167-02-06 13:11 G	5434516.87	5434517.05	5434517.26	0.0134	0.0087 *
Mercury	10167-11-12 13:26 G	5434796.01	5434796.06	5434796.14	0.0134	0.0119
Mercury	10168-02-08 17:16 G	5434884.13	5434884.22	5434884.32	0.0134	0.0101
Earth	10168-02-10 21:07 G	5434886.31	5434886.38	5434886.50	0.0134	0.0124
Moon	10168-02-11 00:28 G	5434886.47	5434886.52	5434886.62	0.0134	0.0128 *
Mercury	10168-05-06 20:52 G	5434972.26	5434972.37	5434972.49	0.0134	0.0083
Mercury	10168-08-03 00:28 G	5435060.40	5435060.52	5435060.65	0.0134	0.0066
Mercury	10168-10-30 04:04 G	5435148.54	5435148.67	5435148.81	0.0134	0.0048
Mercury	10169-01-26 07:40 G	5435236.68	5435236.82	5435236.96	0.0134	0.0030
Mercury	10169-04-24 11:16 G	5435324.83	5435324.97	5435325.11	0.0134	0.0013
Mercury	10169-07-21 14:52 G	5435412.98	5435413.12	5435413.26	0.0134	0.0006
Mercury	10169-10-17 18:14 G	5435501.12	5435501.26	5435501.40	0.0134	0.0022
Mercury	10170-01-13 21:50 G	5435589.27	5435589.41	5435589.54	0.0134	0.0040
Mercury	10170-04-12 01:11 G	5435677.43	5435677.55	5435677.68	0.0134	0.0057
Mercury	10170-07-09 04:33 G	5435765.58	5435765.69	5435765.81	0.0134	0.0074
Mercury	10170-10-05 07:55 G	5435853.74	5435853.83	5435853.94	0.0135	0.0092
Venus	10170-12-22 11:45 G	5435931.88	5435931.99	5435932.13	0.0135	0.0111
Mercury	10171-01-01 11:16 G	5435941.90	5435941.97	5435942.06	0.0135	0.0109
Mercury	10171-03-30 14:38 G	5436030.08	5436030.11	5436030.17	0.0135	0.0126
Venus	10171-08-05 17:45 G	5436158.07	5436158.24	5436158.44	0.0135	0.0069
Venus	10172-03-19 00:14 G	5436384.30	5436384.51	5436384.73	0.0135	0.0026
Venus	10172-10-31 06:28 G	5436610.56	5436610.77	5436610.99	0.0135	0.0017
Venus	10173-06-14 12:43 G	5436836.84	5436837.03	5436837.23	0.0135	0.0060
Venus	10174-01-26 19:11 G	5437063.17	5437063.30	5437063.45	0.0136	0.0103
Mars	10197-09-13 10:19 G	5445693.65	5445693.93	5445694.25	0.0145	0.0060
Mars	10199-08-21 17:45 G	5446400.98	5446401.24	5446401.51	0.0145	0.0089
Earth	10203-07-16 10:48 G	5447824.83	5447824.95	5447825.12	0.0145	0.0119
Moon	10203-07-16 13:26 G	5447824.91	5447825.06	5447825.21	0.0145	0.0115 *

Moon	10204-07-20 09:21 G	5448194.68	5448194.89	5448195.12	0.0145	0.0076
Earth	10204-07-20 11:16 G	5448194.75	5448194.97	5448195.19	0.0145	0.0070 *
Earth	10205-07-25 11:31 G	5448564.73	5448564.98	5448565.23	0.0145	0.0023
Moon	10205-07-25 12:00 G	5448564.76	5448565.00	5448565.25	0.0145	0.0015 *
Moon	10206-07-30 10:33 G	5448934.69	5448934.94	5448935.21	0.0145	0.0020
Earth	10206-07-30 11:16 G	5448934.73	5448934.97	5448935.22	0.0145	0.0026 *
Moon	10207-08-04 10:33 G	5449304.74	5449304.94	5449305.16	0.0145	0.0075
Earth	10207-08-04 11:02 G	5449304.76	5449304.96	5449305.19	0.0145	0.0074 *
Earth	10208-08-08 10:48 G	5449674.83	5449674.95	5449675.10	0.0145	0.0121
Moon	10208-08-08 11:45 G	5449674.86	5449674.99	5449675.14	0.0145	0.0123 *
Mercury	10208-11-26 04:04 G	5449784.62	5449784.67	5449784.76	0.0145	0.0133
Mercury	10209-02-22 11:02 G	5449872.85	5449872.96	5449873.09	0.0145	0.0106
Mercury	10209-05-21 17:45 G	5449961.11	5449961.24	5449961.40	0.0144	0.0080
Mercury	10209-08-18 00:43 G	5450049.37	5450049.53	5450049.70	0.0144	0.0052
Mercury	10209-11-14 07:40 G	5450137.65	5450137.82	5450138.00	0.0144	0.0025
Mercury	10210-02-10 14:38 G	5450225.94	5450226.11	5450226.29	0.0144	0.0003
Mercury	10210-05-09 21:36 G	5450314.23	5450314.40	5450314.58	0.0144	0.0030
Mercury	10210-08-06 04:33 G	5450402.53	5450402.69	5450402.86	0.0144	0.0057
Mercury	10210-11-02 11:31 G	5450490.85	5450490.98	5450491.14	0.0144	0.0085
Mercury	10211-01-29 18:43 G	5450579.18	5450579.28	5450579.40	0.0144	0.0113
Venus	10211-04-09 11:02 G	5450648.88	5450648.96	5450649.09	0.0144	0.0127
Mercury	10211-04-28 01:40 G	5450667.56	5450667.57	5450667.63	0.0144	0.0141
Venus	10211-11-21 22:48 G	5450875.27	5450875.45	5450875.65	0.0144	0.0075
Venus	10212-07-05 10:19 G	5451101.72	5451101.93	5451102.15	0.0143	0.0024
Venus	10213-02-16 21:36 G	5451328.19	5451328.40	5451328.62	0.0143	0.0028
Venus	10213-10-01 08:23 G	5451554.68	5451554.85	5451555.04	0.0143	0.0079
Venus	10214-05-15 19:26 G	5451781.23	5451781.31	5451781.41	0.0143	0.0129
Mars	10238-03-15 18:14 G	5460486.03	5460486.26	5460486.51	0.0134	0.0073
Mars	10240-02-12 20:38 G	5461185.08	5461185.36	5461185.64	0.0133	0.0022
Mars	10242-01-11 18:00 G	5461884.13	5461884.25	5461884.41	0.0133	0.0114

Earth	10246-01-18 06:14 G	5463351.61	5463351.76	5463351.96	0.0133	0.0097
Moon	10246-01-18 09:36 G	5463351.73	5463351.90	5463352.11	0.0133	0.0091 *
Moon	10247-01-22 11:02 G	5463720.76	5463720.96	5463721.19	0.0133	0.0067
Earth	10247-01-22 14:38 G	5463720.90	5463721.11	5463721.35	0.0133	0.0060 *
Earth	10248-01-26 22:48 G	5464090.20	5464090.45	5464090.71	0.0133	0.0022
Moon	10248-01-27 02:09 G	5464090.34	5464090.59	5464090.85	0.0133	0.0016 *
Moon	10249-01-30 03:21 G	5464459.39	5464459.64	5464459.90	0.0133	0.0011
Earth	10249-01-30 06:57 G	5464459.54	5464459.79	5464460.05	0.0133	0.0015 *
Earth	10250-02-03 14:52 G	5464828.89	5464829.12	5464829.36	0.0133	0.0053
Moon	10250-02-03 18:28 G	5464829.05	5464829.27	5464829.52	0.0133	0.0056 *
Moon	10251-02-07 19:26 G	5465198.14	5465198.31	5465198.51	0.0134	0.0091
Earth	10251-02-07 23:02 G	5465198.28	5465198.46	5465198.66	0.0134	0.0090 *
Mercury	10251-09-06 17:02 G	5465409.20	5465409.21	5465409.23	0.0134	0.0132
Mercury	10251-12-03 20:38 G	5465497.30	5465497.36	5465497.44	0.0134	0.0114
Earth	10252-02-12 07:11 G	5465567.73	5465567.80	5465567.89	0.0134	0.0127
Moon	10252-02-12 10:33 G	5465567.87	5465567.94	5465568.07	0.0134	0.0123 *
Mercury	10252-03-01 00:14 G	5465585.42	5465585.51	5465585.62	0.0134	0.0097
Mercury	10252-05-28 03:50 G	5465673.56	5465673.66	5465673.79	0.0134	0.0079
Mercury	10252-08-24 07:40 G	5465761.70	5465761.82	5465761.95	0.0134	0.0061
Mercury	10252-11-20 11:16 G	5465849.84	5465849.97	5465850.10	0.0134	0.0043
Mercury	10253-02-16 14:52 G	5465937.98	5465938.12	5465938.26	0.0134	0.0026
Mercury	10253-05-15 18:28 G	5466026.12	5466026.27	5466026.41	0.0134	0.0009
Mercury	10253-08-11 21:50 G	5466114.27	5466114.41	5466114.55	0.0134	0.0009
Mercury	10253-11-08 01:26 G	5466202.42	5466202.56	5466202.70	0.0134	0.0026
Mercury	10254-02-04 04:48 G	5466290.57	5466290.70	5466290.84	0.0134	0.0044
Mercury	10254-05-03 08:09 G	5466378.72	5466378.84	5466378.97	0.0134	0.0062
Mercury	10254-07-30 11:45 G	5466466.88	5466466.99	5466467.10	0.0134	0.0078
Venus	10254-08-22 20:52 G	5466490.34	5466490.37	5466490.45	0.0134	0.0130
Mercury	10254-10-26 15:07 G	5466555.04	5466555.13	5466555.23	0.0134	0.0096
Mercury	10255-01-22 18:28 G	5466643.21	5466643.27	5466643.35	0.0135	0.0113

Venus	10255-04-06 03:07 G	5466716.48	5466716.63	5466716.81	0.0135	0.0088
Mercury	10255-04-20 21:50 G	5466731.39	5466731.41	5466731.46	0.0135	0.0130
Venus	10255-11-18 09:36 G	5466942.70	5466942.90	5466943.11	0.0135	0.0045
Venus	10256-07-01 15:50 G	5467168.94	5467169.16	5467169.38	0.0135	0.0003
Venus	10257-02-12 22:04 G	5467395.22	5467395.42	5467395.63	0.0135	0.0040
Venus	10257-09-27 04:19 G	5467621.52	5467621.68	5467621.86	0.0135	0.0083
Venus	10258-05-11 10:33 G	5467847.88	5467847.94	5467848.04	0.0136	0.0126
Mars	10282-05-12 00:00 G	5476614.16	5476614.50	5476614.83	0.0145	0.0001
Earth	10287-07-16 21:50 G	5478506.27	5478506.41	5478506.58	0.0145	0.0115
Moon	10287-07-17 00:14 G	5478506.39	5478506.51	5478506.68	0.0145	0.0118 *
Moon	10288-07-20 20:23 G	5478876.11	5478876.35	5478876.58	0.0145	0.0060
Earth	10288-07-20 22:19 G	5478876.21	5478876.43	5478876.66	0.0145	0.0067 *
Earth	10289-07-25 22:19 G	5479246.18	5479246.43	5479246.68	0.0145	0.0018
Moon	10289-07-26 00:00 G	5479246.26	5479246.50	5479246.75	0.0145	0.0026 *
Moon	10290-07-30 21:50 G	5479616.16	5479616.41	5479616.66	0.0145	0.0035
Earth	10290-07-30 22:19 G	5479616.19	5479616.43	5479616.68	0.0145	0.0030 *
Earth	10291-08-04 22:19 G	5479986.23	5479986.43	5479986.65	0.0145	0.0078
Moon	10291-08-04 23:02 G	5479986.25	5479986.46	5479986.67	0.0145	0.0075 *
Earth	10292-08-08 22:19 G	5480356.31	5480356.43	5480356.55	0.0145	0.0125
Moon	10292-08-08 22:19 G	5480356.32	5480356.43	5480356.59	0.0145	0.0123 *
Mercury	10292-12-16 11:45 G	5480485.92	5480485.99	5480486.09	0.0145	0.0125
Mercury	10293-03-14 18:28 G	5480574.16	5480574.27	5480574.41	0.0145	0.0099
Mercury	10293-06-11 01:26 G	5480662.42	5480662.56	5480662.72	0.0144	0.0072
Mercury	10293-09-07 08:23 G	5480750.69	5480750.85	5480751.02	0.0144	0.0044
Mercury	10293-12-04 15:21 G	5480838.96	5480839.14	5480839.31	0.0144	0.0017
Mercury	10294-03-02 22:19 G	5480927.25	5480927.43	5480927.61	0.0144	0.0010
Mercury	10294-05-30 05:16 G	5481015.55	5481015.72	5481015.89	0.0144	0.0037
Mercury	10294-08-26 12:14 G	5481103.86	5481104.01	5481104.17	0.0144	0.0065
Mercury	10294-11-22 19:11 G	5481192.18	5481192.30	5481192.45	0.0144	0.0093
Mercury	10295-02-19 02:23 G	5481280.51	5481280.60	5481280.71	0.0144	0.0121

Venus	10295-07-22 06:14 G	5481433.61	5481433.76	5481433.93	0.0144	0.0098
Venus	10296-03-04 18:00 G	5481660.04	5481660.25	5481660.45	0.0144	0.0046
Venus	10296-10-17 05:16 G	5481886.50	5481886.72	5481886.94	0.0143	0.0005
Venus	10297-05-31 16:33 G	5482112.99	5482113.19	5482113.39	0.0143	0.0056
Venus	10298-01-13 03:21 G	5482339.51	5482339.64	5482339.80	0.0143	0.0107
Mars	10320-12-09 17:31 G	5490705.18	5490705.23	5490705.35	0.0134	0.0128
Mars	10322-11-09 00:57 G	5491404.27	5491404.54	5491404.83	0.0133	0.0032
Mars	10324-10-08 01:11 G	5492103.32	5492103.55	5492103.82	0.0133	0.0062
Moon	10329-01-15 06:14 G	5493663.71	5493663.76	5493663.86	0.0133	0.0127
Earth	10329-01-15 09:21 G	5493663.86	5493663.89	5493663.96	0.0133	0.0130 *
Earth	10330-01-19 17:45 G	5494033.07	5494033.24	5494033.43	0.0133	0.0093
Moon	10330-01-19 21:07 G	5494033.22	5494033.38	5494033.56	0.0133	0.0099 *
Moon	10331-01-23 22:48 G	5494402.23	5494402.45	5494402.70	0.0133	0.0050
Earth	10331-01-24 01:55 G	5494402.35	5494402.58	5494402.82	0.0133	0.0056 *
Earth	10332-01-28 09:50 G	5494771.66	5494771.91	5494772.17	0.0133	0.0019
Moon	10332-01-28 13:26 G	5494771.81	5494772.06	5494772.32	0.0133	0.0025 *
Moon	10333-01-31 14:38 G	5495140.87	5495141.11	5495141.37	0.0133	0.0025
Earth	10333-01-31 18:00 G	5495141.00	5495141.25	5495141.51	0.0133	0.0019 *
Earth	10334-02-05 01:55 G	5495510.35	5495510.58	5495510.82	0.0133	0.0057
Moon	10334-02-05 05:16 G	5495510.49	5495510.72	5495510.96	0.0133	0.0055 *
Moon	10335-02-09 06:28 G	5495879.60	5495879.77	5495879.96	0.0134	0.0094
Earth	10335-02-09 10:04 G	5495879.75	5495879.92	5495880.11	0.0134	0.0094 *
Mercury	10335-09-28 00:14 G	5496110.48	5496110.51	5496110.56	0.0134	0.0127
Mercury	10335-12-25 04:04 G	5496198.59	5496198.67	5496198.75	0.0134	0.0109
Earth	10336-02-13 18:14 G	5496249.22	5496249.26	5496249.32	0.0134	0.0131
Mercury	10336-03-22 07:55 G	5496286.72	5496286.83	5496286.93	0.0134	0.0091
Mercury	10336-06-18 11:16 G	5496374.86	5496374.97	5496375.09	0.0134	0.0074
Mercury	10336-09-14 14:52 G	5496463.00	5496463.12	5496463.26	0.0134	0.0056
Mercury	10336-12-11 18:43 G	5496551.14	5496551.28	5496551.41	0.0134	0.0038
Mercury	10337-03-09 22:04 G	5496639.28	5496639.42	5496639.56	0.0134	0.0021

Mercury	10337-06-06 01:40 G	5496727.43	5496727.57	5496727.71	0.0134	0.0004
Mercury	10337-09-02 05:16 G	5496815.58	5496815.72	5496815.86	0.0134	0.0014
Mercury	10337-11-29 08:38 G	5496903.73	5496903.86	5496904.00	0.0134	0.0032
Mercury	10338-02-25 12:14 G	5496991.88	5496992.01	5496992.14	0.0134	0.0049
Mercury	10338-05-24 15:36 G	5497080.04	5497080.15	5497080.28	0.0134	0.0067
Mercury	10338-08-20 19:11 G	5497168.19	5497168.30	5497168.41	0.0134	0.0084
Mercury	10338-11-16 22:33 G	5497256.35	5497256.44	5497256.53	0.0134	0.0101
Venus	10338-12-05 13:11 G	5497274.94	5497275.05	5497275.21	0.0134	0.0106
Mercury	10339-02-13 01:55 G	5497344.52	5497344.58	5497344.65	0.0134	0.0118
Venus	10339-07-19 19:26 G	5497501.13	5497501.31	5497501.52	0.0135	0.0064
Venus	10340-03-02 01:55 G	5497727.37	5497727.58	5497727.80	0.0135	0.0021
Venus	10340-10-14 08:09 G	5497953.62	5497953.84	5497954.05	0.0135	0.0021
Venus	10341-05-28 14:09 G	5498179.91	5498180.09	5498180.29	0.0135	0.0064
Venus	10342-01-09 20:52 G	5498406.24	5498406.37	5498406.51	0.0135	0.0107
Mars	10365-01-30 12:14 G	5506827.75	5506828.01	5506828.28	0.0145	0.0087
Mars	10367-01-07 15:07 G	5507534.83	5507535.13	5507535.44	0.0145	0.0059
Earth	10371-07-18 09:07 G	5509187.72	5509187.88	5509188.05	0.0145	0.0111
Moon	10371-07-18 11:45 G	5509187.85	5509187.99	5509188.17	0.0145	0.0109 *
Moon	10372-07-22 06:14 G	5509557.54	5509557.76	5509558.00	0.0145	0.0068
Earth	10372-07-22 09:07 G	5509557.66	5509557.88	5509558.11	0.0145	0.0063 *
Earth	10373-07-27 09:21 G	5509927.64	5509927.89	5509928.14	0.0145	0.0014
Moon	10373-07-27 11:02 G	5509927.72	5509927.96	5509928.21	0.0145	0.0007 *
Moon	10374-08-01 07:26 G	5510297.56	5510297.81	5510298.07	0.0145	0.0028
Earth	10374-08-01 09:21 G	5510297.65	5510297.89	5510298.14	0.0145	0.0034 *
Earth	10375-08-06 09:21 G	5510667.69	5510667.89	5510668.10	0.0145	0.0082
Moon	10375-08-06 09:50 G	5510667.72	5510667.91	5510668.12	0.0145	0.0085 *
Moon	10376-08-10 08:23 G	5511037.76	5511037.85	5511037.98	0.0145	0.0131
Earth	10376-08-10 08:52 G	5511037.78	5511037.87	5511038.00	0.0145	0.0130 *
Mercury	10376-10-10 12:43 G	5511099.02	5511099.03	5511099.05	0.0145	0.0144
Mercury	10377-01-06 19:11 G	5511187.22	5511187.30	5511187.42	0.0145	0.0118

Mercury	10377-04-05 02:09 G	5511275.46	5511275.59	5511275.73	0.0145	0.0091
Mercury	10377-07-02 09:07 G	5511363.73	5511363.88	5511364.04	0.0144	0.0064
Mercury	10377-09-28 16:04 G	5511452.00	5511452.17	5511452.34	0.0144	0.0037
Mercury	10377-12-25 22:48 G	5511540.28	5511540.45	5511540.63	0.0144	0.0011
Mercury	10378-03-24 05:45 G	5511628.57	5511628.74	5511628.92	0.0144	0.0018
Mercury	10378-06-20 12:57 G	5511716.87	5511717.04	5511717.21	0.0144	0.0045
Mercury	10378-09-16 19:40 G	5511805.18	5511805.32	5511805.48	0.0144	0.0073
Mercury	10378-12-14 02:52 G	5511893.50	5511893.62	5511893.76	0.0144	0.0101
Mercury	10379-03-12 09:50 G	5511981.85	5511981.91	5511982.01	0.0144	0.0129
Venus	10379-03-22 13:11 G	5511991.95	5511992.05	5511992.19	0.0144	0.0121
Venus	10379-11-04 01:11 G	5512218.36	5512218.55	5512218.74	0.0144	0.0069
Venus	10380-06-17 12:43 G	5512444.82	5512445.03	5512445.25	0.0143	0.0017
Venus	10381-01-29 23:45 G	5512671.29	5512671.49	5512671.71	0.0143	0.0035
Venus	10381-09-13 10:48 G	5512897.79	5512897.95	5512898.14	0.0143	0.0085
Venus	10382-04-27 21:50 G	5513124.36	5513124.41	5513124.49	0.0143	0.0135
Mars	10405-08-04 02:09 G	5521623.38	5521623.59	5521623.81	0.0134	0.0087
Mars	10407-07-04 06:14 G	5522322.48	5522322.76	5522323.05	0.0133	0.0008
Mars	10409-06-02 06:00 G	5523021.58	5523021.75	5523021.96	0.0133	0.0100
Moon	10413-01-15 17:45 G	5524345.20	5524345.24	5524345.32	0.0133	0.0129
Earth	10413-01-15 20:23 G	5524345.29	5524345.35	5524345.45	0.0133	0.0126 *
Earth	10414-01-20 04:33 G	5524714.51	5524714.69	5524714.89	0.0133	0.0089
Moon	10414-01-20 07:11 G	5524714.61	5524714.80	5524715.02	0.0133	0.0084 *
Moon	10415-01-24 09:36 G	5525083.68	5525083.90	5525084.13	0.0133	0.0059
Earth	10415-01-24 12:28 G	5525083.80	5525084.02	5525084.27	0.0133	0.0052 *
Earth	10416-01-28 20:38 G	5525453.11	5525453.36	5525453.62	0.0133	0.0014
Moon	10416-01-28 23:16 G	5525453.21	5525453.47	5525453.74	0.0133	0.0008 *
Moon	10417-02-01 01:26 G	5525822.32	5525822.56	5525822.81	0.0133	0.0018
Earth	10417-02-01 04:33 G	5525822.44	5525822.69	5525822.95	0.0133	0.0023 *
Earth	10418-02-05 12:43 G	5526191.80	5526192.03	5526192.25	0.0133	0.0061
Moon	10418-02-05 15:36 G	5526191.93	5526192.15	5526192.39	0.0133	0.0064 *

Moon	10419-02-09 17:16 G	5526561.07	5526561.22	5526561.41	0.0133	0.0098
Earth	10419-02-09 20:09 G	5526561.19	5526561.34	5526561.53	0.0133	0.0099 *
Mercury	10419-10-18 07:40 G	5526811.77	5526811.82	5526811.88	0.0134	0.0122
Mercury	10420-01-14 11:02 G	5526899.89	5526899.96	5526900.06	0.0134	0.0105
Moon	10420-02-14 08:09 G	5526930.81	5526930.84	5526930.90	0.0134	0.0132
Mercury	10420-04-11 14:52 G	5526988.02	5526988.12	5526988.24	0.0134	0.0087
Mercury	10420-07-08 18:28 G	5527076.16	5527076.27	5527076.40	0.0134	0.0069
Mercury	10420-10-04 22:19 G	5527164.30	5527164.43	5527164.56	0.0134	0.0051
Mercury	10421-01-01 01:40 G	5527252.44	5527252.57	5527252.71	0.0134	0.0034
Mercury	10421-03-30 05:31 G	5527340.59	5527340.73	5527340.87	0.0134	0.0016
Mercury	10421-06-26 08:52 G	5527428.73	5527428.87	5527429.02	0.0134	0.0004
Mercury	10421-09-22 12:28 G	5527516.88	5527517.02	5527517.16	0.0134	0.0019
Mercury	10421-12-19 16:04 G	5527605.03	5527605.17	5527605.30	0.0134	0.0037
Mercury	10422-03-17 19:26 G	5527693.18	5527693.31	5527693.44	0.0134	0.0054
Mercury	10422-06-13 22:48 G	5527781.34	5527781.45	5527781.58	0.0134	0.0071
Venus	10422-08-04 23:16 G	5527833.40	5527833.47	5527833.56	0.0134	0.0124
Mercury	10422-09-10 02:23 G	5527869.50	5527869.60	5527869.71	0.0134	0.0088
Mercury	10422-12-07 05:45 G	5527957.66	5527957.74	5527957.83	0.0134	0.0105
Mercury	10423-03-05 09:07 G	5528045.83	5528045.88	5528045.94	0.0134	0.0122
Venus	10423-03-19 05:02 G	5528059.56	5528059.71	5528059.90	0.0134	0.0083
Venus	10423-10-31 11:31 G	5528285.77	5528285.98	5528286.19	0.0135	0.0040
Venus	10424-06-13 17:45 G	5528512.02	5528512.24	5528512.45	0.0135	0.0003
Venus	10425-01-25 23:45 G	5528738.29	5528738.49	5528738.70	0.0135	0.0045
Venus	10425-09-09 06:00 G	5528964.59	5528964.75	5528964.92	0.0135	0.0087
Venus	10426-04-23 12:28 G	5529190.97	5529191.02	5529191.08	0.0136	0.0130
Mars	10449-09-26 23:31 G	5537748.16	5537748.48	5537748.81	0.0145	0.0029
Mars	10451-09-04 05:45 G	5538455.56	5538455.74	5538455.94	0.0145	0.0119
Earth	10455-07-18 19:11 G	5539869.15	5539869.30	5539869.49	0.0146	0.0107
Moon	10455-07-18 22:48 G	5539869.29	5539869.45	5539869.62	0.0146	0.0108 *
Moon	10456-07-22 16:33 G	5540238.96	5540239.19	5540239.44	0.0145	0.0053

Earth	10456-07-22 19:40 G	5540239.09	5540239.32	5540239.56	0.0145	0.0059 *
Earth	10457-07-27 19:55 G	5540609.08	5540609.33	5540609.58	0.0145	0.0010
Moon	10457-07-27 22:33 G	5540609.20	5540609.44	5540609.69	0.0145	0.0017 *
Moon	10458-08-01 18:14 G	5540979.02	5540979.26	5540979.51	0.0145	0.0045
Earth	10458-08-01 19:55 G	5540979.10	5540979.33	5540979.58	0.0145	0.0039 *
Earth	10459-08-06 20:09 G	5541349.15	5541349.34	5541349.55	0.0145	0.0087
Moon	10459-08-06 21:50 G	5541349.22	5541349.41	5541349.62	0.0145	0.0084 *
Moon	10460-08-10 19:26 G	5541719.22	5541719.31	5541719.42	0.0145	0.0133
Earth	10460-08-10 19:55 G	5541719.26	5541719.33	5541719.44	0.0145	0.0135 *
Mercury	10460-10-30 20:09 G	5541800.30	5541800.34	5541800.40	0.0145	0.0137
Mercury	10461-01-27 03:07 G	5541888.52	5541888.63	5541888.74	0.0145	0.0110
Mercury	10461-04-25 09:36 G	5541976.77	5541976.90	5541977.05	0.0145	0.0084
Mercury	10461-07-22 16:33 G	5542065.04	5542065.19	5542065.36	0.0145	0.0057
Mercury	10461-10-18 23:31 G	5542153.31	5542153.48	5542153.65	0.0144	0.0029
Mercury	10462-01-15 06:28 G	5542241.60	5542241.77	5542241.95	0.0144	0.0002
Mercury	10462-04-13 13:26 G	5542329.89	5542330.06	5542330.24	0.0144	0.0025
Mercury	10462-07-10 20:23 G	5542418.19	5542418.35	5542418.52	0.0144	0.0053
Mercury	10462-10-07 03:36 G	5542506.50	5542506.65	5542506.80	0.0144	0.0081
Venus	10462-11-19 20:52 G	5542550.37	5542550.37	5542550.37	0.0144	0.0144
Mercury	10463-01-03 10:48 G	5542594.83	5542594.95	5542595.06	0.0144	0.0108
Mercury	10463-04-01 17:45 G	5542683.19	5542683.24	5542683.30	0.0144	0.0136
Venus	10463-07-04 08:38 G	5542776.69	5542776.86	5542777.03	0.0144	0.0092
Venus	10464-02-15 19:55 G	5543003.13	5543003.33	5543003.55	0.0144	0.0041
Venus	10464-09-29 07:26 G	5543229.60	5543229.81	5543230.03	0.0143	0.0011
Venus	10465-05-13 18:28 G	5543456.09	5543456.27	5543456.48	0.0143	0.0062
Venus	10465-12-26 06:00 G	5543682.62	5543682.75	5543682.88	0.0143	0.0112
Mars	10490-03-29 09:36 G	5552541.63	5552541.90	5552542.17	0.0133	0.0046
Mars	10492-02-26 12:43 G	5553240.77	5553241.03	5553241.31	0.0133	0.0048
Moon	10497-01-16 06:14 G	5555026.67	5555026.76	5555026.88	0.0133	0.0120
Earth	10497-01-16 08:23 G	5555026.77	5555026.85	5555026.97	0.0133	0.0122 *

Earth	10498-01-20 16:19 G	5555396.00	5555396.18	5555396.39	0.0133	0.0085
Moon	10498-01-20 18:57 G	5555396.11	5555396.29	5555396.49	0.0133	0.0090 *
Moon	10499-01-24 22:04 G	5555765.20	5555765.42	5555765.67	0.0133	0.0042
Earth	10499-01-25 00:28 G	5555765.28	5555765.52	5555765.76	0.0133	0.0047 *
Earth	10500-01-29 08:23 G	5556134.59	5556134.85	5556135.11	0.0133	0.0010
Moon	10500-01-29 11:16 G	5556134.71	5556134.97	5556135.23	0.0133	0.0016 *
Moon	10501-02-02 13:55 G	5556503.84	5556504.08	5556504.33	0.0133	0.0034
Earth	10501-02-02 16:19 G	5556503.94	5556504.18	5556504.44	0.0133	0.0028 *
Earth	10502-02-07 00:14 G	5556873.29	5556873.51	5556873.74	0.0133	0.0066
Moon	10502-02-07 03:07 G	5556873.40	5556873.63	5556873.86	0.0133	0.0063 *
Moon	10503-02-11 05:31 G	5557242.58	5557242.73	5557242.89	0.0133	0.0104
Earth	10503-02-11 08:38 G	5557242.70	5557242.86	5557243.02	0.0133	0.0103 *
Mercury	10503-11-08 14:52 G	5557513.07	5557513.12	5557513.20	0.0134	0.0117
Mercury	10504-02-04 18:43 G	5557601.19	5557601.28	5557601.38	0.0134	0.0099
Mercury	10504-05-02 22:19 G	5557689.33	5557689.43	5557689.55	0.0134	0.0081
Mercury	10504-07-30 02:09 G	5557777.46	5557777.59	5557777.72	0.0134	0.0063
Mercury	10504-10-26 05:45 G	5557865.61	5557865.74	5557865.87	0.0134	0.0045
Mercury	10505-01-22 09:21 G	5557953.75	5557953.89	5557954.03	0.0134	0.0028
Mercury	10505-04-20 12:57 G	5558041.90	5558042.04	5558042.18	0.0134	0.0010
Mercury	10505-07-17 16:33 G	5558130.05	5558130.19	5558130.33	0.0134	0.0008
Mercury	10505-10-13 19:55 G	5558218.19	5558218.33	5558218.47	0.0134	0.0025
Mercury	10506-01-09 23:31 G	5558306.35	5558306.48	5558306.61	0.0134	0.0042
Mercury	10506-04-08 02:52 G	5558394.50	5558394.62	5558394.75	0.0134	0.0059
Mercury	10506-07-05 06:28 G	5558482.66	5558482.77	5558482.88	0.0134	0.0076
Mercury	10506-10-01 09:50 G	5558570.82	5558570.91	5558571.01	0.0134	0.0094
Venus	10506-11-17 16:04 G	5558618.03	5558618.17	5558618.32	0.0134	0.0100
Mercury	10506-12-28 13:11 G	5558658.98	5558659.05	5558659.13	0.0134	0.0111
Mercury	10507-03-26 16:33 G	5558747.16	5558747.19	5558747.24	0.0134	0.0128
Venus	10507-07-01 22:04 G	5558844.22	5558844.42	5558844.62	0.0135	0.0058
Venus	10508-02-13 04:04 G	5559070.46	5559070.67	5559070.89	0.0135	0.0016

Venus	10508-09-26 10:04 G	5559296.71	5559296.92	5559297.14	0.0135	0.0027
Venus	10509-05-10 16:04 G	5559523.00	5559523.17	5559523.37	0.0135	0.0069
Venus	10509-12-22 22:33 G	5559749.33	5559749.44	5559749.57	0.0135	0.0112
Mars	10532-06-17 16:33 G	5567962.01	5567962.19	5567962.42	0.0145	0.0114
Mars	10534-05-25 14:23 G	5568668.78	5568669.10	5568669.44	0.0145	0.0031
Earth	10539-07-20 06:43 G	5570550.61	5570550.78	5570550.97	0.0146	0.0103
Moon	10539-07-20 10:33 G	5570550.76	5570550.94	5570551.12	0.0146	0.0101 *
Moon	10540-07-24 03:21 G	5570920.42	5570920.64	5570920.89	0.0146	0.0059
Earth	10540-07-24 06:43 G	5570920.56	5570920.78	5570921.03	0.0146	0.0055 *
Earth	10541-07-29 07:11 G	5571290.55	5571290.80	5571291.05	0.0145	0.0005
Moon	10541-07-29 10:04 G	5571290.67	5571290.92	5571291.16	0.0145	0.0003 *
Moon	10542-08-03 04:19 G	5571660.44	5571660.68	5571660.94	0.0145	0.0037
Earth	10542-08-03 07:26 G	5571660.57	5571660.81	5571661.06	0.0145	0.0044 *
Earth	10543-08-08 07:11 G	5572030.62	5572030.80	5572031.01	0.0145	0.0092
Moon	10543-08-08 08:52 G	5572030.71	5572030.87	5572031.08	0.0145	0.0096 *
Moon	10544-08-12 05:45 G	5572400.69	5572400.74	5572400.83	0.0145	0.0139
Earth	10544-08-12 07:26 G	5572400.76	5572400.81	5572400.89	0.0145	0.0140 *
Mercury	10544-11-21 03:50 G	5572501.59	5572501.66	5572501.74	0.0145	0.0129
Mercury	10545-02-17 10:33 G	5572589.83	5572589.94	5572590.07	0.0145	0.0103
Mercury	10545-05-16 17:16 G	5572678.08	5572678.22	5572678.38	0.0145	0.0076
Mercury	10545-08-13 00:14 G	5572766.35	5572766.51	5572766.68	0.0145	0.0049
Mercury	10545-11-09 07:11 G	5572854.63	5572854.80	5572854.97	0.0144	0.0022
Mercury	10546-02-05 14:09 G	5572942.91	5572943.09	5572943.27	0.0144	0.0006
Mercury	10546-05-04 21:07 G	5573031.21	5573031.38	5573031.55	0.0144	0.0033
Mercury	10546-08-01 04:04 G	5573119.51	5573119.67	5573119.83	0.0144	0.0061
Mercury	10546-10-28 11:16 G	5573207.83	5573207.97	5573208.11	0.0144	0.0088
Mercury	10547-01-24 18:14 G	5573296.16	5573296.26	5573296.37	0.0144	0.0116
Venus	10547-03-04 15:21 G	5573335.03	5573335.14	5573335.29	0.0144	0.0116
Venus	10547-10-17 03:07 G	5573561.45	5573561.63	5573561.84	0.0144	0.0064
Venus	10548-05-30 14:52 G	5573787.91	5573788.12	5573788.34	0.0144	0.0013

Venus	10549-01-12 02:09 G	5574014.39	5574014.59	5574014.81	0.0143	0.0039
Venus	10549-08-26 13:11 G	5574240.89	5574241.05	5574241.23	0.0143	0.0090
Venus	10550-04-10 00:14 G	5574467.48	5574467.51	5574467.56	0.0143	0.0140
Mars	10572-12-23 09:36 G	5582760.72	5582760.90	5582761.10	0.0134	0.0100
Mars	10574-11-22 17:45 G	5583459.96	5583460.24	5583460.53	0.0133	0.0006
Mars	10576-10-21 19:55 G	5584159.12	5584159.33	5584159.54	0.0133	0.0088
Moon	10581-01-17 18:28 G	5585708.19	5585708.27	5585708.40	0.0133	0.0120
Earth	10581-01-17 20:09 G	5585708.24	5585708.34	5585708.48	0.0133	0.0118 *
Earth	10582-01-22 04:04 G	5586077.48	5586077.67	5586077.88	0.0133	0.0081
Moon	10582-01-22 06:00 G	5586077.54	5586077.75	5586077.97	0.0133	0.0076 *
Moon	10583-01-26 09:50 G	5586446.69	5586446.91	5586447.15	0.0133	0.0050
Earth	10583-01-26 12:14 G	5586446.77	5586447.01	5586447.25	0.0133	0.0043 *
Earth	10584-01-30 20:09 G	5586816.08	5586816.34	5586816.60	0.0133	0.0006
Moon	10584-01-30 22:04 G	5586816.15	5586816.42	5586816.68	0.0133	0.0002 *
Moon	10585-02-03 01:40 G	5587185.33	5587185.57	5587185.82	0.0133	0.0027
Earth	10585-02-03 04:04 G	5587185.42	5587185.67	5587185.92	0.0133	0.0032 *
Earth	10586-02-07 11:45 G	5587554.79	5587554.99	5587555.22	0.0133	0.0070
Moon	10586-02-07 14:09 G	5587554.88	5587555.09	5587555.32	0.0133	0.0074 *
Moon	10587-02-11 17:45 G	5587924.10	5587924.24	5587924.40	0.0133	0.0107
Earth	10587-02-11 20:09 G	5587924.19	5587924.34	5587924.49	0.0133	0.0108 *
Mercury	10587-09-01 18:43 G	5588126.26	5588126.28	5588126.33	0.0134	0.0129
Mercury	10587-11-28 22:33 G	5588214.37	5588214.44	5588214.53	0.0134	0.0111
Mercury	10588-02-25 02:23 G	5588302.50	5588302.60	5588302.70	0.0134	0.0093
Mercury	10588-05-23 06:00 G	5588390.63	5588390.75	5588390.87	0.0134	0.0075
Mercury	10588-08-19 09:21 G	5588478.77	5588478.89	5588479.03	0.0134	0.0058
Mercury	10588-11-15 13:11 G	5588566.91	5588567.05	5588567.19	0.0134	0.0040
Mercury	10589-02-11 16:48 G	5588655.06	5588655.20	5588655.34	0.0134	0.0022
Mercury	10589-05-10 20:23 G	5588743.21	5588743.35	5588743.49	0.0134	0.0005
Mercury	10589-08-06 23:45 G	5588831.35	5588831.49	5588831.64	0.0134	0.0013
Mercury	10589-11-03 03:21 G	5588919.50	5588919.64	5588919.78	0.0134	0.0030

Mercury	10590-01-30 06:57 G	5589007.66	5589007.79	5589007.92	0.0134	0.0047
Mercury	10590-04-28 10:19 G	5589095.81	5589095.93	5589096.06	0.0134	0.0065
Venus	10590-07-18 01:55 G	5589176.50	5589176.58	5589176.71	0.0134	0.0119
Mercury	10590-07-25 13:55 G	5589183.97	5589184.08	5589184.19	0.0134	0.0082
Mercury	10590-10-21 17:16 G	5589272.13	5589272.22	5589272.31	0.0134	0.0099
Mercury	10591-01-17 20:38 G	5589360.30	5589360.36	5589360.43	0.0134	0.0116
Venus	10591-03-01 08:09 G	5589402.67	5589402.84	5589403.03	0.0134	0.0076
Mercury	10591-04-16 00:00 G	5589448.49	5589448.50	5589448.53	0.0134	0.0133
Venus	10591-10-13 14:09 G	5589628.88	5589629.09	5589629.30	0.0135	0.0035
Venus	10592-05-26 20:09 G	5589855.12	5589855.34	5589855.56	0.0135	0.0008
Venus	10593-01-08 02:09 G	5590081.40	5590081.59	5590081.80	0.0135	0.0050
Venus	10593-08-22 08:23 G	5590307.70	5590307.85	5590308.02	0.0135	0.0092
Venus	10594-04-05 14:38 G	5590534.10	5590534.11	5590534.14	0.0135	0.0135
Mars	10617-02-13 02:38 G	5598882.32	5598882.61	5598882.93	0.0145	0.0055
Mars	10619-01-21 04:33 G	5599589.44	5599589.69	5599589.96	0.0145	0.0092
Earth	10623-07-21 17:45 G	5601232.06	5601232.24	5601232.43	0.0146	0.0099
Moon	10623-07-21 20:52 G	5601232.21	5601232.37	5601232.58	0.0146	0.0100 *
Moon	10624-07-25 14:38 G	5601601.87	5601602.11	5601602.36	0.0146	0.0045
Earth	10624-07-25 18:00 G	5601602.03	5601602.25	5601602.50	0.0146	0.0051 *
Earth	10625-07-30 18:28 G	5601972.02	5601972.27	5601972.52	0.0145	0.0001
Moon	10625-07-30 21:50 G	5601972.16	5601972.41	5601972.66	0.0145	0.0008 *
Moon	10626-08-04 15:50 G	5602341.93	5602342.16	5602342.41	0.0145	0.0056
Earth	10626-08-04 18:43 G	5602342.05	5602342.28	5602342.53	0.0145	0.0048 *
Earth	10627-08-09 18:57 G	5602712.12	5602712.29	5602712.49	0.0145	0.0097
Moon	10627-08-09 21:36 G	5602712.23	5602712.40	5602712.61	0.0145	0.0092 *
Moon	10628-08-13 17:31 G	5603082.23	5603082.23	5603082.24	0.0145	0.0145
Earth	10628-08-13 19:26 G	5603082.31	5603082.31	5603082.33	0.0145	0.0145
Mercury	10628-12-12 11:31 G	5603202.90	5603202.98	5603203.08	0.0145	0.0121
Mercury	10629-03-10 18:14 G	5603291.14	5603291.26	5603291.40	0.0145	0.0095
Mercury	10629-06-07 01:11 G	5603379.40	5603379.55	5603379.71	0.0145	0.0068

Mercury	10629-09-03 07:55 G	5603467.67	5603467.83	5603468.00	0.0145	0.0041
Mercury	10629-11-30 14:52 G	5603555.95	5603556.12	5603556.30	0.0145	0.0014
Mercury	10630-02-26 21:50 G	5603644.24	5603644.41	5603644.59	0.0144	0.0014
Mercury	10630-05-26 04:48 G	5603732.54	5603732.70	5603732.87	0.0144	0.0042
Mercury	10630-08-22 11:45 G	5603820.84	5603820.99	5603821.15	0.0144	0.0069
Venus	10630-11-02 23:16 G	5603893.41	5603893.47	5603893.53	0.0144	0.0139
Mercury	10630-11-18 18:43 G	5603909.16	5603909.28	5603909.42	0.0144	0.0097
Mercury	10631-02-15 01:55 G	5603997.50	5603997.58	5603997.68	0.0144	0.0125
Venus	10631-06-17 10:48 G	5604119.79	5604119.95	5604120.13	0.0144	0.0087
Venus	10632-01-29 22:33 G	5604346.23	5604346.44	5604346.65	0.0144	0.0035
Venus	10632-09-12 09:50 G	5604572.70	5604572.91	5604573.13	0.0144	0.0017
Venus	10633-04-26 21:07 G	5604799.19	5604799.38	5604799.58	0.0143	0.0067
Venus	10633-12-09 07:55 G	5605025.73	5605025.83	5605025.97	0.0143	0.0118
Mars	10657-08-18 19:40 G	5613679.07	5613679.32	5613679.59	0.0134	0.0058
Mars	10659-07-19 01:55 G	5614378.31	5614378.58	5614378.85	0.0133	0.0036
Mars	10661-06-17 00:43 G	5615077.45	5615077.53	5615077.61	0.0133	0.0127
Moon	10665-01-19 07:55 G	5616389.71	5616389.83	5616389.97	0.0133	0.0113
Earth	10665-01-19 08:52 G	5616389.75	5616389.87	5616390.01	0.0133	0.0114 *
Earth	10666-01-23 16:48 G	5616759.00	5616759.20	5616759.42	0.0133	0.0077
Moon	10666-01-23 18:14 G	5616759.06	5616759.26	5616759.48	0.0133	0.0081 *
Moon	10667-01-27 23:45 G	5617128.26	5617128.49	5617128.74	0.0133	0.0034
Earth	10667-01-28 00:57 G	5617128.30	5617128.54	5617128.79	0.0133	0.0039 *
Earth	10668-02-01 08:52 G	5617497.62	5617497.87	5617498.13	0.0133	0.0001
Moon	10668-02-01 10:48 G	5617497.69	5617497.95	5617498.21	0.0133	0.0008 *
Moon	10669-02-04 15:07 G	5617866.91	5617867.13	5617867.38	0.0133	0.0044
Earth	10669-02-04 16:48 G	5617866.96	5617867.20	5617867.45	0.0133	0.0037 *
Earth	10670-02-09 00:28 G	5618236.32	5618236.52	5618236.75	0.0133	0.0075
Moon	10670-02-09 02:23 G	5618236.39	5618236.60	5618236.84	0.0133	0.0071 *
Moon	10671-02-13 06:43 G	5618605.67	5618605.78	5618605.92	0.0133	0.0115
Earth	10671-02-13 08:52 G	5618605.75	5618605.87	5618606.02	0.0133	0.0113 *

Mercury	10671-09-23 02:38 G	5618827.56	5618827.61	5618827.67	0.0134	0.0122
Mercury	10671-12-20 06:14 G	5618915.68	5618915.76	5618915.86	0.0134	0.0104
Mercury	10672-03-17 09:50 G	5619003.81	5619003.91	5619004.03	0.0134	0.0087
Mercury	10672-06-13 13:40 G	5619091.95	5619092.07	5619092.19	0.0134	0.0068
Mercury	10672-09-09 17:16 G	5619180.09	5619180.22	5619180.35	0.0134	0.0051
Mercury	10672-12-06 20:52 G	5619268.23	5619268.37	5619268.51	0.0134	0.0033
Mercury	10673-03-05 00:28 G	5619356.38	5619356.52	5619356.66	0.0134	0.0016
Mercury	10673-06-01 04:04 G	5619444.53	5619444.67	5619444.81	0.0134	0.0003
Mercury	10673-08-28 07:26 G	5619532.68	5619532.81	5619532.95	0.0134	0.0020
Mercury	10673-11-24 11:02 G	5619620.83	5619620.96	5619621.10	0.0134	0.0036
Mercury	10674-02-20 14:23 G	5619708.98	5619709.10	5619709.23	0.0134	0.0054
Mercury	10674-05-19 17:45 G	5619797.13	5619797.24	5619797.37	0.0134	0.0072
Mercury	10674-08-15 21:21 G	5619885.29	5619885.39	5619885.50	0.0134	0.0088
Venus	10674-10-30 19:11 G	5619961.16	5619961.30	5619961.47	0.0134	0.0093
Mercury	10674-11-12 00:43 G	5619973.45	5619973.53	5619973.62	0.0134	0.0105
Mercury	10675-02-08 04:19 G	5620061.62	5620061.68	5620061.74	0.0134	0.0122
Venus	10675-06-14 01:11 G	5620187.36	5620187.55	5620187.76	0.0135	0.0052
Venus	10676-01-26 07:11 G	5620413.59	5620413.80	5620414.02	0.0135	0.0010
Venus	10676-09-08 13:11 G	5620639.84	5620640.05	5620640.27	0.0135	0.0032
Venus	10677-04-22 19:11 G	5620866.13	5620866.30	5620866.49	0.0135	0.0075
Venus	10677-12-05 01:11 G	5621092.47	5621092.55	5621092.68	0.0135	0.0118
Jupiter	10698-04-02 23:31 G	5628516.03	5628516.48	5628516.98	0.0144	0.0059
Mars	10699-11-04 01:55 G	5629096.49	5629096.58	5629096.71	0.0145	0.0136
Mars	10701-10-11 18:43 G	5629802.95	5629803.28	5629803.61	0.0145	0.0007
Moon	10706-07-18 02:38 G	5631543.56	5631543.61	5631543.70	0.0146	0.0140
Earth	10706-07-18 06:00 G	5631543.73	5631543.75	5631543.80	0.0146	0.0144
Earth	10707-07-23 06:00 G	5631913.58	5631913.75	5631913.96	0.0146	0.0096
Moon	10707-07-23 09:50 G	5631913.74	5631913.91	5631914.12	0.0146	0.0095 *
Moon	10708-07-27 03:07 G	5632283.40	5632283.63	5632283.87	0.0146	0.0050
Earth	10708-07-27 06:28 G	5632283.55	5632283.77	5632284.02	0.0146	0.0047 *

Earth	10709-08-01 07:11 G	5632653.55	5632653.80	5632654.05	0.0145	0.0003
Moon	10709-08-01 10:33 G	5632653.69	5632653.94	5632654.19	0.0145	0.0011 *
Moon	10710-08-06 04:19 G	5633023.44	5633023.68	5633023.92	0.0145	0.0045
Earth	10710-08-06 07:40 G	5633023.59	5633023.82	5633024.06	0.0145	0.0053 *
Earth	10711-08-11 07:55 G	5633393.66	5633393.83	5633394.02	0.0145	0.0101
Moon	10711-08-11 10:33 G	5633393.78	5633393.94	5633394.12	0.0145	0.0106 *
Mercury	10712-10-06 12:57 G	5633816.00	5633816.04	5633816.09	0.0145	0.0138
Mercury	10713-01-02 19:26 G	5633904.22	5633904.31	5633904.43	0.0145	0.0112
Mercury	10713-04-01 02:23 G	5633992.47	5633992.60	5633992.74	0.0145	0.0085
Mercury	10713-06-28 09:07 G	5634080.73	5634080.88	5634081.05	0.0145	0.0058
Mercury	10713-09-24 16:04 G	5634169.00	5634169.17	5634169.34	0.0145	0.0031
Mercury	10713-12-21 23:02 G	5634257.28	5634257.46	5634257.63	0.0145	0.0004
Mercury	10714-03-20 06:00 G	5634345.57	5634345.75	5634345.92	0.0144	0.0023
Mercury	10714-06-16 12:43 G	5634433.87	5634434.03	5634434.21	0.0144	0.0052
Mercury	10714-09-12 19:55 G	5634522.19	5634522.33	5634522.48	0.0144	0.0079
Mercury	10714-12-10 02:52 G	5634610.51	5634610.62	5634610.75	0.0144	0.0107
Venus	10715-02-15 18:43 G	5634678.16	5634678.28	5634678.44	0.0144	0.0109
Mercury	10715-03-08 10:04 G	5634698.86	5634698.92	5634698.99	0.0144	0.0134
Venus	10715-09-30 06:43 G	5634904.58	5634904.78	5634904.98	0.0144	0.0057
Venus	10716-05-13 18:14 G	5635131.04	5635131.26	5635131.48	0.0144	0.0006
Venus	10716-12-26 05:31 G	5635357.53	5635357.73	5635357.94	0.0144	0.0046
Venus	10717-08-09 16:33 G	5635584.04	5635584.19	5635584.36	0.0143	0.0097
Mars	10740-05-14 18:43 G	5643898.13	5643898.28	5643898.45	0.0134	0.0111
Mars	10742-04-14 05:31 G	5644597.44	5644597.73	5644598.01	0.0133	0.0016
Mars	10744-03-13 07:40 G	5645296.60	5645296.82	5645297.06	0.0133	0.0077
Moon	10749-01-20 20:38 G	5647071.25	5647071.36	5647071.51	0.0133	0.0112
Earth	10749-01-20 21:07 G	5647071.26	5647071.38	5647071.54	0.0133	0.0111 *
Earth	10750-01-25 05:16 G	5647440.51	5647440.72	5647440.94	0.0133	0.0073
Moon	10750-01-25 05:31 G	5647440.52	5647440.73	5647440.97	0.0133	0.0070 *
Moon	10751-01-29 12:14 G	5647809.78	5647810.01	5647810.25	0.0133	0.0041

Earth	10751-01-29 13:26 G	5647809.81	5647810.06	5647810.31	0.0133	0.0035 *
Earth	10752-02-02 21:21 G	5648179.14	5648179.39	5648179.65	0.0133	0.0004
Moon	10752-02-02 22:04 G	5648179.16	5648179.42	5648179.69	0.0133	0.0010 *
Moon	10753-02-06 04:04 G	5648548.43	5648548.67	5648548.91	0.0133	0.0035
Earth	10753-02-06 05:16 G	5648548.48	5648548.72	5648548.97	0.0133	0.0041 *
Earth	10754-02-10 13:11 G	5648917.86	5648918.05	5648918.27	0.0133	0.0079
Moon	10754-02-10 14:23 G	5648917.91	5648918.10	5648918.32	0.0133	0.0084 *
Moon	10755-02-14 20:09 G	5649287.23	5649287.34	5649287.48	0.0133	0.0115
Earth	10755-02-14 21:07 G	5649287.29	5649287.38	5649287.53	0.0133	0.0118 *
Mercury	10755-07-18 06:28 G	5649440.77	5649440.77	5649440.78	0.0133	0.0133
Mercury	10755-10-14 10:04 G	5649528.86	5649528.92	5649529.00	0.0133	0.0116
Mercury	10756-01-10 13:55 G	5649616.99	5649617.08	5649617.18	0.0134	0.0098
Mercury	10756-04-07 17:31 G	5649705.12	5649705.23	5649705.35	0.0134	0.0080
Mercury	10756-07-04 21:07 G	5649793.26	5649793.38	5649793.51	0.0134	0.0063
Mercury	10756-10-01 00:43 G	5649881.40	5649881.53	5649881.67	0.0134	0.0045
Mercury	10756-12-28 04:33 G	5649969.55	5649969.69	5649969.83	0.0134	0.0027
Mercury	10757-03-26 07:55 G	5650057.69	5650057.83	5650057.98	0.0134	0.0011
Mercury	10757-06-22 11:31 G	5650145.84	5650145.98	5650146.12	0.0134	0.0008
Mercury	10757-09-18 15:07 G	5650233.99	5650234.13	5650234.27	0.0134	0.0025
Mercury	10757-12-15 18:43 G	5650322.14	5650322.28	5650322.41	0.0134	0.0043
Mercury	10758-03-13 22:04 G	5650410.30	5650410.42	5650410.55	0.0134	0.0060
Mercury	10758-06-10 01:26 G	5650498.45	5650498.56	5650498.68	0.0134	0.0077
Venus	10758-07-01 06:14 G	5650519.65	5650519.76	5650519.89	0.0134	0.0110
Mercury	10758-09-06 05:02 G	5650586.61	5650586.71	5650586.81	0.0134	0.0094
Mercury	10758-12-03 08:23 G	5650674.78	5650674.85	5650674.93	0.0134	0.0111
Venus	10759-02-12 12:14 G	5650745.82	5650746.01	5650746.19	0.0134	0.0069
Mercury	10759-03-01 11:45 G	5650762.95	5650762.99	5650763.03	0.0134	0.0128
Venus	10759-09-26 17:45 G	5650972.04	5650972.24	5650972.46	0.0135	0.0028
Venus	10760-05-09 23:45 G	5651198.28	5651198.49	5651198.71	0.0135	0.0015
Venus	10760-12-22 05:45 G	5651424.56	5651424.74	5651424.95	0.0135	0.0057

Venus	10761-08-05 11:45 G	5651650.86	5651650.99	5651651.16	0.0135	0.0099
Mars	10784-07-01 11:45 G	5660016.73	5660016.99	5660017.29	0.0145	0.0078
Mars	10786-06-08 08:38 G	5660723.58	5660723.86	5660724.17	0.0145	0.0067
Moon	10790-07-18 14:38 G	5662225.11	5662225.11	5662225.11	0.0146	0.0146
Earth	10790-07-18 17:31 G	5662225.18	5662225.23	5662225.31	0.0146	0.0141
Earth	10791-07-23 17:45 G	5662595.06	5662595.24	5662595.45	0.0146	0.0092
Moon	10791-07-23 21:07 G	5662595.19	5662595.38	5662595.59	0.0146	0.0091 *
Moon	10792-07-27 14:52 G	5662964.88	5662965.12	5662965.37	0.0146	0.0038
Earth	10792-07-27 18:28 G	5662965.04	5662965.27	5662965.52	0.0146	0.0043 *
Earth	10793-08-01 19:11 G	5663335.05	5663335.30	5663335.55	0.0145	0.0007
Moon	10793-08-01 22:48 G	5663335.20	5663335.45	5663335.70	0.0145	0.0001 *
Moon	10794-08-06 16:19 G	5663704.96	5663705.18	5663705.42	0.0145	0.0064
Earth	10794-08-06 19:55 G	5663705.10	5663705.33	5663705.56	0.0145	0.0057 *
Earth	10795-08-11 20:09 G	5664075.18	5664075.34	5664075.52	0.0145	0.0106
Moon	10795-08-11 23:31 G	5664075.32	5664075.48	5664075.67	0.0145	0.0100 *
Mercury	10796-10-26 20:52 G	5664517.30	5664517.37	5664517.45	0.0145	0.0129
Mercury	10797-01-23 03:36 G	5664605.53	5664605.65	5664605.77	0.0145	0.0103
Mercury	10797-04-21 10:19 G	5664693.79	5664693.93	5664694.08	0.0145	0.0076
Mercury	10797-07-18 17:02 G	5664782.05	5664782.21	5664782.38	0.0145	0.0050
Mercury	10797-10-15 00:00 G	5664870.33	5664870.50	5664870.68	0.0145	0.0022
Mercury	10798-01-11 06:57 G	5664958.61	5664958.79	5664958.97	0.0145	0.0005
Mercury	10798-04-09 13:55 G	5665046.91	5665047.08	5665047.25	0.0145	0.0033
Mercury	10798-07-06 20:38 G	5665135.21	5665135.36	5665135.53	0.0144	0.0061
Mercury	10798-10-03 03:36 G	5665223.53	5665223.65	5665223.81	0.0144	0.0089
Venus	10798-10-16 02:52 G	5665236.53	5665236.62	5665236.71	0.0144	0.0131
Mercury	10798-12-30 11:02 G	5665311.86	5665311.96	5665312.07	0.0144	0.0116
Mercury	10799-03-28 18:00 G	5665400.25	5665400.25	5665400.27	0.0144	0.0144
Venus	10799-05-30 14:23 G	5665462.93	5665463.10	5665463.29	0.0144	0.0079
Venus	10800-01-12 02:09 G	5665689.38	5665689.59	5665689.81	0.0144	0.0028
Venus	10800-08-25 13:40 G	5665915.86	5665916.07	5665916.29	0.0144	0.0024

Venus	10801-04-09 00:57 G	5666142.35	5666142.54	5666142.73	0.0144	0.0075
Venus	10801-11-21 11:45 G	5666368.90	5666368.99	5666369.11	0.0143	0.0126
Jupiter	10823-04-26 20:52 G	5674194.99	5674195.37	5674195.76	0.0134	0.0088
Mars	10825-01-07 07:11 G	5674816.56	5674816.80	5674817.05	0.0134	0.0069
Mars	10826-12-07 14:38 G	5675515.83	5675516.11	5675516.40	0.0133	0.0026
Mars	10828-11-05 15:21 G	5676215.03	5676215.14	5676215.30	0.0133	0.0117
Earth	10833-01-21 10:19 G	5677752.80	5677752.93	5677753.10	0.0133	0.0107
Moon	10833-01-21 10:33 G	5677752.81	5677752.94	5677753.10	0.0133	0.0107 *
Earth	10834-01-25 18:28 G	5678122.07	5678122.27	5678122.51	0.0133	0.0069
Moon	10834-01-25 18:57 G	5678122.08	5678122.29	5678122.52	0.0133	0.0072 *
Earth	10835-01-30 02:52 G	5678491.37	5678491.62	5678491.87	0.0133	0.0031
Moon	10835-01-30 02:52 G	5678491.38	5678491.62	5678491.87	0.0133	0.0026 *
Earth	10836-02-03 10:48 G	5678860.70	5678860.95	5678861.21	0.0133	0.0008
Moon	10836-02-03 11:31 G	5678860.72	5678860.98	5678861.25	0.0133	0.0002 *
Moon	10837-02-06 18:14 G	5679230.05	5679230.26	5679230.50	0.0133	0.0053
Earth	10837-02-06 18:43 G	5679230.05	5679230.28	5679230.53	0.0133	0.0046 *
Earth	10838-02-11 02:38 G	5679599.43	5679599.61	5679599.82	0.0133	0.0084
Moon	10838-02-11 03:21 G	5679599.44	5679599.64	5679599.87	0.0133	0.0079 *
Moon	10839-02-15 09:50 G	5679968.84	5679968.91	5679969.01	0.0133	0.0125
Earth	10839-02-15 11:02 G	5679968.86	5679968.96	5679969.07	0.0133	0.0122 *
Mercury	10839-08-07 14:23 G	5680142.06	5680142.10	5680142.14	0.0133	0.0126
Mercury	10839-11-03 17:45 G	5680230.17	5680230.24	5680230.34	0.0133	0.0109
Mercury	10840-01-30 21:36 G	5680318.30	5680318.40	5680318.51	0.0134	0.0091
Mercury	10840-04-28 01:26 G	5680406.44	5680406.56	5680406.68	0.0134	0.0073
Mercury	10840-07-25 04:48 G	5680494.58	5680494.70	5680494.84	0.0134	0.0056
Mercury	10840-10-21 08:38 G	5680582.72	5680582.86	5680583.00	0.0134	0.0038
Mercury	10841-01-17 12:14 G	5680670.87	5680671.01	5680671.15	0.0134	0.0020
Mercury	10841-04-15 15:50 G	5680759.02	5680759.16	5680759.30	0.0134	0.0004
Mercury	10841-07-12 19:11 G	5680847.16	5680847.30	5680847.45	0.0134	0.0015
Mercury	10841-10-08 22:48 G	5680935.31	5680935.45	5680935.59	0.0134	0.0032

Mercury	10842-01-05 02:23 G	5681023.47	5681023.60	5681023.73	0.0134	0.0049
Venus	10842-02-28 17:45 G	5681078.18	5681078.24	5681078.32	0.0134	0.0126
Mercury	10842-04-03 05:45 G	5681111.62	5681111.74	5681111.86	0.0134	0.0066
Mercury	10842-06-30 09:07 G	5681199.78	5681199.88	5681200.00	0.0134	0.0084
Mercury	10842-09-26 12:43 G	5681287.94	5681288.03	5681288.12	0.0134	0.0100
Venus	10842-10-12 23:16 G	5681304.32	5681304.47	5681304.65	0.0134	0.0086
Mercury	10842-12-23 16:04 G	5681376.11	5681376.17	5681376.24	0.0134	0.0117
Mercury	10843-03-21 19:26 G	5681464.31	5681464.31	5681464.32	0.0134	0.0134
Venus	10843-05-27 05:31 G	5681530.52	5681530.73	5681530.93	0.0134	0.0044
Venus	10844-01-08 11:31 G	5681756.76	5681756.98	5681757.19	0.0135	0.0003
Venus	10844-08-21 17:16 G	5681983.02	5681983.22	5681983.43	0.0135	0.0040
Venus	10845-04-04 23:16 G	5682209.31	5682209.47	5682209.65	0.0135	0.0082
Venus	10845-11-17 05:16 G	5682435.65	5682435.72	5682435.82	0.0135	0.0125
Mars	10869-02-26 03:21 G	5690937.32	5690937.64	5690937.98	0.0145	0.0018
Mars	10871-02-03 03:50 G	5691644.53	5691644.66	5691644.84	0.0145	0.0129
Moon	10874-07-19 03:50 G	5692906.58	5692906.66	5692906.79	0.0146	0.0132
Earth	10874-07-19 06:28 G	5692906.71	5692906.77	5692906.88	0.0146	0.0137 *
Earth	10875-07-24 06:57 G	5693276.61	5693276.79	5693277.01	0.0146	0.0088
Moon	10875-07-24 10:33 G	5693276.75	5693276.94	5693277.16	0.0146	0.0088 *
Moon	10876-07-28 04:33 G	5693646.46	5693646.69	5693646.94	0.0146	0.0041
Earth	10876-07-28 07:55 G	5693646.59	5693646.83	5693647.08	0.0146	0.0038 *
Earth	10877-08-02 08:38 G	5694016.61	5694016.86	5694017.11	0.0145	0.0012
Moon	10877-08-02 12:14 G	5694016.76	5694017.01	5694017.26	0.0145	0.0020 *
Moon	10878-08-07 05:16 G	5694386.50	5694386.72	5694386.97	0.0145	0.0055
Earth	10878-08-07 09:07 G	5694386.66	5694386.88	5694387.12	0.0145	0.0062 *
Earth	10879-08-12 09:36 G	5694756.75	5694756.90	5694757.07	0.0145	0.0111
Moon	10879-08-12 12:57 G	5694756.90	5694757.04	5694757.20	0.0145	0.0116 *
Mercury	10880-11-16 04:48 G	5695218.62	5695218.70	5695218.81	0.0145	0.0120
Mercury	10881-02-12 11:45 G	5695306.86	5695306.99	5695307.12	0.0145	0.0093
Mercury	10881-05-11 18:14 G	5695395.12	5695395.26	5695395.43	0.0145	0.0067

Mercury	10881-08-08 01:11 G	5695483.39	5695483.55	5695483.72	0.0145	0.0040
Mercury	10881-11-04 08:09 G	5695571.67	5695571.84	5695572.02	0.0145	0.0013
Mercury	10882-01-31 15:07 G	5695659.96	5695660.13	5695660.31	0.0145	0.0015
Mercury	10882-04-29 22:04 G	5695748.25	5695748.42	5695748.59	0.0145	0.0042
Mercury	10882-07-27 04:48 G	5695836.56	5695836.70	5695836.87	0.0144	0.0071
Mercury	10882-10-23 12:00 G	5695924.88	5695925.00	5695925.14	0.0144	0.0098
Mercury	10883-01-19 19:11 G	5696013.22	5696013.30	5696013.39	0.0144	0.0126
Venus	10883-01-27 23:02 G	5696021.30	5696021.46	5696021.61	0.0144	0.0101
Venus	10883-09-11 10:19 G	5696247.74	5696247.93	5696248.15	0.0144	0.0050
Venus	10884-04-24 22:04 G	5696474.20	5696474.42	5696474.64	0.0144	0.0003
Venus	10884-12-07 09:21 G	5696700.69	5696700.89	5696701.10	0.0144	0.0054
Venus	10885-07-21 20:38 G	5696927.22	5696927.36	5696927.52	0.0143	0.0104
Mars	10907-10-04 06:14 G	5705035.66	5705035.76	5705035.88	0.0134	0.0123
Mars	10909-09-02 18:14 G	5705734.99	5705735.26	5705735.56	0.0134	0.0028
Mars	10911-08-02 22:33 G	5706434.21	5706434.44	5706434.71	0.0133	0.0067
Earth	10917-01-23 00:00 G	5708434.35	5708434.50	5708434.68	0.0133	0.0102
Moon	10917-01-23 00:43 G	5708434.38	5708434.53	5708434.70	0.0133	0.0102 *
Moon	10918-01-27 07:26 G	5708803.58	5708803.81	5708804.05	0.0133	0.0062
Earth	10918-01-27 08:09 G	5708803.62	5708803.84	5708804.07	0.0133	0.0064 *
Earth	10919-01-31 16:19 G	5709172.93	5709173.18	5709173.43	0.0133	0.0026
Moon	10919-01-31 16:19 G	5709172.94	5709173.18	5709173.42	0.0133	0.0032 *
Moon	10920-02-04 23:45 G	5709542.23	5709542.49	5709542.76	0.0133	0.0019
Earth	10920-02-05 00:14 G	5709542.26	5709542.51	5709542.77	0.0133	0.0013 *
Moon	10921-02-08 07:55 G	5709911.61	5709911.83	5709912.07	0.0133	0.0045
Earth	10921-02-08 07:55 G	5709911.61	5709911.83	5709912.08	0.0133	0.0051 *
Earth	10922-02-12 15:50 G	5710280.99	5710281.16	5710281.37	0.0133	0.0089
Moon	10922-02-12 16:04 G	5710281.00	5710281.17	5710281.37	0.0133	0.0094 *
Moon	10923-02-16 23:31 G	5710650.42	5710650.48	5710650.59	0.0133	0.0125
Earth	10923-02-17 00:00 G	5710650.43	5710650.50	5710650.59	0.0133	0.0127 *
Mercury	10923-08-28 21:50 G	5710843.36	5710843.41	5710843.48	0.0133	0.0120

Mercury	10923-11-25 01:40 G	5710931.48	5710931.57	5710931.67	0.0133	0.0102
Mercury	10924-02-21 05:31 G	5711019.62	5711019.73	5711019.84	0.0133	0.0084
Mercury	10924-05-19 08:52 G	5711107.75	5711107.87	5711108.00	0.0134	0.0067
Mercury	10924-08-15 12:43 G	5711195.90	5711196.03	5711196.16	0.0134	0.0049
Mercury	10924-11-11 16:04 G	5711284.04	5711284.17	5711284.32	0.0134	0.0032
Mercury	10925-02-07 19:55 G	5711372.19	5711372.33	5711372.47	0.0134	0.0014
Mercury	10925-05-06 23:16 G	5711460.33	5711460.47	5711460.62	0.0134	0.0006
Mercury	10925-08-03 02:52 G	5711548.48	5711548.62	5711548.76	0.0134	0.0021
Mercury	10925-10-30 06:28 G	5711636.63	5711636.77	5711636.90	0.0134	0.0038
Mercury	10926-01-26 09:50 G	5711724.79	5711724.91	5711725.04	0.0134	0.0056
Mercury	10926-04-24 13:26 G	5711812.94	5711813.06	5711813.18	0.0134	0.0072
Venus	10926-06-13 10:33 G	5711862.82	5711862.94	5711863.10	0.0134	0.0102
Mercury	10926-07-21 16:48 G	5711901.10	5711901.20	5711901.31	0.0134	0.0090
Mercury	10926-10-17 20:09 G	5711989.26	5711989.34	5711989.43	0.0134	0.0107
Mercury	10927-01-13 23:31 G	5712077.44	5712077.48	5712077.54	0.0134	0.0124
Venus	10927-01-25 16:33 G	5712089.00	5712089.19	5712089.39	0.0134	0.0061
Venus	10927-09-08 22:19 G	5712315.22	5712315.43	5712315.65	0.0134	0.0019
Venus	10928-04-22 04:19 G	5712541.47	5712541.68	5712541.90	0.0135	0.0023
Venus	10928-12-04 10:19 G	5712767.74	5712767.93	5712768.13	0.0135	0.0065
Venus	10929-07-18 16:19 G	5712994.06	5712994.18	5712994.32	0.0135	0.0107
Mars	10951-11-18 00:00 G	5721151.29	5721151.50	5721151.75	0.0145	0.0102
Mars	10953-10-24 15:07 G	5721857.83	5721858.13	5721858.47	0.0145	0.0041
Moon	10958-07-20 15:21 G	5723588.09	5723588.14	5723588.24	0.0146	0.0139
Earth	10958-07-20 18:00 G	5723588.17	5723588.25	5723588.37	0.0146	0.0133 *
Earth	10959-07-25 18:28 G	5723958.08	5723958.27	5723958.49	0.0146	0.0084
Moon	10959-07-25 21:07 G	5723958.19	5723958.38	5723958.61	0.0146	0.0082 *
Moon	10960-07-29 16:04 G	5724327.94	5724328.17	5724328.42	0.0146	0.0030
Earth	10960-07-29 19:26 G	5724328.08	5724328.31	5724328.57	0.0146	0.0034 *
Earth	10961-08-03 20:23 G	5724698.10	5724698.35	5724698.60	0.0146	0.0017
Moon	10961-08-03 23:45 G	5724698.24	5724698.49	5724698.75	0.0146	0.0011 *

Moon	10962-08-08 17:16 G	5725068.02	5725068.22	5725068.45	0.0145	0.0075
Earth	10962-08-08 21:07 G	5725068.16	5725068.38	5725068.61	0.0145	0.0067 *
Earth	10963-08-13 21:21 G	5725438.26	5725438.39	5725438.56	0.0145	0.0117
Moon	10963-08-14 01:26 G	5725438.40	5725438.56	5725438.73	0.0145	0.0110 *
Mercury	10964-09-10 06:00 G	5725831.71	5725831.75	5725831.81	0.0145	0.0138
Mercury	10964-12-07 12:28 G	5725919.93	5725920.02	5725920.14	0.0145	0.0112
Mercury	10965-03-05 19:26 G	5726008.18	5726008.31	5726008.46	0.0145	0.0085
Mercury	10965-06-02 02:23 G	5726096.44	5726096.60	5726096.76	0.0145	0.0058
Mercury	10965-08-29 09:07 G	5726184.71	5726184.88	5726185.05	0.0145	0.0031
Mercury	10965-11-25 16:04 G	5726272.99	5726273.17	5726273.34	0.0145	0.0004
Mercury	10966-02-21 22:48 G	5726361.28	5726361.45	5726361.63	0.0145	0.0024
Mercury	10966-05-21 05:45 G	5726449.58	5726449.74	5726449.91	0.0145	0.0051
Mercury	10966-08-17 12:43 G	5726537.89	5726538.03	5726538.19	0.0145	0.0079
Venus	10966-09-28 06:14 G	5726579.66	5726579.76	5726579.88	0.0144	0.0124
Mercury	10966-11-13 19:40 G	5726626.21	5726626.32	5726626.45	0.0144	0.0107
Mercury	10967-02-10 02:38 G	5726714.57	5726714.61	5726714.69	0.0144	0.0135
Venus	10967-05-12 18:14 G	5726806.07	5726806.26	5726806.45	0.0144	0.0072
Venus	10967-12-25 05:45 G	5727032.53	5727032.74	5727032.96	0.0144	0.0020
Venus	10968-08-07 17:16 G	5727259.01	5727259.22	5727259.44	0.0144	0.0031
Venus	10969-03-22 04:19 G	5727485.52	5727485.68	5727485.87	0.0144	0.0083
Venus	10969-11-03 15:21 G	5727712.09	5727712.14	5727712.24	0.0143	0.0134
Mars	10992-05-28 19:11 G	5735954.09	5735954.30	5735954.55	0.0134	0.0081
Mars	10994-04-28 04:48 G	5736653.42	5736653.70	5736653.99	0.0133	0.0014
Mars	10996-03-27 08:23 G	5737352.68	5737352.85	5737353.03	0.0133	0.0105
Moon	11000-01-20 04:33 G	5738746.65	5738746.69	5738746.75	0.0133	0.0130

12TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 12th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	11001-01-24 13:55	G	5739115.92	5739116.08	5739116.27	0.0133	0.0097	
Moon	11001-01-24 15:21	G	5739115.98	5739116.14	5739116.31	0.0133	0.0098	*
Moon	11002-01-28 21:07	G	5739485.16	5739485.38	5739485.63	0.0133	0.0062	
Earth	11002-01-28 22:04	G	5739485.20	5739485.42	5739485.66	0.0133	0.0059	*
Earth	11003-02-02 06:14	G	5739854.51	5739854.76	5739855.02	0.0133	0.0021	
Moon	11003-02-02 07:26	G	5739854.57	5739854.81	5739855.06	0.0133	0.0017	*
Moon	11004-02-06 13:40	G	5740223.81	5740224.07	5740224.34	0.0133	0.0011	
Earth	11004-02-06 14:09	G	5740223.84	5740224.09	5740224.35	0.0133	0.0018	*
Earth	11005-02-09 21:50	G	5740593.19	5740593.41	5740593.65	0.0133	0.0056	
Moon	11005-02-09 22:33	G	5740593.23	5740593.44	5740593.67	0.0133	0.0063	*
Moon	11006-02-14 05:02	G	5740962.53	5740962.71	5740962.93	0.0133	0.0089	
Earth	11006-02-14 05:45	G	5740962.57	5740962.74	5740962.93	0.0133	0.0094	*
Earth	11007-02-18 13:26	G	5741332.05	5741332.06	5741332.11	0.0133	0.0132	
Mercury	11007-06-23 01:55	G	5741456.56	5741456.58	5741456.62	0.0133	0.0130	
Mercury	11007-09-19 05:45	G	5741544.67	5741544.74	5741544.82	0.0133	0.0112	
Mercury	11007-12-16 09:21	G	5741632.80	5741632.89	5741633.00	0.0133	0.0095	
Mercury	11008-03-13 13:11	G	5741720.93	5741721.05	5741721.17	0.0133	0.0077	
Mercury	11008-06-09 16:48	G	5741809.07	5741809.20	5741809.33	0.0134	0.0059	
Mercury	11008-09-05 20:23	G	5741897.22	5741897.35	5741897.49	0.0134	0.0042	
Mercury	11008-12-03 00:00	G	5741985.36	5741985.50	5741985.64	0.0134	0.0024	
Mercury	11009-03-01 03:36	G	5742073.51	5742073.65	5742073.79	0.0134	0.0007	
Mercury	11009-05-28 07:11	G	5742161.66	5742161.80	5742161.94	0.0134	0.0011	

Mercury	11009-08-24 10:48 G	5742249.81	5742249.95	5742250.08	0.0134	0.0028
Mercury	11009-11-20 14:09 G	5742337.96	5742338.09	5742338.23	0.0134	0.0045
Venus	11010-02-11 22:19 G	5742421.35	5742421.43	5742421.55	0.0134	0.0118
Mercury	11010-02-16 17:45 G	5742426.11	5742426.24	5742426.36	0.0134	0.0062
Mercury	11010-05-15 21:07 G	5742514.27	5742514.38	5742514.50	0.0134	0.0079
Mercury	11010-08-12 00:28 G	5742602.43	5742602.52	5742602.62	0.0134	0.0096
Venus	11010-09-26 04:04 G	5742647.50	5742647.67	5742647.86	0.0134	0.0077
Mercury	11010-11-08 03:50 G	5742690.60	5742690.66	5742690.74	0.0134	0.0114
Mercury	11011-02-04 07:11 G	5742778.78	5742778.80	5742778.85	0.0134	0.0131
Venus	11011-05-10 10:04 G	5742873.71	5742873.92	5742874.13	0.0134	0.0035
Venus	11011-12-22 16:04 G	5743099.95	5743100.17	5743100.39	0.0134	0.0006
Venus	11012-08-04 22:04 G	5743326.22	5743326.42	5743326.62	0.0135	0.0048
Venus	11013-03-19 03:50 G	5743552.51	5743552.66	5743552.83	0.0135	0.0090
Venus	11013-10-31 09:50 G	5743778.89	5743778.91	5743778.97	0.0135	0.0133
Mars	11036-07-15 14:38 G	5752071.81	5752072.11	5752072.44	0.0145	0.0043
Mars	11038-06-22 09:07 G	5752778.67	5752778.88	5752779.14	0.0145	0.0102
Moon	11042-07-22 05:31 G	5754269.62	5754269.73	5754269.88	0.0146	0.0123
Earth	11042-07-22 07:26 G	5754269.71	5754269.81	5754269.94	0.0146	0.0128 *
Earth	11043-07-27 08:23 G	5754639.63	5754639.85	5754640.06	0.0146	0.0078
Moon	11043-07-27 11:16 G	5754639.75	5754639.97	5754640.18	0.0146	0.0079 *
Moon	11044-07-31 06:28 G	5755009.53	5755009.77	5755010.01	0.0146	0.0030
Earth	11044-07-31 09:07 G	5755009.63	5755009.88	5755010.13	0.0146	0.0028 *
Earth	11045-08-05 09:36 G	5755379.65	5755379.90	5755380.15	0.0146	0.0022
Moon	11045-08-05 12:57 G	5755379.80	5755380.04	5755380.30	0.0146	0.0029 *
Moon	11046-08-10 06:43 G	5755749.57	5755749.78	5755750.01	0.0145	0.0065
Earth	11046-08-10 10:19 G	5755749.72	5755749.93	5755750.16	0.0145	0.0072 *
Earth	11047-08-15 10:48 G	5756119.82	5756119.95	5756120.10	0.0145	0.0122
Moon	11047-08-15 14:23 G	5756119.99	5756120.10	5756120.22	0.0145	0.0128 *
Mercury	11048-10-01 13:55 G	5756533.02	5756533.08	5756533.17	0.0145	0.0129
Mercury	11048-12-28 20:52 G	5756621.25	5756621.37	5756621.49	0.0145	0.0102

Mercury	11049-03-27 03:21 G	5756709.50	5756709.64	5756709.80	0.0145	0.0076
Mercury	11049-06-23 10:19 G	5756797.77	5756797.93	5756798.10	0.0145	0.0049
Mercury	11049-09-19 17:16 G	5756886.05	5756886.22	5756886.39	0.0145	0.0022
Mercury	11049-12-17 00:00 G	5756974.33	5756974.50	5756974.68	0.0145	0.0006
Mercury	11050-03-15 06:57 G	5757062.62	5757062.79	5757062.96	0.0145	0.0033
Mercury	11050-06-11 13:40 G	5757150.92	5757151.07	5757151.24	0.0145	0.0061
Mercury	11050-09-07 20:52 G	5757239.23	5757239.37	5757239.51	0.0145	0.0088
Mercury	11050-12-05 03:50 G	5757327.56	5757327.66	5757327.77	0.0144	0.0116
Venus	11051-01-11 02:23 G	5757364.43	5757364.60	5757364.76	0.0144	0.0094
Mercury	11051-03-03 11:02 G	5757415.95	5757415.96	5757415.98	0.0144	0.0144
Venus	11051-08-25 13:55 G	5757590.87	5757591.08	5757591.29	0.0144	0.0042
Venus	11052-04-08 01:26 G	5757817.35	5757817.56	5757817.78	0.0144	0.0010
Venus	11052-11-20 12:43 G	5758043.84	5758044.03	5758044.24	0.0144	0.0061
Venus	11053-07-05 00:14 G	5758270.39	5758270.51	5758270.66	0.0144	0.0112
Mars	11077-01-22 07:11 G	5766872.52	5766872.80	5766873.07	0.0134	0.0038
Mars	11078-12-22 15:07 G	5767571.88	5767572.13	5767572.40	0.0133	0.0055
Earth	11084-01-21 19:55 G	5769428.29	5769428.33	5769428.39	0.0133	0.0130
Earth	11085-01-25 04:19 G	5769797.50	5769797.68	5769797.86	0.0133	0.0092
Moon	11085-01-25 05:31 G	5769797.57	5769797.73	5769797.93	0.0133	0.0092 *
Moon	11086-01-29 10:19 G	5770166.70	5770166.93	5770167.19	0.0133	0.0053
Earth	11086-01-29 12:14 G	5770166.79	5770167.01	5770167.25	0.0133	0.0054 *
Earth	11087-02-02 20:09 G	5770536.09	5770536.34	5770536.60	0.0133	0.0016
Moon	11087-02-02 21:21 G	5770536.15	5770536.39	5770536.64	0.0133	0.0021 *
Moon	11088-02-07 02:23 G	5770905.35	5770905.60	5770905.87	0.0133	0.0029
Earth	11088-02-07 04:04 G	5770905.42	5770905.67	5770905.93	0.0133	0.0023 *
Earth	11089-02-10 11:31 G	5771274.77	5771274.98	5771275.22	0.0133	0.0062
Moon	11089-02-10 12:43 G	5771274.81	5771275.03	5771275.26	0.0133	0.0055 *
Moon	11090-02-14 18:28 G	5771644.12	5771644.27	5771644.44	0.0133	0.0106
Earth	11090-02-14 19:11 G	5771644.15	5771644.30	5771644.49	0.0133	0.0100 *
Mercury	11091-07-13 09:50 G	5772157.86	5772157.91	5772157.97	0.0133	0.0123

Mercury	11091-10-09 13:26 G	5772245.99	5772246.06	5772246.16	0.0133	0.0106
Mercury	11092-01-05 17:16 G	5772334.12	5772334.22	5772334.33	0.0133	0.0088
Mercury	11092-04-02 20:52 G	5772422.25	5772422.37	5772422.50	0.0133	0.0070
Mercury	11092-06-30 00:28 G	5772510.40	5772510.52	5772510.66	0.0134	0.0053
Mercury	11092-09-26 04:19 G	5772598.54	5772598.68	5772598.81	0.0134	0.0035
Mercury	11092-12-23 07:55 G	5772686.68	5772686.83	5772686.97	0.0134	0.0018
Mercury	11093-03-21 11:16 G	5772774.83	5772774.97	5772775.12	0.0134	0.0004
Mercury	11093-06-17 14:52 G	5772862.98	5772863.12	5772863.26	0.0134	0.0017
Mercury	11093-09-13 18:28 G	5772951.13	5772951.27	5772951.40	0.0134	0.0034
Venus	11093-10-12 10:33 G	5772979.94	5772979.94	5772979.94	0.0134	0.0134
Mercury	11093-12-10 21:50 G	5773039.29	5773039.41	5773039.54	0.0134	0.0052
Mercury	11094-03-09 01:11 G	5773127.44	5773127.55	5773127.68	0.0134	0.0069
Venus	11094-05-26 15:50 G	5773206.01	5773206.16	5773206.32	0.0134	0.0093
Mercury	11094-06-05 04:48 G	5773215.60	5773215.70	5773215.81	0.0134	0.0086
Mercury	11094-09-01 08:09 G	5773303.76	5773303.84	5773303.94	0.0134	0.0103
Mercury	11094-11-28 11:31 G	5773391.93	5773391.98	5773392.05	0.0134	0.0120
Venus	11095-01-07 21:36 G	5773432.21	5773432.40	5773432.61	0.0134	0.0052
Venus	11095-08-22 03:36 G	5773658.43	5773658.65	5773658.87	0.0134	0.0011
Venus	11096-04-04 09:21 G	5773884.68	5773884.89	5773885.11	0.0134	0.0031
Venus	11096-11-16 15:36 G	5774110.96	5774111.15	5774111.33	0.0135	0.0073
Venus	11097-06-30 21:21 G	5774337.29	5774337.39	5774337.51	0.0135	0.0115
Mars	11119-04-06 16:19 G	5782286.04	5782286.18	5782286.37	0.0144	0.0124
Mars	11121-03-13 01:11 G	5782992.23	5782992.55	5782992.88	0.0145	0.0016
Moon	11126-07-23 17:16 G	5784951.14	5784951.22	5784951.35	0.0146	0.0131
Earth	11126-07-23 19:11 G	5784951.18	5784951.30	5784951.44	0.0146	0.0124 *
Earth	11127-07-28 19:55 G	5785321.11	5785321.33	5785321.55	0.0146	0.0074
Moon	11127-07-28 21:50 G	5785321.18	5785321.41	5785321.63	0.0146	0.0071 *
Moon	11128-08-01 17:45 G	5785691.00	5785691.24	5785691.49	0.0146	0.0021
Earth	11128-08-01 20:38 G	5785691.11	5785691.36	5785691.61	0.0146	0.0024 *
Earth	11129-08-06 21:21 G	5786061.14	5786061.39	5786061.64	0.0146	0.0027

Moon	11129-08-07 00:14 G	5786061.25	5786061.51	5786061.76	0.0146	0.0021 *
Moon	11130-08-11 18:28 G	5786431.08	5786431.27	5786431.48	0.0146	0.0085
Earth	11130-08-11 21:36 G	5786431.20	5786431.40	5786431.63	0.0146	0.0078 *
Earth	11131-08-16 22:33 G	5786801.32	5786801.44	5786801.56	0.0145	0.0127
Moon	11131-08-17 02:09 G	5786801.45	5786801.59	5786801.74	0.0145	0.0120 *
Mercury	11132-10-22 21:50 G	5787234.32	5787234.41	5787234.50	0.0145	0.0121
Mercury	11133-01-19 04:19 G	5787322.56	5787322.68	5787322.82	0.0145	0.0095
Mercury	11133-04-17 11:16 G	5787410.82	5787410.97	5787411.12	0.0145	0.0068
Mercury	11133-07-14 18:00 G	5787499.08	5787499.25	5787499.42	0.0145	0.0041
Mercury	11133-10-11 00:43 G	5787587.36	5787587.53	5787587.71	0.0145	0.0015
Mercury	11134-01-07 07:40 G	5787675.65	5787675.82	5787676.00	0.0145	0.0013
Mercury	11134-04-05 14:23 G	5787763.94	5787764.10	5787764.28	0.0145	0.0041
Mercury	11134-07-02 21:36 G	5787852.24	5787852.40	5787852.55	0.0145	0.0068
Venus	11134-09-11 09:07 G	5787922.77	5787922.88	5787923.02	0.0145	0.0118
Mercury	11134-09-29 04:33 G	5787940.56	5787940.69	5787940.82	0.0145	0.0096
Mercury	11134-12-26 11:31 G	5788028.90	5788028.98	5788029.08	0.0145	0.0124
Venus	11135-04-25 21:07 G	5788149.19	5788149.38	5788149.58	0.0144	0.0065
Venus	11135-12-08 08:52 G	5788375.65	5788375.87	5788376.09	0.0144	0.0014
Venus	11136-07-21 20:23 G	5788602.15	5788602.35	5788602.57	0.0144	0.0038
Venus	11137-03-05 07:55 G	5788828.67	5788828.83	5788829.01	0.0144	0.0089
Venus	11137-10-17 19:11 G	5789055.26	5789055.30	5789055.36	0.0144	0.0140
Mars	11159-10-19 06:43 G	5797091.58	5797091.78	5797092.00	0.0134	0.0091
Mars	11161-09-17 19:55 G	5797791.05	5797791.33	5797791.62	0.0134	0.0005
Mars	11163-08-18 01:26 G	5798490.39	5798490.56	5798490.78	0.0133	0.0097
Moon	11168-01-23 07:40 G	5800109.74	5800109.82	5800109.95	0.0133	0.0121
Earth	11168-01-23 10:19 G	5800109.87	5800109.93	5800110.03	0.0133	0.0126 *
Earth	11169-01-26 18:28 G	5800479.09	5800479.27	5800479.48	0.0133	0.0088
Moon	11169-01-26 21:07 G	5800479.19	5800479.38	5800479.56	0.0133	0.0089 *
Moon	11170-01-31 00:57 G	5800848.30	5800848.54	5800848.79	0.0133	0.0051
Earth	11170-01-31 02:52 G	5800848.39	5800848.62	5800848.86	0.0133	0.0049 *

Earth	11171-02-04 10:48 G	5801217.69	5801217.95	5801218.21	0.0133	0.0010
Moon	11171-02-04 12:57 G	5801217.79	5801218.04	5801218.29	0.0133	0.0007 *
Moon	11172-02-08 16:48 G	5801586.94	5801587.20	5801587.46	0.0133	0.0022
Earth	11172-02-08 18:14 G	5801587.02	5801587.26	5801587.52	0.0133	0.0029 *
Earth	11173-02-12 01:40 G	5801956.37	5801956.57	5801956.81	0.0133	0.0067
Moon	11173-02-12 03:36 G	5801956.45	5801956.65	5801956.87	0.0133	0.0074 *
Moon	11174-02-16 07:55 G	5802325.67	5802325.83	5802326.02	0.0133	0.0099
Earth	11174-02-16 09:36 G	5802325.75	5802325.90	5802326.06	0.0133	0.0105 *
Mercury	11175-05-07 14:09 G	5802771.09	5802771.09	5802771.09	0.0133	0.0133
Mercury	11175-08-03 17:45 G	5802859.18	5802859.24	5802859.32	0.0133	0.0116
Mercury	11175-10-30 21:36 G	5802947.30	5802947.40	5802947.50	0.0133	0.0098
Mercury	11176-01-27 01:11 G	5803035.44	5803035.55	5803035.67	0.0133	0.0080
Mercury	11176-04-24 04:48 G	5803123.58	5803123.70	5803123.83	0.0133	0.0063
Mercury	11176-07-21 08:23 G	5803211.72	5803211.85	5803211.99	0.0134	0.0045
Mercury	11176-10-17 12:00 G	5803299.87	5803300.00	5803300.15	0.0134	0.0028
Mercury	11177-01-13 15:36 G	5803388.01	5803388.15	5803388.30	0.0134	0.0011
Mercury	11177-04-11 19:11 G	5803476.16	5803476.30	5803476.45	0.0134	0.0008
Mercury	11177-07-08 22:48 G	5803564.31	5803564.45	5803564.59	0.0134	0.0024
Mercury	11177-10-05 02:09 G	5803652.46	5803652.59	5803652.73	0.0134	0.0042
Mercury	11178-01-01 05:45 G	5803740.62	5803740.74	5803740.87	0.0134	0.0059
Venus	11178-01-25 03:50 G	5803764.55	5803764.66	5803764.80	0.0134	0.0109
Mercury	11178-03-30 09:07 G	5803828.77	5803828.88	5803829.00	0.0134	0.0076
Mercury	11178-06-26 12:43 G	5803916.93	5803917.03	5803917.13	0.0134	0.0093
Venus	11178-09-08 09:36 G	5803990.73	5803990.90	5803991.10	0.0134	0.0068
Mercury	11178-09-22 16:04 G	5804005.10	5804005.17	5804005.25	0.0134	0.0110
Mercury	11178-12-19 19:26 G	5804093.28	5804093.31	5804093.36	0.0134	0.0127
Venus	11179-04-22 15:36 G	5804216.94	5804217.15	5804217.36	0.0134	0.0026
Venus	11179-12-04 21:36 G	5804443.18	5804443.40	5804443.62	0.0134	0.0015
Venus	11180-07-18 03:21 G	5804669.45	5804669.64	5804669.84	0.0135	0.0057
Venus	11181-03-01 09:21 G	5804895.75	5804895.89	5804896.05	0.0135	0.0099

Mars	11203-12-02 05:02 G	5813206.43	5813206.71	5813207.02	0.0145	0.0065
Mars	11205-11-07 18:14 G	5813913.00	5813913.26	5813913.55	0.0145	0.0078
Moon	11210-07-24 08:23 G	5815632.71	5815632.85	5815633.01	0.0146	0.0114
Earth	11210-07-24 08:52 G	5815632.75	5815632.87	5815633.03	0.0146	0.0120 *
Earth	11211-07-29 09:36 G	5816002.69	5816002.90	5816003.14	0.0146	0.0070
Moon	11211-07-29 11:31 G	5816002.77	5816002.98	5816003.22	0.0146	0.0072 *
Moon	11212-08-02 08:38 G	5816372.62	5816372.86	5816373.11	0.0146	0.0020
Earth	11212-08-02 10:33 G	5816372.69	5816372.94	5816373.19	0.0146	0.0019 *
Earth	11213-08-07 11:02 G	5816742.72	5816742.96	5816743.21	0.0146	0.0032
Moon	11213-08-07 13:40 G	5816742.84	5816743.07	5816743.33	0.0146	0.0039 *
Moon	11214-08-12 08:38 G	5817112.66	5817112.86	5817113.08	0.0146	0.0075
Earth	11214-08-12 11:31 G	5817112.79	5817112.98	5817113.20	0.0146	0.0083 *
Earth	11215-08-17 12:00 G	5817482.91	5817483.00	5817483.12	0.0145	0.0132
Moon	11215-08-17 15:21 G	5817483.08	5817483.14	5817483.23	0.0145	0.0139 *
Mercury	11216-08-15 23:16 G	5817847.43	5817847.47	5817847.53	0.0145	0.0138
Mercury	11216-11-12 06:00 G	5817935.65	5817935.75	5817935.86	0.0145	0.0112
Mercury	11217-02-08 12:43 G	5818023.89	5818024.03	5818024.17	0.0145	0.0085
Mercury	11217-05-07 19:26 G	5818112.15	5818112.31	5818112.47	0.0145	0.0058
Mercury	11217-08-04 02:09 G	5818200.42	5818200.59	5818200.76	0.0145	0.0031
Mercury	11217-10-31 09:07 G	5818288.70	5818288.88	5818289.05	0.0145	0.0005
Mercury	11218-01-27 15:50 G	5818376.99	5818377.16	5818377.34	0.0145	0.0023
Mercury	11218-04-25 22:48 G	5818465.29	5818465.45	5818465.62	0.0145	0.0051
Venus	11218-05-11 17:31 G	5818481.19	5818481.23	5818481.30	0.0145	0.0139
Mercury	11218-07-23 05:31 G	5818553.60	5818553.73	5818553.89	0.0145	0.0079
Mercury	11218-10-19 12:43 G	5818641.92	5818642.03	5818642.16	0.0145	0.0106
Venus	11218-12-24 05:45 G	5818707.57	5818707.74	5818707.91	0.0145	0.0087
Mercury	11219-01-15 19:55 G	5818730.27	5818730.33	5818730.40	0.0145	0.0134
Venus	11219-08-07 17:16 G	5818934.02	5818934.22	5818934.44	0.0144	0.0036
Venus	11220-03-21 05:02 G	5819160.50	5819160.71	5819160.93	0.0144	0.0017
Venus	11220-11-02 16:33 G	5819387.01	5819387.19	5819387.39	0.0144	0.0068

Venus	11221-06-17 04:04 G	5819613.56	5819613.67	5819613.80	0.0144	0.0119
Mars	11244-06-12 19:40 G	5828010.06	5828010.32	5828010.60	0.0134	0.0049
Mars	11246-05-13 06:57 G	5828709.53	5828709.79	5828710.07	0.0133	0.0046
Moon	11252-01-23 21:50 G	5830791.35	5830791.41	5830791.52	0.0133	0.0126
Earth	11252-01-24 00:57 G	5830791.44	5830791.54	5830791.65	0.0133	0.0121 *
Earth	11253-01-27 08:52 G	5831160.68	5831160.87	5831161.08	0.0133	0.0083
Moon	11253-01-27 11:16 G	5831160.79	5831160.97	5831161.18	0.0133	0.0082 *
Moon	11254-01-31 14:23 G	5831529.86	5831530.10	5831530.35	0.0133	0.0044
Earth	11254-01-31 17:02 G	5831529.98	5831530.21	5831530.46	0.0133	0.0045 *
Earth	11255-02-05 00:43 G	5831899.28	5831899.53	5831899.79	0.0133	0.0006
Moon	11255-02-05 02:52 G	5831899.37	5831899.62	5831899.87	0.0133	0.0010 *
Moon	11256-02-09 05:45 G	5832268.50	5832268.74	5832269.00	0.0133	0.0039
Earth	11256-02-09 08:38 G	5832268.61	5832268.86	5832269.11	0.0133	0.0033 *
Earth	11257-02-12 15:50 G	5832637.96	5832638.16	5832638.39	0.0133	0.0072
Moon	11257-02-12 17:45 G	5832638.04	5832638.24	5832638.47	0.0133	0.0066 *
Moon	11258-02-16 21:50 G	5833007.28	5833007.41	5833007.53	0.0133	0.0117
Earth	11258-02-16 23:31 G	5833007.35	5833007.48	5833007.63	0.0133	0.0110 *
Mercury	11259-05-27 22:04 G	5833472.38	5833472.42	5833472.47	0.0133	0.0126
Mercury	11259-08-24 01:40 G	5833560.49	5833560.57	5833560.66	0.0133	0.0108
Mercury	11259-11-20 05:16 G	5833648.62	5833648.72	5833648.83	0.0133	0.0091
Mercury	11260-02-16 09:07 G	5833736.76	5833736.88	5833737.00	0.0133	0.0073
Mercury	11260-05-14 12:43 G	5833824.90	5833825.03	5833825.17	0.0133	0.0055
Mercury	11260-08-10 16:19 G	5833913.05	5833913.18	5833913.32	0.0134	0.0038
Mercury	11260-11-06 19:55 G	5834001.19	5834001.33	5834001.48	0.0134	0.0021
Mercury	11261-02-02 23:31 G	5834089.34	5834089.48	5834089.63	0.0134	0.0005
Mercury	11261-05-02 03:07 G	5834177.49	5834177.63	5834177.77	0.0134	0.0015
Mercury	11261-07-29 06:43 G	5834265.64	5834265.78	5834265.92	0.0134	0.0032
Venus	11261-09-24 16:04 G	5834323.11	5834323.17	5834323.27	0.0134	0.0124
Mercury	11261-10-25 10:19 G	5834353.80	5834353.93	5834354.06	0.0134	0.0049
Mercury	11262-01-21 13:40 G	5834441.95	5834442.07	5834442.19	0.0134	0.0066

Mercury	11262-04-19 17:16 G	5834530.11	5834530.22	5834530.33	0.0134	0.0083
Venus	11262-05-08 21:50 G	5834549.25	5834549.41	5834549.59	0.0134	0.0083
Mercury	11262-07-16 20:38 G	5834618.27	5834618.36	5834618.45	0.0134	0.0100
Mercury	11262-10-13 00:00 G	5834706.44	5834706.50	5834706.57	0.0134	0.0117
Venus	11262-12-21 03:50 G	5834775.46	5834775.66	5834775.87	0.0134	0.0042
Mercury	11263-01-09 03:36 G	5834794.65	5834794.65	5834794.65	0.0134	0.0134
Venus	11263-08-04 09:36 G	5835001.69	5835001.90	5835002.12	0.0134	0.0003
Venus	11264-03-17 15:36 G	5835227.94	5835228.15	5835228.36	0.0134	0.0041
Venus	11264-10-29 21:21 G	5835454.23	5835454.39	5835454.57	0.0135	0.0083
Venus	11265-06-13 03:07 G	5835680.57	5835680.63	5835680.73	0.0135	0.0125
Mars	11286-08-22 13:11 G	5843421.04	5843421.05	5843421.11	0.0144	0.0143
Mars	11288-07-28 15:50 G	5844126.83	5844127.16	5844127.49	0.0145	0.0006
Mars	11290-07-05 09:36 G	5844833.84	5844833.90	5844834.02	0.0145	0.0139
Moon	11294-07-24 20:23 G	5846314.24	5846314.35	5846314.49	0.0146	0.0123
Earth	11294-07-24 21:07 G	5846314.24	5846314.38	5846314.54	0.0146	0.0116 *
Earth	11295-07-29 21:36 G	5846684.18	5846684.40	5846684.63	0.0146	0.0066
Moon	11295-07-29 22:19 G	5846684.20	5846684.43	5846684.67	0.0146	0.0062 *
Moon	11296-08-02 20:23 G	5847054.11	5847054.35	5847054.59	0.0146	0.0013
Earth	11296-08-02 22:19 G	5847054.18	5847054.43	5847054.68	0.0146	0.0015 *
Earth	11297-08-07 22:48 G	5847424.21	5847424.45	5847424.70	0.0146	0.0036
Moon	11297-08-08 00:57 G	5847424.29	5847424.54	5847424.79	0.0146	0.0031 *
Moon	11298-08-12 20:52 G	5847794.18	5847794.37	5847794.56	0.0146	0.0094
Earth	11298-08-12 23:16 G	5847794.28	5847794.47	5847794.69	0.0146	0.0087 *
Earth	11299-08-17 23:45 G	5848164.42	5848164.49	5848164.59	0.0145	0.0137
Moon	11299-08-18 02:52 G	5848164.52	5848164.62	5848164.76	0.0145	0.0130 *
Mercury	11300-09-06 07:11 G	5848548.73	5848548.80	5848548.88	0.0145	0.0130
Mercury	11300-12-03 13:40 G	5848636.96	5848637.07	5848637.20	0.0145	0.0103
Mercury	11301-03-01 20:09 G	5848725.21	5848725.34	5848725.50	0.0145	0.0078
Mercury	11301-05-29 03:07 G	5848813.47	5848813.63	5848813.80	0.0145	0.0050
Mercury	11301-08-25 10:04 G	5848901.75	5848901.92	5848902.09	0.0145	0.0023

Mercury	11301-11-21 16:48 G	5848990.03	5848990.20	5848990.38	0.0145	0.0004
Mercury	11302-02-17 23:45 G	5849078.32	5849078.49	5849078.66	0.0145	0.0032
Mercury	11302-05-17 06:28 G	5849166.62	5849166.77	5849166.94	0.0145	0.0060
Mercury	11302-08-13 13:40 G	5849254.93	5849255.07	5849255.21	0.0145	0.0087
Venus	11302-08-24 12:43 G	5849265.91	5849266.03	5849266.19	0.0145	0.0110
Mercury	11302-11-09 20:23 G	5849343.26	5849343.35	5849343.47	0.0145	0.0115
Mercury	11303-02-06 03:36 G	5849431.63	5849431.65	5849431.68	0.0145	0.0143
Venus	11303-04-08 00:43 G	5849492.34	5849492.53	5849492.74	0.0144	0.0058
Venus	11303-11-20 12:43 G	5849718.82	5849719.03	5849719.25	0.0144	0.0006
Venus	11304-07-04 00:28 G	5849945.32	5849945.52	5849945.73	0.0144	0.0046
Venus	11305-02-15 12:14 G	5850171.85	5850172.01	5850172.17	0.0144	0.0097
Mars	11327-03-09 16:04 G	5858229.00	5858229.17	5858229.38	0.0134	0.0103
Mars	11329-02-06 09:21 G	5858928.60	5858928.89	5858929.18	0.0134	0.0006
Mars	11331-01-06 17:16 G	5859628.02	5859628.22	5859628.46	0.0133	0.0088
Moon	11336-01-25 11:31 G	5861472.87	5861472.98	5861473.15	0.0133	0.0112
Earth	11336-01-25 15:07 G	5861473.02	5861473.13	5861473.26	0.0133	0.0117 *
Earth	11337-01-28 23:02 G	5861842.27	5861842.46	5861842.69	0.0133	0.0079
Moon	11337-01-29 02:09 G	5861842.40	5861842.59	5861842.80	0.0133	0.0081 *
Moon	11338-02-02 04:33 G	5862211.45	5862211.69	5862211.94	0.0133	0.0041
Earth	11338-02-02 07:11 G	5862211.57	5862211.80	5862212.06	0.0133	0.0040 *
Earth	11339-02-06 15:07 G	5862580.87	5862581.13	5862581.39	0.0133	0.0001
Moon	11339-02-06 18:00 G	5862581.00	5862581.25	5862581.50	0.0133	0.0003 *
Moon	11340-02-10 20:23 G	5862950.09	5862950.35	5862950.60	0.0133	0.0032
Earth	11340-02-10 22:48 G	5862950.20	5862950.45	5862950.69	0.0133	0.0038 *
Earth	11341-02-14 06:00 G	5863319.56	5863319.75	5863319.97	0.0133	0.0077
Moon	11341-02-14 08:52 G	5863319.68	5863319.87	5863320.07	0.0133	0.0084 *
Moon	11342-02-18 11:02 G	5863688.83	5863688.96	5863689.13	0.0133	0.0109
Earth	11342-02-18 13:55 G	5863688.96	5863689.08	5863689.21	0.0133	0.0115 *
Mercury	11343-06-18 06:00 G	5864173.69	5864173.75	5864173.82	0.0133	0.0118
Mercury	11343-09-14 09:36 G	5864261.81	5864261.90	5864262.00	0.0133	0.0100

Mercury	11343-12-11 13:26 G	5864349.95	5864350.06	5864350.17	0.0133	0.0082
Mercury	11344-03-08 17:02 G	5864438.09	5864438.21	5864438.34	0.0133	0.0065
Mercury	11344-06-04 20:38 G	5864526.23	5864526.36	5864526.50	0.0133	0.0047
Mercury	11344-09-01 00:28 G	5864614.38	5864614.52	5864614.66	0.0133	0.0030
Mercury	11344-11-28 04:04 G	5864702.52	5864702.67	5864702.81	0.0134	0.0013
Mercury	11345-02-24 07:40 G	5864790.67	5864790.82	5864790.96	0.0134	0.0007
Mercury	11345-05-23 11:02 G	5864878.82	5864878.96	5864879.10	0.0134	0.0023
Mercury	11345-08-19 14:38 G	5864966.98	5864967.11	5864967.25	0.0134	0.0040
Mercury	11345-11-15 18:14 G	5865055.13	5865055.26	5865055.39	0.0134	0.0057
Venus	11346-01-07 10:33 G	5865107.80	5865107.94	5865108.09	0.0134	0.0098
Mercury	11346-02-11 21:36 G	5865143.29	5865143.40	5865143.52	0.0134	0.0074
Mercury	11346-05-11 01:11 G	5865231.45	5865231.55	5865231.65	0.0134	0.0091
Mercury	11346-08-07 04:33 G	5865319.61	5865319.69	5865319.77	0.0134	0.0108
Venus	11346-08-21 16:19 G	5865333.98	5865334.18	5865334.38	0.0134	0.0057
Mercury	11346-11-03 07:55 G	5865407.79	5865407.83	5865407.89	0.0134	0.0125
Venus	11347-04-04 22:04 G	5865560.20	5865560.42	5865560.64	0.0134	0.0016
Venus	11347-11-17 03:50 G	5865786.45	5865786.66	5865786.88	0.0134	0.0026
Venus	11348-06-30 09:36 G	5866012.72	5866012.90	5866013.10	0.0134	0.0067
Venus	11349-02-11 15:36 G	5866239.04	5866239.15	5866239.29	0.0135	0.0109
Mars	11371-04-20 00:28 G	5874341.28	5874341.52	5874341.81	0.0144	0.0086
Mars	11373-03-26 08:38 G	5875047.57	5875047.86	5875048.18	0.0145	0.0056
Earth	11378-07-26 11:02 G	5876995.82	5876995.96	5876996.14	0.0146	0.0112
Moon	11378-07-26 11:16 G	5876995.83	5876995.97	5876996.16	0.0146	0.0106 *
Earth	11379-07-31 11:31 G	5877365.76	5877365.98	5877366.22	0.0146	0.0061
Moon	11379-07-31 12:28 G	5877365.79	5877366.02	5877366.26	0.0146	0.0064 *
Moon	11380-08-04 11:31 G	5877735.74	5877735.98	5877736.22	0.0146	0.0010
Earth	11380-08-04 12:14 G	5877735.76	5877736.01	5877736.27	0.0146	0.0010 *
Earth	11381-08-09 12:43 G	5878105.79	5878106.03	5878106.28	0.0146	0.0041
Moon	11381-08-09 14:38 G	5878105.87	5878106.11	5878106.37	0.0146	0.0047 *
Moon	11382-08-14 11:02 G	5878475.77	5878475.96	5878476.17	0.0146	0.0085

Earth	11382-08-14 13:26 G	5878475.87	5878476.06	5878476.26	0.0146	0.0092 *
Earth	11383-08-19 13:55 G	5878846.03	5878846.08	5878846.14	0.0145	0.0142
Mercury	11384-09-26 15:21 G	5879250.05	5879250.14	5879250.24	0.0145	0.0119
Mercury	11384-12-23 21:50 G	5879338.29	5879338.41	5879338.55	0.0145	0.0093
Mercury	11385-03-22 04:48 G	5879426.55	5879426.70	5879426.85	0.0145	0.0066
Mercury	11385-06-18 11:31 G	5879514.82	5879514.98	5879515.15	0.0145	0.0039
Mercury	11385-09-14 18:14 G	5879603.09	5879603.26	5879603.44	0.0145	0.0013
Mercury	11385-12-12 01:11 G	5879691.38	5879691.55	5879691.72	0.0145	0.0015
Mercury	11386-03-10 07:55 G	5879779.67	5879779.83	5879780.01	0.0145	0.0043
Venus	11386-04-23 21:36 G	5879824.31	5879824.40	5879824.50	0.0145	0.0130
Mercury	11386-06-06 15:07 G	5879867.97	5879868.13	5879868.28	0.0145	0.0070
Mercury	11386-09-02 21:50 G	5879956.29	5879956.41	5879956.55	0.0145	0.0098
Mercury	11386-11-30 04:48 G	5880044.63	5880044.70	5880044.80	0.0145	0.0126
Venus	11386-12-06 09:21 G	5880050.72	5880050.89	5880051.09	0.0145	0.0079
Venus	11387-07-20 21:36 G	5880277.19	5880277.40	5880277.62	0.0144	0.0026
Venus	11388-03-03 09:36 G	5880503.68	5880503.90	5880504.11	0.0144	0.0026
Venus	11388-10-15 20:52 G	5880730.20	5880730.37	5880730.57	0.0144	0.0077
Venus	11389-05-30 08:23 G	5880956.77	5880956.85	5880956.96	0.0144	0.0128
Mars	11411-11-03 08:38 G	5889147.60	5889147.86	5889148.12	0.0134	0.0060
Mars	11413-10-02 22:19 G	5889847.16	5889847.43	5889847.71	0.0134	0.0036
Mars	11415-09-02 03:36 G	5890546.60	5890546.65	5890546.75	0.0133	0.0128
Moon	11420-01-27 01:55 G	5892154.49	5892154.58	5892154.73	0.0133	0.0118
Earth	11420-01-27 05:45 G	5892154.61	5892154.74	5892154.88	0.0133	0.0112 *
Earth	11421-01-30 13:26 G	5892523.86	5892524.06	5892524.29	0.0133	0.0074
Moon	11421-01-30 16:48 G	5892524.00	5892524.20	5892524.42	0.0133	0.0072 *
Moon	11422-02-03 18:00 G	5892893.02	5892893.25	5892893.52	0.0133	0.0036
Earth	11422-02-03 21:36 G	5892893.16	5892893.40	5892893.65	0.0133	0.0035 *
Earth	11423-02-08 05:16 G	5893262.46	5893262.72	5893262.97	0.0133	0.0004
Moon	11423-02-08 07:55 G	5893262.58	5893262.83	5893263.09	0.0133	0.0002 *
Moon	11424-02-12 09:21 G	5893631.66	5893631.89	5893632.15	0.0133	0.0049

Earth	11424-02-12 12:57 G	5893631.80	5893632.04	5893632.28	0.0133	0.0043 *
Earth	11425-02-15 20:09 G	5894001.16	5894001.34	5894001.56	0.0133	0.0082
Moon	11425-02-15 22:48 G	5894001.27	5894001.45	5894001.68	0.0133	0.0076 *
Moon	11426-02-20 00:43 G	5894370.48	5894370.53	5894370.63	0.0133	0.0127
Earth	11426-02-20 03:50 G	5894370.57	5894370.66	5894370.78	0.0133	0.0120 *
Mercury	11427-04-12 10:19 G	5894786.89	5894786.93	5894786.97	0.0133	0.0128
Mercury	11427-07-09 13:40 G	5894875.00	5894875.07	5894875.16	0.0133	0.0111
Mercury	11427-10-05 17:31 G	5894963.14	5894963.23	5894963.34	0.0133	0.0092
Mercury	11428-01-01 21:21 G	5895051.27	5895051.39	5895051.51	0.0133	0.0074
Mercury	11428-03-30 00:57 G	5895139.41	5895139.54	5895139.67	0.0133	0.0057
Mercury	11428-06-26 04:33 G	5895227.56	5895227.69	5895227.83	0.0133	0.0040
Mercury	11428-09-22 08:09 G	5895315.71	5895315.84	5895315.99	0.0133	0.0023
Mercury	11428-12-19 12:00 G	5895403.85	5895404.00	5895404.14	0.0133	0.0005
Mercury	11429-03-17 15:36 G	5895492.00	5895492.15	5895492.29	0.0134	0.0013
Mercury	11429-06-13 18:57 G	5895580.16	5895580.29	5895580.43	0.0134	0.0030
Venus	11429-09-07 22:48 G	5895666.34	5895666.45	5895666.57	0.0134	0.0113
Mercury	11429-09-09 22:33 G	5895668.31	5895668.44	5895668.57	0.0134	0.0047
Mercury	11429-12-07 01:55 G	5895756.47	5895756.58	5895756.71	0.0134	0.0065
Mercury	11430-03-05 05:31 G	5895844.63	5895844.73	5895844.85	0.0134	0.0082
Venus	11430-04-22 04:33 G	5895892.51	5895892.69	5895892.88	0.0134	0.0072
Mercury	11430-06-01 08:52 G	5895932.79	5895932.87	5895932.97	0.0134	0.0099
Mercury	11430-08-28 12:14 G	5896020.96	5896021.01	5896021.09	0.0134	0.0116
Mercury	11430-11-24 16:04 G	5896109.15	5896109.17	5896109.19	0.0134	0.0132
Venus	11430-12-04 10:19 G	5896118.72	5896118.93	5896119.15	0.0134	0.0031
Venus	11431-07-18 16:19 G	5896344.96	5896345.18	5896345.39	0.0134	0.0010
Venus	11432-02-29 22:04 G	5896571.22	5896571.42	5896571.62	0.0134	0.0052
Venus	11432-10-13 03:36 G	5896797.51	5896797.65	5896797.82	0.0135	0.0094
Venus	11433-05-27 09:50 G	5897023.91	5897023.91	5897023.92	0.0135	0.0135
Mars	11455-12-16 10:33 G	5905261.63	5905261.94	5905262.27	0.0144	0.0028
Mars	11457-11-21 22:48 G	5905968.27	5905968.45	5905968.67	0.0145	0.0115

Earth	11462-07-27 23:02 G	5907677.29	5907677.46	5907677.63	0.0146	0.0107
Moon	11462-07-27 23:16 G	5907677.34	5907677.47	5907677.64	0.0146	0.0115 *
Moon	11463-08-01 22:48 G	5908047.21	5908047.45	5908047.70	0.0146	0.0052
Earth	11463-08-01 23:16 G	5908047.25	5908047.47	5908047.71	0.0146	0.0057 *
Moon	11464-08-05 23:02 G	5908417.22	5908417.46	5908417.70	0.0146	0.0005
Earth	11464-08-05 23:45 G	5908417.24	5908417.49	5908417.75	0.0146	0.0006 *
Earth	11465-08-11 00:14 G	5908787.28	5908787.51	5908787.76	0.0146	0.0046
Moon	11465-08-11 01:11 G	5908787.31	5908787.55	5908787.81	0.0146	0.0042 *
Moon	11466-08-15 22:48 G	5909157.30	5909157.45	5909157.64	0.0146	0.0104
Earth	11466-08-16 00:43 G	5909157.36	5909157.53	5909157.74	0.0146	0.0097 *
Moon	11467-08-21 03:36 G	5909527.59	5909527.65	5909527.75	0.0145	0.0139
Mercury	11468-07-21 16:33 G	5909863.14	5909863.19	5909863.24	0.0145	0.0138
Mercury	11468-10-17 23:02 G	5909951.36	5909951.46	5909951.57	0.0145	0.0111
Mercury	11469-01-14 05:31 G	5910039.60	5910039.73	5910039.88	0.0145	0.0085
Mercury	11469-04-12 12:28 G	5910127.86	5910128.02	5910128.18	0.0145	0.0058
Mercury	11469-07-09 19:11 G	5910216.13	5910216.30	5910216.47	0.0145	0.0031
Mercury	11469-10-06 02:09 G	5910304.41	5910304.59	5910304.76	0.0145	0.0005
Mercury	11470-01-02 08:52 G	5910392.70	5910392.87	5910393.04	0.0145	0.0023
Mercury	11470-03-31 15:50 G	5910481.00	5910481.16	5910481.32	0.0145	0.0051
Mercury	11470-06-27 22:33 G	5910569.30	5910569.44	5910569.60	0.0145	0.0079
Venus	11470-08-06 16:48 G	5910609.05	5910609.20	5910609.36	0.0145	0.0101
Mercury	11470-09-24 05:31 G	5910657.62	5910657.73	5910657.86	0.0145	0.0107
Mercury	11470-12-21 12:57 G	5910745.97	5910746.04	5910746.10	0.0145	0.0134
Venus	11471-03-21 05:02 G	5910835.50	5910835.71	5910835.91	0.0144	0.0049
Venus	11471-11-02 16:48 G	5911061.98	5911062.20	5911062.42	0.0144	0.0003
Venus	11472-06-16 04:33 G	5911288.49	5911288.69	5911288.90	0.0144	0.0055
Venus	11473-01-28 16:04 G	5911515.04	5911515.17	5911515.33	0.0144	0.0106
Mars	11494-07-29 01:55 G	5919366.46	5919366.58	5919366.76	0.0135	0.0116
Mars	11496-06-27 22:04 G	5920066.14	5920066.42	5920066.72	0.0134	0.0018
Mars	11498-05-28 09:07 G	5920765.65	5920765.88	5920766.12	0.0134	0.0077

Moon	11504-01-28 15:36 G	5922836.01	5922836.15	5922836.34	0.0133	0.0102
Earth	11504-01-28 19:55 G	5922836.18	5922836.33	5922836.48	0.0133	0.0107 *
Earth	11505-02-01 03:36 G	5923205.44	5923205.65	5923205.88	0.0133	0.0069
Moon	11505-02-01 06:57 G	5923205.59	5923205.79	5923206.02	0.0133	0.0072 *
Moon	11506-02-05 07:55 G	5923574.59	5923574.83	5923575.10	0.0133	0.0031
Earth	11506-02-05 11:31 G	5923574.73	5923574.98	5923575.23	0.0133	0.0030 *
Earth	11507-02-09 19:11 G	5923944.04	5923944.30	5923944.56	0.0133	0.0009
Moon	11507-02-09 22:33 G	5923944.19	5923944.44	5923944.70	0.0133	0.0013 *
Moon	11508-02-13 23:45 G	5924313.25	5924313.49	5924313.74	0.0133	0.0043
Earth	11508-02-14 02:38 G	5924313.39	5924313.61	5924313.86	0.0133	0.0049 *
Earth	11509-02-17 10:19 G	5924682.75	5924682.93	5924683.13	0.0133	0.0087
Moon	11509-02-17 13:26 G	5924682.90	5924683.06	5924683.25	0.0133	0.0095 *
Moon	11510-02-21 14:38 G	5925052.02	5925052.11	5925052.25	0.0133	0.0119
Earth	11510-02-21 17:45 G	5925052.18	5925052.24	5925052.34	0.0133	0.0126 *
Mercury	11511-05-03 18:00 G	5925488.20	5925488.25	5925488.32	0.0133	0.0120
Mercury	11511-07-30 21:50 G	5925576.32	5925576.41	5925576.51	0.0133	0.0102
Mercury	11511-10-27 01:40 G	5925664.46	5925664.57	5925664.68	0.0133	0.0084
Mercury	11512-01-23 05:02 G	5925752.60	5925752.71	5925752.85	0.0133	0.0068
Mercury	11512-04-20 08:52 G	5925840.74	5925840.87	5925841.01	0.0133	0.0049
Mercury	11512-07-17 12:43 G	5925928.89	5925929.03	5925929.17	0.0133	0.0032
Mercury	11512-10-13 16:19 G	5926017.04	5926017.18	5926017.32	0.0133	0.0014
Mercury	11513-01-09 19:55 G	5926105.18	5926105.33	5926105.47	0.0133	0.0004
Mercury	11513-04-07 23:31 G	5926193.34	5926193.48	5926193.62	0.0134	0.0021
Venus	11513-05-09 11:16 G	5926224.91	5926224.97	5926225.03	0.0134	0.0128
Mercury	11513-07-05 02:52 G	5926281.49	5926281.62	5926281.76	0.0134	0.0038
Mercury	11513-10-01 06:28 G	5926369.64	5926369.77	5926369.90	0.0134	0.0055
Venus	11513-12-21 16:48 G	5926451.05	5926451.20	5926451.38	0.0134	0.0088
Mercury	11513-12-28 10:04 G	5926457.80	5926457.92	5926458.04	0.0134	0.0072
Mercury	11514-03-26 13:26 G	5926545.96	5926546.06	5926546.17	0.0134	0.0089
Mercury	11514-06-22 17:02 G	5926634.13	5926634.21	5926634.29	0.0134	0.0106

Venus	11514-08-04 22:33 G	5926677.24	5926677.44	5926677.65	0.0134	0.0047
Mercury	11514-09-18 20:23 G	5926722.30	5926722.35	5926722.41	0.0134	0.0123
Venus	11515-03-19 04:19 G	5926903.47	5926903.68	5926903.90	0.0134	0.0006
Venus	11515-10-31 09:50 G	5927129.71	5927129.91	5927130.13	0.0134	0.0037
Venus	11516-06-13 15:36 G	5927355.99	5927356.15	5927356.34	0.0134	0.0078
Venus	11517-01-25 21:50 G	5927582.32	5927582.41	5927582.52	0.0135	0.0119
Mars	11538-09-07 00:00 G	5935476.29	5935476.50	5935476.72	0.0144	0.0106
Mars	11540-08-13 01:55 G	5936182.26	5936182.58	5936182.90	0.0145	0.0032
Earth	11546-07-29 12:14 G	5938358.85	5938359.01	5938359.20	0.0146	0.0103
Moon	11546-07-29 13:55 G	5938358.91	5938359.08	5938359.27	0.0146	0.0096 *
Moon	11547-08-03 12:14 G	5938728.78	5938729.01	5938729.26	0.0146	0.0056
Earth	11547-08-03 12:28 G	5938728.80	5938729.02	5938729.27	0.0146	0.0052 *
Earth	11548-08-07 13:11 G	5939098.80	5939099.05	5939099.31	0.0146	0.0002
Moon	11548-08-07 13:40 G	5939098.82	5939099.07	5939099.31	0.0146	0.0001 *
Earth	11549-08-12 13:40 G	5939468.84	5939469.07	5939469.31	0.0146	0.0051
Moon	11549-08-12 14:38 G	5939468.87	5939469.11	5939469.35	0.0146	0.0055 *
Moon	11550-08-17 13:11 G	5939838.87	5939839.05	5939839.24	0.0146	0.0095
Earth	11550-08-17 14:23 G	5939838.92	5939839.10	5939839.28	0.0146	0.0102 *
Mercury	11552-08-12 00:28 G	5940564.45	5940564.52	5940564.61	0.0145	0.0128
Mercury	11552-11-08 07:26 G	5940652.69	5940652.81	5940652.93	0.0145	0.0102
Mercury	11553-02-04 13:55 G	5940740.94	5940741.08	5940741.23	0.0145	0.0075
Mercury	11553-05-03 20:38 G	5940829.20	5940829.36	5940829.53	0.0145	0.0048
Mercury	11553-07-31 03:21 G	5940917.47	5940917.64	5940917.82	0.0145	0.0022
Mercury	11553-10-27 10:19 G	5941005.76	5941005.93	5941006.10	0.0145	0.0006
Mercury	11554-01-23 17:02 G	5941094.05	5941094.21	5941094.39	0.0145	0.0034
Venus	11554-04-07 00:43 G	5941167.44	5941167.53	5941167.67	0.0145	0.0123
Mercury	11554-04-22 00:00 G	5941182.35	5941182.50	5941182.66	0.0145	0.0061
Mercury	11554-07-19 06:57 G	5941270.66	5941270.79	5941270.93	0.0145	0.0089
Mercury	11554-10-15 13:55 G	5941358.98	5941359.08	5941359.19	0.0145	0.0117
Venus	11554-11-19 12:57 G	5941393.86	5941394.04	5941394.24	0.0145	0.0071

Mercury	11555-01-11 21:07 G	5941447.38	5941447.38	5941447.39	0.0145	0.0144
Venus	11555-07-04 01:26 G	5941620.34	5941620.56	5941620.77	0.0144	0.0019
Venus	11556-02-15 13:11 G	5941846.84	5941847.05	5941847.26	0.0144	0.0033
Venus	11556-09-29 00:57 G	5942073.36	5942073.54	5942073.71	0.0144	0.0084
Venus	11557-05-13 12:28 G	5942299.95	5942300.02	5942300.09	0.0144	0.0135
Mars	11579-03-24 18:14 G	5950285.03	5950285.26	5950285.52	0.0134	0.0072
Mars	11581-02-21 11:02 G	5950984.68	5950984.96	5950985.25	0.0134	0.0025
Mars	11583-01-21 20:23 G	5951684.23	5951684.35	5951684.50	0.0133	0.0118
Moon	11588-01-29 06:00 G	5953517.62	5953517.75	5953517.91	0.0133	0.0108
Earth	11588-01-29 09:50 G	5953517.75	5953517.91	5953518.07	0.0133	0.0102 *
Earth	11589-02-01 17:16 G	5953887.01	5953887.22	5953887.46	0.0133	0.0064
Moon	11589-02-01 21:07 G	5953887.16	5953887.38	5953887.61	0.0133	0.0061 *
Moon	11590-02-05 21:50 G	5954256.16	5954256.41	5954256.67	0.0133	0.0026
Earth	11590-02-06 01:26 G	5954256.31	5954256.56	5954256.82	0.0133	0.0024 *
Earth	11591-02-10 09:07 G	5954625.63	5954625.88	5954626.14	0.0133	0.0015
Moon	11591-02-10 12:28 G	5954625.77	5954626.02	5954626.27	0.0133	0.0011 *
Moon	11592-02-14 13:11 G	5954994.82	5954995.05	5954995.28	0.0133	0.0059
Earth	11592-02-14 16:48 G	5954994.97	5954995.20	5954995.44	0.0133	0.0054 *
Earth	11593-02-18 00:14 G	5955364.34	5955364.51	5955364.71	0.0133	0.0093
Moon	11593-02-18 03:50 G	5955364.47	5955364.66	5955364.85	0.0133	0.0086 *
Earth	11594-02-22 08:09 G	5955733.81	5955733.84	5955733.89	0.0133	0.0131
Mercury	11595-02-24 22:19 G	5956101.41	5956101.43	5956101.46	0.0133	0.0130
Mercury	11595-05-24 02:09 G	5956189.52	5956189.59	5956189.67	0.0133	0.0112
Mercury	11595-08-20 06:00 G	5956277.65	5956277.75	5956277.85	0.0133	0.0095
Mercury	11595-11-16 09:21 G	5956365.78	5956365.89	5956366.02	0.0133	0.0077
Mercury	11596-02-12 13:11 G	5956453.93	5956454.05	5956454.18	0.0133	0.0059
Mercury	11596-05-10 17:02 G	5956542.07	5956542.21	5956542.34	0.0133	0.0042
Mercury	11596-08-06 20:38 G	5956630.22	5956630.36	5956630.50	0.0133	0.0024
Mercury	11596-11-03 00:14 G	5956718.37	5956718.51	5956718.65	0.0133	0.0007
Mercury	11597-01-30 03:50 G	5956806.52	5956806.66	5956806.80	0.0133	0.0011

Mercury	11597-04-28 07:11 G	5956894.67	5956894.80	5956894.95	0.0134	0.0029
Mercury	11597-07-25 10:48 G	5956982.82	5956982.95	5956983.09	0.0134	0.0045
Venus	11597-08-21 05:16 G	5957009.59	5957009.72	5957009.86	0.0134	0.0103
Mercury	11597-10-21 14:23 G	5957070.98	5957071.10	5957071.23	0.0134	0.0062
Mercury	11598-01-17 17:45 G	5957159.14	5957159.24	5957159.36	0.0134	0.0080
Venus	11598-04-04 11:02 G	5957235.76	5957235.96	5957236.15	0.0134	0.0062
Mercury	11598-04-15 21:07 G	5957247.30	5957247.38	5957247.49	0.0134	0.0097
Mercury	11598-07-13 00:57 G	5957335.47	5957335.54	5957335.61	0.0134	0.0113
Mercury	11598-10-09 04:19 G	5957423.65	5957423.68	5957423.71	0.0134	0.0130
Venus	11598-11-16 16:33 G	5957461.98	5957462.19	5957462.41	0.0134	0.0021
Venus	11599-06-30 22:19 G	5957688.21	5957688.43	5957688.65	0.0134	0.0020
Venus	11600-02-12 03:50 G	5957914.48	5957914.66	5957914.87	0.0134	0.0062
Venus	11600-09-25 09:36 G	5958140.78	5958140.90	5958141.05	0.0134	0.0103
Mars	11623-05-04 08:23 G	5966396.56	5966396.85	5966397.17	0.0144	0.0050
Mars	11625-04-09 13:40 G	5967102.83	5967103.07	5967103.35	0.0145	0.0091
Moon	11629-07-24 21:07 G	5968670.34	5968670.38	5968670.45	0.0146	0.0142
Earth	11630-07-29 23:31 G	5969040.31	5969040.48	5969040.68	0.0146	0.0098
Moon	11630-07-30 01:11 G	5969040.40	5969040.55	5969040.73	0.0146	0.0106 *
Moon	11631-08-03 22:19 G	5969410.18	5969410.43	5969410.68	0.0146	0.0041
Earth	11631-08-04 00:00 G	5969410.26	5969410.50	5969410.74	0.0146	0.0047 *
Earth	11632-08-08 00:14 G	5969780.26	5969780.51	5969780.77	0.0146	0.0005
Moon	11632-08-08 00:43 G	5969780.29	5969780.53	5969780.77	0.0146	0.0004 *
Moon	11633-08-13 00:28 G	5970150.28	5970150.52	5970150.77	0.0146	0.0053
Earth	11633-08-13 00:43 G	5970150.30	5970150.53	5970150.77	0.0146	0.0056 *
Moon	11634-08-18 00:43 G	5970520.38	5970520.53	5970520.69	0.0146	0.0113
Earth	11634-08-18 01:11 G	5970520.39	5970520.55	5970520.73	0.0146	0.0107 *
Mercury	11636-09-01 07:55 G	5971265.75	5971265.83	5971265.94	0.0145	0.0121
Mercury	11636-11-28 14:52 G	5971353.99	5971354.12	5971354.25	0.0145	0.0094
Mercury	11637-02-24 21:21 G	5971442.25	5971442.39	5971442.55	0.0145	0.0068
Mercury	11637-05-24 04:04 G	5971530.51	5971530.67	5971530.84	0.0145	0.0041

Mercury	11637-08-20 11:02 G	5971618.79	5971618.96	5971619.13	0.0145	0.0014
Mercury	11637-11-16 17:45 G	5971707.07	5971707.24	5971707.42	0.0145	0.0014
Mercury	11638-02-13 00:43 G	5971795.36	5971795.53	5971795.70	0.0145	0.0041
Mercury	11638-05-12 07:26 G	5971883.66	5971883.81	5971883.97	0.0145	0.0068
Venus	11638-07-19 20:09 G	5971952.18	5971952.34	5971952.50	0.0145	0.0094
Mercury	11638-08-08 14:23 G	5971971.98	5971972.10	5971972.24	0.0145	0.0096
Mercury	11638-11-04 21:21 G	5972060.31	5972060.39	5972060.49	0.0145	0.0124
Venus	11639-03-03 07:55 G	5972178.63	5972178.83	5972179.05	0.0145	0.0043
Venus	11639-10-15 19:55 G	5972405.12	5972405.33	5972405.55	0.0144	0.0010
Venus	11640-05-29 07:40 G	5972631.63	5972631.82	5972632.02	0.0144	0.0061
Venus	11641-01-10 19:26 G	5972858.18	5972858.31	5972858.45	0.0144	0.0112
Mars	11661-12-17 07:40 G	5980503.76	5980503.82	5980503.94	0.0135	0.0128
Mars	11663-11-17 08:09 G	5981203.56	5981203.84	5981204.13	0.0134	0.0029
Mars	11665-10-16 23:31 G	5981903.23	5981903.48	5981903.73	0.0134	0.0066
Moon	11672-01-29 19:26 G	5984199.13	5984199.31	5984199.50	0.0133	0.0091
Earth	11672-01-29 22:48 G	5984199.30	5984199.45	5984199.65	0.0133	0.0098 *
Earth	11673-02-02 07:11 G	5984568.57	5984568.80	5984569.03	0.0133	0.0058
Moon	11673-02-02 10:48 G	5984568.73	5984568.95	5984569.18	0.0133	0.0062 *
Moon	11674-02-06 11:31 G	5984937.72	5984937.98	5984938.23	0.0133	0.0019
Earth	11674-02-06 15:07 G	5984937.88	5984938.13	5984938.38	0.0133	0.0019 *
Earth	11675-02-10 22:48 G	5985307.20	5985307.45	5985307.70	0.0133	0.0020
Moon	11675-02-11 02:23 G	5985307.35	5985307.60	5985307.86	0.0133	0.0023 *
Moon	11676-02-15 03:07 G	5985676.40	5985676.63	5985676.87	0.0133	0.0054
Earth	11676-02-15 06:28 G	5985676.55	5985676.77	5985677.01	0.0133	0.0060 *
Earth	11677-02-18 14:09 G	5986045.93	5986046.09	5986046.27	0.0133	0.0098
Moon	11677-02-18 17:31 G	5986046.10	5986046.23	5986046.40	0.0133	0.0106 *
Moon	11678-02-22 18:28 G	5986415.23	5986415.27	5986415.33	0.0133	0.0130
Mercury	11679-03-17 06:00 G	5986802.71	5986802.75	5986802.82	0.0133	0.0123
Mercury	11679-06-13 09:50 G	5986890.83	5986890.91	5986891.01	0.0133	0.0105
Mercury	11679-09-09 13:40 G	5986978.97	5986979.07	5986979.18	0.0133	0.0087

Mercury	11679-12-06 17:31 G	5987067.11	5987067.23	5987067.35	0.0133	0.0070
Mercury	11680-03-03 21:07 G	5987155.25	5987155.38	5987155.52	0.0133	0.0052
Mercury	11680-05-31 00:43 G	5987243.40	5987243.53	5987243.67	0.0133	0.0035
Mercury	11680-08-27 04:19 G	5987331.54	5987331.68	5987331.83	0.0133	0.0018
Mercury	11680-11-23 08:09 G	5987419.69	5987419.84	5987419.98	0.0133	0.0003
Mercury	11681-02-19 11:31 G	5987507.85	5987507.98	5987508.13	0.0134	0.0019
Venus	11681-04-20 17:02 G	5987568.13	5987568.21	5987568.32	0.0134	0.0119
Mercury	11681-05-18 15:07 G	5987596.00	5987596.13	5987596.27	0.0134	0.0035
Mercury	11681-08-14 18:43 G	5987684.15	5987684.28	5987684.41	0.0134	0.0052
Mercury	11681-11-10 22:04 G	5987772.31	5987772.42	5987772.55	0.0134	0.0070
Venus	11681-12-02 23:02 G	5987794.28	5987794.46	5987794.64	0.0134	0.0078
Mercury	11682-02-07 01:40 G	5987860.47	5987860.57	5987860.68	0.0134	0.0087
Mercury	11682-05-06 05:16 G	5987948.63	5987948.72	5987948.81	0.0134	0.0103
Venus	11682-07-17 04:19 G	5988020.48	5988020.68	5988020.90	0.0134	0.0038
Mercury	11682-08-02 08:38 G	5988036.81	5988036.86	5988036.92	0.0134	0.0120
Venus	11683-02-28 10:19 G	5988246.71	5988246.93	5988247.14	0.0134	0.0004
Venus	11683-10-12 15:36 G	5988472.96	5988473.15	5988473.37	0.0134	0.0045
Venus	11684-05-25 21:21 G	5988699.24	5988699.39	5988699.57	0.0134	0.0086
Venus	11685-01-07 03:07 G	5988925.59	5988925.63	5988925.72	0.0135	0.0128
Mars	11706-01-24 01:40 G	5996611.44	5996611.57	5996611.74	0.0144	0.0126
Jupiter	11706-07-29 15:50 G	5996797.69	5996798.16	5996798.69	0.0144	0.0040
Mars	11707-12-30 20:09 G	5997317.02	5997317.34	5997317.67	0.0144	0.0010
Earth	11713-07-26 12:43 G	5999352.01	5999352.03	5999352.09	0.0146	0.0144
Earth	11714-07-31 12:43 G	5999721.85	5999722.03	5999722.24	0.0146	0.0094
Moon	11714-07-31 15:36 G	5999721.95	5999722.15	5999722.35	0.0146	0.0086 *
Moon	11715-08-05 11:16 G	6000091.74	6000091.97	6000092.23	0.0146	0.0048
Earth	11715-08-05 13:11 G	6000091.81	6000092.05	6000092.29	0.0146	0.0042 *
Earth	11716-08-09 13:26 G	6000461.81	6000462.06	6000462.31	0.0146	0.0009
Moon	11716-08-09 14:52 G	6000461.88	6000462.12	6000462.37	0.0146	0.0012 *
Moon	11717-08-14 13:26 G	6000831.83	6000832.06	6000832.30	0.0146	0.0064

Earth	11717-08-14 13:55 G	6000831.86	6000832.08	6000832.32	0.0146	0.0061 *
Moon	11718-08-19 14:23 G	6001201.94	6001202.10	6001202.28	0.0146	0.0106
Earth	11718-08-19 14:23 G	6001201.95	6001202.10	6001202.27	0.0146	0.0112 *
Mercury	11720-06-26 09:50 G	6001878.86	6001878.91	6001878.96	0.0145	0.0138
Mercury	11720-09-22 16:19 G	6001967.08	6001967.18	6001967.29	0.0145	0.0111
Mercury	11720-12-19 22:48 G	6002055.32	6002055.45	6002055.60	0.0145	0.0085
Mercury	11721-03-18 05:31 G	6002143.58	6002143.73	6002143.89	0.0145	0.0058
Mercury	11721-06-14 12:14 G	6002231.85	6002232.01	6002232.18	0.0145	0.0032
Mercury	11721-09-10 19:11 G	6002320.12	6002320.30	6002320.47	0.0145	0.0005
Mercury	11721-12-08 01:55 G	6002408.41	6002408.58	6002408.75	0.0145	0.0023
Mercury	11722-03-06 08:52 G	6002496.70	6002496.87	6002497.03	0.0145	0.0050
Venus	11722-03-20 04:04 G	6002510.54	6002510.67	6002510.80	0.0145	0.0116
Mercury	11722-06-02 15:36 G	6002585.01	6002585.15	6002585.30	0.0145	0.0078
Mercury	11722-08-29 22:19 G	6002673.33	6002673.43	6002673.56	0.0145	0.0106
Venus	11722-11-01 15:50 G	6002736.98	6002737.16	6002737.36	0.0145	0.0065
Mercury	11722-11-26 05:16 G	6002761.67	6002761.72	6002761.80	0.0145	0.0134
Venus	11723-06-16 04:04 G	6002963.45	6002963.67	6002963.89	0.0144	0.0013
Venus	11724-01-28 15:50 G	6003189.95	6003190.16	6003190.37	0.0144	0.0039
Venus	11724-09-11 03:21 G	6003416.48	6003416.64	6003416.82	0.0144	0.0091
Venus	11725-04-25 14:52 G	6003643.09	6003643.12	6003643.17	0.0144	0.0141
Mars	11746-08-13 00:00 G	6011422.29	6011422.50	6011422.75	0.0135	0.0084
Mars	11748-07-12 21:36 G	6012122.11	6012122.40	6012122.69	0.0134	0.0014
Mars	11750-06-12 11:02 G	6012821.80	6012821.96	6012822.14	0.0134	0.0108
Earth	11755-01-27 04:33 G	6014511.67	6014511.69	6014511.71	0.0133	0.0132
Moon	11755-01-27 07:55 G	6014511.76	6014511.83	6014511.93	0.0133	0.0125
Moon	11756-01-31 09:21 G	6014880.73	6014880.89	6014881.07	0.0133	0.0099
Earth	11756-01-31 12:43 G	6014880.86	6014881.03	6014881.22	0.0133	0.0093 *
Earth	11757-02-03 20:38 G	6015250.13	6015250.36	6015250.60	0.0133	0.0054
Moon	11757-02-04 00:14 G	6015250.28	6015250.51	6015250.76	0.0133	0.0051 *
Moon	11758-02-08 00:57 G	6015619.30	6015619.54	6015619.80	0.0133	0.0017

Earth	11758-02-08 04:33 G	6015619.44	6015619.69	6015619.95	0.0133	0.0015 *
Earth	11759-02-12 12:28 G	6015988.77	6015989.02	6015989.27	0.0133	0.0025
Moon	11759-02-12 16:04 G	6015988.92	6015989.17	6015989.43	0.0133	0.0022 *
Moon	11760-02-16 16:33 G	6016357.98	6016358.19	6016358.41	0.0133	0.0069
Earth	11760-02-16 20:09 G	6016358.13	6016358.34	6016358.58	0.0133	0.0065 *
Earth	11761-02-20 03:50 G	6016727.52	6016727.66	6016727.84	0.0133	0.0104
Moon	11761-02-20 07:26 G	6016727.65	6016727.81	6016727.99	0.0133	0.0097 *
Mercury	11763-04-07 14:09 G	6017504.02	6017504.09	6017504.16	0.0133	0.0115
Mercury	11763-07-04 18:00 G	6017592.15	6017592.25	6017592.35	0.0133	0.0098
Mercury	11763-09-30 21:21 G	6017680.29	6017680.39	6017680.52	0.0133	0.0081
Mercury	11763-12-28 01:11 G	6017768.43	6017768.55	6017768.69	0.0133	0.0063
Mercury	11764-03-25 05:02 G	6017856.58	6017856.71	6017856.85	0.0133	0.0045
Mercury	11764-06-21 08:38 G	6017944.72	6017944.86	6017945.00	0.0133	0.0027
Mercury	11764-09-17 12:14 G	6018032.87	6018033.01	6018033.16	0.0133	0.0010
Mercury	11764-12-14 15:50 G	6018121.02	6018121.16	6018121.31	0.0134	0.0009
Mercury	11765-03-12 19:26 G	6018209.17	6018209.31	6018209.45	0.0134	0.0025
Mercury	11765-06-08 23:02 G	6018297.33	6018297.46	6018297.60	0.0134	0.0042
Venus	11765-08-03 11:02 G	6018352.81	6018352.96	6018353.12	0.0134	0.0094
Mercury	11765-09-05 02:38 G	6018385.48	6018385.61	6018385.74	0.0134	0.0059
Mercury	11765-12-02 06:00 G	6018473.64	6018473.75	6018473.87	0.0134	0.0077
Mercury	11766-02-28 09:21 G	6018561.80	6018561.89	6018562.00	0.0134	0.0094
Venus	11766-03-17 16:33 G	6018579.00	6018579.19	6018579.40	0.0134	0.0053
Mercury	11766-05-27 12:57 G	6018649.97	6018650.04	6018650.12	0.0134	0.0111
Mercury	11766-08-23 16:33 G	6018738.15	6018738.19	6018738.23	0.0134	0.0127
Venus	11766-10-29 22:04 G	6018805.21	6018805.42	6018805.64	0.0134	0.0013
Venus	11767-06-13 03:50 G	6019031.45	6019031.66	6019031.87	0.0134	0.0029
Venus	11768-01-25 09:36 G	6019257.72	6019257.90	6019258.09	0.0134	0.0070
Venus	11768-09-07 14:52 G	6019484.02	6019484.12	6019484.26	0.0135	0.0112
Mars	11790-09-20 07:40 G	6027531.56	6027531.82	6027532.13	0.0144	0.0070
Mars	11792-08-26 06:14 G	6028237.50	6028237.76	6028238.07	0.0144	0.0070

Moon	11797-07-26 21:07 G	6030033.30	6030033.38	6030033.49	0.0146	0.0135
Earth	11797-07-27 00:14 G	6030033.47	6030033.51	6030033.60	0.0146	0.0141 *
Earth	11798-08-01 00:14 G	6030403.32	6030403.51	6030403.72	0.0146	0.0090
Moon	11798-08-01 02:38 G	6030403.44	6030403.61	6030403.81	0.0146	0.0098 *
Moon	11799-08-05 21:50 G	6030773.16	6030773.41	6030773.66	0.0146	0.0032
Earth	11799-08-06 00:28 G	6030773.28	6030773.52	6030773.77	0.0146	0.0039 *
Earth	11800-08-11 00:43 G	6031143.29	6031143.53	6031143.79	0.0146	0.0014
Moon	11800-08-11 02:23 G	6031143.36	6031143.60	6031143.84	0.0146	0.0012 *
Moon	11801-08-16 00:00 G	6031513.26	6031513.50	6031513.73	0.0146	0.0063
Earth	11801-08-16 01:26 G	6031513.33	6031513.56	6031513.79	0.0146	0.0065 *
Earth	11802-08-21 01:26 G	6031883.44	6031883.56	6031883.74	0.0145	0.0117
Moon	11802-08-21 02:23 G	6031883.48	6031883.60	6031883.74	0.0145	0.0122 *
Mercury	11804-07-17 17:02 G	6032580.15	6032580.21	6032580.30	0.0145	0.0131
Mercury	11804-10-13 23:45 G	6032668.38	6032668.49	6032668.62	0.0145	0.0104
Mercury	11805-01-10 06:28 G	6032756.63	6032756.77	6032756.92	0.0145	0.0077
Mercury	11805-04-08 12:57 G	6032844.89	6032845.04	6032845.21	0.0145	0.0051
Mercury	11805-07-05 19:55 G	6032933.16	6032933.33	6032933.50	0.0145	0.0024
Mercury	11805-10-02 02:38 G	6033021.44	6033021.61	6033021.79	0.0145	0.0003
Venus	11805-11-18 10:19 G	6033068.89	6033068.93	6033069.00	0.0145	0.0140
Mercury	11805-12-29 09:21 G	6033109.72	6033109.89	6033110.07	0.0145	0.0031
Mercury	11806-03-27 16:19 G	6033198.02	6033198.18	6033198.34	0.0145	0.0058
Mercury	11806-06-23 23:02 G	6033286.33	6033286.46	6033286.61	0.0145	0.0086
Venus	11806-07-02 22:48 G	6033295.28	6033295.45	6033295.63	0.0145	0.0088
Mercury	11806-09-20 06:14 G	6033374.65	6033374.76	6033374.87	0.0145	0.0113
Mercury	11806-12-17 12:57 G	6033463.02	6033463.04	6033463.09	0.0145	0.0141
Venus	11807-02-14 10:48 G	6033521.74	6033521.95	6033522.17	0.0145	0.0036
Venus	11807-09-28 22:33 G	6033748.23	6033748.44	6033748.66	0.0144	0.0016
Venus	11808-05-12 10:04 G	6033974.74	6033974.92	6033975.13	0.0144	0.0067
Venus	11808-12-24 21:36 G	6034201.29	6034201.40	6034201.54	0.0144	0.0118
Mars	11831-04-08 13:26 G	6042340.78	6042341.06	6042341.34	0.0134	0.0041

Mars	11833-03-08 08:38 G	6043040.61	6043040.86	6043041.14	0.0134	0.0056
Earth	11839-01-28 17:02 G	6045193.15	6045193.21	6045193.28	0.0133	0.0128
Moon	11840-02-01 21:36 G	6045562.21	6045562.40	6045562.61	0.0133	0.0083
Earth	11840-02-02 01:26 G	6045562.37	6045562.56	6045562.75	0.0133	0.0089 *
Earth	11841-02-05 09:21 G	6045931.66	6045931.89	6045932.14	0.0133	0.0050
Moon	11841-02-05 12:43 G	6045931.80	6045932.03	6045932.28	0.0133	0.0054 *
Moon	11842-02-09 13:55 G	6046300.83	6046301.08	6046301.34	0.0133	0.0010
Earth	11842-02-09 17:45 G	6046300.98	6046301.24	6046301.49	0.0133	0.0010 *
Earth	11843-02-14 01:26 G	6046670.32	6046670.56	6046670.82	0.0133	0.0030
Moon	11843-02-14 05:16 G	6046670.47	6046670.72	6046670.97	0.0133	0.0031 *
Moon	11844-02-18 06:00 G	6047039.54	6047039.75	6047039.98	0.0133	0.0065
Earth	11844-02-18 09:50 G	6047039.69	6047039.91	6047040.12	0.0133	0.0069 *
Earth	11845-02-21 17:02 G	6047409.09	6047409.21	6047409.38	0.0133	0.0109
Moon	11845-02-21 20:52 G	6047409.26	6047409.37	6047409.51	0.0133	0.0116 *
Mercury	11847-01-30 18:00 G	6048117.22	6048117.25	6048117.31	0.0133	0.0126
Mercury	11847-04-28 21:50 G	6048205.34	6048205.41	6048205.50	0.0133	0.0108
Mercury	11847-07-26 01:40 G	6048293.47	6048293.57	6048293.68	0.0133	0.0090
Mercury	11847-10-22 05:31 G	6048381.61	6048381.73	6048381.85	0.0133	0.0073
Mercury	11848-01-18 09:07 G	6048469.75	6048469.88	6048470.01	0.0133	0.0055
Mercury	11848-04-15 12:43 G	6048557.90	6048558.03	6048558.17	0.0133	0.0038
Mercury	11848-07-12 16:33 G	6048646.05	6048646.19	6048646.33	0.0133	0.0020
Mercury	11848-10-08 20:09 G	6048734.20	6048734.34	6048734.48	0.0134	0.0003
Mercury	11849-01-04 23:45 G	6048822.35	6048822.49	6048822.63	0.0134	0.0015
Mercury	11849-04-03 03:21 G	6048910.50	6048910.64	6048910.78	0.0134	0.0032
Venus	11849-04-03 22:33 G	6048911.34	6048911.44	6048911.58	0.0134	0.0110
Mercury	11849-06-30 06:43 G	6048998.65	6048998.78	6048998.92	0.0134	0.0049
Mercury	11849-09-26 10:19 G	6049086.81	6049086.93	6049087.06	0.0134	0.0066
Venus	11849-11-16 04:19 G	6049137.50	6049137.68	6049137.87	0.0134	0.0069
Mercury	11849-12-23 13:40 G	6049174.97	6049175.07	6049175.19	0.0134	0.0084
Mercury	11850-03-21 17:31 G	6049263.13	6049263.23	6049263.32	0.0134	0.0100

Mercury	11850-06-17 20:52 G	6049351.30	6049351.37	6049351.44	0.0134	0.0117
Venus	11850-06-30 10:04 G	6049363.71	6049363.92	6049364.13	0.0134	0.0028
Mercury	11850-09-14 00:14 G	6049439.51	6049439.51	6049439.51	0.0134	0.0134
Venus	11851-02-11 15:36 G	6049589.94	6049590.15	6049590.37	0.0134	0.0013
Venus	11851-09-25 21:07 G	6049816.19	6049816.38	6049816.59	0.0134	0.0054
Venus	11852-05-09 02:52 G	6050042.47	6050042.62	6050042.78	0.0134	0.0095
Mars	11875-05-18 16:48 G	6058451.88	6058452.20	6058452.53	0.0144	0.0011
Mars	11877-04-23 19:40 G	6059158.20	6059158.32	6059158.49	0.0145	0.0130
Moon	11881-07-28 09:21 G	6060714.88	6060714.89	6060714.96	0.0145	0.0144
Earth	11881-07-28 13:11 G	6060714.98	6060715.05	6060715.15	0.0145	0.0137
Earth	11882-08-02 13:11 G	6061084.85	6061085.05	6061085.26	0.0146	0.0086
Moon	11882-08-02 16:19 G	6061084.98	6061085.18	6061085.40	0.0146	0.0079 *
Moon	11883-08-07 10:33 G	6061454.70	6061454.94	6061455.20	0.0146	0.0041
Earth	11883-08-07 13:11 G	6061454.82	6061455.05	6061455.31	0.0146	0.0035 *
Earth	11884-08-11 13:55 G	6061824.83	6061825.08	6061825.33	0.0146	0.0018
Moon	11884-08-11 16:19 G	6061824.94	6061825.18	6061825.43	0.0146	0.0021 *
Moon	11885-08-16 12:43 G	6062194.81	6062195.03	6062195.26	0.0145	0.0071
Earth	11885-08-16 14:09 G	6062194.88	6062195.09	6062195.33	0.0145	0.0070 *
Earth	11886-08-21 14:52 G	6062564.99	6062565.12	6062565.27	0.0145	0.0121
Moon	11886-08-21 15:50 G	6062565.03	6062565.16	6062565.32	0.0145	0.0115 *
Mercury	11888-08-07 01:26 G	6063281.47	6063281.56	6063281.65	0.0145	0.0121
Mercury	11888-11-03 07:55 G	6063369.70	6063369.83	6063369.96	0.0145	0.0094
Mercury	11889-01-30 14:23 G	6063457.96	6063458.10	6063458.26	0.0145	0.0068
Mercury	11889-04-28 21:07 G	6063546.22	6063546.38	6063546.55	0.0145	0.0041
Mercury	11889-07-26 03:50 G	6063634.49	6063634.66	6063634.84	0.0145	0.0015
Mercury	11889-10-22 10:48 G	6063722.77	6063722.95	6063723.12	0.0145	0.0013
Mercury	11890-01-18 17:31 G	6063811.06	6063811.23	6063811.40	0.0145	0.0040
Venus	11890-03-02 06:28 G	6063853.64	6063853.77	6063853.92	0.0145	0.0110
Mercury	11890-04-17 00:14 G	6063899.36	6063899.51	6063899.67	0.0145	0.0068
Mercury	11890-07-14 07:11 G	6063987.67	6063987.80	6063987.94	0.0145	0.0095

Mercury	11890-10-10 14:09 G	6064076.00	6064076.09	6064076.19	0.0145	0.0123
Venus	11890-10-14 18:43 G	6064080.08	6064080.28	6064080.48	0.0145	0.0058
Venus	11891-05-29 06:43 G	6064306.56	6064306.78	6064307.00	0.0145	0.0006
Venus	11892-01-10 18:14 G	6064533.06	6064533.26	6064533.48	0.0144	0.0046
Venus	11892-08-24 06:00 G	6064759.59	6064759.75	6064759.92	0.0144	0.0096
Mars	11914-01-02 01:26 G	6072559.38	6072559.56	6072559.79	0.0135	0.0097
Jupiter	11914-07-23 05:02 G	6072761.25	6072761.71	6072762.23	0.0135	0.0041
Mars	11915-12-03 04:33 G	6073259.40	6073259.69	6073259.98	0.0134	0.0002
Mars	11917-11-01 20:23 G	6073959.18	6073959.35	6073959.57	0.0134	0.0098
Earth	11923-01-30 05:31 G	6075874.66	6075874.73	6075874.83	0.0133	0.0125
Moon	11923-01-30 08:52 G	6075874.76	6075874.87	6075875.00	0.0133	0.0117 *
Moon	11924-02-03 11:02 G	6076243.80	6076243.96	6076244.16	0.0133	0.0092
Earth	11924-02-03 14:23 G	6076243.90	6076244.10	6076244.30	0.0133	0.0085 *
Earth	11925-02-06 22:19 G	6076613.20	6076613.43	6076613.68	0.0133	0.0046
Moon	11925-02-07 01:40 G	6076613.34	6076613.57	6076613.83	0.0133	0.0042 *
Moon	11926-02-11 03:36 G	6076982.40	6076982.65	6076982.90	0.0133	0.0008
Earth	11926-02-11 06:43 G	6076982.53	6076982.78	6076983.04	0.0133	0.0006 *
Earth	11927-02-15 14:52 G	6077351.87	6077352.12	6077352.37	0.0133	0.0034
Moon	11927-02-15 18:14 G	6077352.01	6077352.26	6077352.52	0.0133	0.0032 *
Moon	11928-02-19 19:11 G	6077721.11	6077721.30	6077721.51	0.0133	0.0078
Earth	11928-02-19 22:33 G	6077721.24	6077721.44	6077721.67	0.0133	0.0074 *
Earth	11929-02-23 06:43 G	6078090.66	6078090.78	6078090.92	0.0133	0.0113
Moon	11929-02-23 09:50 G	6078090.78	6078090.91	6078091.08	0.0133	0.0107 *
Mercury	11931-02-21 01:55 G	6078818.52	6078818.58	6078818.65	0.0133	0.0119
Mercury	11931-05-20 05:31 G	6078906.65	6078906.73	6078906.84	0.0133	0.0102
Mercury	11931-08-16 09:21 G	6078994.79	6078994.89	6078995.01	0.0133	0.0084
Mercury	11931-11-12 13:11 G	6079082.93	6079083.05	6079083.18	0.0133	0.0066
Mercury	11932-02-08 16:48 G	6079171.07	6079171.20	6079171.34	0.0133	0.0048
Mercury	11932-05-06 20:38 G	6079259.22	6079259.36	6079259.50	0.0133	0.0031
Mercury	11932-08-03 00:14 G	6079347.37	6079347.51	6079347.65	0.0133	0.0013

Mercury	11932-10-30 03:50 G	6079435.52	6079435.66	6079435.80	0.0134	0.0004
Venus	11932-12-03 10:48 G	6079469.88	6079469.95	6079470.03	0.0134	0.0125
Mercury	11933-01-26 07:26 G	6079523.67	6079523.81	6079523.95	0.0134	0.0022
Mercury	11933-04-24 11:02 G	6079611.82	6079611.96	6079612.10	0.0134	0.0039
Venus	11933-07-17 16:04 G	6079696.01	6079696.17	6079696.35	0.0134	0.0085
Mercury	11933-07-21 14:38 G	6079699.98	6079700.11	6079700.24	0.0134	0.0056
Mercury	11933-10-17 18:00 G	6079788.14	6079788.25	6079788.37	0.0134	0.0073
Mercury	11934-01-13 21:36 G	6079876.30	6079876.40	6079876.51	0.0134	0.0090
Venus	11934-02-28 21:50 G	6079922.20	6079922.41	6079922.62	0.0134	0.0044
Mercury	11934-04-12 00:57 G	6079964.47	6079964.54	6079964.63	0.0134	0.0107
Mercury	11934-07-09 04:33 G	6080052.64	6080052.69	6080052.74	0.0134	0.0124
Venus	11934-10-13 03:21 G	6080148.42	6080148.64	6080148.86	0.0134	0.0003
Venus	11935-05-27 08:52 G	6080374.66	6080374.87	6080375.08	0.0134	0.0038
Venus	11936-01-08 14:38 G	6080600.94	6080601.11	6080601.29	0.0134	0.0079
Venus	11936-08-21 20:23 G	6080827.26	6080827.35	6080827.46	0.0134	0.0120
Mars	11958-02-07 09:36 G	6088666.67	6088666.90	6088667.17	0.0144	0.0090
Mars	11960-01-14 01:11 G	6089372.26	6089372.55	6089372.88	0.0144	0.0047
Moon	11965-07-29 21:21 G	6091396.29	6091396.39	6091396.53	0.0145	0.0128
Earth	11965-07-30 00:57 G	6091396.45	6091396.54	6091396.65	0.0145	0.0133 *
Earth	11966-08-04 00:43 G	6091766.33	6091766.53	6091766.74	0.0145	0.0082
Moon	11966-08-04 03:50 G	6091766.48	6091766.66	6091766.87	0.0145	0.0090 *
Moon	11967-08-08 21:36 G	6092136.15	6092136.40	6092136.66	0.0145	0.0023
Earth	11967-08-09 00:57 G	6092136.30	6092136.54	6092136.79	0.0145	0.0030 *
Earth	11968-08-13 01:26 G	6092506.31	6092506.56	6092506.81	0.0145	0.0022
Moon	11968-08-13 03:50 G	6092506.42	6092506.66	6092506.91	0.0145	0.0019 *
Moon	11969-08-17 23:16 G	6092876.25	6092876.47	6092876.70	0.0145	0.0073
Earth	11969-08-18 01:40 G	6092876.36	6092876.57	6092876.80	0.0145	0.0074 *
Earth	11970-08-23 02:23 G	6093246.47	6093246.60	6093246.73	0.0145	0.0125
Moon	11970-08-23 04:04 G	6093246.56	6093246.67	6093246.78	0.0145	0.0130 *
Mercury	11972-06-01 02:09 G	6093894.56	6093894.59	6093894.65	0.0145	0.0140

Mercury	11972-08-28 08:52 G	6093982.77	6093982.87	6093982.98	0.0145	0.0113
Mercury	11972-11-24 15:21 G	6094071.01	6094071.14	6094071.28	0.0145	0.0087
Mercury	11973-02-20 21:50 G	6094159.26	6094159.41	6094159.58	0.0145	0.0061
Mercury	11973-05-20 04:33 G	6094247.53	6094247.69	6094247.86	0.0145	0.0034
Mercury	11973-08-16 11:31 G	6094335.80	6094335.98	6094336.15	0.0145	0.0008
Venus	11973-10-31 12:57 G	6094411.97	6094412.04	6094412.14	0.0145	0.0133
Mercury	11973-11-12 18:14 G	6094424.09	6094424.26	6094424.43	0.0145	0.0020
Mercury	11974-02-09 00:57 G	6094512.38	6094512.54	6094512.71	0.0145	0.0047
Mercury	11974-05-08 07:40 G	6094600.68	6094600.82	6094600.98	0.0145	0.0075
Venus	11974-06-15 01:26 G	6094638.38	6094638.56	6094638.74	0.0145	0.0081
Mercury	11974-08-04 14:38 G	6094688.99	6094689.11	6094689.24	0.0145	0.0102
Mercury	11974-10-31 21:36 G	6094777.33	6094777.40	6094777.48	0.0145	0.0130
Venus	11975-01-27 13:11 G	6094864.84	6094865.05	6094865.27	0.0145	0.0030
Venus	11975-09-11 00:57 G	6095091.33	6095091.54	6095091.76	0.0144	0.0022
Venus	11976-04-24 12:28 G	6095317.84	6095318.02	6095318.21	0.0144	0.0073
Venus	11976-12-07 00:00 G	6095544.40	6095544.50	6095544.62	0.0144	0.0124
Mars	11998-08-27 16:19 G	6103477.93	6103478.18	6103478.46	0.0135	0.0055
Mars	12000-07-27 15:21 G	6104177.87	6104178.14	6104178.42	0.0134	0.0043

13TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 13th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	12007-01-30 17:16 G	6106556.14	6106556.22	6106556.35	0.0133	0.0121		

Moon	12007-01-30 20:09 G	6106556.29	6106556.34	6106556.44	0.0133	0.0127 *
Moon	12008-02-03 23:02 G	6106925.27	6106925.46	6106925.68	0.0133	0.0075
Earth	12008-02-04 02:09 G	6106925.40	6106925.59	6106925.80	0.0133	0.0081 *
Earth	12009-02-07 10:33 G	6107294.70	6107294.94	6107295.19	0.0133	0.0041
Moon	12009-02-07 13:26 G	6107294.82	6107295.06	6107295.31	0.0133	0.0046 *
Moon	12010-02-11 15:50 G	6107663.91	6107664.16	6107664.42	0.0133	0.0002
Earth	12010-02-11 19:11 G	6107664.04	6107664.30	6107664.56	0.0133	0.0002 *
Earth	12011-02-16 03:07 G	6108033.39	6108033.63	6108033.88	0.0133	0.0039
Moon	12011-02-16 06:00 G	6108033.52	6108033.75	6108034.02	0.0133	0.0040 *
Moon	12012-02-20 07:55 G	6108402.64	6108402.83	6108403.06	0.0133	0.0075
Earth	12012-02-20 11:02 G	6108402.77	6108402.96	6108403.18	0.0133	0.0079 *
Earth	12013-02-23 18:57 G	6108772.19	6108772.29	6108772.42	0.0133	0.0118
Moon	12013-02-23 22:19 G	6108772.37	6108772.43	6108772.54	0.0133	0.0125 *
Mercury	12014-12-15 05:45 G	6109431.72	6109431.74	6109431.77	0.0133	0.0131
Mercury	12015-03-13 09:36 G	6109519.83	6109519.90	6109519.98	0.0133	0.0113
Mercury	12015-06-09 13:26 G	6109607.96	6109608.06	6109608.16	0.0133	0.0095
Mercury	12015-09-05 17:02 G	6109696.10	6109696.21	6109696.33	0.0133	0.0077
Mercury	12015-12-02 20:52 G	6109784.24	6109784.37	6109784.50	0.0133	0.0059
Mercury	12016-02-29 00:28 G	6109872.39	6109872.52	6109872.66	0.0133	0.0042
Mercury	12016-05-27 04:04 G	6109960.53	6109960.67	6109960.82	0.0133	0.0025
Mercury	12016-08-23 07:55 G	6110048.68	6110048.83	6110048.97	0.0134	0.0008
Mercury	12016-11-19 11:31 G	6110136.83	6110136.98	6110137.12	0.0134	0.0011
Mercury	12017-02-15 15:07 G	6110224.99	6110225.13	6110225.27	0.0134	0.0028
Venus	12017-03-17 03:36 G	6110254.51	6110254.65	6110254.79	0.0134	0.0101
Mercury	12017-05-14 18:28 G	6110313.14	6110313.27	6110313.41	0.0134	0.0045
Mercury	12017-08-10 22:04 G	6110401.30	6110401.42	6110401.55	0.0134	0.0062
Venus	12017-10-29 08:52 G	6110480.68	6110480.87	6110481.07	0.0134	0.0061
Mercury	12017-11-07 01:26 G	6110489.46	6110489.56	6110489.68	0.0134	0.0080
Mercury	12018-02-03 05:16 G	6110577.62	6110577.72	6110577.81	0.0134	0.0096
Mercury	12018-05-02 08:38 G	6110665.79	6110665.86	6110665.94	0.0134	0.0113

Venus	12018-06-12 14:38 G	6110706.89	6110707.11	6110707.32	0.0134	0.0020
Mercury	12018-07-29 12:00 G	6110753.98	6110754.00	6110754.04	0.0134	0.0130
Venus	12019-01-24 20:09 G	6110933.13	6110933.34	6110933.56	0.0134	0.0021
Venus	12019-09-08 01:40 G	6111159.39	6111159.57	6111159.78	0.0134	0.0062
Venus	12020-04-21 07:11 G	6111385.68	6111385.80	6111385.96	0.0134	0.0104
Mars	12042-10-04 14:52 G	6119586.81	6119587.12	6119587.44	0.0144	0.0033
Mars	12044-09-09 11:16 G	6120292.77	6120292.97	6120293.22	0.0144	0.0106
Moon	12049-07-30 09:21 G	6122077.81	6122077.89	6122078.00	0.0145	0.0135
Earth	12049-07-30 13:11 G	6122077.95	6122078.05	6122078.18	0.0145	0.0128 *
Earth	12050-08-04 12:57 G	6122447.84	6122448.04	6122448.26	0.0145	0.0078
Moon	12050-08-04 16:33 G	6122447.98	6122448.19	6122448.42	0.0145	0.0070 *
Moon	12051-08-09 10:04 G	6122817.68	6122817.92	6122818.18	0.0145	0.0033
Earth	12051-08-09 13:26 G	6122817.81	6122818.06	6122818.31	0.0145	0.0026 *
Earth	12052-08-13 13:40 G	6123187.82	6123188.07	6123188.32	0.0145	0.0026
Moon	12052-08-13 17:02 G	6123187.97	6123188.21	6123188.45	0.0145	0.0031 *
Moon	12053-08-18 11:31 G	6123557.77	6123557.98	6123558.20	0.0145	0.0079
Earth	12053-08-18 13:55 G	6123557.88	6123558.08	6123558.31	0.0145	0.0079 *
Earth	12054-08-23 14:38 G	6123928.00	6123928.11	6123928.22	0.0145	0.0130
Moon	12054-08-23 16:19 G	6123928.08	6123928.18	6123928.33	0.0145	0.0126 *
Mercury	12056-06-21 10:04 G	6124595.86	6124595.92	6124596.00	0.0145	0.0131
Mercury	12056-09-17 16:33 G	6124684.08	6124684.19	6124684.31	0.0145	0.0105
Mercury	12056-12-14 23:02 G	6124772.33	6124772.46	6124772.61	0.0145	0.0079
Mercury	12057-03-13 05:45 G	6124860.58	6124860.74	6124860.90	0.0145	0.0052
Mercury	12057-06-09 12:28 G	6124948.85	6124949.02	6124949.19	0.0145	0.0026
Mercury	12057-09-05 19:11 G	6125037.13	6125037.30	6125037.47	0.0145	0.0001
Mercury	12057-12-03 01:55 G	6125125.41	6125125.58	6125125.75	0.0145	0.0028
Venus	12058-02-12 08:23 G	6125196.71	6125196.85	6125197.01	0.0145	0.0104
Mercury	12058-03-01 08:38 G	6125213.70	6125213.86	6125214.03	0.0145	0.0056
Mercury	12058-05-28 15:36 G	6125302.01	6125302.15	6125302.29	0.0145	0.0083
Mercury	12058-08-24 22:19 G	6125390.33	6125390.43	6125390.55	0.0145	0.0111

Venus	12058-09-26 20:23 G	6125423.15	6125423.35	6125423.56	0.0145	0.0052
Mercury	12058-11-21 05:31 G	6125478.68	6125478.73	6125478.78	0.0145	0.0138
Venus	12059-05-11 08:23 G	6125649.63	6125649.85	6125650.07	0.0144	0.0001
Venus	12059-12-23 20:09 G	6125876.13	6125876.34	6125876.54	0.0144	0.0051
Venus	12060-08-06 07:26 G	6126102.68	6126102.81	6126102.98	0.0144	0.0102
Mars	12081-05-22 00:57 G	6133696.38	6133696.54	6133696.71	0.0135	0.0112
Mars	12083-04-22 06:57 G	6134396.50	6134396.79	6134397.09	0.0135	0.0012
Mars	12085-03-22 01:40 G	6135096.35	6135096.57	6135096.80	0.0134	0.0085
Earth	12091-01-31 05:31 G	6137237.63	6137237.73	6137237.88	0.0133	0.0117
Moon	12091-01-31 08:09 G	6137237.71	6137237.84	6137238.00	0.0133	0.0109 *
Moon	12092-02-04 12:28 G	6137606.83	6137607.02	6137607.22	0.0133	0.0083
Earth	12092-02-04 14:23 G	6137606.91	6137607.10	6137607.32	0.0133	0.0077 *
Earth	12093-02-07 23:02 G	6137976.22	6137976.46	6137976.71	0.0133	0.0037
Moon	12093-02-08 01:55 G	6137976.33	6137976.58	6137976.84	0.0133	0.0032 *
Moon	12094-02-12 05:16 G	6138345.47	6138345.72	6138345.97	0.0133	0.0001
Earth	12094-02-12 07:40 G	6138345.56	6138345.82	6138346.08	0.0133	0.0004 *
Earth	12095-02-16 15:36 G	6138714.92	6138715.15	6138715.40	0.0133	0.0044
Moon	12095-02-16 18:43 G	6138715.04	6138715.28	6138715.53	0.0133	0.0042 *
Moon	12096-02-20 20:38 G	6139084.19	6139084.36	6139084.56	0.0133	0.0087
Earth	12096-02-20 23:45 G	6139084.30	6139084.49	6139084.70	0.0133	0.0083 *
Earth	12097-02-24 07:26 G	6139453.73	6139453.81	6139453.92	0.0133	0.0123
Moon	12097-02-24 10:19 G	6139453.83	6139453.93	6139454.07	0.0133	0.0118 *
Mercury	12099-01-04 13:11 G	6140133.01	6140133.05	6140133.11	0.0133	0.0125
Mercury	12099-04-02 17:02 G	6140221.13	6140221.21	6140221.31	0.0133	0.0107
Mercury	12099-06-29 20:52 G	6140309.27	6140309.37	6140309.48	0.0133	0.0089
Mercury	12099-09-26 00:43 G	6140397.41	6140397.53	6140397.65	0.0133	0.0071
Mercury	12099-12-23 04:19 G	6140485.55	6140485.68	6140485.82	0.0133	0.0053
Mercury	12100-03-21 08:09 G	6140573.70	6140573.84	6140573.98	0.0133	0.0036
Mercury	12100-06-17 11:45 G	6140661.85	6140661.99	6140662.13	0.0133	0.0018
Mercury	12100-09-13 15:21 G	6140750.00	6140750.14	6140750.29	0.0134	0.0003

Venus	12100-11-15 14:23 G	6140813.02	6140813.10	6140813.22	0.0134	0.0118
Mercury	12100-12-10 18:57 G	6140838.15	6140838.29	6140838.44	0.0134	0.0017
Mercury	12101-03-08 22:33 G	6140926.31	6140926.44	6140926.58	0.0134	0.0034
Mercury	12101-06-05 02:09 G	6141014.46	6141014.59	6141014.72	0.0134	0.0051
Venus	12101-06-29 20:23 G	6141039.17	6141039.35	6141039.53	0.0134	0.0077
Mercury	12101-09-01 05:31 G	6141102.62	6141102.73	6141102.86	0.0134	0.0069
Mercury	12101-11-28 09:07 G	6141190.78	6141190.88	6141191.00	0.0134	0.0086
Venus	12102-02-11 01:40 G	6141265.37	6141265.57	6141265.79	0.0134	0.0037
Mercury	12102-02-24 12:28 G	6141278.94	6141279.02	6141279.12	0.0134	0.0103
Mercury	12102-05-23 16:19 G	6141367.12	6141367.18	6141367.24	0.0134	0.0119
Venus	12102-09-25 07:26 G	6141491.59	6141491.81	6141492.03	0.0134	0.0004
Venus	12103-05-09 12:57 G	6141717.84	6141718.04	6141718.25	0.0134	0.0045
Venus	12103-12-21 18:43 G	6141944.12	6141944.28	6141944.46	0.0134	0.0086
Venus	12104-08-04 00:28 G	6142170.47	6142170.52	6142170.60	0.0134	0.0128
Mars	12125-06-26 12:28 G	6149801.84	6149802.02	6149802.25	0.0143	0.0110
Mars	12127-06-01 21:07 G	6150507.06	6150507.38	6150507.70	0.0144	0.0023
Moon	12133-07-31 21:07 G	6152759.26	6152759.38	6152759.54	0.0145	0.0120
Earth	12133-08-01 00:28 G	6152759.41	6152759.52	6152759.67	0.0145	0.0124 *
Earth	12134-08-06 00:28 G	6153129.30	6153129.52	6153129.74	0.0145	0.0073
Moon	12134-08-06 04:04 G	6153129.46	6153129.67	6153129.88	0.0145	0.0081 *
Moon	12135-08-10 20:52 G	6153499.12	6153499.37	6153499.63	0.0145	0.0013
Earth	12135-08-11 00:28 G	6153499.28	6153499.52	6153499.78	0.0145	0.0022 *
Earth	12136-08-15 00:43 G	6153869.29	6153869.53	6153869.78	0.0145	0.0031
Moon	12136-08-15 03:50 G	6153869.42	6153869.66	6153869.91	0.0145	0.0028 *
Moon	12137-08-19 21:21 G	6154239.20	6154239.39	6154239.62	0.0145	0.0084
Earth	12137-08-20 00:43 G	6154239.34	6154239.53	6154239.75	0.0145	0.0083 *
Earth	12138-08-25 00:57 G	6154609.46	6154609.54	6154609.65	0.0145	0.0135
Moon	12138-08-25 03:36 G	6154609.59	6154609.65	6154609.74	0.0145	0.0139 *
Mercury	12140-07-12 17:16 G	6155297.15	6155297.22	6155297.32	0.0145	0.0125
Mercury	12140-10-08 23:45 G	6155385.38	6155385.49	6155385.63	0.0145	0.0099

Mercury	12141-01-05 06:28 G	6155473.63	6155473.77	6155473.92	0.0145	0.0072
Mercury	12141-04-03 12:57 G	6155561.89	6155562.04	6155562.21	0.0145	0.0046
Mercury	12141-06-30 19:40 G	6155650.15	6155650.32	6155650.50	0.0145	0.0020
Mercury	12141-09-27 02:23 G	6155738.43	6155738.60	6155738.78	0.0145	0.0008
Venus	12141-10-13 14:38 G	6155755.02	6155755.11	6155755.21	0.0145	0.0128
Mercury	12141-12-24 09:07 G	6155826.72	6155826.88	6155827.05	0.0145	0.0035
Mercury	12142-03-22 15:50 G	6155915.01	6155915.16	6155915.32	0.0145	0.0062
Venus	12142-05-28 02:23 G	6155981.43	6155981.60	6155981.80	0.0145	0.0077
Mercury	12142-06-18 22:33 G	6156003.32	6156003.44	6156003.59	0.0145	0.0090
Mercury	12142-09-15 05:31 G	6156091.64	6156091.73	6156091.84	0.0145	0.0117
Mercury	12142-12-12 12:28 G	6156180.02	6156180.02	6156180.04	0.0145	0.0144
Venus	12143-01-09 14:38 G	6156207.89	6156208.11	6156208.32	0.0145	0.0025
Venus	12143-08-24 02:23 G	6156434.39	6156434.60	6156434.81	0.0144	0.0027
Venus	12144-04-06 13:40 G	6156660.90	6156661.07	6156661.27	0.0144	0.0078
Venus	12144-11-19 01:40 G	6156887.47	6156887.57	6156887.67	0.0144	0.0128
Mars	12166-01-15 14:09 G	6164614.85	6164615.09	6164615.36	0.0135	0.0069
Mars	12167-12-16 16:33 G	6165314.91	6165315.19	6165315.48	0.0134	0.0030
Mars	12169-11-15 09:50 G	6166014.83	6166014.91	6166015.05	0.0134	0.0124
Earth	12175-02-01 17:16 G	6167919.09	6167919.22	6167919.36	0.0133	0.0112
Moon	12175-02-01 18:57 G	6167919.18	6167919.29	6167919.42	0.0133	0.0119 *
Moon	12176-02-05 23:45 G	6168288.28	6168288.49	6168288.72	0.0133	0.0066
Earth	12176-02-06 01:40 G	6168288.37	6168288.57	6168288.80	0.0133	0.0073 *
Earth	12177-02-09 10:33 G	6168657.69	6168657.94	6168658.19	0.0133	0.0032
Moon	12177-02-09 12:14 G	6168657.77	6168658.01	6168658.27	0.0133	0.0038 *
Moon	12178-02-13 16:48 G	6169026.95	6169027.20	6169027.45	0.0133	0.0010
Earth	12178-02-13 19:11 G	6169027.04	6169027.30	6169027.56	0.0133	0.0008 *
Earth	12179-02-18 03:07 G	6169396.40	6169396.63	6169396.87	0.0133	0.0048
Moon	12179-02-18 05:16 G	6169396.48	6169396.72	6169396.98	0.0133	0.0048 *
Moon	12180-02-22 08:52 G	6169765.69	6169765.87	6169766.07	0.0133	0.0085
Earth	12180-02-22 11:16 G	6169765.78	6169765.97	6169766.17	0.0133	0.0088 *

Earth	12181-02-25 18:57 G	6170135.24	6170135.29	6170135.37	0.0133	0.0128
Mercury	12183-01-25 20:38 G	6170834.31	6170834.36	6170834.43	0.0133	0.0119
Mercury	12183-04-24 00:28 G	6170922.43	6170922.52	6170922.62	0.0133	0.0101
Mercury	12183-07-21 04:19 G	6171010.57	6171010.68	6171010.80	0.0133	0.0083
Mercury	12183-10-17 08:09 G	6171098.72	6171098.84	6171098.97	0.0133	0.0065
Mercury	12184-01-13 11:45 G	6171186.86	6171186.99	6171187.13	0.0133	0.0048
Mercury	12184-04-10 15:36 G	6171275.01	6171275.15	6171275.29	0.0133	0.0030
Mercury	12184-07-07 19:11 G	6171363.16	6171363.30	6171363.44	0.0134	0.0013
Mercury	12184-10-03 22:48 G	6171451.31	6171451.45	6171451.60	0.0134	0.0005
Mercury	12184-12-31 02:23 G	6171539.46	6171539.60	6171539.74	0.0134	0.0022
Venus	12185-02-27 06:43 G	6171597.64	6171597.78	6171597.95	0.0134	0.0095
Mercury	12185-03-29 06:00 G	6171627.62	6171627.75	6171627.89	0.0134	0.0040
Mercury	12185-06-25 09:36 G	6171715.77	6171715.90	6171716.03	0.0134	0.0057
Mercury	12185-09-21 13:11 G	6171803.93	6171804.05	6171804.17	0.0134	0.0074
Venus	12185-10-11 12:28 G	6171823.83	6171824.02	6171824.22	0.0134	0.0054
Mercury	12185-12-18 16:33 G	6171892.10	6171892.19	6171892.30	0.0134	0.0091
Mercury	12186-03-16 20:09 G	6171980.26	6171980.34	6171980.43	0.0134	0.0108
Venus	12186-05-25 18:00 G	6172050.04	6172050.25	6172050.47	0.0134	0.0014
Mercury	12186-06-12 23:31 G	6172068.44	6172068.48	6172068.54	0.0134	0.0125
Venus	12187-01-06 23:45 G	6172276.28	6172276.49	6172276.71	0.0134	0.0028
Venus	12187-08-21 05:45 G	6172502.55	6172502.74	6172502.92	0.0134	0.0069
Venus	12188-04-03 11:31 G	6172728.86	6172728.98	6172729.10	0.0134	0.0110
Mars	12210-02-21 13:55 G	6180721.80	6180722.08	6180722.39	0.0143	0.0055
Mars	12212-01-28 02:52 G	6181427.35	6181427.62	6181427.89	0.0144	0.0081
Moon	12217-08-02 08:52 G	6183440.75	6183440.87	6183441.00	0.0145	0.0126
Earth	12217-08-02 12:00 G	6183440.88	6183441.00	6183441.16	0.0145	0.0121 *
Earth	12218-08-07 11:45 G	6183810.79	6183810.99	6183811.23	0.0145	0.0070
Moon	12218-08-07 15:36 G	6183810.92	6183811.15	6183811.38	0.0145	0.0062 *
Moon	12219-08-12 08:38 G	6184180.61	6184180.86	6184181.11	0.0145	0.0024
Earth	12219-08-12 12:14 G	6184180.76	6184181.01	6184181.26	0.0145	0.0017 *

Earth	12220-08-16 12:00 G	6184550.76	6184551.00	6184551.25	0.0145	0.0036
Moon	12220-08-16 15:50 G	6184550.92	6184551.16	6184551.40	0.0145	0.0041 *
Moon	12221-08-21 08:52 G	6184920.68	6184920.87	6184921.08	0.0145	0.0087
Earth	12221-08-21 12:14 G	6184920.82	6184921.01	6184921.22	0.0145	0.0088 *
Earth	12222-08-26 12:00 G	6185290.95	6185291.00	6185291.09	0.0145	0.0140
Moon	12222-08-26 15:07 G	6185291.06	6185291.13	6185291.24	0.0145	0.0136 *
Mercury	12224-05-06 18:28 G	6185910.25	6185910.27	6185910.30	0.0145	0.0144
Mercury	12224-08-03 00:43 G	6185998.45	6185998.53	6185998.64	0.0145	0.0118
Mercury	12224-10-30 07:11 G	6186086.68	6186086.80	6186086.94	0.0145	0.0092
Mercury	12225-01-26 13:55 G	6186174.93	6186175.08	6186175.24	0.0145	0.0065
Mercury	12225-04-24 20:38 G	6186263.19	6186263.36	6186263.52	0.0145	0.0039
Mercury	12225-07-22 03:07 G	6186351.46	6186351.63	6186351.81	0.0145	0.0013
Mercury	12225-10-18 09:50 G	6186439.74	6186439.91	6186440.09	0.0145	0.0015
Mercury	12226-01-14 16:33 G	6186528.03	6186528.19	6186528.36	0.0145	0.0042
Venus	12226-01-26 09:07 G	6186539.74	6186539.88	6186540.05	0.0145	0.0101
Mercury	12226-04-12 23:16 G	6186616.32	6186616.47	6186616.63	0.0145	0.0069
Mercury	12226-07-10 06:00 G	6186704.63	6186704.75	6186704.89	0.0145	0.0097
Venus	12226-09-09 21:07 G	6186766.18	6186766.38	6186766.59	0.0145	0.0049
Mercury	12226-10-06 12:57 G	6186792.96	6186793.04	6186793.14	0.0145	0.0124
Venus	12227-04-24 09:07 G	6186992.66	6186992.88	6186993.10	0.0144	0.0003
Venus	12227-12-06 20:38 G	6187219.17	6187219.36	6187219.57	0.0144	0.0054
Venus	12228-07-20 08:23 G	6187445.71	6187445.85	6187446.01	0.0144	0.0105
Mars	12248-10-10 18:14 G	6194833.18	6194833.26	6194833.38	0.0135	0.0127
Mars	12250-09-11 03:50 G	6195533.38	6195533.66	6195533.96	0.0135	0.0026
Mars	12252-08-11 03:21 G	6196233.40	6196233.64	6196233.90	0.0134	0.0072
Earth	12259-02-03 04:33 G	6198600.56	6198600.69	6198600.85	0.0133	0.0110
Moon	12259-02-03 05:45 G	6198600.59	6198600.74	6198600.93	0.0133	0.0103 *
Moon	12260-02-07 12:43 G	6198969.83	6198970.03	6198970.24	0.0133	0.0075
Earth	12260-02-07 13:26 G	6198969.86	6198970.06	6198970.30	0.0133	0.0069 *
Earth	12261-02-10 22:33 G	6199339.19	6199339.44	6199339.69	0.0133	0.0028

Moon	12261-02-11 00:14 G	6199339.25	6199339.51	6199339.78	0.0133	0.0023 *
Moon	12262-02-15 05:31 G	6199708.48	6199708.73	6199708.98	0.0133	0.0008
Earth	12262-02-15 06:43 G	6199708.53	6199708.78	6199709.04	0.0133	0.0013 *
Earth	12263-02-19 14:38 G	6200077.89	6200078.11	6200078.36	0.0133	0.0053
Moon	12263-02-19 16:48 G	6200077.96	6200078.20	6200078.45	0.0133	0.0052 *
Moon	12264-02-23 20:23 G	6200447.20	6200447.35	6200447.55	0.0133	0.0097
Earth	12264-02-23 22:33 G	6200447.27	6200447.44	6200447.64	0.0133	0.0093 *
Earth	12265-02-27 06:28 G	6200816.77	6200816.77	6200816.80	0.0133	0.0133
Moon	12265-02-27 08:09 G	6200816.80	6200816.84	6200816.94	0.0133	0.0128 *
Mercury	12266-11-20 00:14 G	6201447.50	6201447.51	6201447.54	0.0133	0.0132
Mercury	12267-02-16 04:04 G	6201535.61	6201535.67	6201535.76	0.0133	0.0114
Mercury	12267-05-15 07:55 G	6201623.74	6201623.83	6201623.94	0.0133	0.0096
Mercury	12267-08-11 11:45 G	6201711.88	6201711.99	6201712.11	0.0133	0.0078
Mercury	12267-11-07 15:36 G	6201800.02	6201800.15	6201800.28	0.0133	0.0060
Mercury	12268-02-03 19:11 G	6201888.17	6201888.30	6201888.44	0.0133	0.0042
Mercury	12268-05-01 23:02 G	6201976.32	6201976.46	6201976.60	0.0134	0.0025
Mercury	12268-07-29 02:38 G	6202064.47	6202064.61	6202064.75	0.0134	0.0007
Mercury	12268-10-25 06:14 G	6202152.62	6202152.76	6202152.91	0.0134	0.0011
Venus	12268-10-28 17:31 G	6202156.13	6202156.23	6202156.36	0.0134	0.0112
Mercury	12269-01-21 09:50 G	6202240.77	6202240.91	6202241.05	0.0134	0.0028
Mercury	12269-04-19 13:26 G	6202328.93	6202329.06	6202329.20	0.0134	0.0045
Venus	12269-06-11 23:16 G	6202382.29	6202382.47	6202382.66	0.0134	0.0071
Mercury	12269-07-16 17:02 G	6202417.09	6202417.21	6202417.34	0.0134	0.0062
Mercury	12269-10-12 20:23 G	6202505.25	6202505.35	6202505.47	0.0134	0.0080
Mercury	12270-01-09 00:00 G	6202593.41	6202593.50	6202593.61	0.0134	0.0097
Venus	12270-01-24 04:48 G	6202608.50	6202608.70	6202608.92	0.0134	0.0031
Mercury	12270-04-07 03:21 G	6202681.58	6202681.64	6202681.73	0.0134	0.0114
Mercury	12270-07-04 07:11 G	6202769.77	6202769.80	6202769.83	0.0134	0.0130
Venus	12270-09-07 10:33 G	6202834.73	6202834.94	6202835.16	0.0134	0.0011
Venus	12271-04-21 16:19 G	6203060.98	6203061.18	6203061.38	0.0134	0.0051

Venus	12271-12-03 22:04 G	6203287.27	6203287.42	6203287.58	0.0134	0.0092
Venus	12272-07-17 03:50 G	6203513.65	6203513.66	6203513.69	0.0134	0.0134
Mars	12292-11-12 14:52 G	6210937.00	6210937.12	6210937.28	0.0143	0.0129
Mars	12294-10-18 15:50 G	6211641.84	6211642.16	6211642.48	0.0144	0.0001
Mars	12296-09-23 09:07 G	6212347.80	6212347.88	6212347.98	0.0144	0.0139
Moon	12301-08-03 20:52 G	6214122.22	6214122.37	6214122.53	0.0145	0.0113
Earth	12301-08-03 23:45 G	6214122.34	6214122.49	6214122.64	0.0145	0.0117 *
Earth	12302-08-08 23:02 G	6214492.25	6214492.46	6214492.69	0.0145	0.0065
Moon	12302-08-09 02:38 G	6214492.40	6214492.61	6214492.84	0.0145	0.0072 *
Moon	12303-08-13 19:26 G	6214862.07	6214862.31	6214862.57	0.0145	0.0006
Earth	12303-08-13 23:02 G	6214862.21	6214862.46	6214862.71	0.0145	0.0013 *
Earth	12304-08-17 22:33 G	6215232.21	6215232.44	6215232.70	0.0145	0.0041
Moon	12304-08-18 02:09 G	6215232.36	6215232.59	6215232.84	0.0145	0.0036 *
Moon	12305-08-22 18:57 G	6215602.11	6215602.29	6215602.49	0.0145	0.0094
Earth	12305-08-22 22:33 G	6215602.26	6215602.44	6215602.65	0.0145	0.0092 *
Earth	12306-08-27 22:48 G	6215972.42	6215972.45	6215972.49	0.0145	0.0144
Mercury	12308-05-28 01:40 G	6216611.53	6216611.57	6216611.63	0.0145	0.0137
Mercury	12308-08-24 07:55 G	6216699.74	6216699.83	6216699.95	0.0145	0.0112
Mercury	12308-11-20 14:23 G	6216787.98	6216788.10	6216788.25	0.0145	0.0086
Mercury	12309-02-16 21:21 G	6216876.23	6216876.39	6216876.54	0.0145	0.0059
Mercury	12309-05-16 03:50 G	6216964.49	6216964.66	6216964.83	0.0145	0.0033
Mercury	12309-08-12 10:33 G	6217052.76	6217052.94	6217053.11	0.0145	0.0007
Venus	12309-09-26 15:07 G	6217098.03	6217098.13	6217098.25	0.0145	0.0125
Mercury	12309-11-08 17:02 G	6217141.04	6217141.21	6217141.38	0.0145	0.0021
Mercury	12310-02-04 23:45 G	6217229.33	6217229.49	6217229.66	0.0145	0.0048
Mercury	12310-05-04 06:43 G	6217317.63	6217317.78	6217317.93	0.0145	0.0075
Venus	12310-05-11 03:21 G	6217324.45	6217324.64	6217324.82	0.0145	0.0073
Mercury	12310-07-31 13:11 G	6217405.94	6217406.05	6217406.18	0.0145	0.0103
Mercury	12310-10-27 20:09 G	6217494.27	6217494.34	6217494.42	0.0145	0.0130
Venus	12310-12-23 15:07 G	6217550.92	6217551.13	6217551.35	0.0144	0.0022

Venus	12311-08-07 02:52 G	6217777.41	6217777.62	6217777.84	0.0144	0.0030
Venus	12312-03-20 14:23 G	6218003.94	6218004.10	6218004.29	0.0144	0.0082
Venus	12312-11-02 01:55 G	6218230.51	6218230.58	6218230.68	0.0144	0.0132
Mars	12333-06-06 06:00 G	6225751.53	6225751.75	6225751.99	0.0135	0.0084
Mars	12335-05-07 13:11 G	6226451.76	6226452.05	6226452.34	0.0135	0.0016
Mars	12337-04-06 10:33 G	6227151.80	6227151.94	6227152.12	0.0134	0.0112
Earth	12343-02-04 14:52 G	6229281.99	6229282.12	6229282.30	0.0133	0.0107
Moon	12343-02-04 15:36 G	6229282.02	6229282.15	6229282.30	0.0133	0.0111 *
Moon	12344-02-08 23:02 G	6229651.25	6229651.46	6229651.70	0.0133	0.0059
Earth	12344-02-09 00:14 G	6229651.29	6229651.51	6229651.73	0.0133	0.0066 *
Earth	12345-02-12 08:38 G	6230020.62	6230020.86	6230021.12	0.0133	0.0025
Moon	12345-02-12 09:21 G	6230020.64	6230020.89	6230021.15	0.0133	0.0031 *
Moon	12346-02-16 16:04 G	6230389.92	6230390.17	6230390.42	0.0133	0.0019
Earth	12346-02-16 17:16 G	6230389.97	6230390.22	6230390.48	0.0133	0.0016 *
Earth	12347-02-21 00:57 G	6230759.33	6230759.54	6230759.79	0.0133	0.0057
Moon	12347-02-21 02:09 G	6230759.36	6230759.59	6230759.84	0.0133	0.0055 *
Moon	12348-02-25 08:09 G	6231128.67	6231128.84	6231129.02	0.0133	0.0095
Earth	12348-02-25 09:07 G	6231128.72	6231128.88	6231129.07	0.0133	0.0097 *
Mercury	12350-12-11 07:40 G	6232148.78	6232148.82	6232148.87	0.0133	0.0126
Mercury	12351-03-09 11:31 G	6232236.90	6232236.98	6232237.07	0.0133	0.0108
Mercury	12351-06-05 15:21 G	6232325.04	6232325.14	6232325.25	0.0133	0.0090
Mercury	12351-09-01 18:57 G	6232413.18	6232413.29	6232413.42	0.0133	0.0073
Mercury	12351-11-28 22:48 G	6232501.32	6232501.45	6232501.59	0.0133	0.0055
Mercury	12352-02-25 02:23 G	6232589.47	6232589.60	6232589.75	0.0134	0.0038
Mercury	12352-05-23 06:14 G	6232677.62	6232677.76	6232677.91	0.0134	0.0020
Venus	12352-06-29 04:04 G	6232714.63	6232714.67	6232714.74	0.0134	0.0129
Mercury	12352-08-19 10:04 G	6232765.77	6232765.92	6232766.06	0.0134	0.0004
Mercury	12352-11-15 13:40 G	6232853.93	6232854.07	6232854.21	0.0134	0.0016
Venus	12353-02-10 09:36 G	6232940.75	6232940.90	6232941.07	0.0134	0.0089
Mercury	12353-02-11 17:16 G	6232942.08	6232942.22	6232942.36	0.0134	0.0033

Mercury	12353-05-10 20:52 G	6233030.24	6233030.37	6233030.50	0.0134	0.0050
Mercury	12353-08-07 00:14 G	6233118.40	6233118.51	6233118.64	0.0134	0.0068
Venus	12353-09-24 15:21 G	6233166.94	6233167.14	6233167.34	0.0134	0.0048
Mercury	12353-11-03 03:50 G	6233206.56	6233206.66	6233206.78	0.0134	0.0085
Mercury	12354-01-30 07:26 G	6233294.72	6233294.81	6233294.91	0.0134	0.0102
Mercury	12354-04-28 10:48 G	6233382.90	6233382.95	6233383.03	0.0134	0.0119
Venus	12354-05-08 20:52 G	6233393.16	6233393.37	6233393.59	0.0134	0.0008
Venus	12354-12-21 02:38 G	6233619.41	6233619.61	6233619.83	0.0134	0.0034
Venus	12355-08-04 08:38 G	6233845.68	6233845.86	6233846.04	0.0134	0.0075
Venus	12356-03-17 14:09 G	6234071.99	6234072.09	6234072.21	0.0134	0.0116
Mars	12377-07-10 12:28 G	6241856.76	6241857.02	6241857.31	0.0143	0.0075
Mars	12379-06-15 17:45 G	6242561.95	6242562.24	6242562.54	0.0144	0.0058
Moon	12385-08-04 07:26 G	6244803.68	6244803.81	6244803.97	0.0145	0.0118
Earth	12385-08-04 10:04 G	6244803.79	6244803.92	6244804.10	0.0145	0.0114 *
Earth	12386-08-09 09:50 G	6245173.70	6245173.91	6245174.15	0.0145	0.0062
Moon	12386-08-09 12:57 G	6245173.81	6245174.04	6245174.28	0.0145	0.0055 *
Moon	12387-08-14 06:28 G	6245543.53	6245543.77	6245544.02	0.0145	0.0017
Earth	12387-08-14 09:50 G	6245543.66	6245543.91	6245544.17	0.0145	0.0010 *
Earth	12388-08-18 09:21 G	6245913.66	6245913.89	6245914.14	0.0145	0.0043
Moon	12388-08-18 13:11 G	6245913.81	6245914.05	6245914.29	0.0145	0.0049 *
Moon	12389-08-23 06:00 G	6246283.56	6246283.75	6246283.95	0.0145	0.0094
Earth	12389-08-23 09:36 G	6246283.71	6246283.90	6246284.09	0.0145	0.0096 *
Moon	12390-08-28 12:43 G	6246654.02	6246654.03	6246654.08	0.0145	0.0144
Mercury	12392-06-17 09:07 G	6247312.81	6247312.88	6247312.96	0.0145	0.0130
Mercury	12392-09-13 15:21 G	6247401.04	6247401.14	6247401.27	0.0145	0.0105
Mercury	12392-12-10 21:50 G	6247489.28	6247489.41	6247489.56	0.0145	0.0079
Mercury	12393-03-09 04:33 G	6247577.53	6247577.69	6247577.85	0.0145	0.0052
Mercury	12393-06-05 11:16 G	6247665.80	6247665.97	6247666.14	0.0145	0.0026
Mercury	12393-09-01 17:45 G	6247754.07	6247754.24	6247754.42	0.0145	0.0003
Mercury	12393-11-29 00:28 G	6247842.35	6247842.52	6247842.69	0.0145	0.0028

Venus	12394-01-08 09:36 G	6247882.75	6247882.90	6247883.07	0.0145	0.0097
Mercury	12394-02-25 07:11 G	6247930.64	6247930.80	6247930.96	0.0145	0.0055
Mercury	12394-05-24 13:40 G	6248018.94	6248019.07	6248019.23	0.0145	0.0083
Mercury	12394-08-20 20:38 G	6248107.26	6248107.36	6248107.48	0.0145	0.0110
Venus	12394-08-22 21:50 G	6248109.20	6248109.41	6248109.62	0.0145	0.0045
Mercury	12394-11-17 03:50 G	6248195.61	6248195.66	6248195.71	0.0144	0.0137
Venus	12395-04-06 09:36 G	6248335.68	6248335.90	6248336.12	0.0144	0.0007
Venus	12395-11-18 21:07 G	6248562.19	6248562.38	6248562.59	0.0144	0.0058
Venus	12396-07-02 08:52 G	6248788.74	6248788.87	6248789.03	0.0144	0.0109
Mars	12418-01-29 18:57 G	6256670.01	6256670.29	6256670.57	0.0135	0.0040
Mars	12419-12-30 23:45 G	6257370.23	6257370.49	6257370.76	0.0135	0.0058
Moon	12427-02-05 01:26 G	6259963.41	6259963.56	6259963.77	0.0133	0.0098
Earth	12427-02-05 01:55 G	6259963.43	6259963.58	6259963.75	0.0133	0.0103 *
Earth	12428-02-09 11:02 G	6260332.73	6260332.96	6260333.19	0.0133	0.0062
Moon	12428-02-09 11:02 G	6260332.76	6260332.96	6260333.18	0.0133	0.0069 *
Earth	12429-02-12 19:26 G	6260702.07	6260702.31	6260702.58	0.0133	0.0022
Moon	12429-02-12 20:09 G	6260702.08	6260702.34	6260702.61	0.0133	0.0016 *
Earth	12430-02-17 04:04 G	6261071.41	6261071.67	6261071.92	0.0133	0.0020
Moon	12430-02-17 03:50 G	6261071.42	6261071.66	6261071.91	0.0133	0.0015 *
Earth	12431-02-21 12:00 G	6261440.78	6261441.00	6261441.24	0.0133	0.0060
Moon	12431-02-21 12:43 G	6261440.80	6261441.03	6261441.27	0.0133	0.0061 *
Moon	12432-02-25 19:11 G	6261810.16	6261810.30	6261810.47	0.0133	0.0103
Earth	12432-02-25 20:09 G	6261810.18	6261810.34	6261810.51	0.0133	0.0101 *
Mercury	12434-12-31 15:07 G	6262850.07	6262850.13	6262850.19	0.0133	0.0121
Mercury	12435-03-29 18:57 G	6262938.20	6262938.29	6262938.38	0.0133	0.0103
Mercury	12435-06-25 22:33 G	6263026.34	6263026.44	6263026.56	0.0133	0.0085
Mercury	12435-09-22 02:23 G	6263114.48	6263114.60	6263114.73	0.0133	0.0067
Mercury	12435-12-19 06:14 G	6263202.63	6263202.76	6263202.90	0.0133	0.0049
Mercury	12436-03-16 09:50 G	6263290.77	6263290.91	6263291.06	0.0134	0.0032
Mercury	12436-06-12 13:40 G	6263378.93	6263379.07	6263379.21	0.0134	0.0014

Mercury	12436-09-08 17:16 G	6263467.08	6263467.22	6263467.37	0.0134	0.0004
Venus	12436-10-10 19:55 G	6263499.21	6263499.33	6263499.48	0.0134	0.0106
Mercury	12436-12-05 20:52 G	6263555.23	6263555.37	6263555.52	0.0134	0.0021
Mercury	12437-03-04 00:28 G	6263643.39	6263643.52	6263643.66	0.0134	0.0039
Venus	12437-05-25 01:55 G	6263725.39	6263725.58	6263725.77	0.0134	0.0065
Mercury	12437-05-31 04:04 G	6263731.55	6263731.67	6263731.81	0.0134	0.0056
Mercury	12437-08-27 07:40 G	6263819.71	6263819.82	6263819.94	0.0134	0.0073
Mercury	12437-11-23 11:16 G	6263907.87	6263907.97	6263908.08	0.0134	0.0090
Venus	12438-01-06 07:26 G	6263951.60	6263951.81	6263952.03	0.0134	0.0025
Mercury	12438-02-19 14:52 G	6263996.04	6263996.12	6263996.21	0.0134	0.0107
Mercury	12438-05-18 18:14 G	6264084.22	6264084.26	6264084.32	0.0134	0.0124
Venus	12438-08-20 13:26 G	6264177.84	6264178.06	6264178.27	0.0134	0.0016
Venus	12439-04-03 18:57 G	6264404.10	6264404.29	6264404.49	0.0134	0.0057
Venus	12439-11-16 00:28 G	6264630.39	6264630.52	6264630.68	0.0134	0.0099
Mars	12462-03-06 11:02 G	6272776.64	6272776.96	6272777.28	0.0143	0.0020
Mars	12464-02-09 21:36 G	6273482.23	6273482.40	6273482.61	0.0144	0.0116
Moon	12469-08-04 19:40 G	6275485.16	6275485.32	6275485.48	0.0145	0.0108
Earth	12469-08-04 21:21 G	6275485.24	6275485.39	6275485.56	0.0145	0.0111 *
Earth	12470-08-09 20:38 G	6275855.14	6275855.36	6275855.60	0.0145	0.0059
Moon	12470-08-09 23:31 G	6275855.26	6275855.48	6275855.72	0.0145	0.0066 *
Moon	12471-08-14 17:16 G	6276224.98	6276225.22	6276225.47	0.0145	0.0003
Earth	12471-08-14 20:23 G	6276225.10	6276225.35	6276225.60	0.0145	0.0006 *
Earth	12472-08-18 19:40 G	6276595.09	6276595.32	6276595.57	0.0145	0.0047
Moon	12472-08-18 23:02 G	6276595.23	6276595.46	6276595.72	0.0145	0.0042 *
Moon	12473-08-23 15:50 G	6276965.00	6276965.16	6276965.35	0.0145	0.0102
Earth	12473-08-23 19:26 G	6276965.14	6276965.31	6276965.51	0.0145	0.0100 *
Mercury	12476-07-07 16:19 G	6278014.10	6278014.18	6278014.27	0.0145	0.0124
Mercury	12476-10-03 22:48 G	6278102.33	6278102.45	6278102.58	0.0145	0.0098
Mercury	12476-12-31 05:16 G	6278190.58	6278190.72	6278190.87	0.0145	0.0072
Mercury	12477-03-29 11:45 G	6278278.83	6278278.99	6278279.16	0.0145	0.0046

Mercury	12477-06-25 18:28 G	6278367.10	6278367.27	6278367.44	0.0145	0.0019
Venus	12477-09-07 15:50 G	6278441.04	6278441.16	6278441.28	0.0145	0.0120
Mercury	12477-09-22 00:57 G	6278455.37	6278455.54	6278455.72	0.0145	0.0008
Mercury	12477-12-19 07:40 G	6278543.66	6278543.82	6278543.99	0.0145	0.0034
Mercury	12478-03-17 14:23 G	6278631.95	6278632.10	6278632.26	0.0145	0.0061
Venus	12478-04-22 03:36 G	6278667.47	6278667.65	6278667.85	0.0145	0.0069
Mercury	12478-06-13 21:07 G	6278720.25	6278720.38	6278720.52	0.0144	0.0089
Mercury	12478-09-10 04:04 G	6278808.57	6278808.67	6278808.78	0.0144	0.0116
Venus	12478-12-04 15:36 G	6278893.94	6278894.15	6278894.37	0.0144	0.0018
Mercury	12478-12-07 10:48 G	6278896.94	6278896.95	6278896.98	0.0144	0.0144
Venus	12479-07-19 03:36 G	6279120.44	6279120.65	6279120.87	0.0144	0.0034
Venus	12480-03-01 15:07 G	6279346.97	6279347.13	6279347.32	0.0144	0.0085
Venus	12480-10-14 02:38 G	6279573.56	6279573.61	6279573.70	0.0144	0.0136
Mars	12500-10-24 17:02 G	6286888.04	6286888.21	6286888.44	0.0136	0.0101
Mars	12502-09-25 06:14 G	6287588.46	6287588.76	6287589.05	0.0135	0.0002
Mars	12504-08-25 06:57 G	6288288.62	6288288.79	6288289.01	0.0134	0.0099
Moon	12511-02-06 10:04 G	6290644.78	6290644.92	6290645.11	0.0133	0.0106
Earth	12511-02-06 11:31 G	6290644.82	6290644.98	6290645.15	0.0133	0.0100 *
Earth	12512-02-10 20:09 G	6291014.13	6291014.34	6291014.59	0.0133	0.0060
Moon	12512-02-10 20:38 G	6291014.15	6291014.36	6291014.60	0.0133	0.0053 *
Moon	12513-02-14 04:04 G	6291383.42	6291383.67	6291383.94	0.0133	0.0025
Earth	12513-02-14 05:02 G	6291383.46	6291383.71	6291383.97	0.0133	0.0019 *
Earth	12514-02-18 13:26 G	6291752.81	6291753.06	6291753.32	0.0133	0.0023
Moon	12514-02-18 13:26 G	6291752.82	6291753.06	6291753.31	0.0133	0.0027 *
Moon	12515-02-22 21:21 G	6292122.16	6292122.39	6292122.63	0.0133	0.0061
Earth	12515-02-22 21:36 G	6292122.18	6292122.40	6292122.63	0.0133	0.0064 *
Earth	12516-02-27 05:31 G	6292491.59	6292491.73	6292491.91	0.0133	0.0104
Moon	12516-02-27 05:31 G	6292491.60	6292491.73	6292491.90	0.0133	0.0104 *
Mercury	12519-01-21 22:04 G	6293551.36	6293551.42	6293551.50	0.0133	0.0116
Mercury	12519-04-20 01:55 G	6293639.49	6293639.58	6293639.69	0.0133	0.0098

Mercury	12519-07-17 05:45 G	6293727.63	6293727.74	6293727.86	0.0133	0.0080
Mercury	12519-10-13 09:36 G	6293815.78	6293815.90	6293816.03	0.0133	0.0062
Mercury	12520-01-09 13:26 G	6293903.92	6293904.06	6293904.20	0.0134	0.0045
Mercury	12520-04-06 17:02 G	6293992.07	6293992.21	6293992.36	0.0134	0.0027
Venus	12520-06-11 06:14 G	6294057.68	6294057.76	6294057.84	0.0134	0.0123
Mercury	12520-07-03 20:52 G	6294080.22	6294080.37	6294080.51	0.0134	0.0009
Mercury	12520-09-30 00:28 G	6294168.38	6294168.52	6294168.67	0.0134	0.0008
Mercury	12520-12-27 04:04 G	6294256.53	6294256.67	6294256.81	0.0134	0.0026
Venus	12521-01-23 11:45 G	6294283.83	6294283.99	6294284.17	0.0134	0.0083
Mercury	12521-03-25 07:40 G	6294344.69	6294344.82	6294344.96	0.0134	0.0043
Mercury	12521-06-21 11:16 G	6294432.85	6294432.97	6294433.10	0.0134	0.0061
Venus	12521-09-06 17:16 G	6294510.03	6294510.22	6294510.44	0.0134	0.0043
Mercury	12521-09-17 14:52 G	6294521.01	6294521.12	6294521.24	0.0134	0.0078
Mercury	12521-12-14 18:28 G	6294609.18	6294609.27	6294609.37	0.0134	0.0095
Mercury	12522-03-12 22:04 G	6294697.35	6294697.42	6294697.50	0.0134	0.0112
Venus	12522-04-20 23:16 G	6294736.25	6294736.47	6294736.69	0.0134	0.0002
Mercury	12522-06-09 01:26 G	6294785.54	6294785.56	6294785.61	0.0134	0.0129
Venus	12522-12-03 05:02 G	6294962.50	6294962.71	6294962.92	0.0134	0.0039
Venus	12523-07-17 10:33 G	6295188.78	6295188.94	6295189.13	0.0134	0.0080
Venus	12524-02-28 16:19 G	6295415.11	6295415.18	6295415.29	0.0134	0.0122
Mars	12544-11-26 11:31 G	6302991.75	6302991.98	6302992.22	0.0143	0.0096
Mars	12546-11-01 09:50 G	6303696.61	6303696.91	6303697.23	0.0143	0.0036
Moon	12553-08-06 05:31 G	6306166.59	6306166.73	6306166.90	0.0145	0.0111
Earth	12553-08-06 07:40 G	6306166.66	6306166.82	6306167.00	0.0145	0.0107 *
Earth	12554-08-11 06:57 G	6306536.56	6306536.79	6306537.03	0.0145	0.0055
Moon	12554-08-11 08:52 G	6306536.63	6306536.87	6306537.12	0.0145	0.0049 *
Moon	12555-08-16 03:50 G	6306906.42	6306906.66	6306906.91	0.0145	0.0010
Earth	12555-08-16 06:28 G	6306906.52	6306906.77	6306907.02	0.0145	0.0003 *
Earth	12556-08-20 05:45 G	6307276.51	6307276.74	6307276.99	0.0145	0.0051
Moon	12556-08-20 08:52 G	6307276.65	6307276.87	6307277.12	0.0145	0.0058 *

Moon	12557-08-25 02:38 G	6307646.43	6307646.61	6307646.79	0.0145	0.0100
Earth	12557-08-25 05:31 G	6307646.57	6307646.73	6307646.92	0.0145	0.0103 *
Mercury	12560-05-01 17:16 G	6308627.20	6308627.22	6308627.24	0.0145	0.0143
Mercury	12560-07-28 23:16 G	6308715.39	6308715.47	6308715.58	0.0145	0.0118
Mercury	12560-10-25 06:00 G	6308803.62	6308803.75	6308803.88	0.0145	0.0092
Mercury	12561-01-21 12:28 G	6308891.87	6308892.02	6308892.18	0.0145	0.0066
Mercury	12561-04-19 18:57 G	6308980.13	6308980.29	6308980.46	0.0145	0.0040
Venus	12561-05-08 21:36 G	6308999.39	6308999.40	6308999.44	0.0145	0.0144
Mercury	12561-07-17 01:40 G	6309068.40	6309068.57	6309068.74	0.0145	0.0013
Mercury	12561-10-13 08:09 G	6309156.67	6309156.84	6309157.02	0.0145	0.0015
Venus	12561-12-21 09:36 G	6309225.75	6309225.90	6309226.08	0.0145	0.0093
Mercury	12562-01-09 14:52 G	6309244.96	6309245.12	6309245.29	0.0145	0.0041
Mercury	12562-04-07 21:36 G	6309333.25	6309333.40	6309333.56	0.0144	0.0068
Mercury	12562-07-05 04:19 G	6309421.56	6309421.68	6309421.82	0.0144	0.0095
Venus	12562-08-04 22:04 G	6309452.21	6309452.42	6309452.63	0.0144	0.0041
Mercury	12562-10-01 11:16 G	6309509.88	6309509.97	6309510.07	0.0144	0.0123
Venus	12563-03-19 09:50 G	6309678.70	6309678.91	6309679.13	0.0144	0.0011
Venus	12563-10-31 21:36 G	6309905.21	6309905.40	6309905.60	0.0144	0.0062
Venus	12564-06-14 09:21 G	6310131.76	6310131.89	6310132.03	0.0144	0.0112
Mars	12585-06-19 07:26 G	6317806.56	6317806.81	6317807.09	0.0135	0.0058
Mars	12587-05-20 16:19 G	6318506.92	6318507.18	6318507.47	0.0135	0.0043
Moon	12595-02-06 19:40 G	6321326.15	6321326.32	6321326.54	0.0133	0.0093
Earth	12595-02-06 21:21 G	6321326.23	6321326.39	6321326.58	0.0133	0.0098 *
Earth	12596-02-11 06:14 G	6321695.54	6321695.76	6321696.01	0.0133	0.0056
Moon	12596-02-11 07:55 G	6321695.62	6321695.83	6321696.06	0.0133	0.0063 *
Moon	12597-02-14 14:09 G	6322064.83	6322065.09	6322065.36	0.0133	0.0009
Earth	12597-02-14 15:07 G	6322064.88	6322065.13	6322065.39	0.0133	0.0015 *
Earth	12598-02-18 23:16 G	6322434.22	6322434.47	6322434.73	0.0133	0.0026
Moon	12598-02-19 00:28 G	6322434.28	6322434.52	6322434.77	0.0133	0.0021 *
Moon	12599-02-23 06:28 G	6322803.56	6322803.77	6322804.02	0.0133	0.0070

Earth	12599-02-23 07:26 G	6322803.60	6322803.81	6322804.04	0.0133	0.0067 *
Earth	12600-02-27 15:50 G	6323173.02	6323173.16	6323173.32	0.0133	0.0108
Moon	12600-02-27 16:04 G	6323173.05	6323173.17	6323173.34	0.0133	0.0109 *
Mercury	12602-11-16 01:26 G	6324164.54	6324164.56	6324164.60	0.0133	0.0130
Mercury	12603-02-12 05:16 G	6324252.65	6324252.72	6324252.81	0.0133	0.0112
Mercury	12603-05-11 09:07 G	6324340.79	6324340.88	6324340.99	0.0133	0.0094
Mercury	12603-08-07 12:57 G	6324428.93	6324429.04	6324429.17	0.0133	0.0076
Mercury	12603-11-03 16:48 G	6324517.07	6324517.20	6324517.34	0.0133	0.0058
Mercury	12604-01-30 20:38 G	6324605.22	6324605.36	6324605.50	0.0133	0.0040
Mercury	12604-04-28 00:14 G	6324693.37	6324693.51	6324693.66	0.0134	0.0023
Mercury	12604-07-25 04:04 G	6324781.53	6324781.67	6324781.82	0.0134	0.0004
Venus	12604-09-23 21:36 G	6324842.27	6324842.40	6324842.56	0.0134	0.0101
Mercury	12604-10-21 07:40 G	6324869.68	6324869.82	6324869.97	0.0134	0.0014
Mercury	12605-01-17 11:16 G	6324957.84	6324957.97	6324958.12	0.0134	0.0031
Mercury	12605-04-15 15:07 G	6325045.99	6325046.13	6325046.26	0.0134	0.0048
Venus	12605-05-08 03:21 G	6325068.45	6325068.64	6325068.84	0.0134	0.0060
Mercury	12605-07-12 18:28 G	6325134.16	6325134.27	6325134.40	0.0134	0.0066
Mercury	12605-10-08 22:04 G	6325222.32	6325222.42	6325222.54	0.0134	0.0083
Venus	12605-12-20 09:21 G	6325294.67	6325294.89	6325295.10	0.0134	0.0019
Mercury	12606-01-05 01:40 G	6325310.48	6325310.57	6325310.67	0.0134	0.0100
Mercury	12606-04-03 05:16 G	6325398.66	6325398.72	6325398.79	0.0134	0.0117
Mercury	12606-06-30 08:52 G	6325486.87	6325486.87	6325486.88	0.0134	0.0134
Venus	12606-08-03 15:07 G	6325520.91	6325521.13	6325521.34	0.0134	0.0021
Venus	12607-03-17 20:38 G	6325747.17	6325747.36	6325747.56	0.0134	0.0062
Venus	12607-10-30 02:09 G	6325973.47	6325973.59	6325973.74	0.0134	0.0103
Mars	12629-07-24 07:26 G	6333911.52	6333911.81	6333912.13	0.0143	0.0043
Mars	12631-06-29 11:31 G	6334616.75	6334616.98	6334617.25	0.0144	0.0092
Moon	12637-08-07 17:02 G	6336848.05	6336848.21	6336848.39	0.0145	0.0103
Earth	12637-08-07 17:45 G	6336848.08	6336848.24	6336848.43	0.0145	0.0104 *
Earth	12638-08-12 17:16 G	6337217.98	6337218.22	6337218.45	0.0145	0.0051

Moon	12638-08-12 18:57 G	6337218.06	6337218.29	6337218.54	0.0145	0.0057 *
Moon	12639-08-17 14:23 G	6337587.86	6337588.10	6337588.35	0.0145	0.0009
Earth	12639-08-17 16:33 G	6337587.94	6337588.19	6337588.44	0.0145	0.0001 *
Earth	12640-08-21 15:50 G	6337957.94	6337958.16	6337958.40	0.0145	0.0054
Moon	12640-08-21 18:28 G	6337958.04	6337958.27	6337958.53	0.0145	0.0048 *
Moon	12641-08-26 12:28 G	6338327.87	6338328.02	6338328.19	0.0145	0.0111
Earth	12641-08-26 15:50 G	6338327.99	6338328.16	6338328.33	0.0145	0.0106 *
Mercury	12644-05-23 00:28 G	6339328.47	6339328.52	6339328.57	0.0145	0.0137
Mercury	12644-08-19 06:43 G	6339416.68	6339416.78	6339416.89	0.0145	0.0112
Mercury	12644-11-15 13:11 G	6339504.92	6339505.05	6339505.19	0.0145	0.0086
Mercury	12645-02-11 19:40 G	6339593.17	6339593.32	6339593.48	0.0145	0.0059
Mercury	12645-05-11 02:09 G	6339681.43	6339681.59	6339681.76	0.0145	0.0033
Mercury	12645-08-07 08:52 G	6339769.70	6339769.87	6339770.04	0.0145	0.0007
Venus	12645-08-21 15:36 G	6339784.04	6339784.15	6339784.30	0.0145	0.0117
Mercury	12645-11-03 15:21 G	6339857.97	6339858.14	6339858.32	0.0145	0.0021
Mercury	12646-01-30 22:04 G	6339946.26	6339946.42	6339946.59	0.0144	0.0047
Venus	12646-04-05 03:36 G	6340010.47	6340010.65	6340010.86	0.0144	0.0066
Mercury	12646-04-29 04:33 G	6340034.56	6340034.69	6340034.85	0.0144	0.0075
Mercury	12646-07-26 11:31 G	6340122.86	6340122.98	6340123.11	0.0144	0.0101
Mercury	12646-10-22 18:28 G	6340211.20	6340211.27	6340211.35	0.0144	0.0128
Venus	12646-11-17 15:50 G	6340236.94	6340237.16	6340237.38	0.0144	0.0014
Venus	12647-07-02 03:50 G	6340463.45	6340463.66	6340463.87	0.0144	0.0037
Venus	12648-02-13 15:21 G	6340689.97	6340690.14	6340690.32	0.0144	0.0088
Venus	12648-09-27 02:38 G	6340916.57	6340916.61	6340916.68	0.0144	0.0139
Mars	12668-03-14 01:40 G	6348024.43	6348024.57	6348024.72	0.0136	0.0118
Mars	12670-02-12 18:43 G	6348724.98	6348725.28	6348725.57	0.0135	0.0016
Mars	12672-01-13 23:31 G	6349425.27	6349425.48	6349425.73	0.0135	0.0084
Moon	12679-02-08 03:36 G	6352007.49	6352007.65	6352007.85	0.0133	0.0098
Earth	12679-02-08 06:14 G	6352007.59	6352007.76	6352007.95	0.0133	0.0094 *
Earth	12680-02-12 15:07 G	6352376.90	6352377.13	6352377.37	0.0133	0.0053

Moon	12680-02-12 17:02 G	6352376.98	6352377.21	6352377.44	0.0133	0.0047 *
Moon	12681-02-15 21:21 G	6352746.14	6352746.39	6352746.66	0.0133	0.0019
Earth	12681-02-15 23:45 G	6352746.24	6352746.49	6352746.75	0.0133	0.0012 *
Earth	12682-02-20 08:09 G	6353115.59	6353115.84	6353116.09	0.0133	0.0029
Moon	12682-02-20 09:21 G	6353115.66	6353115.89	6353116.14	0.0133	0.0036 *
Moon	12683-02-24 14:52 G	6353484.90	6353485.12	6353485.36	0.0133	0.0066
Earth	12683-02-24 16:33 G	6353484.98	6353485.19	6353485.41	0.0133	0.0071 *
Earth	12684-02-29 00:43 G	6353854.40	6353854.53	6353854.68	0.0133	0.0111
Moon	12684-02-29 02:23 G	6353854.47	6353854.60	6353854.73	0.0133	0.0113 *
Mercury	12686-12-06 08:23 G	6354865.81	6354865.85	6354865.91	0.0133	0.0126
Mercury	12687-03-04 12:14 G	6354953.94	6354954.01	6354954.11	0.0133	0.0108
Mercury	12687-05-31 16:04 G	6355042.07	6355042.17	6355042.29	0.0133	0.0090
Mercury	12687-08-27 19:55 G	6355130.22	6355130.33	6355130.46	0.0133	0.0072
Mercury	12687-11-23 23:45 G	6355218.37	6355218.49	6355218.63	0.0134	0.0054
Mercury	12688-02-20 03:36 G	6355306.52	6355306.65	6355306.79	0.0134	0.0036
Mercury	12688-05-18 07:26 G	6355394.67	6355394.81	6355394.95	0.0134	0.0018
Venus	12688-05-24 06:57 G	6355400.71	6355400.79	6355400.91	0.0134	0.0119
Mercury	12688-08-14 11:02 G	6355482.82	6355482.96	6355483.11	0.0134	0.0005
Mercury	12688-11-10 14:52 G	6355570.98	6355571.12	6355571.26	0.0134	0.0017
Venus	12689-01-05 12:43 G	6355626.87	6355627.03	6355627.22	0.0134	0.0079
Mercury	12689-02-06 18:28 G	6355659.13	6355659.27	6355659.41	0.0134	0.0035
Mercury	12689-05-05 22:04 G	6355747.29	6355747.42	6355747.55	0.0134	0.0052
Mercury	12689-08-02 01:40 G	6355835.45	6355835.57	6355835.70	0.0134	0.0069
Venus	12689-08-19 18:43 G	6355853.07	6355853.28	6355853.49	0.0134	0.0038
Mercury	12689-10-29 05:16 G	6355923.62	6355923.72	6355923.83	0.0134	0.0087
Mercury	12690-01-25 08:38 G	6356011.79	6356011.86	6356011.96	0.0134	0.0104
Venus	12690-04-03 00:28 G	6356079.30	6356079.52	6356079.73	0.0134	0.0003
Mercury	12690-04-23 12:14 G	6356099.96	6356100.01	6356100.08	0.0134	0.0121
Venus	12690-11-15 06:00 G	6356305.55	6356305.75	6356305.96	0.0134	0.0043
Venus	12691-06-29 11:31 G	6356531.82	6356531.98	6356532.16	0.0134	0.0084

Venus	12692-02-10 17:45 G	6356758.16	6356758.24	6356758.32	0.0134	0.0125
Mars	12712-04-15 11:31 G	6364126.83	6364126.98	6364127.19	0.0143	0.0118
Mars	12714-03-21 04:04 G	6364831.36	6364831.67	6364832.00	0.0143	0.0012
Jupiter	12714-11-19 21:50 G	6365075.22	6365075.41	6365075.68	0.0143	0.0129
Moon	12721-08-09 02:52 G	6367529.46	6367529.62	6367529.80	0.0145	0.0102
Earth	12721-08-09 03:21 G	6367529.47	6367529.64	6367529.83	0.0145	0.0101 *
Earth	12722-08-14 02:38 G	6367899.37	6367899.61	6367899.85	0.0145	0.0048
Moon	12722-08-14 03:21 G	6367899.40	6367899.64	6367899.89	0.0145	0.0044 *
Moon	12723-08-19 00:28 G	6368269.27	6368269.52	6368269.76	0.0145	0.0003
Earth	12723-08-19 01:55 G	6368269.33	6368269.58	6368269.84	0.0145	0.0005 *
Earth	12724-08-23 01:26 G	6368639.33	6368639.56	6368639.79	0.0145	0.0058
Moon	12724-08-23 03:21 G	6368639.43	6368639.64	6368639.89	0.0145	0.0065 *
Moon	12725-08-27 22:33 G	6369009.29	6369009.44	6369009.62	0.0145	0.0106
Earth	12725-08-28 00:57 G	6369009.39	6369009.54	6369009.71	0.0145	0.0111 *
Mercury	12728-06-13 07:11 G	6370029.75	6370029.80	6370029.89	0.0145	0.0132
Mercury	12728-09-09 13:55 G	6370117.97	6370118.08	6370118.20	0.0145	0.0106
Mercury	12728-12-06 20:23 G	6370206.21	6370206.35	6370206.49	0.0145	0.0080
Mercury	12729-03-05 02:52 G	6370294.46	6370294.62	6370294.78	0.0145	0.0054
Venus	12729-04-21 21:21 G	6370342.36	6370342.39	6370342.45	0.0145	0.0141
Mercury	12729-06-01 09:21 G	6370382.72	6370382.89	6370383.06	0.0145	0.0027
Mercury	12729-08-28 15:50 G	6370470.99	6370471.16	6370471.34	0.0145	0.0004
Mercury	12729-11-24 22:33 G	6370559.27	6370559.44	6370559.61	0.0145	0.0026
Venus	12729-12-04 09:21 G	6370568.73	6370568.89	6370569.07	0.0145	0.0090
Mercury	12730-02-21 05:16 G	6370647.56	6370647.72	6370647.88	0.0144	0.0053
Mercury	12730-05-20 12:00 G	6370735.85	6370736.00	6370736.14	0.0144	0.0080
Venus	12730-07-18 21:36 G	6370795.20	6370795.40	6370795.62	0.0144	0.0038
Mercury	12730-08-16 18:43 G	6370824.17	6370824.28	6370824.40	0.0144	0.0107
Mercury	12730-11-13 01:11 G	6370912.50	6370912.55	6370912.63	0.0144	0.0135
Venus	12731-03-02 09:36 G	6371021.68	6371021.90	6371022.12	0.0144	0.0013
Venus	12731-10-14 20:52 G	6371248.19	6371248.37	6371248.58	0.0144	0.0065

Venus	12732-05-28 08:52 G	6371474.74	6371474.87	6371475.00	0.0144	0.0114
Mars	12752-11-07 16:19 G	6378942.95	6378943.18	6378943.45	0.0136	0.0075
Mars	12754-10-09 06:00 G	6379643.46	6379643.75	6379644.04	0.0135	0.0027
Mars	12756-09-08 07:55 G	6380343.75	6380343.83	6380343.97	0.0134	0.0125
Earth	12762-02-05 06:28 G	6382319.76	6382319.77	6382319.81	0.0133	0.0133
Moon	12763-02-09 12:43 G	6382688.86	6382689.03	6382689.25	0.0133	0.0088
Earth	12763-02-09 15:36 G	6382688.98	6382689.15	6382689.35	0.0133	0.0092 *
Earth	12764-02-14 00:14 G	6383058.29	6383058.51	6383058.76	0.0133	0.0051
Moon	12764-02-14 03:21 G	6383058.41	6383058.64	6383058.87	0.0133	0.0056 *
Moon	12765-02-17 06:57 G	6383427.53	6383427.79	6383428.06	0.0133	0.0003
Earth	12765-02-17 09:07 G	6383427.63	6383427.88	6383428.14	0.0133	0.0009 *
Earth	12766-02-21 17:31 G	6383796.99	6383797.23	6383797.49	0.0133	0.0033
Moon	12766-02-21 20:09 G	6383797.09	6383797.34	6383797.58	0.0133	0.0026 *
Moon	12767-02-25 23:45 G	6384166.29	6384166.49	6384166.72	0.0133	0.0079
Earth	12767-02-26 01:55 G	6384166.38	6384166.58	6384166.80	0.0133	0.0074 *
Earth	12768-03-01 10:04 G	6384535.81	6384535.92	6384536.07	0.0133	0.0115
Moon	12768-03-01 12:00 G	6384535.89	6384536.00	6384536.14	0.0133	0.0114 *
Mercury	12770-12-27 15:21 G	6385567.10	6385567.14	6385567.22	0.0133	0.0122
Mercury	12771-03-25 19:26 G	6385655.23	6385655.31	6385655.41	0.0133	0.0103
Mercury	12771-06-21 23:16 G	6385743.37	6385743.47	6385743.59	0.0133	0.0085
Mercury	12771-09-18 03:07 G	6385831.51	6385831.63	6385831.76	0.0134	0.0067
Mercury	12771-12-15 06:57 G	6385919.66	6385919.79	6385919.93	0.0134	0.0049
Mercury	12772-03-12 10:48 G	6386007.81	6386007.95	6386008.09	0.0134	0.0031
Mercury	12772-06-08 14:23 G	6386095.96	6386096.10	6386096.25	0.0134	0.0015
Mercury	12772-09-04 18:14 G	6386184.12	6386184.26	6386184.40	0.0134	0.0004
Venus	12772-09-05 22:19 G	6386185.29	6386185.43	6386185.59	0.0134	0.0097
Mercury	12772-12-01 21:50 G	6386272.27	6386272.41	6386272.56	0.0134	0.0022
Mercury	12773-02-28 01:40 G	6386360.43	6386360.57	6386360.70	0.0134	0.0039
Venus	12773-04-20 03:50 G	6386411.48	6386411.66	6386411.87	0.0134	0.0057
Mercury	12773-05-27 05:16 G	6386448.59	6386448.72	6386448.85	0.0134	0.0056

Mercury	12773-08-23 08:38 G	6386536.75	6386536.86	6386536.99	0.0134	0.0074
Mercury	12773-11-19 12:14 G	6386624.92	6386625.01	6386625.12	0.0134	0.0091
Venus	12773-12-02 09:50 G	6386637.69	6386637.91	6386638.13	0.0134	0.0016
Mercury	12774-02-15 15:50 G	6386713.09	6386713.16	6386713.25	0.0134	0.0108
Mercury	12774-05-14 19:26 G	6386801.27	6386801.31	6386801.37	0.0134	0.0125
Venus	12774-07-16 15:21 G	6386863.93	6386864.14	6386864.36	0.0134	0.0025
Venus	12775-02-27 21:07 G	6387090.20	6387090.38	6387090.57	0.0134	0.0065
Venus	12775-10-12 02:38 G	6387316.49	6387316.61	6387316.76	0.0134	0.0106
Mars	12796-12-10 05:02 G	6395046.44	6395046.71	6395047.00	0.0143	0.0064
Mars	12798-11-15 01:55 G	6395751.30	6395751.58	6395751.87	0.0143	0.0068
Earth	12805-08-09 13:26 G	6398210.87	6398211.06	6398211.25	0.0145	0.0097
Moon	12805-08-09 13:55 G	6398210.91	6398211.08	6398211.26	0.0145	0.0098 *
Earth	12806-08-14 12:14 G	6398580.78	6398581.01	6398581.26	0.0145	0.0045
Moon	12806-08-14 12:43 G	6398580.80	6398581.03	6398581.29	0.0145	0.0050 *
Moon	12807-08-19 10:48 G	6398950.71	6398950.95	6398951.20	0.0145	0.0015
Earth	12807-08-19 11:45 G	6398950.73	6398950.99	6398951.24	0.0145	0.0008 *
Earth	12808-08-23 11:02 G	6399320.74	6399320.96	6399321.19	0.0145	0.0061
Moon	12808-08-23 12:43 G	6399320.79	6399321.03	6399321.27	0.0145	0.0055 *
Moon	12809-08-28 08:23 G	6399690.73	6399690.85	6399691.00	0.0145	0.0119
Earth	12809-08-28 10:33 G	6399690.80	6399690.94	6399691.11	0.0145	0.0114 *
Mercury	12812-07-03 14:38 G	6400731.03	6400731.11	6400731.19	0.0145	0.0126
Mercury	12812-09-29 21:07 G	6400819.26	6400819.38	6400819.50	0.0145	0.0100
Mercury	12812-12-27 03:21 G	6400907.50	6400907.64	6400907.79	0.0145	0.0074
Mercury	12813-03-25 09:50 G	6400995.75	6400995.91	6400996.07	0.0145	0.0048
Mercury	12813-06-21 16:19 G	6401084.02	6401084.18	6401084.35	0.0145	0.0022
Venus	12813-08-03 15:21 G	6401127.01	6401127.14	6401127.28	0.0145	0.0114
Mercury	12813-09-17 23:02 G	6401172.29	6401172.46	6401172.63	0.0145	0.0005
Mercury	12813-12-15 05:31 G	6401260.57	6401260.73	6401260.90	0.0144	0.0031
Mercury	12814-03-13 12:00 G	6401348.85	6401349.00	6401349.17	0.0144	0.0059
Venus	12814-03-18 03:21 G	6401353.44	6401353.64	6401353.84	0.0144	0.0063

Mercury	12814-06-09 18:43 G	6401437.15	6401437.28	6401437.43	0.0144	0.0086
Mercury	12814-09-06 01:26 G	6401525.46	6401525.56	6401525.68	0.0144	0.0113
Venus	12814-10-30 15:07 G	6401579.91	6401580.13	6401580.35	0.0144	0.0012
Mercury	12814-12-03 08:23 G	6401613.82	6401613.85	6401613.90	0.0144	0.0140
Venus	12815-06-14 02:52 G	6401806.41	6401806.62	6401806.83	0.0144	0.0039
Venus	12816-01-26 14:23 G	6402032.94	6402033.10	6402033.28	0.0144	0.0090
Venus	12816-09-09 01:55 G	6402259.54	6402259.58	6402259.64	0.0144	0.0140
Mars	12835-08-02 05:31 G	6409160.73	6409160.73	6409160.76	0.0136	0.0136
Mars	12837-07-03 03:07 G	6409861.35	6409861.63	6409861.93	0.0135	0.0032
Mars	12839-06-03 13:11 G	6410561.81	6410562.05	6410562.32	0.0135	0.0069
Earth	12846-02-05 14:38 G	6413001.07	6413001.11	6413001.17	0.0133	0.0131
Moon	12846-02-05 18:14 G	6413001.21	6413001.26	6413001.32	0.0133	0.0130
Moon	12847-02-09 20:38 G	6413370.18	6413370.36	6413370.56	0.0133	0.0091
Earth	12847-02-09 23:45 G	6413370.32	6413370.49	6413370.70	0.0133	0.0089 *
Earth	12848-02-14 08:52 G	6413739.63	6413739.87	6413740.11	0.0133	0.0048
Moon	12848-02-14 11:31 G	6413739.75	6413739.98	6413740.23	0.0133	0.0042 *
Moon	12849-02-17 14:09 G	6414108.83	6414109.09	6414109.36	0.0133	0.0013
Earth	12849-02-17 17:31 G	6414108.97	6414109.23	6414109.49	0.0133	0.0006 *
Earth	12850-02-22 01:55 G	6414478.34	6414478.58	6414478.83	0.0133	0.0036
Moon	12850-02-22 04:19 G	6414478.46	6414478.68	6414478.93	0.0133	0.0043 *
Moon	12851-02-26 07:26 G	6414847.61	6414847.81	6414848.05	0.0133	0.0072
Earth	12851-02-26 10:33 G	6414847.74	6414847.94	6414848.16	0.0133	0.0077 *
Earth	12852-03-01 18:43 G	6415217.18	6415217.28	6415217.41	0.0133	0.0118
Moon	12852-03-01 21:21 G	6415217.31	6415217.39	6415217.51	0.0133	0.0121 *
Mercury	12855-01-16 22:33 G	6416268.38	6416268.44	6416268.51	0.0133	0.0118
Mercury	12855-04-15 02:23 G	6416356.51	6416356.60	6416356.70	0.0133	0.0100
Mercury	12855-07-12 06:14 G	6416444.65	6416444.76	6416444.88	0.0134	0.0082
Mercury	12855-10-08 10:04 G	6416532.80	6416532.92	6416533.05	0.0134	0.0064
Mercury	12856-01-04 13:55 G	6416620.94	6416621.08	6416621.22	0.0134	0.0046
Mercury	12856-04-01 17:45 G	6416709.10	6416709.24	6416709.38	0.0134	0.0028

Venus	12856-05-06 07:11 G	6416743.71	6416743.80	6416743.92	0.0134	0.0116
Mercury	12856-06-28 21:21 G	6416797.25	6416797.39	6416797.54	0.0134	0.0011
Mercury	12856-09-25 01:11 G	6416885.40	6416885.55	6416885.69	0.0134	0.0007
Venus	12856-12-18 12:57 G	6416969.87	6416970.04	6416970.23	0.0134	0.0076
Mercury	12856-12-22 04:48 G	6416973.56	6416973.70	6416973.84	0.0134	0.0025
Mercury	12857-03-20 08:23 G	6417061.72	6417061.85	6417061.99	0.0134	0.0043
Mercury	12857-06-16 12:00 G	6417149.88	6417150.00	6417150.13	0.0134	0.0060
Venus	12857-08-01 18:43 G	6417196.08	6417196.28	6417196.50	0.0134	0.0035
Mercury	12857-09-12 15:36 G	6417238.04	6417238.15	6417238.27	0.0134	0.0077
Mercury	12857-12-09 19:11 G	6417326.21	6417326.30	6417326.41	0.0134	0.0094
Mercury	12858-03-07 22:48 G	6417414.38	6417414.45	6417414.53	0.0134	0.0111
Venus	12858-03-16 00:28 G	6417422.30	6417422.52	6417422.74	0.0134	0.0005
Mercury	12858-06-04 02:23 G	6417502.57	6417502.60	6417502.64	0.0134	0.0128
Venus	12858-10-28 05:45 G	6417648.55	6417648.74	6417648.96	0.0134	0.0046
Venus	12859-06-11 11:31 G	6417874.82	6417874.98	6417875.16	0.0134	0.0087
Venus	12860-01-23 17:16 G	6418101.17	6418101.22	6418101.31	0.0134	0.0128
Mars	12879-09-01 13:11 G	6425261.97	6425262.05	6425262.14	0.0142	0.0137
Mars	12881-08-05 22:04 G	6425966.11	6425966.42	6425966.74	0.0143	0.0010
Mars	12883-07-11 22:48 G	6426671.32	6426671.45	6426671.64	0.0144	0.0125
Earth	12889-08-09 22:33 G	6428892.26	6428892.44	6428892.63	0.0145	0.0095
Moon	12889-08-09 23:16 G	6428892.29	6428892.47	6428892.66	0.0145	0.0095 *
Moon	12890-08-14 20:52 G	6429262.12	6429262.37	6429262.62	0.0145	0.0039
Earth	12890-08-14 21:36 G	6429262.16	6429262.40	6429262.64	0.0145	0.0042 *
Moon	12891-08-19 20:38 G	6429632.12	6429632.36	6429632.60	0.0145	0.0005
Earth	12891-08-19 20:52 G	6429632.12	6429632.37	6429632.62	0.0145	0.0011 *
Earth	12892-08-23 20:23 G	6430002.13	6430002.35	6430002.58	0.0145	0.0064
Moon	12892-08-23 21:07 G	6430002.17	6430002.38	6430002.62	0.0145	0.0072 *
Moon	12893-08-28 18:43 G	6430372.14	6430372.28	6430372.44	0.0145	0.0112
Earth	12893-08-28 19:55 G	6430372.19	6430372.33	6430372.49	0.0145	0.0117 *
Mercury	12896-07-23 21:21 G	6431432.31	6431432.39	6431432.50	0.0145	0.0121

Mercury	12896-10-20 03:50 G	6431520.54	6431520.66	6431520.80	0.0145	0.0095
Mercury	12897-01-16 10:19 G	6431608.79	6431608.93	6431609.09	0.0145	0.0069
Venus	12897-04-02 20:23 G	6431685.31	6431685.35	6431685.43	0.0145	0.0139
Mercury	12897-04-14 16:48 G	6431697.04	6431697.20	6431697.37	0.0145	0.0043
Mercury	12897-07-11 23:31 G	6431785.31	6431785.48	6431785.65	0.0145	0.0017
Mercury	12897-10-08 06:00 G	6431873.58	6431873.75	6431873.92	0.0145	0.0010
Venus	12897-11-15 08:38 G	6431911.69	6431911.86	6431912.04	0.0145	0.0088
Mercury	12898-01-04 12:28 G	6431961.86	6431962.02	6431962.19	0.0144	0.0037
Mercury	12898-04-02 19:11 G	6432050.15	6432050.30	6432050.46	0.0144	0.0063
Venus	12898-06-29 20:38 G	6432138.15	6432138.36	6432138.58	0.0144	0.0037
Mercury	12898-06-30 01:40 G	6432138.45	6432138.57	6432138.72	0.0144	0.0091 *
Mercury	12898-09-26 08:38 G	6432226.76	6432226.86	6432226.96	0.0144	0.0117
Venus	12899-02-11 08:23 G	6432364.64	6432364.85	6432365.07	0.0144	0.0015
Venus	12899-09-25 19:55 G	6432591.14	6432591.33	6432591.53	0.0144	0.0065
Venus	12900-05-10 07:40 G	6432817.69	6432817.82	6432817.95	0.0144	0.0115
Mars	12920-03-27 19:55 G	6440079.11	6440079.33	6440079.56	0.0136	0.0091
Mars	12922-02-26 14:09 G	6440779.80	6440780.09	6440780.39	0.0135	0.0012
Jupiter	12922-11-02 06:28 G	6441028.27	6441028.77	6441029.30	0.0135	0.0013
Mars	12924-01-27 21:50 G	6441480.27	6441480.41	6441480.60	0.0135	0.0111
Earth	12930-02-06 23:16 G	6443682.42	6443682.47	6443682.55	0.0133	0.0129
Moon	12930-02-07 03:07 G	6443682.56	6443682.63	6443682.70	0.0133	0.0128
Moon	12931-02-11 05:16 G	6444051.53	6444051.72	6444051.93	0.0133	0.0084
Earth	12931-02-11 08:38 G	6444051.68	6444051.86	6444052.07	0.0133	0.0087 *
Earth	12932-02-15 17:31 G	6444421.00	6444421.23	6444421.48	0.0133	0.0045
Moon	12932-02-15 20:52 G	6444421.15	6444421.37	6444421.62	0.0133	0.0051 *
Moon	12933-02-18 23:31 G	6444790.22	6444790.48	6444790.74	0.0133	0.0004
Earth	12933-02-19 02:38 G	6444790.35	6444790.61	6444790.86	0.0133	0.0004 *
Earth	12934-02-23 11:16 G	6445159.72	6445159.97	6445160.21	0.0133	0.0039
Moon	12934-02-23 14:38 G	6445159.86	6445160.11	6445160.35	0.0133	0.0031 *
Moon	12935-02-27 16:48 G	6445529.00	6445529.20	6445529.40	0.0133	0.0086

Earth	12935-02-27 19:40 G	6445529.13	6445529.32	6445529.54	0.0133	0.0080 *
Earth	12936-03-03 04:04 G	6445898.59	6445898.67	6445898.79	0.0133	0.0122
Moon	12936-03-03 06:57 G	6445898.70	6445898.79	6445898.92	0.0133	0.0119 *
Mercury	12938-11-11 01:40 G	6446881.55	6446881.57	6446881.60	0.0133	0.0132
Mercury	12939-02-07 05:31 G	6446969.66	6446969.73	6446969.81	0.0133	0.0114
Mercury	12939-05-06 09:21 G	6447057.80	6447057.89	6447058.00	0.0134	0.0096
Mercury	12939-08-02 13:11 G	6447145.94	6447146.05	6447146.18	0.0134	0.0078
Mercury	12939-10-29 17:02 G	6447234.09	6447234.21	6447234.35	0.0134	0.0060
Mercury	12940-01-25 20:52 G	6447322.24	6447322.37	6447322.51	0.0134	0.0042
Mercury	12940-04-23 00:43 G	6447410.39	6447410.53	6447410.67	0.0134	0.0024
Mercury	12940-07-20 04:19 G	6447498.54	6447498.68	6447498.83	0.0134	0.0008
Venus	12940-08-18 22:19 G	6447528.29	6447528.43	6447528.59	0.0134	0.0094
Mercury	12940-10-16 08:09 G	6447586.70	6447586.84	6447586.98	0.0134	0.0011
Mercury	12941-01-12 11:45 G	6447674.85	6447674.99	6447675.13	0.0134	0.0029
Venus	12941-04-02 03:50 G	6447754.47	6447754.66	6447754.87	0.0134	0.0054
Mercury	12941-04-10 15:36 G	6447763.01	6447763.15	6447763.28	0.0134	0.0046
Mercury	12941-07-07 18:57 G	6447851.17	6447851.29	6447851.42	0.0134	0.0064
Mercury	12941-10-03 22:33 G	6447939.34	6447939.44	6447939.56	0.0134	0.0081
Venus	12941-11-14 09:36 G	6447980.68	6447980.90	6447981.12	0.0134	0.0013
Mercury	12941-12-31 02:09 G	6448027.50	6448027.59	6448027.69	0.0134	0.0098
Mercury	12942-03-29 05:45 G	6448115.68	6448115.74	6448115.82	0.0134	0.0115
Mercury	12942-06-25 09:07 G	6448203.87	6448203.88	6448203.92	0.0134	0.0133
Venus	12942-06-28 15:07 G	6448206.92	6448207.13	6448207.35	0.0134	0.0027
Venus	12943-02-09 20:52 G	6448433.19	6448433.37	6448433.56	0.0134	0.0068
Venus	12943-09-24 02:23 G	6448659.49	6448659.60	6448659.74	0.0134	0.0109
Mars	12964-04-28 02:52 G	6456181.38	6456181.62	6456181.88	0.0142	0.0085
Mars	12966-04-02 15:50 G	6456885.86	6456886.16	6456886.47	0.0143	0.0045
Moon	12972-08-06 06:57 G	6459203.74	6459203.79	6459203.87	0.0145	0.0140
Earth	12973-08-11 07:40 G	6459573.64	6459573.82	6459574.02	0.0145	0.0093
Moon	12973-08-11 09:50 G	6459573.73	6459573.91	6459574.09	0.0145	0.0095 *

Moon	12974-08-16 05:45 G	6459943.50	6459943.74	6459944.00	0.0145	0.0043
Earth	12974-08-16 06:57 G	6459943.55	6459943.79	6459944.03	0.0145	0.0040 *
Earth	12975-08-21 06:14 G	6460313.51	6460313.76	6460314.02	0.0145	0.0014
Moon	12975-08-21 06:43 G	6460313.55	6460313.78	6460314.03	0.0145	0.0020 *
Moon	12976-08-25 05:45 G	6460683.52	6460683.74	6460683.99	0.0145	0.0060
Earth	12976-08-25 05:45 G	6460683.53	6460683.74	6460683.97	0.0145	0.0067 *
Moon	12977-08-30 04:33 G	6461053.58	6461053.69	6461053.82	0.0145	0.0126
Earth	12977-08-30 05:31 G	6461053.60	6461053.73	6461053.88	0.0145	0.0120 *
Mercury	12980-05-17 22:19 G	6462045.40	6462045.43	6462045.48	0.0145	0.0140
Mercury	12980-08-14 04:33 G	6462133.60	6462133.69	6462133.80	0.0145	0.0115
Mercury	12980-11-10 11:02 G	6462221.83	6462221.96	6462222.10	0.0145	0.0089
Mercury	12981-02-06 17:31 G	6462310.08	6462310.23	6462310.38	0.0145	0.0063
Mercury	12981-05-05 23:45 G	6462398.33	6462398.49	6462398.66	0.0145	0.0038
Venus	12981-07-16 14:23 G	6462469.97	6462470.10	6462470.24	0.0145	0.0112
Mercury	12981-08-02 06:28 G	6462486.60	6462486.77	6462486.94	0.0145	0.0011
Mercury	12981-10-29 12:57 G	6462574.87	6462575.04	6462575.21	0.0145	0.0016
Mercury	12982-01-25 19:26 G	6462663.15	6462663.31	6462663.48	0.0144	0.0043
Venus	12982-02-28 02:23 G	6462696.40	6462696.60	6462696.80	0.0144	0.0061
Mercury	12982-04-24 01:55 G	6462751.44	6462751.58	6462751.74	0.0144	0.0070
Mercury	12982-07-21 08:38 G	6462839.74	6462839.86	6462840.00	0.0144	0.0096
Venus	12982-10-12 14:09 G	6462922.87	6462923.09	6462923.31	0.0144	0.0010
Mercury	12982-10-17 15:21 G	6462928.06	6462928.14	6462928.24	0.0144	0.0123
Venus	12983-05-27 01:40 G	6463149.36	6463149.57	6463149.78	0.0144	0.0041
Venus	12984-01-08 13:11 G	6463375.89	6463376.05	6463376.22	0.0144	0.0091
Venus	12984-08-22 00:57 G	6463602.50	6463602.54	6463602.58	0.0144	0.0141

14TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 14th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	13004-11-21 08:23	G	6470997.57	6470997.85	6470998.13	0.0136	0.0048	
Mars	13006-10-23 00:14	G	6471698.25	6471698.51	6471698.79	0.0135	0.0054	
Earth	13014-02-08 07:26	G	6474363.74	6474363.81	6474363.89	0.0133	0.0127	
Moon	13014-02-08 11:02	G	6474363.90	6474363.96	6474364.04	0.0133	0.0128	
Moon	13015-02-12 12:43	G	6474732.85	6474733.03	6474733.24	0.0133	0.0087	
Earth	13015-02-12 16:19	G	6474733.00	6474733.18	6474733.39	0.0133	0.0086	*
Earth	13016-02-17 01:26	G	6475102.33	6475102.56	6475102.81	0.0133	0.0044	
Moon	13016-02-17 04:48	G	6475102.47	6475102.70	6475102.96	0.0133	0.0038	*
Moon	13017-02-20 06:43	G	6475471.53	6475471.78	6475472.04	0.0133	0.0008	
Earth	13017-02-20 10:33	G	6475471.68	6475471.94	6475472.20	0.0133	0.0001	*
Earth	13018-02-24 19:26	G	6475841.06	6475841.31	6475841.55	0.0133	0.0041	
Moon	13018-02-24 22:33	G	6475841.21	6475841.44	6475841.68	0.0133	0.0048	*
Moon	13019-03-01 00:14	G	6476210.32	6476210.51	6476210.74	0.0133	0.0077	
Earth	13019-03-01 04:04	G	6476210.48	6476210.67	6476210.88	0.0133	0.0083	*
Earth	13020-03-04 12:43	G	6476579.94	6476580.03	6476580.12	0.0133	0.0124	
Moon	13020-03-04 15:36	G	6476580.10	6476580.15	6476580.24	0.0133	0.0128	*
Mercury	13022-12-02 08:23	G	6477582.82	6477582.85	6477582.90	0.0133	0.0128	
Mercury	13023-02-28 12:28	G	6477670.94	6477671.02	6477671.10	0.0134	0.0110	
Mercury	13023-05-27 16:19	G	6477759.08	6477759.18	6477759.29	0.0134	0.0092	
Mercury	13023-08-23 20:09	G	6477847.22	6477847.34	6477847.46	0.0134	0.0074	
Mercury	13023-11-20 00:00	G	6477935.37	6477935.50	6477935.63	0.0134	0.0056	
Mercury	13024-02-16 03:36	G	6478023.52	6478023.65	6478023.80	0.0134	0.0039	

Venus	13024-04-19 06:57 G	6478086.69	6478086.79	6478086.92	0.0134	0.0113
Mercury	13024-05-14 07:26 G	6478111.67	6478111.81	6478111.96	0.0134	0.0021
Mercury	13024-08-10 11:16 G	6478199.82	6478199.97	6478200.11	0.0134	0.0003
Mercury	13024-11-06 14:52 G	6478287.98	6478288.12	6478288.27	0.0134	0.0015
Venus	13024-12-01 12:28 G	6478312.85	6478313.02	6478313.22	0.0134	0.0073
Mercury	13025-02-02 18:43 G	6478376.14	6478376.28	6478376.42	0.0134	0.0032
Mercury	13025-05-01 22:19 G	6478464.30	6478464.43	6478464.56	0.0134	0.0050
Venus	13025-07-15 18:28 G	6478539.06	6478539.27	6478539.48	0.0134	0.0032
Mercury	13025-07-29 01:55 G	6478552.46	6478552.58	6478552.71	0.0134	0.0067
Mercury	13025-10-25 05:31 G	6478640.62	6478640.73	6478640.84	0.0134	0.0084
Mercury	13026-01-21 09:07 G	6478728.79	6478728.88	6478728.98	0.0134	0.0101
Venus	13026-02-27 00:00 G	6478765.28	6478765.50	6478765.72	0.0134	0.0008
Mercury	13026-04-19 12:43 G	6478816.97	6478817.03	6478817.10	0.0134	0.0118
Venus	13026-10-11 05:31 G	6478991.53	6478991.73	6478991.94	0.0134	0.0049
Venus	13027-05-25 11:02 G	6479217.81	6479217.96	6479218.14	0.0134	0.0090
Venus	13028-01-06 17:16 G	6479444.17	6479444.22	6479444.28	0.0135	0.0130
Mars	13048-12-23 16:48 G	6487100.89	6487101.20	6487101.51	0.0143	0.0032
Mars	13050-11-28 10:33 G	6487805.73	6487805.94	6487806.19	0.0143	0.0101
Earth	13056-08-07 17:45 G	6489885.22	6489885.24	6489885.29	0.0145	0.0143
Earth	13057-08-12 16:33 G	6490255.01	6490255.19	6490255.40	0.0145	0.0091
Moon	13057-08-12 18:43 G	6490255.09	6490255.28	6490255.48	0.0145	0.0089 *
Moon	13058-08-17 13:55 G	6490624.83	6490625.08	6490625.33	0.0145	0.0036
Earth	13058-08-17 15:50 G	6490624.92	6490625.16	6490625.41	0.0145	0.0038 *
Earth	13059-08-22 15:21 G	6490994.89	6490995.14	6490995.39	0.0145	0.0016
Moon	13059-08-22 16:33 G	6490994.95	6490995.19	6490995.43	0.0145	0.0011 *
Moon	13060-08-26 14:23 G	6491364.89	6491365.10	6491365.33	0.0145	0.0077
Earth	13060-08-26 15:07 G	6491364.91	6491365.13	6491365.35	0.0145	0.0069 *
Moon	13061-08-31 14:23 G	6491734.97	6491735.10	6491735.26	0.0145	0.0117
Earth	13061-08-31 14:09 G	6491734.98	6491735.09	6491735.24	0.0145	0.0123 *
Mercury	13064-06-08 05:16 G	6492746.67	6492746.72	6492746.78	0.0145	0.0135

Mercury	13064-09-04 11:31 G	6492834.88	6492834.98	6492835.10	0.0145	0.0110
Mercury	13064-12-01 18:00 G	6492923.11	6492923.25	6492923.39	0.0145	0.0084
Mercury	13065-02-28 00:28 G	6493011.36	6493011.52	6493011.67	0.0145	0.0058
Venus	13065-03-16 19:40 G	6493028.25	6493028.32	6493028.40	0.0145	0.0136
Mercury	13065-05-27 06:43 G	6493099.62	6493099.78	6493099.95	0.0145	0.0032
Mercury	13065-08-23 13:11 G	6493187.88	6493188.05	6493188.23	0.0145	0.0007
Venus	13065-10-29 07:11 G	6493254.64	6493254.80	6493254.99	0.0145	0.0086
Mercury	13065-11-19 19:55 G	6493276.16	6493276.33	6493276.50	0.0144	0.0021
Mercury	13066-02-16 02:23 G	6493364.44	6493364.60	6493364.76	0.0144	0.0047
Mercury	13066-05-15 08:52 G	6493452.73	6493452.87	6493453.03	0.0144	0.0074
Venus	13066-06-12 19:26 G	6493481.10	6493481.31	6493481.52	0.0144	0.0034
Mercury	13066-08-11 15:21 G	6493541.03	6493541.14	6493541.28	0.0144	0.0102
Mercury	13066-11-07 22:04 G	6493629.36	6493629.42	6493629.52	0.0144	0.0129
Venus	13067-01-25 07:11 G	6493707.58	6493707.80	6493708.02	0.0144	0.0017
Venus	13067-09-08 18:43 G	6493934.09	6493934.28	6493934.48	0.0144	0.0067
Venus	13068-04-22 06:14 G	6494160.64	6494160.76	6494160.89	0.0144	0.0117
Mars	13087-08-15 20:52 G	6501215.22	6501215.37	6501215.57	0.0136	0.0110
Mars	13089-07-16 21:36 G	6501916.10	6501916.40	6501916.70	0.0135	0.0005
Mars	13091-06-17 09:36 G	6502616.72	6502616.90	6502617.13	0.0135	0.0096
Earth	13098-02-08 15:50 G	6505045.08	6505045.16	6505045.25	0.0133	0.0125
Moon	13098-02-08 19:11 G	6505045.21	6505045.30	6505045.41	0.0133	0.0123 *
Moon	13099-02-12 21:07 G	6505414.20	6505414.38	6505414.60	0.0133	0.0082
Earth	13099-02-13 00:57 G	6505414.36	6505414.54	6505414.76	0.0133	0.0083 *
Earth	13100-02-17 09:50 G	6505783.68	6505783.91	6505784.17	0.0133	0.0042
Moon	13100-02-17 13:55 G	6505783.84	6505784.08	6505784.32	0.0133	0.0045 *
Moon	13101-02-21 15:36 G	6506152.90	6506153.15	6506153.41	0.0133	0.0008
Earth	13101-02-21 19:11 G	6506153.05	6506153.30	6506153.56	0.0133	0.0003 *
Earth	13102-02-26 04:04 G	6506522.43	6506522.67	6506522.92	0.0133	0.0043
Moon	13102-02-26 07:40 G	6506522.59	6506522.82	6506523.08	0.0133	0.0037 *
Moon	13103-03-02 09:21 G	6506891.71	6506891.89	6506892.08	0.0133	0.0092

Earth	13103-03-02 12:43 G	6506891.84	6506892.03	6506892.24	0.0133	0.0085 *
Earth	13104-03-05 21:36 G	6507261.32	6507261.40	6507261.47	0.0133	0.0127
Moon	13104-03-06 00:43 G	6507261.45	6507261.53	6507261.64	0.0133	0.0123 *
Mercury	13106-12-23 15:21 G	6508284.10	6508284.14	6508284.20	0.0134	0.0125
Mercury	13107-03-21 19:11 G	6508372.22	6508372.30	6508372.40	0.0134	0.0107
Mercury	13107-06-17 23:02 G	6508460.36	6508460.46	6508460.58	0.0134	0.0089
Mercury	13107-09-14 02:52 G	6508548.51	6508548.62	6508548.75	0.0134	0.0071
Mercury	13107-12-11 06:43 G	6508636.65	6508636.78	6508636.92	0.0134	0.0053
Venus	13107-12-19 16:04 G	6508645.14	6508645.17	6508645.23	0.0134	0.0131
Mercury	13108-03-08 10:33 G	6508724.80	6508724.94	6508725.09	0.0134	0.0035
Mercury	13108-06-04 14:23 G	6508812.96	6508813.10	6508813.25	0.0134	0.0017
Venus	13108-08-01 21:50 G	6508871.25	6508871.41	6508871.57	0.0134	0.0091
Mercury	13108-08-31 18:14 G	6508901.11	6508901.26	6508901.40	0.0134	0.0002
Mercury	13108-11-27 21:50 G	6508989.27	6508989.41	6508989.56	0.0134	0.0018
Mercury	13109-02-24 01:26 G	6509077.43	6509077.56	6509077.70	0.0134	0.0036
Venus	13109-03-16 03:21 G	6509097.44	6509097.64	6509097.84	0.0134	0.0051
Mercury	13109-05-23 05:16 G	6509165.59	6509165.72	6509165.85	0.0134	0.0053
Mercury	13109-08-19 08:38 G	6509253.75	6509253.86	6509253.99	0.0134	0.0071
Venus	13109-10-28 08:52 G	6509323.65	6509323.87	6509324.09	0.0134	0.0011
Mercury	13109-11-15 12:14 G	6509341.92	6509342.01	6509342.13	0.0134	0.0088
Mercury	13110-02-11 15:50 G	6509430.08	6509430.16	6509430.26	0.0134	0.0105
Mercury	13110-05-10 19:26 G	6509518.27	6509518.31	6509518.38	0.0134	0.0122
Venus	13110-06-11 14:23 G	6509549.89	6509550.10	6509550.32	0.0134	0.0030
Venus	13111-01-23 20:09 G	6509776.17	6509776.34	6509776.54	0.0134	0.0071
Venus	13111-09-07 01:40 G	6510002.47	6510002.57	6510002.71	0.0134	0.0112
Mars	13131-09-16 02:23 G	6517316.40	6517316.60	6517316.81	0.0142	0.0107
Mars	13133-08-20 08:38 G	6518020.55	6518020.86	6518021.18	0.0143	0.0022
Moon	13140-08-09 00:00 G	6520566.43	6520566.50	6520566.61	0.0145	0.0135
Earth	13140-08-09 03:07 G	6520566.59	6520566.63	6520566.70	0.0145	0.0141 *
Earth	13141-08-14 01:55 G	6520936.39	6520936.58	6520936.79	0.0145	0.0088

Moon	13141-08-14 04:48 G	6520936.52	6520936.70	6520936.90	0.0145	0.0092 *
Moon	13142-08-18 23:02 G	6521306.22	6521306.46	6521306.72	0.0145	0.0036
Earth	13142-08-19 01:11 G	6521306.32	6521306.55	6521306.81	0.0145	0.0035 *
Earth	13143-08-24 00:43 G	6521676.29	6521676.53	6521676.79	0.0145	0.0019
Moon	13143-08-24 02:38 G	6521676.37	6521676.61	6521676.85	0.0145	0.0025 *
Moon	13144-08-27 22:48 G	6522046.23	6522046.45	6522046.69	0.0145	0.0066
Earth	13144-08-28 00:00 G	6522046.30	6522046.50	6522046.73	0.0145	0.0073 *
Earth	13145-09-01 23:31 G	6522416.38	6522416.48	6522416.62	0.0145	0.0126
Moon	13145-09-02 00:00 G	6522416.42	6522416.50	6522416.61	0.0145	0.0133 *
Mercury	13148-06-29 12:14 G	6523447.94	6523448.01	6523448.09	0.0145	0.0130
Mercury	13148-09-25 18:43 G	6523536.16	6523536.28	6523536.39	0.0145	0.0104
Mercury	13148-12-23 00:43 G	6523624.40	6523624.53	6523624.68	0.0145	0.0079
Mercury	13149-03-21 07:11 G	6523712.65	6523712.80	6523712.96	0.0145	0.0053
Mercury	13149-06-17 13:40 G	6523800.91	6523801.07	6523801.24	0.0145	0.0027
Venus	13149-06-29 12:43 G	6523812.91	6523813.03	6523813.19	0.0145	0.0110
Mercury	13149-09-13 20:09 G	6523889.17	6523889.34	6523889.51	0.0144	0.0002
Mercury	13149-12-11 02:38 G	6523977.45	6523977.61	6523977.78	0.0144	0.0026
Venus	13150-02-11 00:57 G	6524039.34	6524039.54	6524039.74	0.0144	0.0059
Mercury	13150-03-09 09:07 G	6524065.73	6524065.88	6524066.05	0.0144	0.0053
Mercury	13150-06-05 15:50 G	6524154.02	6524154.16	6524154.31	0.0144	0.0079
Mercury	13150-09-01 22:19 G	6524242.33	6524242.43	6524242.56	0.0144	0.0107
Venus	13150-09-25 12:43 G	6524265.81	6524266.03	6524266.24	0.0144	0.0008
Mercury	13150-11-29 05:02 G	6524330.66	6524330.71	6524330.79	0.0144	0.0133
Venus	13151-05-10 00:00 G	6524492.30	6524492.50	6524492.72	0.0144	0.0043
Venus	13151-12-22 11:31 G	6524718.83	6524718.98	6524719.16	0.0144	0.0093
Venus	13152-08-04 23:16 G	6524945.46	6524945.47	6524945.50	0.0144	0.0143
Mars	13172-04-10 12:00 G	6532133.74	6532134.00	6532134.27	0.0136	0.0066
Mars	13174-03-12 08:38 G	6532834.58	6532834.86	6532835.15	0.0135	0.0037
Earth	13182-02-09 23:31 G	6535726.39	6535726.48	6535726.59	0.0133	0.0123
Moon	13182-02-10 03:07 G	6535726.55	6535726.63	6535726.73	0.0133	0.0125 *

Moon	13183-02-14 05:31 G	6536095.53	6536095.73	6536095.94	0.0133	0.0081
Earth	13183-02-14 08:52 G	6536095.67	6536095.87	6536096.08	0.0133	0.0081 *
Earth	13184-02-18 18:00 G	6536465.01	6536465.25	6536465.50	0.0133	0.0039
Moon	13184-02-18 21:36 G	6536465.16	6536465.40	6536465.66	0.0133	0.0034 *
Moon	13185-02-21 23:45 G	6536834.23	6536834.49	6536834.74	0.0133	0.0003
Earth	13185-02-22 03:21 G	6536834.38	6536834.64	6536834.90	0.0133	0.0004 *
Earth	13186-02-26 12:00 G	6537203.77	6537204.00	6537204.25	0.0133	0.0046
Moon	13186-02-26 15:21 G	6537203.92	6537204.14	6537204.39	0.0133	0.0053 *
Moon	13187-03-02 16:48 G	6537573.02	6537573.20	6537573.42	0.0133	0.0082
Earth	13187-03-02 20:38 G	6537573.19	6537573.36	6537573.57	0.0133	0.0088 *
Earth	13188-03-06 05:16 G	6537942.67	6537942.72	6537942.79	0.0133	0.0130
Mercury	13191-01-12 22:04 G	6538985.37	6538985.42	6538985.48	0.0134	0.0122
Mercury	13191-04-11 01:55 G	6539073.50	6539073.58	6539073.68	0.0134	0.0104
Mercury	13191-07-08 05:45 G	6539161.64	6539161.74	6539161.86	0.0134	0.0086
Mercury	13191-10-04 09:36 G	6539249.78	6539249.90	6539250.04	0.0134	0.0068
Mercury	13191-12-31 13:26 G	6539337.93	6539338.06	6539338.20	0.0134	0.0050
Mercury	13192-03-28 17:16 G	6539426.08	6539426.22	6539426.37	0.0134	0.0032
Venus	13192-04-01 06:14 G	6539429.64	6539429.76	6539429.89	0.0134	0.0110
Mercury	13192-06-24 21:07 G	6539514.24	6539514.38	6539514.53	0.0134	0.0014
Mercury	13192-09-21 00:57 G	6539602.39	6539602.54	6539602.68	0.0134	0.0004
Venus	13192-11-13 11:45 G	6539655.81	6539655.99	6539656.18	0.0134	0.0070
Mercury	13192-12-18 04:33 G	6539690.55	6539690.69	6539690.84	0.0134	0.0022
Mercury	13193-03-16 08:23 G	6539778.71	6539778.85	6539778.99	0.0134	0.0039
Mercury	13193-06-12 12:00 G	6539866.87	6539867.00	6539867.13	0.0134	0.0056
Venus	13193-06-27 17:16 G	6539882.01	6539882.22	6539882.44	0.0134	0.0030
Mercury	13193-09-08 15:36 G	6539955.03	6539955.15	6539955.27	0.0134	0.0074
Mercury	13193-12-05 19:11 G	6540043.20	6540043.30	6540043.41	0.0134	0.0091
Venus	13194-02-08 23:02 G	6540108.25	6540108.46	6540108.68	0.0134	0.0011
Mercury	13194-03-03 22:48 G	6540131.37	6540131.45	6540131.54	0.0134	0.0108
Mercury	13194-05-31 02:23 G	6540219.56	6540219.60	6540219.65	0.0134	0.0125

Venus	13194-09-23 04:33 G	6540334.50	6540334.69	6540334.90	0.0134	0.0052
Venus	13195-05-07 10:33 G	6540560.79	6540560.94	6540561.10	0.0134	0.0092
Venus	13195-12-19 16:04 G	6540787.16	6540787.17	6540787.23	0.0134	0.0133
Mars	13216-05-11 14:23 G	6548235.83	6548236.10	6548236.41	0.0143	0.0056
Mars	13218-04-16 01:26 G	6548940.31	6548940.56	6548940.85	0.0143	0.0076
Earth	13224-08-09 12:14 G	6551247.95	6551248.01	6551248.09	0.0145	0.0138
Earth	13225-08-14 10:48 G	6551617.77	6551617.95	6551618.17	0.0145	0.0086
Moon	13225-08-14 14:09 G	6551617.89	6551618.09	6551618.30	0.0145	0.0082 *
Moon	13226-08-19 07:11 G	6551987.56	6551987.80	6551988.06	0.0145	0.0032
Earth	13226-08-19 10:19 G	6551987.69	6551987.93	6551988.18	0.0145	0.0032 *
Earth	13227-08-24 09:50 G	6552357.66	6552357.91	6552358.16	0.0145	0.0022
Moon	13227-08-24 12:14 G	6552357.76	6552358.01	6552358.25	0.0145	0.0018 *
Moon	13228-08-28 07:26 G	6552727.61	6552727.81	6552728.03	0.0145	0.0083
Earth	13228-08-28 09:07 G	6552727.68	6552727.88	6552728.11	0.0145	0.0076 *
Earth	13229-09-02 08:09 G	6553097.76	6553097.84	6553097.98	0.0145	0.0130
Moon	13229-09-02 09:50 G	6553097.80	6553097.91	6553098.06	0.0145	0.0123 *
Mercury	13232-07-19 19:11 G	6554149.22	6554149.30	6554149.39	0.0145	0.0125
Mercury	13232-10-16 01:11 G	6554237.44	6554237.55	6554237.68	0.0145	0.0100
Mercury	13233-01-12 07:40 G	6554325.68	6554325.82	6554325.97	0.0145	0.0074
Venus	13233-02-26 18:14 G	6554371.19	6554371.26	6554371.35	0.0145	0.0134
Mercury	13233-04-10 14:09 G	6554413.93	6554414.09	6554414.25	0.0145	0.0048
Mercury	13233-07-07 20:38 G	6554502.19	6554502.36	6554502.53	0.0145	0.0022
Mercury	13233-10-04 03:07 G	6554590.46	6554590.63	6554590.80	0.0144	0.0005
Venus	13233-10-11 06:00 G	6554597.58	6554597.75	6554597.93	0.0144	0.0084
Mercury	13233-12-31 09:36 G	6554678.73	6554678.90	6554679.07	0.0144	0.0031
Mercury	13234-03-29 16:04 G	6554767.01	6554767.17	6554767.33	0.0144	0.0057
Venus	13234-05-25 18:00 G	6554824.04	6554824.25	6554824.46	0.0144	0.0033
Mercury	13234-06-25 22:33 G	6554855.31	6554855.44	6554855.59	0.0144	0.0084
Mercury	13234-09-22 05:02 G	6554943.62	6554943.71	6554943.84	0.0144	0.0112
Mercury	13234-12-19 11:45 G	6555031.96	6555031.99	6555032.05	0.0144	0.0138

Venus	13235-01-07 05:31 G	6555050.52	6555050.73	6555050.95	0.0144	0.0018
Venus	13235-08-21 17:02 G	6555277.03	6555277.21	6555277.41	0.0144	0.0069
Venus	13236-04-04 04:33 G	6555503.58	6555503.69	6555503.83	0.0144	0.0119
Mars	13255-01-02 20:38 G	6562351.29	6562351.36	6562351.48	0.0136	0.0129
Mars	13256-12-04 03:07 G	6563052.34	6563052.63	6563052.93	0.0136	0.0023
Mars	13258-11-04 19:26 G	6563753.08	6563753.31	6563753.56	0.0135	0.0079
Earth	13266-02-10 07:40 G	6566407.73	6566407.82	6566407.95	0.0133	0.0121
Moon	13266-02-10 10:48 G	6566407.84	6566407.95	6566408.09	0.0133	0.0117 *
Moon	13267-02-14 14:09 G	6566776.89	6566777.09	6566777.30	0.0133	0.0078
Earth	13267-02-14 17:16 G	6566777.03	6566777.22	6566777.44	0.0133	0.0078 *
Earth	13268-02-19 02:38 G	6567146.37	6567146.61	6567146.86	0.0133	0.0036
Moon	13268-02-19 05:45 G	6567146.50	6567146.74	6567147.00	0.0133	0.0039 *
Moon	13269-02-22 08:38 G	6567515.61	6567515.86	6567516.11	0.0133	0.0012
Earth	13269-02-22 12:00 G	6567515.74	6567516.00	6567516.25	0.0133	0.0007 *
Earth	13270-02-26 20:38 G	6567885.13	6567885.36	6567885.60	0.0133	0.0049
Moon	13270-02-27 00:14 G	6567885.27	6567885.51	6567885.76	0.0133	0.0042 *
Moon	13271-03-03 01:40 G	6568254.42	6568254.57	6568254.76	0.0133	0.0098
Earth	13271-03-03 05:02 G	6568254.54	6568254.71	6568254.91	0.0133	0.0091 *
Earth	13272-03-06 13:26 G	6568624.06	6568624.06	6568624.09	0.0133	0.0133
Moon	13272-03-06 17:02 G	6568624.17	6568624.21	6568624.30	0.0133	0.0129
Mercury	13275-02-02 04:48 G	6569686.64	6569686.70	6569686.78	0.0134	0.0119
Mercury	13275-05-01 08:38 G	6569774.78	6569774.86	6569774.97	0.0134	0.0101
Mercury	13275-07-28 12:28 G	6569862.92	6569863.02	6569863.15	0.0134	0.0083
Mercury	13275-10-24 16:33 G	6569951.07	6569951.19	6569951.32	0.0134	0.0064
Venus	13275-11-30 14:52 G	6569988.08	6569988.12	6569988.19	0.0134	0.0129
Mercury	13276-01-20 20:24 G	6570039.22	6570039.35	6570039.49	0.0134	0.0046
Mercury	13276-04-18 00:14 G	6570127.37	6570127.51	6570127.65	0.0134	0.0028
Venus	13276-07-13 20:38 G	6570214.20	6570214.36	6570214.52	0.0134	0.0089
Mercury	13276-07-15 04:04 G	6570215.52	6570215.67	6570215.81	0.0134	0.0011
Mercury	13276-10-11 07:40 G	6570303.68	6570303.82	6570303.97	0.0134	0.0008

Mercury	13277-01-07 11:31 G	6570391.84	6570391.98	6570392.12	0.0134	0.0025
Venus	13277-02-25 02:09 G	6570440.39	6570440.59	6570440.80	0.0134	0.0049
Mercury	13277-04-05 15:07 G	6570480.00	6570480.13	6570480.27	0.0134	0.0042
Mercury	13277-07-02 18:43 G	6570568.16	6570568.28	6570568.42	0.0134	0.0060
Mercury	13277-09-28 22:19 G	6570656.32	6570656.43	6570656.56	0.0134	0.0077
Venus	13277-10-09 07:55 G	6570666.61	6570666.83	6570667.05	0.0134	0.0009
Mercury	13277-12-26 02:09 G	6570744.49	6570744.59	6570744.69	0.0134	0.0094
Mercury	13278-03-24 05:45 G	6570832.67	6570832.74	6570832.82	0.0134	0.0111
Venus	13278-05-23 13:26 G	6570892.85	6570893.06	6570893.28	0.0134	0.0032
Mercury	13278-06-20 09:21 G	6570920.85	6570920.89	6570920.93	0.0134	0.0128
Venus	13279-01-04 19:12 G	6571119.13	6571119.30	6571119.49	0.0134	0.0073
Venus	13279-08-19 00:57 G	6571345.44	6571345.54	6571345.67	0.0134	0.0113
Mars	13299-02-01 05:02 G	6578451.60	6578451.71	6578451.87	0.0142	0.0128
Mars	13301-01-06 04:33 G	6579155.37	6579155.69	6579156.01	0.0143	0.0002
Mars	13302-12-11 19:40 G	6579860.21	6579860.32	6579860.48	0.0143	0.0130
Moon	13308-08-10 17:45 G	6581929.15	6581929.24	6581929.38	0.0145	0.0129
Earth	13308-08-10 21:07 G	6581929.32	6581929.38	6581929.49	0.0145	0.0136 *
Earth	13309-08-15 20:24 G	6582299.15	6582299.35	6582299.56	0.0145	0.0082
Moon	13309-08-16 00:00 G	6582299.31	6582299.50	6582299.70	0.0145	0.0087 *
Moon	13310-08-20 16:33 G	6582668.94	6582669.19	6582669.44	0.0145	0.0028
Earth	13310-08-20 19:40 G	6582669.08	6582669.32	6582669.57	0.0145	0.0029 *
Earth	13311-08-25 18:57 G	6583039.04	6583039.29	6583039.54	0.0145	0.0025
Moon	13311-08-25 21:50 G	6583039.17	6583039.41	6583039.65	0.0145	0.0030 *
Moon	13312-08-29 15:36 G	6583408.93	6583409.15	6583409.38	0.0145	0.0073
Earth	13312-08-29 18:00 G	6583409.06	6583409.25	6583409.47	0.0145	0.0080 *
Earth	13313-09-03 17:16 G	6583779.14	6583779.22	6583779.34	0.0145	0.0133
Moon	13313-09-03 18:57 G	6583779.25	6583779.29	6583779.37	0.0145	0.0141 *
Mercury	13316-08-10 02:09 G	6584850.50	6584850.59	6584850.68	0.0145	0.0120
Mercury	13316-11-06 08:09 G	6584938.72	6584938.84	6584938.98	0.0145	0.0095
Mercury	13317-02-02 14:38 G	6585026.97	6585027.11	6585027.26	0.0145	0.0069

Mercury	13317-05-01 20:52 G	6585115.22	6585115.37	6585115.54	0.0145	0.0044
Venus	13317-06-11 11:31 G	6585155.84	6585155.98	6585156.13	0.0145	0.0108
Mercury	13317-07-29 03:21 G	6585203.48	6585203.64	6585203.81	0.0145	0.0017
Mercury	13317-10-25 09:50 G	6585291.74	6585291.91	6585292.08	0.0144	0.0010
Mercury	13318-01-21 16:19 G	6585380.02	6585380.18	6585380.35	0.0144	0.0036
Venus	13318-01-23 23:16 G	6585382.27	6585382.47	6585382.67	0.0144	0.0057
Mercury	13318-04-19 22:48 G	6585468.30	6585468.45	6585468.61	0.0144	0.0062
Mercury	13318-07-17 05:16 G	6585556.60	6585556.72	6585556.87	0.0144	0.0090
Venus	13318-09-07 11:02 G	6585608.75	6585608.96	6585609.18	0.0144	0.0007
Mercury	13318-10-13 12:00 G	6585644.91	6585645.00	6585645.11	0.0144	0.0116
Mercury	13319-01-09 18:43 G	6585733.27	6585733.28	6585733.31	0.0144	0.0143
Venus	13319-04-21 22:33 G	6585835.24	6585835.44	6585835.66	0.0144	0.0045
Venus	13319-12-04 10:04 G	6586061.77	6586061.92	6586062.10	0.0144	0.0095
Mars	13339-08-29 14:09 G	6593269.87	6593270.09	6593270.34	0.0136	0.0084
Mars	13341-07-30 14:52 G	6593970.83	6593971.12	6593971.42	0.0135	0.0021
Mars	13343-07-01 03:36 G	6594671.53	6594671.65	6594671.79	0.0135	0.0120
Earth	13350-02-11 15:36 G	6597089.06	6597089.15	6597089.29	0.0133	0.0119
Moon	13350-02-11 18:43 G	6597089.19	6597089.28	6597089.41	0.0133	0.0122 *
Moon	13351-02-15 22:33 G	6597458.25	6597458.44	6597458.66	0.0133	0.0075
Earth	13351-02-16 01:26 G	6597458.35	6597458.56	6597458.77	0.0133	0.0076 *
Earth	13352-02-20 10:33 G	6597827.70	6597827.94	6597828.19	0.0133	0.0033
Moon	13352-02-20 13:40 G	6597827.82	6597828.07	6597828.33	0.0133	0.0030 *
Moon	13353-02-23 16:48 G	6598196.95	6598197.20	6598197.45	0.0133	0.0005
Earth	13353-02-23 19:40 G	6598197.07	6598197.32	6598197.58	0.0133	0.0010 *
Earth	13354-02-28 04:04 G	6598566.44	6598566.67	6598566.92	0.0133	0.0052
Moon	13354-02-28 07:12 G	6598566.57	6598566.80	6598567.04	0.0133	0.0058 *
Moon	13355-03-04 09:07 G	6598935.71	6598935.88	6598936.09	0.0133	0.0088
Earth	13355-03-04 12:43 G	6598935.86	6598936.03	6598936.22	0.0133	0.0094 *
Mercury	13359-02-23 11:31 G	6600387.92	6600387.98	6600388.06	0.0134	0.0116
Mercury	13359-05-22 15:21 G	6600476.05	6600476.14	6600476.25	0.0134	0.0098

Mercury	13359-08-18 19:12 G	6600564.19	6600564.30	6600564.43	0.0134	0.0080
Mercury	13359-11-14 23:16 G	6600652.34	6600652.47	6600652.60	0.0134	0.0061
Mercury	13360-02-11 03:07 G	6600740.49	6600740.63	6600740.77	0.0134	0.0044
Venus	13360-03-14 04:33 G	6600772.59	6600772.69	6600772.84	0.0134	0.0109
Mercury	13360-05-09 06:57 G	6600828.65	6600828.79	6600828.93	0.0134	0.0026
Mercury	13360-08-05 10:48 G	6600916.80	6600916.95	6600917.09	0.0134	0.0008
Venus	13360-10-26 10:19 G	6600998.75	6600998.93	6600999.13	0.0134	0.0069
Mercury	13360-11-01 14:24 G	6601004.96	6601005.10	6601005.25	0.0134	0.0010
Mercury	13361-01-28 18:14 G	6601093.12	6601093.26	6601093.40	0.0134	0.0027
Mercury	13361-04-26 21:50 G	6601181.28	6601181.41	6601181.55	0.0134	0.0045
Venus	13361-06-09 16:04 G	6601224.96	6601225.17	6601225.39	0.0134	0.0028
Mercury	13361-07-24 01:40 G	6601269.44	6601269.57	6601269.69	0.0134	0.0062
Mercury	13361-10-20 05:02 G	6601357.61	6601357.71	6601357.83	0.0134	0.0080
Mercury	13362-01-16 08:52 G	6601445.78	6601445.87	6601445.97	0.0134	0.0097
Venus	13362-01-21 22:04 G	6601451.20	6601451.42	6601451.63	0.0134	0.0012
Mercury	13362-04-14 12:28 G	6601533.95	6601534.02	6601534.10	0.0134	0.0114
Mercury	13362-07-11 16:04 G	6601622.15	6601622.17	6601622.20	0.0134	0.0131
Venus	13362-09-05 03:50 G	6601677.46	6601677.66	6601677.86	0.0134	0.0053
Venus	13363-04-19 09:21 G	6601903.74	6601903.89	6601904.06	0.0134	0.0093
Venus	13363-12-01 15:21 G	6602130.13	6602130.14	6602130.16	0.0134	0.0134
Mars	13383-09-28 14:24 G	6609370.86	6609371.10	6609371.38	0.0142	0.0078
Mars	13385-09-01 18:57 G	6610075.00	6610075.29	6610075.60	0.0143	0.0051
Moon	13392-08-11 02:52 G	6612610.58	6612610.62	6612610.69	0.0145	0.0141
Earth	13392-08-11 06:28 G	6612610.69	6612610.77	6612610.88	0.0145	0.0133 *
Earth	13393-08-16 05:31 G	6612980.53	6612980.73	6612980.95	0.0145	0.0080
Moon	13393-08-16 08:38 G	6612980.67	6612980.86	6612981.09	0.0145	0.0076 *
Moon	13394-08-21 01:12 G	6613350.30	6613350.55	6613350.80	0.0145	0.0027
Earth	13394-08-21 04:48 G	6613350.45	6613350.70	6613350.95	0.0145	0.0026 *
Earth	13395-08-26 03:36 G	6613720.42	6613720.65	6613720.91	0.0145	0.0029
Moon	13395-08-26 06:57 G	6613720.55	6613720.79	6613721.04	0.0145	0.0026 *

Moon	13396-08-30 00:00 G	6614090.32	6614090.50	6614090.72	0.0145	0.0090
Earth	13396-08-30 02:52 G	6614090.43	6614090.62	6614090.84	0.0145	0.0083 *
Earth	13397-09-04 01:55 G	6614460.52	6614460.58	6614460.69	0.0145	0.0137
Moon	13397-09-04 05:02 G	6614460.61	6614460.71	6614460.83	0.0145	0.0129 *
Mercury	13400-06-04 02:24 G	6615463.58	6615463.60	6615463.65	0.0145	0.0141
Mercury	13400-08-31 08:38 G	6615551.78	6615551.86	6615551.97	0.0145	0.0116
Mercury	13400-11-27 15:07 G	6615640.00	6615640.13	6615640.27	0.0145	0.0090
Venus	13401-02-09 16:33 G	6615714.12	6615714.19	6615714.29	0.0145	0.0133
Mercury	13401-02-23 21:21 G	6615728.25	6615728.39	6615728.55	0.0145	0.0065
Mercury	13401-05-23 03:50 G	6615816.50	6615816.66	6615816.83	0.0145	0.0038
Mercury	13401-08-19 10:19 G	6615904.76	6615904.93	6615905.10	0.0145	0.0012
Venus	13401-09-24 04:19 G	6615940.51	6615940.68	6615940.87	0.0144	0.0082
Mercury	13401-11-15 16:48 G	6615993.03	6615993.20	6615993.37	0.0144	0.0014
Mercury	13402-02-11 23:16 G	6616081.31	6616081.47	6616081.63	0.0144	0.0040
Venus	13402-05-08 16:19 G	6616166.97	6616167.18	6616167.40	0.0144	0.0031
Mercury	13402-05-11 05:31 G	6616169.59	6616169.73	6616169.90	0.0144	0.0068
Mercury	13402-08-07 12:28 G	6616257.89	6616258.02	6616258.15	0.0144	0.0094
Mercury	13402-11-03 18:57 G	6616346.20	6616346.29	6616346.39	0.0144	0.0121
Venus	13402-12-21 04:04 G	6616393.46	6616393.67	6616393.89	0.0144	0.0019
Venus	13403-08-04 15:36 G	6616619.97	6616620.15	6616620.36	0.0144	0.0071
Venus	13404-03-18 03:21 G	6616846.53	6616846.64	6616846.77	0.0144	0.0120
Mars	13424-04-24 05:02 G	6624188.44	6624188.71	6624189.02	0.0136	0.0040
Mars	13426-03-26 02:24 G	6624889.34	6624889.60	6624889.86	0.0135	0.0064
Earth	13434-02-13 00:00 G	6627770.40	6627770.50	6627770.65	0.0133	0.0117
Moon	13434-02-13 02:09 G	6627770.46	6627770.59	6627770.75	0.0133	0.0112 *
Moon	13435-02-17 07:26 G	6628139.61	6628139.81	6628140.02	0.0133	0.0075
Earth	13435-02-17 09:50 G	6628139.71	6628139.91	6628140.14	0.0133	0.0074 *
Earth	13436-02-21 19:12 G	6628509.05	6628509.30	6628509.55	0.0133	0.0031
Moon	13436-02-21 21:21 G	6628509.14	6628509.39	6628509.66	0.0133	0.0032 *
Moon	13437-02-25 01:40 G	6628878.32	6628878.57	6628878.82	0.0133	0.0016

Earth	13437-02-25 04:04 G	6628878.42	6628878.67	6628878.93	0.0133	0.0012 *
Earth	13438-03-01 12:28 G	6629247.80	6629248.02	6629248.27	0.0133	0.0055
Moon	13438-03-01 15:21 G	6629247.91	6629248.14	6629248.40	0.0133	0.0049 *
Moon	13439-03-05 18:14 G	6629617.13	6629617.26	6629617.44	0.0133	0.0105
Earth	13439-03-05 20:52 G	6629617.22	6629617.37	6629617.56	0.0133	0.0098 *
Moon	13440-03-09 08:52 G	6629986.87	6629986.87	6629986.88	0.0133	0.0133
Mercury	13442-12-18 14:24 G	6631001.08	6631001.10	6631001.13	0.0134	0.0131
Mercury	13443-03-16 18:14 G	6631089.19	6631089.26	6631089.35	0.0134	0.0113
Mercury	13443-06-12 22:04 G	6631177.33	6631177.42	6631177.54	0.0134	0.0095
Mercury	13443-09-09 02:09 G	6631265.48	6631265.59	6631265.72	0.0134	0.0076
Venus	13443-11-13 13:26 G	6631331.01	6631331.06	6631331.14	0.0134	0.0128
Mercury	13443-12-06 06:00 G	6631353.62	6631353.75	6631353.89	0.0134	0.0058
Mercury	13444-03-03 09:50 G	6631441.78	6631441.91	6631442.05	0.0134	0.0040
Mercury	13444-05-30 13:40 G	6631529.93	6631530.07	6631530.22	0.0134	0.0023
Venus	13444-06-26 18:57 G	6631557.14	6631557.29	6631557.47	0.0134	0.0088
Mercury	13444-08-26 17:31 G	6631618.09	6631618.23	6631618.38	0.0134	0.0005
Mercury	13444-11-22 21:21 G	6631706.24	6631706.39	6631706.53	0.0134	0.0013
Venus	13445-02-08 00:43 G	6631783.34	6631783.53	6631783.75	0.0134	0.0048
Mercury	13445-02-19 00:57 G	6631794.40	6631794.54	6631794.68	0.0134	0.0031
Mercury	13445-05-18 04:48 G	6631882.56	6631882.70	6631882.83	0.0134	0.0048
Mercury	13445-08-14 08:24 G	6631970.73	6631970.85	6631970.98	0.0134	0.0066
Venus	13445-09-22 06:43 G	6632009.56	6632009.78	6632010.00	0.0134	0.0007
Mercury	13445-11-10 12:00 G	6632058.90	6632059.00	6632059.12	0.0134	0.0083
Mercury	13446-02-06 15:50 G	6632147.07	6632147.16	6632147.25	0.0134	0.0100
Mercury	13446-05-05 19:26 G	6632235.24	6632235.31	6632235.38	0.0134	0.0117
Venus	13446-05-06 12:28 G	6632235.81	6632236.02	6632236.23	0.0134	0.0033
Venus	13446-12-18 18:00 G	6632462.08	6632462.25	6632462.44	0.0134	0.0074
Venus	13447-08-02 00:00 G	6632688.40	6632688.50	6632688.62	0.0134	0.0115
Mars	13468-05-25 01:26 G	6640290.26	6640290.56	6640290.88	0.0143	0.0026
Mars	13470-04-29 09:21 G	6640994.69	6640994.89	6640995.12	0.0143	0.0105

Moon	13476-08-12 12:14 G	6643291.89	6643292.01	6643292.15	0.0145	0.0124
Earth	13476-08-12 15:50 G	6643292.06	6643292.16	6643292.26	0.0145	0.0131 *
Earth	13477-08-17 14:09 G	6643661.90	6643662.09	6643662.32	0.0145	0.0078
Moon	13477-08-17 18:00 G	6643662.06	6643662.25	6643662.47	0.0145	0.0084 *
Moon	13478-08-22 10:04 G	6644031.68	6644031.92	6644032.18	0.0145	0.0022
Earth	13478-08-22 13:40 G	6644031.82	6644032.07	6644032.32	0.0145	0.0023 *
Earth	13479-08-27 12:43 G	6644401.79	6644402.03	6644402.28	0.0145	0.0031
Moon	13479-08-27 16:04 G	6644401.94	6644402.17	6644402.42	0.0145	0.0035 *
Moon	13480-08-31 08:24 G	6644771.65	6644771.85	6644772.07	0.0145	0.0080
Earth	13480-08-31 11:45 G	6644771.80	6644771.99	6644772.20	0.0145	0.0086 *
Earth	13481-09-05 11:16 G	6645141.91	6645141.97	6645142.04	0.0145	0.0139
Mercury	13484-06-24 09:21 G	6646164.85	6646164.89	6646164.96	0.0145	0.0136
Mercury	13484-09-20 15:50 G	6646253.06	6646253.16	6646253.27	0.0145	0.0110
Mercury	13484-12-17 22:04 G	6646341.29	6646341.42	6646341.56	0.0145	0.0085
Mercury	13485-03-16 04:33 G	6646429.53	6646429.69	6646429.84	0.0145	0.0059
Venus	13485-05-24 09:50 G	6646498.77	6646498.91	6646499.07	0.0145	0.0106
Mercury	13485-06-12 10:48 G	6646517.79	6646517.95	6646518.12	0.0145	0.0033
Mercury	13485-09-08 17:16 G	6646606.05	6646606.22	6646606.39	0.0144	0.0007
Mercury	13485-12-05 23:45 G	6646694.32	6646694.49	6646694.66	0.0144	0.0019
Venus	13486-01-05 21:50 G	6646725.21	6646725.41	6646725.62	0.0144	0.0056
Mercury	13486-03-04 06:14 G	6646782.60	6646782.76	6646782.92	0.0144	0.0046
Mercury	13486-05-31 12:43 G	6646870.89	6646871.03	6646871.18	0.0144	0.0072
Venus	13486-08-20 09:50 G	6646951.69	6646951.91	6646952.13	0.0144	0.0005
Mercury	13486-08-27 19:12 G	6646959.19	6646959.30	6646959.43	0.0144	0.0099
Mercury	13486-11-24 01:55 G	6647047.51	6647047.58	6647047.67	0.0144	0.0126
Venus	13487-04-03 21:21 G	6647178.19	6647178.39	6647178.61	0.0144	0.0046
Venus	13487-11-16 08:52 G	6647404.72	6647404.87	6647405.05	0.0144	0.0096
Mars	13507-01-17 12:14 G	6654405.82	6654406.01	6654406.22	0.0136	0.0102
Mars	13508-12-18 18:28 G	6655106.97	6655107.27	6655107.57	0.0136	0.0004
Mars	13510-11-19 13:12 G	6655807.88	6655808.05	6655808.25	0.0135	0.0105

Earth	13518-02-14 08:09 G	6658451.73	6658451.84	6658451.99	0.0133	0.0115
Moon	13518-02-14 10:04 G	6658451.82	6658451.92	6658452.05	0.0133	0.0119 *
Moon	13519-02-18 16:04 G	6658820.98	6658821.17	6658821.40	0.0133	0.0070
Earth	13519-02-18 17:45 G	6658821.03	6658821.24	6658821.46	0.0133	0.0072 *
Earth	13520-02-23 02:52 G	6659190.38	6659190.62	6659190.88	0.0133	0.0029
Moon	13520-02-23 05:02 G	6659190.45	6659190.71	6659190.97	0.0133	0.0027 *
Moon	13521-02-26 09:50 G	6659559.67	6659559.91	6659560.16	0.0133	0.0011
Earth	13521-02-26 11:45 G	6659559.74	6659559.99	6659560.25	0.0133	0.0015 *
Earth	13522-03-02 20:09 G	6659929.12	6659929.34	6659929.58	0.0133	0.0057
Moon	13522-03-02 22:19 G	6659929.20	6659929.43	6659929.67	0.0133	0.0062 *
Moon	13523-03-07 02:24 G	6660298.43	6660298.60	6660298.78	0.0133	0.0093
Earth	13523-03-07 04:48 G	6660298.54	6660298.70	6660298.88	0.0133	0.0100 *
Mercury	13527-01-08 21:07 G	6661702.35	6661702.38	6661702.43	0.0134	0.0128
Mercury	13527-04-07 00:57 G	6661790.47	6661790.54	6661790.63	0.0134	0.0110
Mercury	13527-07-04 04:48 G	6661878.61	6661878.70	6661878.82	0.0134	0.0092
Mercury	13527-09-30 09:07 G	6661966.75	6661966.88	6661967.00	0.0134	0.0073
Mercury	13527-12-27 12:57 G	6662054.90	6662055.04	6662055.17	0.0134	0.0055
Venus	13528-02-26 04:04 G	6662115.54	6662115.67	6662115.80	0.0134	0.0106
Mercury	13528-03-24 16:48 G	6662143.06	6662143.20	6662143.34	0.0134	0.0037
Mercury	13528-06-20 20:24 G	6662231.21	6662231.35	6662231.50	0.0134	0.0020
Mercury	13528-09-17 00:14 G	6662319.37	6662319.51	6662319.66	0.0134	0.0003
Venus	13528-10-09 09:07 G	6662341.71	6662341.88	6662342.09	0.0134	0.0067
Mercury	13528-12-14 04:04 G	6662407.53	6662407.67	6662407.81	0.0134	0.0016
Mercury	13529-03-12 07:55 G	6662495.69	6662495.83	6662495.97	0.0134	0.0034
Venus	13529-05-23 15:07 G	6662567.92	6662568.13	6662568.35	0.0134	0.0026
Mercury	13529-06-08 11:31 G	6662583.85	6662583.98	6662584.11	0.0134	0.0052
Mercury	13529-09-04 15:07 G	6662672.01	6662672.13	6662672.26	0.0134	0.0069
Mercury	13529-12-01 18:57 G	6662760.18	6662760.29	6662760.40	0.0134	0.0086
Venus	13530-01-04 21:07 G	6662794.16	6662794.38	6662794.59	0.0134	0.0014
Mercury	13530-02-27 22:33 G	6662848.35	6662848.44	6662848.53	0.0134	0.0104

Mercury	13530-05-27 01:55 G	6662936.53	6662936.58	6662936.65	0.0134	0.0121
Venus	13530-08-19 02:52 G	6663020.42	6663020.62	6663020.82	0.0134	0.0055
Venus	13531-04-02 08:24 G	6663246.71	6663246.85	6663247.01	0.0134	0.0095
Mars	13551-02-15 16:33 G	6670505.99	6670506.19	6670506.43	0.0142	0.0099
Mars	13553-01-19 13:12 G	6671209.74	6671210.05	6671210.36	0.0143	0.0027
Moon	13560-08-13 20:52 G	6673973.32	6673973.37	6673973.47	0.0145	0.0138
Earth	13560-08-14 00:28 G	6673973.42	6673973.52	6673973.64	0.0145	0.0129 *
Earth	13561-08-18 23:02 G	6674343.26	6674343.46	6674343.69	0.0145	0.0076
Moon	13561-08-19 02:38 G	6674343.39	6674343.61	6674343.84	0.0145	0.0070 *
Moon	13562-08-23 18:43 G	6674713.03	6674713.28	6674713.53	0.0145	0.0024
Earth	13562-08-23 22:19 G	6674713.19	6674713.43	6674713.69	0.0145	0.0021 *
Earth	13563-08-28 21:07 G	6675083.15	6675083.38	6675083.64	0.0145	0.0034
Moon	13563-08-29 00:43 G	6675083.29	6675083.53	6675083.78	0.0145	0.0032 *
Moon	13564-09-01 17:16 G	6675453.03	6675453.22	6675453.41	0.0145	0.0094
Earth	13564-09-01 20:38 G	6675453.17	6675453.36	6675453.57	0.0145	0.0088 *
Earth	13565-09-06 19:55 G	6675823.29	6675823.33	6675823.39	0.0145	0.0142
Moon	13565-09-06 23:02 G	6675823.39	6675823.46	6675823.57	0.0145	0.0135 *
Mercury	13568-07-15 16:33 G	6676866.12	6676866.19	6676866.27	0.0145	0.0130
Mercury	13568-10-11 22:48 G	6676954.34	6676954.45	6676954.57	0.0145	0.0105
Mercury	13569-01-08 04:48 G	6677042.57	6677042.70	6677042.85	0.0145	0.0080
Venus	13569-01-22 15:07 G	6677057.06	6677057.13	6677057.24	0.0145	0.0131
Mercury	13569-04-06 11:16 G	6677130.82	6677130.97	6677131.13	0.0145	0.0054
Mercury	13569-07-03 17:45 G	6677219.08	6677219.24	6677219.41	0.0145	0.0028
Venus	13569-09-06 03:21 G	6677283.47	6677283.64	6677283.83	0.0144	0.0080
Mercury	13569-09-30 00:14 G	6677307.34	6677307.51	6677307.68	0.0144	0.0002
Mercury	13569-12-27 06:43 G	6677395.61	6677395.78	6677395.95	0.0144	0.0025
Mercury	13570-03-25 12:57 G	6677483.89	6677484.04	6677484.21	0.0144	0.0052
Venus	13570-04-20 15:21 G	6677509.93	6677510.14	6677510.35	0.0144	0.0029
Mercury	13570-06-21 19:26 G	6677572.18	6677572.31	6677572.47	0.0144	0.0079
Mercury	13570-09-18 02:24 G	6677660.48	6677660.60	6677660.72	0.0144	0.0105

Venus	13570-12-03 03:07 G	6677736.42	6677736.63	6677736.85	0.0144	0.0022
Mercury	13570-12-15 08:52 G	6677748.81	6677748.87	6677748.95	0.0144	0.0132
Venus	13571-07-17 14:52 G	6677962.94	6677963.12	6677963.31	0.0144	0.0072
Venus	13572-02-29 02:24 G	6678189.50	6678189.60	6678189.72	0.0144	0.0122
Mars	13591-09-12 05:45 G	6685324.47	6685324.74	6685325.02	0.0136	0.0057
Mars	13593-08-13 08:38 G	6686025.59	6686025.86	6686026.15	0.0135	0.0048
Earth	13602-02-14 16:48 G	6689133.07	6689133.20	6689133.35	0.0133	0.0113
Moon	13602-02-14 17:16 G	6689133.07	6689133.22	6689133.39	0.0133	0.0107 *
Moon	13603-02-19 00:43 G	6689502.34	6689502.53	6689502.76	0.0133	0.0073
Earth	13603-02-19 02:09 G	6689502.38	6689502.59	6689502.82	0.0133	0.0070 *
Earth	13604-02-23 11:16 G	6689871.72	6689871.97	6689872.23	0.0133	0.0027
Moon	13604-02-23 12:14 G	6689871.76	6689872.01	6689872.28	0.0133	0.0026 *
Moon	13605-02-26 18:43 G	6690241.04	6690241.28	6690241.53	0.0133	0.0019
Earth	13605-02-26 20:09 G	6690241.08	6690241.34	6690241.59	0.0133	0.0016 *
Earth	13606-03-03 04:33 G	6690610.47	6690610.69	6690610.92	0.0133	0.0059
Moon	13606-03-03 06:14 G	6690610.53	6690610.76	6690611.01	0.0133	0.0053 *
Moon	13607-03-07 11:45 G	6690979.86	6690979.99	6690980.14	0.0133	0.0108
Earth	13607-03-07 12:43 G	6690979.89	6690980.03	6690980.22	0.0133	0.0102 *
Mercury	13611-01-29 04:04 G	6692403.62	6692403.67	6692403.73	0.0134	0.0124
Mercury	13611-04-27 07:55 G	6692491.75	6692491.83	6692491.93	0.0134	0.0106
Mercury	13611-07-24 11:45 G	6692579.89	6692579.99	6692580.11	0.0134	0.0088
Mercury	13611-10-20 15:50 G	6692668.04	6692668.16	6692668.29	0.0134	0.0069
Venus	13611-10-26 12:28 G	6692673.96	6692674.02	6692674.12	0.0134	0.0125
Mercury	13612-01-16 19:40 G	6692756.19	6692756.32	6692756.46	0.0134	0.0051
Mercury	13612-04-13 23:31 G	6692844.34	6692844.48	6692844.63	0.0134	0.0034
Venus	13612-06-08 18:14 G	6692900.10	6692900.26	6692900.44	0.0134	0.0085
Mercury	13612-07-11 03:21 G	6692932.50	6692932.64	6692932.79	0.0134	0.0016
Mercury	13612-10-07 07:12 G	6693020.66	6693020.80	6693020.95	0.0134	0.0003
Mercury	13613-01-03 11:02 G	6693108.82	6693108.96	6693109.10	0.0134	0.0020
Venus	13613-01-21 00:14 G	6693126.31	6693126.51	6693126.72	0.0134	0.0045

Mercury	13613-04-01 14:38 G	6693196.98	6693197.11	6693197.25	0.0134	0.0038
Mercury	13613-06-28 18:28 G	6693285.14	6693285.27	6693285.40	0.0134	0.0055
Venus	13613-09-04 06:00 G	6693352.53	6693352.75	6693352.97	0.0134	0.0005
Mercury	13613-09-24 22:04 G	6693373.30	6693373.42	6693373.54	0.0134	0.0073
Mercury	13613-12-22 01:40 G	6693461.47	6693461.57	6693461.68	0.0134	0.0090
Mercury	13614-03-20 05:31 G	6693549.65	6693549.73	6693549.81	0.0134	0.0107
Venus	13614-04-18 11:31 G	6693578.78	6693578.98	6693579.20	0.0134	0.0036
Mercury	13614-06-16 09:07 G	6693637.83	6693637.88	6693637.93	0.0134	0.0124
Venus	13614-11-30 17:16 G	6693805.05	6693805.22	6693805.41	0.0134	0.0076
Venus	13615-07-14 23:02 G	6694031.37	6694031.46	6694031.58	0.0134	0.0117
Mars	13635-10-12 00:28 G	6701425.24	6701425.52	6701425.82	0.0142	0.0049
Mars	13637-09-15 02:09 G	6702129.35	6702129.59	6702129.87	0.0143	0.0081
Moon	13644-08-14 06:28 G	6704654.64	6704654.77	6704654.91	0.0145	0.0120
Earth	13644-08-14 08:52 G	6704654.78	6704654.87	6704655.01	0.0145	0.0128 *
Earth	13645-08-19 07:55 G	6705024.62	6705024.83	6705025.05	0.0145	0.0073
Moon	13645-08-19 11:16 G	6705024.76	6705024.97	6705025.19	0.0145	0.0080 *
Moon	13646-08-24 03:36 G	6705394.41	6705394.65	6705394.91	0.0145	0.0016
Earth	13646-08-24 06:57 G	6705394.54	6705394.79	6705395.04	0.0145	0.0019 *
Earth	13647-08-29 06:00 G	6705764.51	6705764.75	6705765.00	0.0145	0.0036
Moon	13647-08-29 09:50 G	6705764.67	6705764.91	6705765.15	0.0145	0.0038 *
Moon	13648-09-02 01:40 G	6706134.38	6706134.57	6706134.78	0.0145	0.0086
Earth	13648-09-02 05:02 G	6706134.53	6706134.71	6706134.92	0.0145	0.0091 *
Earth	13649-09-07 04:33 G	6706504.69	6706504.69	6706504.71	0.0145	0.0145
Mercury	13652-08-04 23:31 G	6707567.40	6707567.48	6707567.57	0.0145	0.0125
Mercury	13652-11-01 05:31 G	6707655.62	6707655.73	6707655.86	0.0145	0.0100
Mercury	13653-01-28 12:00 G	6707743.86	6707744.00	6707744.15	0.0145	0.0074
Mercury	13653-04-26 18:14 G	6707832.11	6707832.26	6707832.43	0.0145	0.0048
Venus	13653-05-06 08:38 G	6707841.72	6707841.86	6707842.02	0.0145	0.0104
Mercury	13653-07-24 00:43 G	6707920.36	6707920.53	6707920.70	0.0144	0.0022
Mercury	13653-10-20 07:12 G	6708008.63	6708008.80	6708008.97	0.0144	0.0004

Venus	13653-12-18 20:52 G	6708068.17	6708068.37	6708068.57	0.0144	0.0053
Mercury	13654-01-16 13:40 G	6708096.90	6708097.07	6708097.23	0.0144	0.0030
Mercury	13654-04-14 20:09 G	6708185.18	6708185.34	6708185.50	0.0144	0.0057
Mercury	13654-07-12 02:38 G	6708273.47	6708273.61	6708273.75	0.0144	0.0083
Venus	13654-08-02 08:52 G	6708294.65	6708294.87	6708295.09	0.0144	0.0002
Mercury	13654-10-08 09:07 G	6708361.78	6708361.88	6708362.00	0.0144	0.0110
Mercury	13655-01-04 15:50 G	6708450.12	6708450.16	6708450.22	0.0144	0.0137
Venus	13655-03-16 20:38 G	6708521.16	6708521.36	6708521.57	0.0144	0.0048
Venus	13655-10-29 07:55 G	6708747.69	6708747.83	6708748.00	0.0144	0.0099
Mars	13674-06-05 09:36 G	6715541.78	6715541.90	6715542.05	0.0137	0.0122
Mars	13676-05-06 22:04 G	6716243.12	6716243.42	6716243.72	0.0136	0.0014
Mars	13678-04-07 21:21 G	6716944.17	6716944.39	6716944.62	0.0135	0.0090
Earth	13686-02-15 00:28 G	6719814.40	6719814.52	6719814.69	0.0133	0.0111
Moon	13686-02-15 00:57 G	6719814.43	6719814.54	6719814.69	0.0133	0.0116 *
Moon	13687-02-19 10:04 G	6720183.71	6720183.92	6720184.15	0.0133	0.0063
Earth	13687-02-19 10:04 G	6720183.71	6720183.92	6720184.15	0.0133	0.0068 *
Earth	13688-02-23 18:57 G	6720553.05	6720553.29	6720553.55	0.0133	0.0025
Moon	13688-02-23 19:40 G	6720553.06	6720553.32	6720553.59	0.0133	0.0025 *
Moon	13689-02-27 03:21 G	6720922.39	6720922.64	6720922.89	0.0133	0.0017
Earth	13689-02-27 03:50 G	6720922.41	6720922.66	6720922.92	0.0133	0.0019 *
Earth	13690-03-03 12:00 G	6721291.79	6721292.00	6721292.25	0.0133	0.0063
Moon	13690-03-03 12:43 G	6721291.81	6721292.03	6721292.27	0.0133	0.0066 *
Moon	13691-03-07 19:26 G	6721661.16	6721661.31	6721661.50	0.0133	0.0099
Earth	13691-03-07 20:52 G	6721661.22	6721661.37	6721661.54	0.0133	0.0105 *
Mercury	13695-02-18 10:48 G	6723104.89	6723104.95	6723105.02	0.0133	0.0120
Mercury	13695-05-17 14:38 G	6723193.03	6723193.11	6723193.21	0.0134	0.0103
Mercury	13695-08-13 18:43 G	6723281.17	6723281.28	6723281.40	0.0134	0.0084
Mercury	13695-11-09 22:33 G	6723369.32	6723369.44	6723369.57	0.0134	0.0066
Mercury	13696-02-06 02:38 G	6723457.47	6723457.61	6723457.74	0.0134	0.0048
Venus	13696-02-07 02:52 G	6723458.50	6723458.62	6723458.77	0.0134	0.0104

Mercury	13696-05-04 06:28 G	6723545.63	6723545.77	6723545.91	0.0134	0.0030
Mercury	13696-07-31 10:19 G	6723633.78	6723633.93	6723634.07	0.0134	0.0012
Venus	13696-09-20 08:38 G	6723684.68	6723684.86	6723685.06	0.0134	0.0064
Mercury	13696-10-27 14:09 G	6723721.94	6723722.09	6723722.23	0.0134	0.0007
Mercury	13697-01-23 17:45 G	6723810.10	6723810.24	6723810.39	0.0134	0.0024
Mercury	13697-04-21 21:36 G	6723898.26	6723898.40	6723898.54	0.0134	0.0041
Venus	13697-05-04 14:24 G	6723910.89	6723911.10	6723911.32	0.0134	0.0024
Mercury	13697-07-19 01:12 G	6723986.43	6723986.55	6723986.68	0.0134	0.0059
Mercury	13697-10-15 04:48 G	6724074.59	6724074.70	6724074.83	0.0134	0.0076
Venus	13697-12-16 20:09 G	6724137.13	6724137.34	6724137.56	0.0134	0.0017
Mercury	13698-01-11 08:38 G	6724162.76	6724162.86	6724162.96	0.0134	0.0093
Mercury	13698-04-09 12:14 G	6724250.94	6724251.01	6724251.09	0.0134	0.0111
Mercury	13698-07-06 15:36 G	6724339.13	6724339.15	6724339.21	0.0134	0.0128
Venus	13698-07-31 01:55 G	6724363.39	6724363.58	6724363.78	0.0134	0.0057
Venus	13699-03-14 07:40 G	6724589.68	6724589.82	6724589.97	0.0134	0.0097
Mars	13718-07-04 21:50 G	6731641.27	6731641.41	6731641.59	0.0142	0.0122
Mars	13720-06-07 11:31 G	6732344.67	6732344.98	6732345.29	0.0143	0.0003
Mars	13722-05-12 18:43 G	6733049.20	6733049.28	6733049.40	0.0143	0.0135
Jupiter	13723-02-20 12:28 G	6733332.80	6733333.02	6733333.31	0.0143	0.0125
Moon	13728-08-15 15:36 G	6735336.08	6735336.15	6735336.27	0.0145	0.0133
Earth	13728-08-15 18:00 G	6735336.14	6735336.25	6735336.39	0.0145	0.0125 *
Earth	13729-08-20 16:48 G	6735705.99	6735706.20	6735706.43	0.0145	0.0071
Moon	13729-08-20 19:40 G	6735706.10	6735706.32	6735706.56	0.0145	0.0064 *
Moon	13730-08-25 12:43 G	6736075.79	6736076.03	6736076.28	0.0145	0.0020
Earth	13730-08-25 16:04 G	6736075.92	6736076.17	6736076.42	0.0145	0.0016 *
Earth	13731-08-30 15:07 G	6736445.89	6736446.13	6736446.37	0.0145	0.0039
Moon	13731-08-30 18:14 G	6736446.02	6736446.26	6736446.51	0.0145	0.0039 *
Moon	13732-09-03 10:48 G	6736815.78	6736815.95	6736816.14	0.0145	0.0099
Earth	13732-09-03 14:09 G	6736815.92	6736816.09	6736816.30	0.0145	0.0095 *
Moon	13733-09-08 17:16 G	6737186.18	6737186.22	6737186.29	0.0145	0.0141

Mercury	13736-05-30 00:28 G	6738180.51	6738180.52	6738180.54	0.0145	0.0144
Mercury	13736-08-26 06:43 G	6738268.69	6738268.78	6738268.87	0.0145	0.0119
Mercury	13736-11-22 12:43 G	6738356.91	6738357.03	6738357.16	0.0145	0.0094
Venus	13737-01-04 14:09 G	6738400.01	6738400.09	6738400.21	0.0145	0.0128
Mercury	13737-02-18 18:57 G	6738445.15	6738445.29	6738445.45	0.0145	0.0068
Mercury	13737-05-18 01:26 G	6738533.40	6738533.56	6738533.72	0.0144	0.0042
Mercury	13737-08-14 07:55 G	6738621.66	6738621.83	6738621.99	0.0144	0.0017
Venus	13737-08-19 02:38 G	6738626.43	6738626.61	6738626.80	0.0144	0.0077
Mercury	13737-11-10 14:09 G	6738709.92	6738710.09	6738710.26	0.0144	0.0010
Mercury	13738-02-06 20:38 G	6738798.20	6738798.36	6738798.53	0.0144	0.0036
Venus	13738-04-02 14:24 G	6738852.89	6738853.10	6738853.32	0.0144	0.0026
Mercury	13738-05-06 03:07 G	6738886.48	6738886.63	6738886.79	0.0144	0.0062
Mercury	13738-08-02 09:36 G	6738974.77	6738974.90	6738975.04	0.0144	0.0089
Mercury	13738-10-29 16:04 G	6739063.08	6739063.17	6739063.28	0.0144	0.0116
Venus	13738-11-15 02:24 G	6739079.38	6739079.60	6739079.81	0.0144	0.0025
Mercury	13739-01-25 23:02 G	6739151.44	6739151.46	6739151.48	0.0144	0.0143
Venus	13739-06-29 13:55 G	6739305.90	6739306.08	6739306.27	0.0144	0.0075
Venus	13740-02-11 01:26 G	6739532.47	6739532.56	6739532.68	0.0144	0.0125
Mars	13759-01-30 05:16 G	6746460.49	6746460.72	6746460.99	0.0136	0.0077
Mars	13760-12-31 14:09 G	6747161.79	6747162.09	6747162.38	0.0136	0.0030
Mars	13762-12-02 09:07 G	6747862.85	6747862.88	6747862.97	0.0135	0.0132
Moon	13770-02-16 07:55 G	6750495.69	6750495.83	6750496.03	0.0133	0.0102
Earth	13770-02-16 09:36 G	6750495.75	6750495.90	6750496.05	0.0133	0.0108 *
Earth	13771-02-20 18:43 G	6750865.06	6750865.28	6750865.51	0.0133	0.0065
Moon	13771-02-20 18:57 G	6750865.08	6750865.29	6750865.51	0.0133	0.0069 *
Moon	13772-02-25 03:07 G	6751234.37	6751234.63	6751234.90	0.0133	0.0020
Earth	13772-02-25 03:36 G	6751234.40	6751234.65	6751234.91	0.0133	0.0022 *
Earth	13773-02-28 12:14 G	6751603.76	6751604.01	6751604.27	0.0133	0.0022
Moon	13773-02-28 12:28 G	6751603.78	6751604.02	6751604.27	0.0133	0.0023 *
Earth	13774-03-04 20:38 G	6751973.15	6751973.36	6751973.60	0.0133	0.0065

Moon	13774-03-04 20:52 G	6751973.15	6751973.37	6751973.63	0.0133	0.0061 *
Earth	13775-03-09 05:31 G	6752342.59	6752342.73	6752342.89	0.0133	0.0107
Moon	13775-03-09 05:31 G	6752342.62	6752342.73	6752342.87	0.0133	0.0114 *
Mercury	13779-03-11 17:45 G	6753806.17	6753806.24	6753806.31	0.0133	0.0117
Mercury	13779-06-07 21:36 G	6753894.31	6753894.40	6753894.51	0.0134	0.0099
Mercury	13779-09-04 01:26 G	6753982.45	6753982.56	6753982.69	0.0134	0.0081
Venus	13779-10-08 12:00 G	6754016.93	6754017.00	6754017.10	0.0134	0.0122
Mercury	13779-12-01 05:31 G	6754070.60	6754070.73	6754070.86	0.0134	0.0062
Mercury	13780-02-27 09:21 G	6754158.76	6754158.89	6754159.03	0.0134	0.0044
Venus	13780-05-21 17:45 G	6754243.07	6754243.24	6754243.42	0.0134	0.0082
Mercury	13780-05-25 13:12 G	6754246.91	6754247.05	6754247.20	0.0134	0.0027
Mercury	13780-08-21 17:16 G	6754335.07	6754335.22	6754335.36	0.0134	0.0009
Mercury	13780-11-17 20:52 G	6754423.23	6754423.37	6754423.52	0.0134	0.0011
Venus	13781-01-02 23:31 G	6754469.28	6754469.48	6754469.69	0.0134	0.0042
Mercury	13781-02-14 00:43 G	6754511.39	6754511.53	6754511.67	0.0134	0.0027
Mercury	13781-05-13 04:19 G	6754599.55	6754599.68	6754599.82	0.0134	0.0045
Mercury	13781-08-09 08:09 G	6754687.72	6754687.84	6754687.97	0.0134	0.0062
Venus	13781-08-17 05:16 G	6754695.50	6754695.72	6754695.94	0.0134	0.0002
Mercury	13781-11-05 11:45 G	6754775.88	6754775.99	6754776.11	0.0134	0.0080
Mercury	13782-02-01 15:21 G	6754864.05	6754864.14	6754864.25	0.0134	0.0097
Venus	13782-03-31 10:48 G	6754921.75	6754921.95	6754922.16	0.0134	0.0038
Mercury	13782-04-30 19:12 G	6754952.23	6754952.30	6754952.38	0.0134	0.0114
Mercury	13782-07-27 22:48 G	6755040.43	6755040.45	6755040.48	0.0134	0.0131
Venus	13782-11-12 16:19 G	6755148.01	6755148.18	6755148.37	0.0134	0.0079
Venus	13783-06-26 22:04 G	6755374.33	6755374.42	6755374.53	0.0134	0.0119
Mars	13803-03-01 04:48 G	6762560.44	6762560.70	6762560.97	0.0142	0.0071
Mars	13805-02-02 00:00 G	6763264.23	6763264.50	6763264.81	0.0143	0.0057
Moon	13812-08-17 01:26 G	6766017.42	6766017.56	6766017.71	0.0145	0.0115
Earth	13812-08-17 02:52 G	6766017.50	6766017.62	6766017.77	0.0145	0.0122 *
Earth	13813-08-22 01:40 G	6766387.36	6766387.57	6766387.81	0.0145	0.0068

Moon	13813-08-22 04:04 G	6766387.47	6766387.67	6766387.91	0.0145	0.0075 *
Moon	13814-08-26 22:33 G	6766757.19	6766757.44	6766757.68	0.0145	0.0009
Earth	13814-08-27 00:57 G	6766757.29	6766757.54	6766757.79	0.0145	0.0013 *
Earth	13815-09-01 00:00 G	6767127.27	6767127.50	6767127.75	0.0145	0.0042
Moon	13815-09-01 03:21 G	6767127.40	6767127.64	6767127.89	0.0145	0.0043 *
Moon	13816-09-04 20:09 G	6767497.17	6767497.34	6767497.54	0.0145	0.0094
Earth	13816-09-04 23:31 G	6767497.30	6767497.48	6767497.67	0.0145	0.0097 *
Mercury	13820-06-20 07:26 G	6768881.77	6768881.81	6768881.86	0.0145	0.0139
Mercury	13820-09-16 13:40 G	6768969.97	6768970.07	6768970.18	0.0145	0.0114
Mercury	13820-12-13 19:40 G	6769058.20	6769058.32	6769058.46	0.0145	0.0089
Mercury	13821-03-12 02:09 G	6769146.44	6769146.59	6769146.74	0.0145	0.0063
Venus	13821-04-19 08:09 G	6769184.69	6769184.84	6769185.00	0.0145	0.0101
Mercury	13821-06-08 08:24 G	6769234.69	6769234.85	6769235.02	0.0145	0.0037
Mercury	13821-09-04 14:52 G	6769322.95	6769323.12	6769323.29	0.0144	0.0011
Venus	13821-12-01 19:55 G	6769411.14	6769411.33	6769411.55	0.0144	0.0051
Mercury	13821-12-01 21:21 G	6769411.22	6769411.39	6769411.56	0.0144	0.0015 *
Mercury	13822-02-28 03:36 G	6769499.49	6769499.65	6769499.82	0.0144	0.0042
Mercury	13822-05-27 10:04 G	6769587.78	6769587.92	6769588.08	0.0144	0.0068
Venus	13822-07-16 08:09 G	6769637.62	6769637.84	6769638.06	0.0144	0.0001
Mercury	13822-08-23 16:48 G	6769676.07	6769676.20	6769676.33	0.0144	0.0095
Mercury	13822-11-19 23:16 G	6769764.38	6769764.47	6769764.57	0.0144	0.0121
Venus	13823-02-27 19:40 G	6769864.13	6769864.32	6769864.53	0.0144	0.0051
Venus	13823-10-12 07:12 G	6770090.66	6770090.80	6770090.97	0.0144	0.0101
Mars	13843-09-26 00:57 G	6777379.26	6777379.54	6777379.85	0.0136	0.0032
Mars	13845-08-27 04:48 G	6778080.46	6778080.70	6778080.96	0.0135	0.0074
Moon	13854-02-17 16:19 G	6781177.05	6781177.18	6781177.35	0.0133	0.0112
Earth	13854-02-17 18:00 G	6781177.09	6781177.25	6781177.41	0.0133	0.0105 *
Earth	13855-02-22 02:38 G	6781546.40	6781546.61	6781546.85	0.0133	0.0062
Moon	13855-02-22 04:19 G	6781546.46	6781546.68	6781546.91	0.0133	0.0057 *
Moon	13856-02-26 10:33 G	6781915.69	6781915.94	6781916.21	0.0133	0.0021

Earth	13856-02-26 11:45 G	6781915.74	6781915.99	6781916.25	0.0133	0.0019 *
Earth	13857-03-01 20:09 G	6782285.10	6782285.34	6782285.61	0.0133	0.0026
Moon	13857-03-01 21:07 G	6782285.14	6782285.38	6782285.63	0.0133	0.0024 *
Moon	13858-03-06 03:50 G	6782654.45	6782654.66	6782654.90	0.0133	0.0071
Earth	13858-03-06 04:48 G	6782654.49	6782654.70	6782654.93	0.0133	0.0068 *
Earth	13859-03-10 13:40 G	6783023.93	6783024.07	6783024.21	0.0133	0.0111
Moon	13859-03-10 13:26 G	6783023.93	6783024.06	6783024.23	0.0133	0.0106 *
Mercury	13863-01-03 20:38 G	6784419.34	6784419.36	6784419.38	0.0133	0.0132
Mercury	13863-04-02 00:28 G	6784507.45	6784507.52	6784507.60	0.0133	0.0114
Mercury	13863-06-29 04:19 G	6784595.59	6784595.68	6784595.79	0.0134	0.0096
Mercury	13863-09-25 08:09 G	6784683.73	6784683.84	6784683.97	0.0134	0.0078
Mercury	13863-12-22 12:28 G	6784771.88	6784772.02	6784772.15	0.0134	0.0059
Venus	13864-01-21 02:24 G	6784801.47	6784801.60	6784801.75	0.0134	0.0101
Mercury	13864-03-19 16:19 G	6784860.04	6784860.18	6784860.32	0.0134	0.0041
Mercury	13864-06-15 20:09 G	6784948.19	6784948.34	6784948.48	0.0134	0.0023
Venus	13864-09-03 07:55 G	6785027.65	6785027.83	6785028.03	0.0134	0.0062
Mercury	13864-09-12 00:00 G	6785036.35	6785036.50	6785036.64	0.0134	0.0006
Mercury	13864-12-09 03:50 G	6785124.51	6785124.66	6785124.80	0.0134	0.0013
Mercury	13865-03-07 07:26 G	6785212.67	6785212.81	6785212.96	0.0134	0.0030
Venus	13865-04-17 13:40 G	6785253.86	6785254.07	6785254.29	0.0134	0.0021
Mercury	13865-06-03 11:16 G	6785300.84	6785300.97	6785301.11	0.0134	0.0048
Mercury	13865-08-30 14:52 G	6785389.00	6785389.12	6785389.25	0.0134	0.0065
Mercury	13865-11-26 18:28 G	6785477.17	6785477.27	6785477.39	0.0134	0.0083
Venus	13865-11-29 19:12 G	6785480.09	6785480.30	6785480.52	0.0134	0.0019
Mercury	13866-02-22 22:04 G	6785565.34	6785565.42	6785565.53	0.0134	0.0100
Mercury	13866-05-22 01:55 G	6785653.52	6785653.58	6785653.65	0.0134	0.0117
Venus	13866-07-14 00:43 G	6785706.35	6785706.53	6785706.74	0.0134	0.0059
Mercury	13866-08-18 05:31 G	6785741.73	6785741.73	6785741.74	0.0134	0.0134
Venus	13867-02-25 06:28 G	6785932.64	6785932.77	6785932.93	0.0134	0.0099
Mars	13887-10-25 14:09 G	6793479.79	6793480.09	6793480.40	0.0142	0.0020

Mars	13889-09-28 14:24 G	6794183.93	6794184.10	6794184.32	0.0143	0.0111
Moon	13896-08-17 11:31 G	6796698.87	6796698.98	6796699.10	0.0145	0.0126
Earth	13896-08-17 12:14 G	6796698.89	6796699.01	6796699.17	0.0145	0.0119 *
Earth	13897-08-22 11:16 G	6797068.75	6797068.97	6797069.20	0.0145	0.0064
Moon	13897-08-22 12:43 G	6797068.80	6797069.03	6797069.28	0.0145	0.0058 *
Moon	13898-08-27 08:09 G	6797438.59	6797438.84	6797439.08	0.0145	0.0014
Earth	13898-08-27 10:19 G	6797438.68	6797438.93	6797439.19	0.0145	0.0010 *
Earth	13899-09-01 09:21 G	6797808.66	6797808.89	6797809.14	0.0145	0.0046
Moon	13899-09-01 12:00 G	6797808.76	6797809.00	6797809.25	0.0145	0.0047 *
Moon	13900-09-06 05:45 G	6798178.58	6798178.74	6798178.92	0.0145	0.0106
Earth	13900-09-06 08:52 G	6798178.70	6798178.87	6798179.06	0.0145	0.0101 *
Mercury	13904-07-11 14:38 G	6799583.05	6799583.11	6799583.18	0.0145	0.0133
Mercury	13904-10-07 20:52 G	6799671.26	6799671.37	6799671.48	0.0145	0.0108
Venus	13904-12-18 13:55 G	6799742.98	6799743.08	6799743.19	0.0145	0.0125
Mercury	13905-01-04 02:52 G	6799759.49	6799759.62	6799759.77	0.0145	0.0083
Mercury	13905-04-02 09:21 G	6799847.74	6799847.89	6799848.04	0.0145	0.0057
Mercury	13905-06-29 15:36 G	6799935.99	6799936.15	6799936.32	0.0145	0.0031
Venus	13905-08-02 01:55 G	6799969.40	6799969.58	6799969.78	0.0145	0.0074
Mercury	13905-09-25 22:04 G	6800024.25	6800024.42	6800024.59	0.0145	0.0006
Mercury	13905-12-23 04:19 G	6800112.52	6800112.68	6800112.85	0.0144	0.0021
Venus	13906-03-16 13:55 G	6800195.87	6800196.08	6800196.30	0.0144	0.0024
Mercury	13906-03-21 10:48 G	6800200.79	6800200.95	6800201.11	0.0144	0.0047
Mercury	13906-06-17 17:16 G	6800289.08	6800289.22	6800289.37	0.0144	0.0074
Mercury	13906-09-13 23:45 G	6800377.37	6800377.49	6800377.62	0.0144	0.0100
Venus	13906-10-29 01:40 G	6800422.36	6800422.57	6800422.79	0.0144	0.0027
Mercury	13906-12-11 06:14 G	6800465.69	6800465.76	6800465.85	0.0144	0.0127
Venus	13907-06-12 13:12 G	6800648.88	6800649.05	6800649.25	0.0144	0.0077
Venus	13908-01-25 00:43 G	6800875.45	6800875.53	6800875.65	0.0144	0.0127
Mars	13926-06-20 04:33 G	6807596.50	6807596.69	6807596.93	0.0136	0.0096
Mars	13928-05-21 18:28 G	6808297.97	6808298.27	6808298.57	0.0136	0.0014

Mars	13930-04-22 18:28 G	6808999.13	6808999.27	6808999.43	0.0135	0.0117
Jupiter	13931-02-03 13:55 G	6809285.59	6809286.08	6809286.61	0.0135	0.0024
Moon	13938-02-19 00:00 G	6811858.34	6811858.50	6811858.70	0.0133	0.0096
Earth	13938-02-19 02:38 G	6811858.46	6811858.61	6811858.78	0.0133	0.0103 *
Earth	13939-02-23 11:31 G	6812227.77	6812227.98	6812228.23	0.0133	0.0060
Moon	13939-02-23 13:12 G	6812227.85	6812228.05	6812228.28	0.0133	0.0065 *
Moon	13940-02-27 18:43 G	6812597.02	6812597.28	6812597.55	0.0133	0.0012
Earth	13940-02-27 20:38 G	6812597.11	6812597.36	6812597.62	0.0133	0.0016 *
Earth	13941-03-03 05:16 G	6812966.47	6812966.72	6812966.98	0.0133	0.0028
Moon	13941-03-03 06:57 G	6812966.55	6812966.79	6812967.04	0.0133	0.0027 *
Moon	13942-03-07 12:57 G	6813335.81	6813336.04	6813336.27	0.0133	0.0067
Earth	13942-03-07 13:55 G	6813335.87	6813336.08	6813336.31	0.0133	0.0071 *
Earth	13943-03-11 22:19 G	6813705.32	6813705.43	6813705.58	0.0133	0.0114
Moon	13943-03-12 00:00 G	6813705.41	6813705.50	6813705.62	0.0133	0.0119 *
Mercury	13947-01-25 03:21 G	6815120.61	6815120.64	6815120.69	0.0133	0.0128
Mercury	13947-04-23 07:26 G	6815208.73	6815208.81	6815208.90	0.0134	0.0110
Mercury	13947-07-20 11:16 G	6815296.87	6815296.97	6815297.09	0.0134	0.0092
Venus	13947-09-21 11:16 G	6815359.89	6815359.97	6815360.08	0.0134	0.0120
Mercury	13947-10-16 15:21 G	6815385.02	6815385.14	6815385.27	0.0134	0.0073
Mercury	13948-01-12 19:12 G	6815473.17	6815473.30	6815473.44	0.0134	0.0056
Mercury	13948-04-09 23:02 G	6815561.33	6815561.46	6815561.61	0.0134	0.0038
Venus	13948-05-04 17:02 G	6815586.04	6815586.21	6815586.39	0.0134	0.0080
Mercury	13948-07-07 03:07 G	6815649.48	6815649.63	6815649.77	0.0134	0.0020
Mercury	13948-10-03 06:57 G	6815737.64	6815737.79	6815737.93	0.0134	0.0004
Venus	13948-12-16 22:48 G	6815812.24	6815812.45	6815812.66	0.0134	0.0040
Mercury	13948-12-30 10:33 G	6815825.80	6815825.94	6815826.09	0.0134	0.0016
Mercury	13949-03-28 14:24 G	6815913.96	6815914.10	6815914.24	0.0134	0.0034
Mercury	13949-06-24 18:14 G	6816002.12	6816002.26	6816002.39	0.0134	0.0051
Venus	13949-07-31 04:19 G	6816038.46	6816038.68	6816038.90	0.0134	0.0000
Mercury	13949-09-20 21:50 G	6816090.29	6816090.41	6816090.54	0.0134	0.0069

Mercury	13949-12-18 01:26 G	6816178.46	6816178.56	6816178.68	0.0134	0.0086
Venus	13950-03-14 09:36 G	6816264.70	6816264.90	6816265.12	0.0134	0.0041
Mercury	13950-03-16 05:02 G	6816266.63	6816266.71	6816266.81	0.0134	0.0104
Mercury	13950-06-12 08:52 G	6816354.81	6816354.87	6816354.93	0.0134	0.0120
Venus	13950-10-26 15:07 G	6816490.97	6816491.13	6816491.32	0.0134	0.0081
Venus	13951-06-09 20:52 G	6816717.29	6816717.37	6816717.48	0.0134	0.0120
Mars	13970-07-18 12:28 G	6823695.79	6823696.02	6823696.26	0.0142	0.0092
Mars	13972-06-21 00:57 G	6824399.25	6824399.54	6824399.85	0.0143	0.0034
Moon	13980-08-18 20:52 G	6827380.23	6827380.37	6827380.54	0.0145	0.0111
Earth	13980-08-18 21:21 G	6827380.26	6827380.39	6827380.55	0.0145	0.0117 *
Earth	13981-08-23 20:24 G	6827750.13	6827750.35	6827750.59	0.0145	0.0062
Moon	13981-08-23 21:36 G	6827750.18	6827750.40	6827750.63	0.0145	0.0069 *
Moon	13982-08-28 18:14 G	6828120.02	6828120.26	6828120.51	0.0145	0.0001
Earth	13982-08-28 19:40 G	6828120.07	6828120.32	6828120.57	0.0145	0.0007 *
Earth	13983-09-02 18:57 G	6828490.06	6828490.29	6828490.53	0.0145	0.0049
Moon	13983-09-02 21:21 G	6828490.15	6828490.39	6828490.64	0.0145	0.0048 *
Moon	13984-09-06 16:19 G	6828860.01	6828860.18	6828860.36	0.0145	0.0103
Earth	13984-09-06 18:28 G	6828860.11	6828860.27	6828860.45	0.0145	0.0105 *
Mercury	13988-07-31 21:36 G	6830284.34	6830284.40	6830284.49	0.0145	0.0128
Mercury	13988-10-28 03:50 G	6830372.55	6830372.66	6830372.78	0.0145	0.0102
Mercury	13989-01-24 10:04 G	6830460.78	6830460.92	6830461.07	0.0145	0.0077
Venus	13989-04-01 07:26 G	6830527.67	6830527.81	6830527.99	0.0145	0.0099
Mercury	13989-04-22 16:19 G	6830549.03	6830549.18	6830549.34	0.0145	0.0052
Mercury	13989-07-19 22:48 G	6830637.28	6830637.45	6830637.61	0.0145	0.0026
Mercury	13989-10-16 05:02 G	6830725.54	6830725.71	6830725.88	0.0145	0.0002
Venus	13989-11-13 19:40 G	6830754.12	6830754.32	6830754.53	0.0145	0.0048
Mercury	13990-01-12 11:31 G	6830813.81	6830813.98	6830814.15	0.0145	0.0027
Mercury	13990-04-10 18:00 G	6830902.09	6830902.25	6830902.41	0.0144	0.0053
Venus	13990-06-28 07:40 G	6830980.60	6830980.82	6830981.04	0.0144	0.0003
Mercury	13990-07-08 00:14 G	6830990.38	6830990.51	6830990.66	0.0144	0.0080

Mercury	13990-10-04 06:43 G	6831078.68	6831078.78	6831078.91	0.0144	0.0106
Mercury	13990-12-31 13:26 G	6831167.00	6831167.06	6831167.13	0.0144	0.0133
Venus	13991-02-09 19:12 G	6831207.11	6831207.30	6831207.51	0.0144	0.0053
Venus	13991-09-24 06:43 G	6831433.64	6831433.78	6831433.94	0.0144	0.0103

15TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 15th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	14011-02-13 01:26 G		6838515.28	6838515.56	6838515.85	0.0136	0.0049	
Mars	14013-01-14 10:33 G		6839216.67	6839216.94	6839217.22	0.0135	0.0059	
Moon	14022-02-19 08:52 G		6842539.73	6842539.87	6842540.04	0.0133	0.0107	
Earth	14022-02-19 11:02 G		6842539.82	6842539.96	6842540.15	0.0133	0.0101	*
Earth	14023-02-23 20:38 G		6842909.13	6842909.36	6842909.59	0.0133	0.0057	
Moon	14023-02-23 23:02 G		6842909.24	6842909.46	6842909.70	0.0133	0.0051	*
Moon	14024-02-28 02:52 G		6843278.37	6843278.62	6843278.89	0.0133	0.0017	
Earth	14024-02-28 05:16 G		6843278.47	6843278.72	6843278.98	0.0133	0.0013	*
Earth	14025-03-03 14:09 G		6843647.84	6843648.09	6843648.34	0.0133	0.0031	
Moon	14025-03-03 16:04 G		6843647.93	6843648.17	6843648.42	0.0133	0.0031	*
Moon	14026-03-07 20:09 G		6844017.14	6844017.34	6844017.58	0.0133	0.0075	
Earth	14026-03-07 22:33 G		6844017.25	6844017.44	6844017.67	0.0133	0.0074	*
Earth	14027-03-12 06:57 G		6844386.69	6844386.79	6844386.93	0.0133	0.0118	
Moon	14027-03-12 08:38 G		6844386.75	6844386.86	6844387.01	0.0133	0.0112	*
Mercury	14031-02-14 10:19 G		6845821.88	6845821.93	6845821.98	0.0133	0.0125	

Mercury	14031-05-13 14:09 G	6845910.01	6845910.09	6845910.19	0.0134	0.0107
Mercury	14031-08-09 18:00 G	6845998.15	6845998.25	6845998.37	0.0134	0.0089
Mercury	14031-11-05 22:04 G	6846086.30	6846086.42	6846086.55	0.0134	0.0070
Venus	14032-01-03 01:40 G	6846144.44	6846144.57	6846144.73	0.0134	0.0099
Mercury	14032-02-02 02:09 G	6846174.45	6846174.59	6846174.72	0.0134	0.0052
Mercury	14032-04-30 06:00 G	6846262.61	6846262.75	6846262.89	0.0134	0.0034
Mercury	14032-07-27 09:50 G	6846350.76	6846350.91	6846351.06	0.0134	0.0016
Venus	14032-08-16 07:26 G	6846370.62	6846370.81	6846371.01	0.0134	0.0059
Mercury	14032-10-23 13:40 G	6846438.92	6846439.07	6846439.21	0.0134	0.0002
Mercury	14033-01-19 17:16 G	6846527.08	6846527.22	6846527.37	0.0134	0.0020
Venus	14033-03-30 12:57 G	6846596.82	6846597.04	6846597.26	0.0134	0.0019
Mercury	14033-04-17 21:07 G	6846615.24	6846615.38	6846615.52	0.0134	0.0037
Mercury	14033-07-15 00:57 G	6846703.41	6846703.54	6846703.67	0.0134	0.0054
Mercury	14033-10-11 04:33 G	6846791.57	6846791.69	6846791.82	0.0134	0.0072
Venus	14033-11-11 18:28 G	6846823.05	6846823.27	6846823.48	0.0134	0.0020
Mercury	14034-01-07 08:09 G	6846879.74	6846879.84	6846879.96	0.0134	0.0089
Mercury	14034-04-05 12:00 G	6846967.92	6846968.00	6846968.09	0.0134	0.0106
Venus	14034-06-26 00:00 G	6847049.31	6847049.50	6847049.70	0.0134	0.0060
Mercury	14034-07-02 15:36 G	6847056.10	6847056.15	6847056.21	0.0134	0.0123
Venus	14035-02-07 05:45 G	6847275.60	6847275.74	6847275.89	0.0134	0.0100
Mars	14055-03-13 18:57 G	6854614.99	6854615.29	6854615.58	0.0142	0.0042
Mars	14057-02-14 11:16 G	6855318.74	6855318.97	6855319.24	0.0143	0.0088
Earth	14064-08-19 06:57 G	6858061.64	6858061.79	6858061.95	0.0145	0.0114
Moon	14064-08-19 06:57 G	6858061.67	6858061.79	6858061.94	0.0145	0.0121 *
Moon	14065-08-24 06:00 G	6858431.51	6858431.75	6858432.00	0.0145	0.0052
Earth	14065-08-24 05:45 G	6858431.52	6858431.74	6858431.98	0.0145	0.0059 *
Moon	14066-08-29 04:04 G	6858801.43	6858801.67	6858801.91	0.0145	0.0010
Earth	14066-08-29 05:16 G	6858801.47	6858801.72	6858801.97	0.0145	0.0004 *
Earth	14067-09-03 04:33 G	6859171.47	6859171.69	6859171.93	0.0145	0.0052
Moon	14067-09-03 05:45 G	6859171.51	6859171.74	6859172.00	0.0145	0.0055 *

Moon	14068-09-07 01:40 G	6859541.43	6859541.57	6859541.75	0.0145	0.0111
Earth	14068-09-07 04:04 G	6859541.52	6859541.67	6859541.86	0.0145	0.0108 *
Mercury	14072-08-21 04:48 G	6860985.62	6860985.70	6860985.80	0.0145	0.0122
Mercury	14072-11-17 11:02 G	6861073.84	6861073.96	6861074.09	0.0145	0.0096
Venus	14072-11-29 13:26 G	6861085.96	6861086.06	6861086.19	0.0145	0.0122
Mercury	14073-02-13 17:16 G	6861162.08	6861162.22	6861162.37	0.0145	0.0071
Mercury	14073-05-12 23:31 G	6861250.33	6861250.48	6861250.64	0.0145	0.0045
Venus	14073-07-14 01:40 G	6861312.39	6861312.57	6861312.77	0.0145	0.0071
Mercury	14073-08-09 06:00 G	6861338.58	6861338.75	6861338.91	0.0145	0.0020
Mercury	14073-11-05 12:14 G	6861426.84	6861427.01	6861427.18	0.0145	0.0007
Mercury	14074-02-01 18:43 G	6861515.11	6861515.28	6861515.44	0.0145	0.0033
Venus	14074-02-25 13:40 G	6861538.86	6861539.07	6861539.29	0.0145	0.0021
Mercury	14074-05-01 00:57 G	6861603.39	6861603.54	6861603.70	0.0144	0.0059
Mercury	14074-07-28 07:26 G	6861691.68	6861691.81	6861691.95	0.0144	0.0086
Venus	14074-10-10 01:26 G	6861765.35	6861765.56	6861765.77	0.0144	0.0029
Mercury	14074-10-24 13:55 G	6861779.98	6861780.08	6861780.20	0.0144	0.0112
Mercury	14075-01-20 20:38 G	6861868.32	6861868.36	6861868.41	0.0144	0.0139
Venus	14075-05-24 12:57 G	6861991.86	6861992.04	6861992.23	0.0144	0.0079
Venus	14076-01-06 00:28 G	6862218.44	6862218.52	6862218.62	0.0144	0.0129
Mars	14093-11-06 02:09 G	6868732.43	6868732.59	6868732.78	0.0137	0.0113
Mars	14095-10-08 21:36 G	6869434.10	6869434.40	6869434.71	0.0136	0.0002
Mars	14097-09-09 03:21 G	6870135.46	6870135.64	6870135.84	0.0135	0.0104
Moon	14106-02-20 17:31 G	6873221.05	6873221.23	6873221.43	0.0133	0.0091
Earth	14106-02-20 20:38 G	6873221.20	6873221.36	6873221.55	0.0133	0.0098 *
Earth	14107-02-25 05:45 G	6873590.51	6873590.74	6873590.98	0.0133	0.0054
Moon	14107-02-25 08:24 G	6873590.64	6873590.85	6873591.08	0.0133	0.0060 *
Moon	14108-02-29 11:45 G	6873959.73	6873959.99	6873960.26	0.0133	0.0007
Earth	14108-02-29 14:52 G	6873959.87	6873960.12	6873960.38	0.0133	0.0011 *
Earth	14109-03-04 23:31 G	6874329.24	6874329.48	6874329.74	0.0133	0.0034
Moon	14109-03-05 02:24 G	6874329.36	6874329.60	6874329.85	0.0133	0.0031 *

Moon	14110-03-09 06:00 G	6874698.54	6874698.75	6874698.97	0.0133	0.0075
Earth	14110-03-09 08:09 G	6874698.65	6874698.84	6874699.06	0.0133	0.0077 *
Earth	14111-03-13 16:33 G	6875068.11	6875068.19	6875068.32	0.0133	0.0120
Moon	14111-03-13 19:26 G	6875068.24	6875068.31	6875068.41	0.0133	0.0124 *
Mercury	14115-03-07 17:16 G	6876523.16	6876523.22	6876523.29	0.0133	0.0120
Mercury	14115-06-03 21:07 G	6876611.30	6876611.38	6876611.49	0.0134	0.0103
Mercury	14115-08-31 01:12 G	6876699.44	6876699.55	6876699.67	0.0134	0.0084
Venus	14115-09-03 11:02 G	6876702.87	6876702.96	6876703.08	0.0134	0.0117
Mercury	14115-11-27 05:16 G	6876787.59	6876787.72	6876787.85	0.0134	0.0066
Mercury	14116-02-23 09:07 G	6876875.74	6876875.88	6876876.02	0.0134	0.0048
Venus	14116-04-16 16:48 G	6876929.03	6876929.20	6876929.38	0.0134	0.0077
Mercury	14116-05-21 12:57 G	6876963.90	6876964.04	6876964.19	0.0134	0.0030
Mercury	14116-08-17 16:48 G	6877052.06	6877052.20	6877052.35	0.0134	0.0012
Mercury	14116-11-13 20:38 G	6877140.21	6877140.36	6877140.51	0.0134	0.0006
Venus	14116-11-28 22:04 G	6877155.22	6877155.42	6877155.64	0.0134	0.0038
Mercury	14117-02-10 00:28 G	6877228.38	6877228.52	6877228.66	0.0134	0.0023
Mercury	14117-05-09 04:04 G	6877316.54	6877316.67	6877316.81	0.0134	0.0041
Venus	14117-07-13 03:50 G	6877381.44	6877381.66	6877381.88	0.0134	0.0002
Mercury	14117-08-05 07:55 G	6877404.70	6877404.83	6877404.96	0.0134	0.0058
Mercury	14117-11-01 11:31 G	6877492.87	6877492.98	6877493.10	0.0134	0.0076
Mercury	14118-01-28 15:21 G	6877581.04	6877581.14	6877581.24	0.0134	0.0093
Venus	14118-02-24 09:21 G	6877607.69	6877607.89	6877608.10	0.0134	0.0042
Mercury	14118-04-26 18:57 G	6877669.21	6877669.29	6877669.37	0.0134	0.0110
Mercury	14118-07-23 22:33 G	6877757.41	6877757.44	6877757.49	0.0134	0.0127
Venus	14118-10-08 14:52 G	6877833.96	6877834.12	6877834.30	0.0134	0.0082
Venus	14119-05-22 20:24 G	6878060.28	6878060.35	6878060.45	0.0134	0.0122
Mars	14137-12-04 21:07 G	6884831.23	6884831.38	6884831.59	0.0142	0.0114
Mars	14139-11-08 02:38 G	6885534.30	6885534.61	6885534.92	0.0142	0.0011
Mars	14141-10-12 00:43 G	6886238.51	6886238.53	6886238.55	0.0143	0.0143
Earth	14148-08-20 16:04 G	6888743.01	6888743.17	6888743.32	0.0145	0.0112

Moon	14148-08-20 16:33 G	6888743.05	6888743.19	6888743.37	0.0145	0.0108	*
Moon	14149-08-25 14:38 G	6889112.89	6889113.11	6889113.35	0.0145	0.0065	
Earth	14149-08-25 14:52 G	6889112.90	6889113.12	6889113.36	0.0145	0.0057	*
Earth	14150-08-30 14:24 G	6889482.85	6889483.10	6889483.36	0.0145	0.0003	
Moon	14150-08-30 14:24 G	6889482.86	6889483.10	6889483.35	0.0145	0.0005	*
Earth	14151-09-04 13:55 G	6889852.86	6889853.08	6889853.32	0.0145	0.0055	
Moon	14151-09-04 15:21 G	6889852.90	6889853.14	6889853.38	0.0145	0.0052	*
Moon	14152-09-08 12:28 G	6890222.87	6890223.02	6890223.19	0.0145	0.0110	
Earth	14152-09-08 13:55 G	6890222.92	6890223.08	6890223.24	0.0145	0.0110	*
Mercury	14156-06-15 05:45 G	6891598.72	6891598.74	6891598.79	0.0145	0.0141	
Mercury	14156-09-11 12:00 G	6891686.91	6891687.00	6891687.10	0.0145	0.0116	
Mercury	14156-12-08 18:00 G	6891775.13	6891775.25	6891775.39	0.0145	0.0091	
Mercury	14157-03-07 00:28 G	6891863.37	6891863.52	6891863.67	0.0145	0.0065	
Venus	14157-03-14 07:26 G	6891870.65	6891870.81	6891870.98	0.0145	0.0095	
Mercury	14157-06-03 06:43 G	6891951.62	6891951.78	6891951.94	0.0145	0.0040	
Mercury	14157-08-30 12:57 G	6892039.87	6892040.04	6892040.21	0.0145	0.0014	
Venus	14157-10-26 19:12 G	6892097.10	6892097.30	6892097.52	0.0145	0.0045	
Mercury	14157-11-26 19:12 G	6892128.14	6892128.30	6892128.47	0.0145	0.0013	
Mercury	14158-02-23 01:40 G	6892216.41	6892216.57	6892216.74	0.0145	0.0038	
Mercury	14158-05-22 08:09 G	6892304.69	6892304.84	6892304.99	0.0145	0.0065	
Venus	14158-06-10 07:12 G	6892323.59	6892323.80	6892324.02	0.0145	0.0006	
Mercury	14158-08-18 14:24 G	6892392.98	6892393.10	6892393.24	0.0144	0.0092	
Mercury	14158-11-14 21:07 G	6892481.29	6892481.38	6892481.48	0.0144	0.0118	
Venus	14159-01-22 18:43 G	6892550.09	6892550.28	6892550.50	0.0144	0.0057	
Venus	14159-09-06 06:28 G	6892776.64	6892776.77	6892776.93	0.0144	0.0106	
Mars	14178-07-03 01:26 G	6899651.29	6899651.56	6899651.83	0.0136	0.0066	
Mars	14180-06-03 16:33 G	6900352.91	6900353.19	6900353.49	0.0136	0.0044	
Moon	14189-02-17 00:28 G	6903533.52	6903533.52	6903533.52	0.0133	0.0133	
Moon	14190-02-21 02:24 G	6903902.46	6903902.60	6903902.79	0.0133	0.0103	
Earth	14190-02-21 05:45 G	6903902.58	6903902.74	6903902.94	0.0133	0.0096	*

Earth	14191-02-25 15:07 G	6904271.90	6904272.13	6904272.37	0.0133	0.0052
Moon	14191-02-25 18:43 G	6904272.04	6904272.28	6904272.52	0.0133	0.0045 *
Moon	14192-02-29 20:52 G	6904641.11	6904641.37	6904641.63	0.0133	0.0013
Earth	14192-03-01 00:00 G	6904641.25	6904641.50	6904641.76	0.0133	0.0008 *
Earth	14193-03-05 08:52 G	6905010.63	6905010.87	6905011.12	0.0133	0.0036
Moon	14193-03-05 12:00 G	6905010.76	6905011.00	6905011.24	0.0133	0.0038 *
Moon	14194-03-09 14:24 G	6905379.90	6905380.10	6905380.31	0.0133	0.0079
Earth	14194-03-09 17:31 G	6905380.04	6905380.23	6905380.45	0.0133	0.0080 *
Earth	14195-03-14 01:40 G	6905749.50	6905749.57	6905749.69	0.0133	0.0124
Moon	14195-03-14 04:19 G	6905749.59	6905749.68	6905749.82	0.0133	0.0119 *
Mercury	14199-03-28 00:14 G	6907224.44	6907224.51	6907224.58	0.0133	0.0117
Mercury	14199-06-24 04:04 G	6907312.58	6907312.67	6907312.78	0.0133	0.0099
Mercury	14199-09-20 07:55 G	6907400.72	6907400.83	6907400.96	0.0134	0.0081
Venus	14199-12-16 01:55 G	6907487.43	6907487.58	6907487.74	0.0134	0.0095
Mercury	14199-12-17 12:00 G	6907488.88	6907489.00	6907489.14	0.0134	0.0062
Mercury	14200-03-15 15:50 G	6907577.03	6907577.16	6907577.31	0.0134	0.0045
Mercury	14200-06-11 19:55 G	6907665.19	6907665.33	6907665.47	0.0134	0.0026
Venus	14200-07-30 07:12 G	6907713.61	6907713.80	6907714.01	0.0134	0.0056
Mercury	14200-09-07 23:45 G	6907753.34	6907753.49	6907753.64	0.0134	0.0008
Mercury	14200-12-05 03:36 G	6907841.50	6907841.65	6907841.79	0.0134	0.0009
Mercury	14201-03-03 07:26 G	6907929.66	6907929.81	6907929.95	0.0134	0.0027
Venus	14201-03-13 12:57 G	6907939.82	6907940.04	6907940.25	0.0134	0.0016
Mercury	14201-05-30 11:02 G	6908017.83	6908017.96	6908018.10	0.0134	0.0045
Mercury	14201-08-26 14:52 G	6908105.99	6908106.12	6908106.25	0.0134	0.0062
Venus	14201-10-25 18:14 G	6908166.05	6908166.26	6908166.48	0.0134	0.0024
Mercury	14201-11-22 18:28 G	6908194.16	6908194.27	6908194.39	0.0134	0.0079
Mercury	14202-02-18 22:04 G	6908282.33	6908282.42	6908282.53	0.0134	0.0097
Mercury	14202-05-18 01:40 G	6908370.51	6908370.57	6908370.66	0.0134	0.0114
Venus	14202-06-09 00:00 G	6908392.31	6908392.50	6908392.69	0.0134	0.0064
Mercury	14202-08-14 05:31 G	6908458.71	6908458.73	6908458.76	0.0134	0.0131

Venus	14203-01-21 05:45 G	6908618.60	6908618.74	6908618.88	0.0134	0.0103
Mars	14222-08-01 01:40 G	6915750.31	6915750.57	6915750.86	0.0142	0.0064
Mars	14224-07-04 12:00 G	6916453.73	6916454.00	6916454.28	0.0143	0.0064
Earth	14232-08-22 01:12 G	6919424.40	6919424.55	6919424.73	0.0145	0.0110
Moon	14232-08-22 03:07 G	6919424.49	6919424.63	6919424.78	0.0145	0.0115 *
Moon	14233-08-26 23:31 G	6919794.24	6919794.48	6919794.73	0.0145	0.0047
Earth	14233-08-27 00:43 G	6919794.30	6919794.53	6919794.77	0.0145	0.0054 *
Earth	14234-09-01 00:14 G	6920164.26	6920164.51	6920164.77	0.0145	0.0003
Moon	14234-09-01 00:28 G	6920164.28	6920164.52	6920164.76	0.0145	0.0005 *
Moon	14235-09-05 23:45 G	6920534.26	6920534.49	6920534.74	0.0145	0.0062
Earth	14235-09-05 23:45 G	6920534.27	6920534.49	6920534.73	0.0145	0.0059 *
Moon	14236-09-09 22:19 G	6920904.30	6920904.43	6920904.59	0.0145	0.0116
Earth	14236-09-09 23:16 G	6920904.34	6920904.47	6920904.64	0.0145	0.0114 *
Mercury	14240-07-06 12:57 G	6922300.00	6922300.04	6922300.11	0.0145	0.0135
Mercury	14240-10-02 19:12 G	6922388.20	6922388.30	6922388.41	0.0145	0.0110
Venus	14240-11-12 12:57 G	6922428.94	6922429.04	6922429.18	0.0145	0.0119
Mercury	14240-12-30 01:12 G	6922476.43	6922476.55	6922476.70	0.0145	0.0085
Mercury	14241-03-28 07:40 G	6922564.67	6922564.82	6922564.97	0.0145	0.0059
Mercury	14241-06-24 13:55 G	6922652.92	6922653.08	6922653.24	0.0145	0.0034
Venus	14241-06-27 01:26 G	6922655.37	6922655.56	6922655.75	0.0145	0.0068
Mercury	14241-09-20 20:09 G	6922741.17	6922741.34	6922741.51	0.0145	0.0008
Mercury	14241-12-18 02:24 G	6922829.44	6922829.60	6922829.77	0.0145	0.0019
Venus	14242-02-08 13:26 G	6922881.84	6922882.06	6922882.28	0.0145	0.0018
Mercury	14242-03-16 08:52 G	6922917.71	6922917.87	6922918.03	0.0145	0.0045
Mercury	14242-06-12 15:21 G	6923005.99	6923006.14	6923006.29	0.0145	0.0071
Mercury	14242-09-08 21:36 G	6923094.28	6923094.40	6923094.54	0.0144	0.0098
Venus	14242-09-23 01:12 G	6923108.34	6923108.55	6923108.76	0.0144	0.0033
Mercury	14242-12-06 04:04 G	6923182.60	6923182.67	6923182.77	0.0144	0.0124
Venus	14243-05-07 12:43 G	6923334.86	6923335.03	6923335.22	0.0144	0.0083
Venus	14243-12-20 00:28 G	6923561.44	6923561.52	6923561.61	0.0144	0.0133

Mars	14261-03-26 22:33 G	6929868.38	6929868.44	6929868.55	0.0137	0.0132
Mars	14263-02-27 00:00 G	6930570.21	6930570.50	6930570.82	0.0136	0.0020
Mars	14265-01-28 11:45 G	6931271.77	6931271.99	6931272.23	0.0135	0.0089
Moon	14274-02-22 12:28 G	6934583.83	6934584.02	6934584.23	0.0133	0.0085
Earth	14274-02-22 16:04 G	6934584.00	6934584.17	6934584.37	0.0133	0.0093 *
Earth	14275-02-27 01:12 G	6934953.32	6934953.55	6934953.80	0.0133	0.0048
Moon	14275-02-27 04:19 G	6934953.46	6934953.68	6934953.93	0.0133	0.0055 *
Moon	14276-03-02 06:43 G	6935322.52	6935322.78	6935323.04	0.0133	0.0002
Earth	14276-03-02 10:19 G	6935322.68	6935322.93	6935323.19	0.0133	0.0005 *
Earth	14277-03-06 18:57 G	6935692.06	6935692.29	6935692.55	0.0133	0.0040
Moon	14277-03-06 22:33 G	6935692.20	6935692.44	6935692.69	0.0133	0.0036 *
Moon	14278-03-11 00:28 G	6936061.32	6936061.52	6936061.73	0.0133	0.0082
Earth	14278-03-11 03:50 G	6936061.47	6936061.66	6936061.86	0.0133	0.0083 *
Earth	14279-03-15 12:14 G	6936430.94	6936431.01	6936431.09	0.0133	0.0126
Moon	14279-03-15 15:36 G	6936431.11	6936431.15	6936431.22	0.0133	0.0130
Mercury	14283-01-20 03:07 G	6937837.61	6937837.63	6937837.67	0.0133	0.0131
Mercury	14283-04-18 07:12 G	6937925.73	6937925.80	6937925.89	0.0133	0.0112
Mercury	14283-07-15 11:16 G	6938013.87	6938013.97	6938014.08	0.0133	0.0094
Venus	14283-08-16 11:31 G	6938045.88	6938045.98	6938046.11	0.0133	0.0112
Mercury	14283-10-11 15:21 G	6938102.02	6938102.14	6938102.26	0.0133	0.0076
Mercury	14284-01-07 19:12 G	6938190.17	6938190.30	6938190.43	0.0134	0.0058
Venus	14284-03-29 16:48 G	6938272.03	6938272.20	6938272.40	0.0134	0.0074
Mercury	14284-04-04 23:02 G	6938278.32	6938278.46	6938278.60	0.0134	0.0040
Mercury	14284-07-02 02:52 G	6938366.48	6938366.62	6938366.77	0.0134	0.0022
Mercury	14284-09-28 06:57 G	6938454.64	6938454.79	6938454.93	0.0134	0.0005
Venus	14284-11-10 22:19 G	6938498.23	6938498.43	6938498.65	0.0134	0.0034
Mercury	14284-12-25 10:33 G	6938542.80	6938542.94	6938543.09	0.0134	0.0015
Mercury	14285-03-23 14:24 G	6938630.96	6938631.10	6938631.25	0.0134	0.0032
Mercury	14285-06-19 18:14 G	6938719.13	6938719.26	6938719.40	0.0134	0.0049
Venus	14285-06-25 04:04 G	6938724.45	6938724.67	6938724.89	0.0134	0.0006

Mercury	14285-09-15 21:50 G	6938807.29	6938807.41	6938807.54	0.0134	0.0067
Mercury	14285-12-13 01:40 G	6938895.46	6938895.57	6938895.68	0.0134	0.0084
Venus	14286-02-06 09:36 G	6938950.70	6938950.90	6938951.11	0.0134	0.0046
Mercury	14286-03-11 05:16 G	6938983.63	6938983.72	6938983.82	0.0134	0.0101
Mercury	14286-06-07 09:07 G	6939071.82	6939071.88	6939071.95	0.0134	0.0118
Venus	14286-09-20 15:07 G	6939176.98	6939177.13	6939177.31	0.0134	0.0086
Venus	14287-05-04 21:07 G	6939403.31	6939403.38	6939403.45	0.0134	0.0126
Mars	14305-04-24 11:02 G	6945966.89	6945966.96	6945967.07	0.0141	0.0134
Mars	14307-03-28 09:21 G	6946669.59	6946669.89	6946670.20	0.0142	0.0012
Mars	14309-03-01 00:28 G	6947373.36	6947373.52	6947373.71	0.0143	0.0118
Earth	14316-08-23 11:02 G	6950105.81	6950105.96	6950106.15	0.0145	0.0107
Moon	14316-08-23 13:12 G	6950105.90	6950106.05	6950106.24	0.0145	0.0103 *
Moon	14317-08-28 09:07 G	6950475.65	6950475.88	6950476.12	0.0145	0.0059
Earth	14317-08-28 10:33 G	6950475.72	6950475.94	6950476.19	0.0145	0.0051 *
Earth	14318-09-02 10:19 G	6950845.68	6950845.93	6950846.18	0.0145	0.0005
Moon	14318-09-02 11:45 G	6950845.74	6950845.99	6950846.23	0.0145	0.0012 *
Moon	14319-09-07 09:50 G	6951215.67	6951215.91	6951216.15	0.0145	0.0058
Earth	14319-09-07 10:04 G	6951215.69	6951215.92	6951216.14	0.0145	0.0062 *
Earth	14320-09-11 09:36 G	6951585.76	6951585.90	6951586.05	0.0145	0.0118
Moon	14320-09-11 09:21 G	6951585.77	6951585.89	6951586.05	0.0145	0.0119 *
Venus	14324-07-13 19:12 G	6952987.27	6952987.30	6952987.35	0.0145	0.0142
Mercury	14324-07-27 20:09 G	6953001.28	6953001.34	6953001.43	0.0145	0.0129
Mercury	14324-10-24 02:24 G	6953089.49	6953089.60	6953089.72	0.0145	0.0104
Mercury	14325-01-20 08:24 G	6953177.72	6953177.85	6953178.00	0.0145	0.0079
Venus	14325-02-25 07:12 G	6953213.64	6953213.80	6953213.98	0.0145	0.0092
Mercury	14325-04-18 14:52 G	6953265.96	6953266.12	6953266.27	0.0145	0.0053
Mercury	14325-07-15 21:07 G	6953354.21	6953354.38	6953354.54	0.0145	0.0028
Venus	14325-10-09 19:26 G	6953440.10	6953440.31	6953440.52	0.0145	0.0041
Mercury	14325-10-12 03:21 G	6953442.47	6953442.64	6953442.81	0.0145	0.0002
Mercury	14326-01-08 09:36 G	6953530.74	6953530.90	6953531.07	0.0145	0.0025

Mercury	14326-04-06 16:04 G	6953619.01	6953619.17	6953619.33	0.0145	0.0051
Venus	14326-05-24 07:12 G	6953666.58	6953666.80	6953667.02	0.0145	0.0009
Mercury	14326-07-03 22:19 G	6953707.29	6953707.43	6953707.58	0.0144	0.0077
Mercury	14326-09-30 04:48 G	6953795.59	6953795.70	6953795.83	0.0144	0.0104
Mercury	14326-12-27 11:16 G	6953883.91	6953883.97	6953884.05	0.0144	0.0131
Venus	14327-01-05 18:57 G	6953893.10	6953893.29	6953893.49	0.0144	0.0060
Venus	14327-08-20 06:57 G	6954119.65	6954119.79	6954119.93	0.0144	0.0109
Mars	14345-11-21 01:26 G	6960787.33	6960787.56	6960787.82	0.0137	0.0084
Mars	14347-10-23 23:16 G	6961489.18	6961489.47	6961489.78	0.0136	0.0028
Mars	14349-09-24 05:16 G	6962190.69	6962190.72	6962190.79	0.0135	0.0133
Earth	14357-02-19 16:48 G	6964896.19	6964896.20	6964896.24	0.0133	0.0133
Moon	14357-02-19 20:38 G	6964896.30	6964896.36	6964896.44	0.0133	0.0128
Moon	14358-02-23 22:33 G	6965265.27	6965265.44	6965265.63	0.0133	0.0096
Earth	14358-02-24 02:24 G	6965265.41	6965265.60	6965265.79	0.0133	0.0089 *
Earth	14359-02-28 11:16 G	6965634.74	6965634.97	6965635.22	0.0133	0.0045
Moon	14359-02-28 15:07 G	6965634.89	6965635.13	6965635.38	0.0133	0.0038 *
Moon	14360-03-03 17:02 G	6966003.95	6966004.21	6966004.46	0.0133	0.0007
Earth	14360-03-03 20:24 G	6966004.10	6966004.35	6966004.61	0.0133	0.0002 *
Earth	14361-03-08 05:02 G	6966373.47	6966373.71	6966373.96	0.0133	0.0043
Moon	14361-03-08 08:38 G	6966373.63	6966373.86	6966374.11	0.0133	0.0046 *
Moon	14362-03-12 10:04 G	6966742.72	6966742.92	6966743.12	0.0133	0.0085
Earth	14362-03-12 13:26 G	6966742.88	6966743.06	6966743.27	0.0133	0.0087 *
Earth	14363-03-16 21:50 G	6967112.37	6967112.41	6967112.46	0.0133	0.0130
Moon	14363-03-17 00:57 G	6967112.48	6967112.54	6967112.63	0.0133	0.0127
Mercury	14367-02-10 10:04 G	6968538.89	6968538.92	6968538.98	0.0133	0.0127
Venus	14367-04-16 20:52 G	6968604.34	6968604.37	6968604.43	0.0133	0.0130
Mercury	14367-05-09 14:09 G	6968627.01	6968627.09	6968627.18	0.0133	0.0108
Mercury	14367-08-05 18:14 G	6968715.16	6968715.26	6968715.37	0.0133	0.0090
Mercury	14367-11-01 22:19 G	6968803.30	6968803.43	6968803.55	0.0133	0.0072
Venus	14367-11-29 02:09 G	6968830.45	6968830.59	6968830.77	0.0133	0.0092

Mercury	14368-01-29 02:09 G	6968891.46	6968891.59	6968891.73	0.0133	0.0054
Mercury	14368-04-26 06:00 G	6968979.61	6968979.75	6968979.90	0.0134	0.0036
Venus	14368-07-12 07:55 G	6969056.63	6969056.83	6969057.03	0.0134	0.0052
Mercury	14368-07-23 10:04 G	6969067.77	6969067.92	6969068.06	0.0134	0.0018
Mercury	14368-10-19 13:55 G	6969155.93	6969156.08	6969156.22	0.0134	0.0003
Mercury	14369-01-15 17:45 G	6969244.09	6969244.24	6969244.38	0.0134	0.0018
Venus	14369-02-23 13:26 G	6969282.85	6969283.06	6969283.28	0.0134	0.0012
Mercury	14369-04-13 21:21 G	6969332.26	6969332.39	6969332.54	0.0134	0.0036
Mercury	14369-07-11 01:12 G	6969420.42	6969420.55	6969420.69	0.0134	0.0053
Mercury	14369-10-07 04:48 G	6969508.59	6969508.70	6969508.83	0.0134	0.0071
Venus	14369-10-07 18:57 G	6969509.08	6969509.29	6969509.51	0.0134	0.0028
Mercury	14370-01-03 08:38 G	6969596.76	6969596.86	6969596.97	0.0134	0.0088
Mercury	14370-04-01 12:28 G	6969684.93	6969685.02	6969685.11	0.0134	0.0105
Venus	14370-05-22 00:43 G	6969735.34	6969735.53	6969735.72	0.0134	0.0067
Mercury	14370-06-28 16:04 G	6969773.12	6969773.17	6969773.23	0.0134	0.0122
Venus	14371-01-03 06:14 G	6969961.64	6969961.76	6969961.90	0.0134	0.0107
Mars	14389-12-18 14:09 G	6976885.86	6976886.09	6976886.35	0.0142	0.0085
Mars	14391-11-21 18:00 G	6977588.96	6977589.25	6977589.55	0.0142	0.0041
Earth	14400-08-23 21:36 G	6980787.23	6980787.40	6980787.58	0.0145	0.0103
Moon	14400-08-24 00:14 G	6980787.36	6980787.51	6980787.68	0.0145	0.0108 *
Moon	14401-08-28 18:28 G	6981157.03	6981157.27	6981157.53	0.0145	0.0041
Earth	14401-08-28 21:07 G	6981157.14	6981157.38	6981157.62	0.0145	0.0047 *
Earth	14402-09-02 20:38 G	6981527.11	6981527.36	6981527.61	0.0145	0.0009
Moon	14402-09-02 22:04 G	6981527.17	6981527.42	6981527.66	0.0145	0.0002 *
Moon	14403-09-07 18:43 G	6981897.06	6981897.28	6981897.51	0.0145	0.0071
Earth	14403-09-07 19:55 G	6981897.12	6981897.33	6981897.57	0.0145	0.0067 *
Earth	14404-09-11 19:40 G	6982267.20	6982267.32	6982267.47	0.0145	0.0122
Moon	14404-09-11 19:40 G	6982267.21	6982267.32	6982267.47	0.0145	0.0123 *
Mercury	14408-08-17 03:36 G	6983702.57	6983702.65	6983702.74	0.0145	0.0123
Venus	14408-10-25 13:26 G	6983771.94	6983772.06	6983772.20	0.0145	0.0115

Mercury	14408-11-13 09:36 G	6983790.79	6983790.90	6983791.03	0.0145	0.0098
Mercury	14409-02-09 16:04 G	6983879.02	6983879.17	6983879.31	0.0145	0.0072
Mercury	14409-05-08 22:04 G	6983967.27	6983967.42	6983967.58	0.0145	0.0047
Venus	14409-06-09 01:26 G	6983998.38	6983998.56	6983998.77	0.0145	0.0065
Mercury	14409-08-05 04:19 G	6984055.52	6984055.68	6984055.85	0.0145	0.0021
Mercury	14409-11-01 10:48 G	6984143.78	6984143.95	6984144.12	0.0145	0.0005
Venus	14410-01-21 13:40 G	6984224.86	6984225.07	6984225.29	0.0145	0.0014
Mercury	14410-01-28 17:02 G	6984232.05	6984232.21	6984232.38	0.0145	0.0031
Mercury	14410-04-26 23:16 G	6984320.32	6984320.47	6984320.63	0.0145	0.0058
Mercury	14410-07-24 06:00 G	6984408.61	6984408.75	6984408.89	0.0145	0.0084
Venus	14410-09-05 01:40 G	6984451.36	6984451.57	6984451.78	0.0144	0.0037
Mercury	14410-10-20 12:14 G	6984496.91	6984497.01	6984497.13	0.0144	0.0111
Mercury	14411-01-16 18:43 G	6984585.24	6984585.28	6984585.34	0.0144	0.0138
Venus	14411-04-19 13:40 G	6984677.89	6984678.07	6984678.24	0.0144	0.0087
Venus	14411-12-02 01:12 G	6984904.49	6984904.55	6984904.63	0.0144	0.0136
Mars	14430-07-17 04:19 G	6991706.38	6991706.68	6991706.98	0.0136	0.0035
Mars	14432-06-17 19:55 G	6992408.10	6992408.33	6992408.60	0.0136	0.0075
Earth	14441-02-20 03:21 G	6995577.61	6995577.64	6995577.73	0.0133	0.0130
Moon	14442-02-24 09:21 G	6995946.70	6995946.89	6995947.11	0.0133	0.0079
Earth	14442-02-24 12:57 G	6995946.86	6995947.04	6995947.25	0.0133	0.0086 *
Earth	14443-02-28 22:04 G	6996316.18	6996316.42	6996316.67	0.0133	0.0041
Moon	14443-03-01 01:26 G	6996316.33	6996316.56	6996316.81	0.0133	0.0048 *
Moon	14444-03-04 03:21 G	6996685.39	6996685.64	6996685.90	0.0133	0.0010
Earth	14444-03-04 07:12 G	6996685.55	6996685.80	6996686.06	0.0133	0.0003 *
Earth	14445-03-08 15:36 G	6997054.92	6997055.15	6997055.40	0.0133	0.0048
Moon	14445-03-08 19:12 G	6997055.06	6997055.30	6997055.55	0.0133	0.0043 *
Moon	14446-03-12 20:24 G	6997424.17	6997424.35	6997424.54	0.0133	0.0091
Earth	14446-03-12 23:45 G	6997424.32	6997424.49	6997424.69	0.0133	0.0091 *
Mercury	14451-03-02 17:31 G	6999240.17	6999240.23	6999240.29	0.0133	0.0121
Mercury	14451-05-29 21:21 G	6999328.31	6999328.39	6999328.49	0.0133	0.0103

Venus	14451-07-29 12:14 G	6999388.90	6999389.01	6999389.16	0.0133	0.0109
Mercury	14451-08-26 01:12 G	6999416.45	6999416.55	6999416.68	0.0133	0.0086
Mercury	14451-11-22 05:31 G	6999504.60	6999504.73	6999504.86	0.0133	0.0067
Mercury	14452-02-18 09:21 G	6999592.76	6999592.89	6999593.03	0.0133	0.0049
Venus	14452-03-11 17:45 G	6999615.07	6999615.24	6999615.44	0.0133	0.0069
Mercury	14452-05-16 13:26 G	6999680.91	6999681.06	6999681.20	0.0134	0.0031
Mercury	14452-08-12 17:16 G	6999769.07	6999769.22	6999769.36	0.0134	0.0013
Venus	14452-10-23 23:31 G	6999841.27	6999841.48	6999841.69	0.0134	0.0030
Mercury	14452-11-08 21:07 G	6999857.23	6999857.38	6999857.52	0.0134	0.0005
Mercury	14453-02-05 00:57 G	6999945.39	6999945.54	6999945.68	0.0134	0.0023
Mercury	14453-05-04 04:33 G	7000033.56	7000033.69	7000033.83	0.0134	0.0041
Venus	14453-06-07 05:02 G	7000067.49	7000067.71	7000067.93	0.0134	0.0010
Mercury	14453-07-31 08:24 G	7000121.72	7000121.85	7000121.98	0.0134	0.0058
Mercury	14453-10-27 12:00 G	7000209.89	7000210.00	7000210.13	0.0134	0.0076
Venus	14454-01-19 10:33 G	7000293.75	7000293.94	7000294.15	0.0134	0.0050
Mercury	14454-01-23 15:50 G	7000298.06	7000298.16	7000298.27	0.0134	0.0093
Mercury	14454-04-21 19:26 G	7000386.24	7000386.31	7000386.40	0.0134	0.0110
Mercury	14454-07-18 23:16 G	7000474.43	7000474.47	7000474.52	0.0134	0.0127
Venus	14454-09-02 16:04 G	7000520.02	7000520.17	7000520.35	0.0134	0.0090
Venus	14455-04-16 21:50 G	7000746.37	7000746.41	7000746.48	0.0134	0.0130
Mars	14474-08-13 21:36 G	7007805.11	7007805.40	7007805.71	0.0142	0.0033
Mars	14476-07-17 06:28 G	7008508.54	7008508.77	7008509.00	0.0143	0.0095
Earth	14484-08-24 08:09 G	7011468.67	7011468.84	7011469.04	0.0145	0.0100
Moon	14484-08-24 11:16 G	7011468.80	7011468.97	7011469.17	0.0145	0.0097 *
Moon	14485-08-29 05:16 G	7011838.48	7011838.72	7011838.96	0.0145	0.0051
Earth	14485-08-29 07:55 G	7011838.59	7011838.83	7011839.07	0.0145	0.0043 *
Earth	14486-09-03 07:12 G	7012208.56	7012208.80	7012209.06	0.0145	0.0014
Moon	14486-09-03 09:50 G	7012208.67	7012208.91	7012209.15	0.0145	0.0021 *
Moon	14487-09-08 05:16 G	7012578.49	7012578.72	7012578.96	0.0145	0.0065
Earth	14487-09-08 06:28 G	7012578.57	7012578.77	7012579.01	0.0145	0.0071 *

Earth	14488-09-12 06:14 G	7012948.65	7012948.76	7012948.90	0.0145	0.0127
Moon	14488-09-12 07:55 G	7012948.72	7012948.83	7012948.94	0.0145	0.0129 *
Mercury	14492-06-10 04:48 G	7014315.68	7014315.70	7014315.75	0.0145	0.0142
Venus	14492-06-24 19:40 G	7014330.27	7014330.32	7014330.40	0.0145	0.0138
Mercury	14492-09-06 11:02 G	7014403.87	7014403.96	7014404.06	0.0145	0.0116
Mercury	14492-12-03 17:02 G	7014492.09	7014492.21	7014492.35	0.0145	0.0091
Venus	14493-02-06 07:55 G	7014556.67	7014556.83	7014557.01	0.0145	0.0088
Mercury	14493-03-01 23:16 G	7014580.33	7014580.47	7014580.62	0.0145	0.0066
Mercury	14493-05-29 05:31 G	7014668.57	7014668.73	7014668.89	0.0145	0.0040
Mercury	14493-08-25 11:45 G	7014756.83	7014756.99	7014757.16	0.0145	0.0014
Venus	14493-09-20 20:09 G	7014783.13	7014783.34	7014783.55	0.0145	0.0037
Mercury	14493-11-21 18:00 G	7014845.09	7014845.25	7014845.42	0.0145	0.0013
Mercury	14494-02-18 00:28 G	7014933.36	7014933.52	7014933.68	0.0145	0.0038
Venus	14494-05-05 08:09 G	7015009.62	7015009.84	7015010.06	0.0145	0.0014
Mercury	14494-05-17 06:43 G	7015021.64	7015021.78	7015021.94	0.0145	0.0065
Mercury	14494-08-13 13:12 G	7015109.93	7015110.05	7015110.19	0.0145	0.0091
Mercury	14494-11-09 19:40 G	7015198.23	7015198.32	7015198.43	0.0144	0.0118
Venus	14494-12-17 20:09 G	7015236.14	7015236.34	7015236.53	0.0144	0.0064
Mercury	14495-02-06 02:24 G	7015286.60	7015286.60	7015286.61	0.0144	0.0144
Venus	14495-08-01 08:09 G	7015462.71	7015462.84	7015462.97	0.0144	0.0114
Mars	14513-04-10 01:40 G	7021923.37	7021923.57	7021923.79	0.0137	0.0100
Mars	14515-03-13 04:19 G	7022625.37	7022625.68	7022625.99	0.0136	0.0013
Mars	14517-02-11 14:52 G	7023327.01	7023327.12	7023327.29	0.0135	0.0121
Earth	14525-02-21 14:52 G	7026259.04	7026259.12	7026259.21	0.0133	0.0126
Moon	14525-02-21 18:14 G	7026259.16	7026259.26	7026259.37	0.0133	0.0122 *
Moon	14526-02-25 20:24 G	7026628.18	7026628.35	7026628.56	0.0133	0.0088
Earth	14526-02-26 00:00 G	7026628.31	7026628.50	7026628.71	0.0133	0.0082 *
Earth	14527-03-02 09:07 G	7026997.63	7026997.88	7026998.13	0.0133	0.0037
Moon	14527-03-02 12:28 G	7026997.78	7026998.02	7026998.28	0.0133	0.0031 *
Moon	14528-03-05 14:38 G	7027366.86	7027367.11	7027367.36	0.0133	0.0001

Earth	14528-03-05 18:00 G	7027366.99	7027367.25	7027367.50	0.0133	0.0007 *
Earth	14529-03-10 02:09 G	7027736.36	7027736.59	7027736.83	0.0133	0.0051
Moon	14529-03-10 05:45 G	7027736.51	7027736.74	7027736.98	0.0133	0.0055 *
Moon	14530-03-14 06:28 G	7028105.61	7028105.77	7028105.97	0.0133	0.0093
Earth	14530-03-14 10:19 G	7028105.76	7028105.93	7028106.12	0.0133	0.0095 *
Mercury	14535-03-24 00:28 G	7029941.46	7029941.52	7029941.60	0.0133	0.0117
Venus	14535-03-29 22:19 G	7029947.37	7029947.43	7029947.51	0.0133	0.0126
Mercury	14535-06-20 04:33 G	7030029.60	7030029.69	7030029.80	0.0133	0.0099
Mercury	14535-09-16 08:38 G	7030117.74	7030117.86	7030117.98	0.0133	0.0080
Venus	14535-11-11 03:36 G	7030173.50	7030173.65	7030173.83	0.0133	0.0087
Mercury	14535-12-13 12:28 G	7030205.90	7030206.02	7030206.16	0.0133	0.0063
Mercury	14536-03-10 16:33 G	7030294.05	7030294.19	7030294.33	0.0133	0.0044
Mercury	14536-06-06 20:24 G	7030382.21	7030382.35	7030382.50	0.0133	0.0026
Venus	14536-06-24 09:07 G	7030399.68	7030399.88	7030400.09	0.0133	0.0048
Mercury	14536-09-03 00:14 G	7030470.37	7030470.51	7030470.66	0.0134	0.0009
Mercury	14536-11-30 04:04 G	7030558.53	7030558.67	7030558.82	0.0134	0.0010
Venus	14537-02-05 14:52 G	7030625.90	7030626.12	7030626.34	0.0134	0.0008
Mercury	14537-02-26 07:55 G	7030646.69	7030646.83	7030646.98	0.0134	0.0027
Mercury	14537-05-25 11:45 G	7030734.85	7030734.99	7030735.13	0.0134	0.0045
Mercury	14537-08-21 15:21 G	7030823.02	7030823.14	7030823.28	0.0134	0.0063
Venus	14537-09-19 20:24 G	7030852.14	7030852.35	7030852.56	0.0134	0.0032
Mercury	14537-11-17 19:12 G	7030911.19	7030911.30	7030911.42	0.0134	0.0080
Mercury	14538-02-13 23:02 G	7030999.36	7030999.46	7030999.56	0.0134	0.0097
Venus	14538-05-04 01:55 G	7031078.40	7031078.58	7031078.77	0.0134	0.0071
Mercury	14538-05-13 02:52 G	7031087.54	7031087.62	7031087.69	0.0134	0.0114
Mercury	14538-08-09 06:28 G	7031175.75	7031175.77	7031175.80	0.0134	0.0131
Venus	14538-12-16 07:26 G	7031304.70	7031304.81	7031304.94	0.0134	0.0111
Mars	14557-05-07 06:57 G	7038021.59	7038021.79	7038022.00	0.0141	0.0104
Mars	14559-04-10 03:50 G	7038724.36	7038724.66	7038724.97	0.0142	0.0020
Earth	14568-08-25 18:28 G	7042150.10	7042150.27	7042150.48	0.0145	0.0097

Moon	14568-08-25 21:50 G	7042150.26	7042150.41	7042150.61	0.0145	0.0101 *
Moon	14569-08-30 15:07 G	7042519.88	7042520.13	7042520.38	0.0145	0.0035
Earth	14569-08-30 18:14 G	7042520.03	7042520.26	7042520.51	0.0145	0.0040 *
Earth	14570-09-04 17:45 G	7042889.99	7042890.24	7042890.49	0.0145	0.0017
Moon	14570-09-04 20:09 G	7042890.10	7042890.34	7042890.59	0.0145	0.0010 *
Moon	14571-09-09 14:38 G	7043259.91	7043260.11	7043260.34	0.0145	0.0081
Earth	14571-09-09 17:31 G	7043260.01	7043260.23	7043260.45	0.0145	0.0074 *
Earth	14572-09-13 17:02 G	7043630.11	7043630.21	7043630.32	0.0145	0.0131
Moon	14572-09-13 18:14 G	7043630.17	7043630.26	7043630.39	0.0145	0.0130 *
Mercury	14576-07-01 12:28 G	7045016.96	7045017.02	7045017.08	0.0145	0.0134
Mercury	14576-09-27 18:28 G	7045105.17	7045105.27	7045105.38	0.0145	0.0109
Venus	14576-10-07 14:38 G	7045114.98	7045115.11	7045115.26	0.0145	0.0111
Mercury	14576-12-25 00:28 G	7045193.40	7045193.52	7045193.66	0.0145	0.0084
Mercury	14577-03-23 06:43 G	7045281.63	7045281.78	7045281.94	0.0145	0.0059
Venus	14577-05-22 02:38 G	7045341.42	7045341.61	7045341.82	0.0145	0.0060
Mercury	14577-06-19 12:57 G	7045369.88	7045370.04	7045370.21	0.0145	0.0033
Mercury	14577-09-15 19:26 G	7045458.14	7045458.31	7045458.47	0.0145	0.0007
Mercury	14577-12-13 01:40 G	7045546.40	7045546.57	7045546.74	0.0145	0.0019
Venus	14578-01-03 14:52 G	7045567.91	7045568.12	7045568.34	0.0145	0.0010
Mercury	14578-03-11 07:55 G	7045634.67	7045634.83	7045635.00	0.0145	0.0046
Mercury	14578-06-07 14:24 G	7045722.96	7045723.10	7045723.25	0.0145	0.0072
Venus	14578-08-18 02:52 G	7045794.42	7045794.62	7045794.84	0.0145	0.0042
Mercury	14578-09-03 20:38 G	7045811.25	7045811.36	7045811.50	0.0145	0.0099
Mercury	14578-12-01 03:21 G	7045899.56	7045899.64	7045899.73	0.0145	0.0125
Venus	14579-04-01 14:52 G	7046020.96	7046021.12	7046021.30	0.0144	0.0091
Venus	14579-11-14 02:24 G	7046247.58	7046247.60	7046247.67	0.0144	0.0142
Mars	14597-12-04 06:28 G	7052842.49	7052842.77	7052843.06	0.0137	0.0050
Mars	14599-11-06 04:04 G	7053544.40	7053544.67	7053544.95	0.0136	0.0061
Earth	14609-02-23 02:24 G	7056940.51	7056940.60	7056940.71	0.0133	0.0123
Moon	14609-02-23 05:16 G	7056940.67	7056940.72	7056940.82	0.0133	0.0128 *

Moon	14610-02-27 08:24 G	7057309.66	7057309.85	7057310.08	0.0133	0.0073
Earth	14610-02-27 11:45 G	7057309.79	7057309.99	7057310.20	0.0133	0.0078 *
Earth	14611-03-03 20:24 G	7057679.11	7057679.35	7057679.61	0.0133	0.0034
Moon	14611-03-03 23:45 G	7057679.24	7057679.49	7057679.74	0.0133	0.0040 *
Moon	14612-03-07 01:55 G	7058048.33	7058048.58	7058048.83	0.0133	0.0018
Earth	14612-03-07 05:16 G	7058048.47	7058048.72	7058048.98	0.0133	0.0011 *
Earth	14613-03-11 13:26 G	7058417.83	7058418.06	7058418.30	0.0133	0.0055
Moon	14613-03-11 16:33 G	7058417.96	7058418.19	7058418.44	0.0133	0.0050 *
Moon	14614-03-15 18:14 G	7058787.10	7058787.26	7058787.43	0.0133	0.0100
Earth	14614-03-15 21:21 G	7058787.24	7058787.39	7058787.58	0.0133	0.0099 *
Mercury	14619-01-16 03:50 G	7060554.64	7060554.66	7060554.70	0.0133	0.0130
Mercury	14619-04-14 07:55 G	7060642.76	7060642.83	7060642.92	0.0133	0.0111
Mercury	14619-07-11 11:45 G	7060730.90	7060730.99	7060731.11	0.0133	0.0094
Venus	14619-07-12 14:09 G	7060731.97	7060732.09	7060732.24	0.0133	0.0103
Mercury	14619-10-07 16:04 G	7060819.05	7060819.17	7060819.29	0.0133	0.0075
Mercury	14620-01-03 19:55 G	7060907.20	7060907.33	7060907.47	0.0133	0.0057
Venus	14620-02-23 19:55 G	7060958.14	7060958.33	7060958.53	0.0133	0.0064
Mercury	14620-04-01 00:00 G	7060995.36	7060995.50	7060995.64	0.0133	0.0039
Mercury	14620-06-28 03:50 G	7061083.52	7061083.66	7061083.81	0.0133	0.0021
Mercury	14620-09-24 07:40 G	7061171.68	7061171.82	7061171.97	0.0134	0.0003
Venus	14620-10-07 01:26 G	7061184.35	7061184.56	7061184.78	0.0134	0.0025
Mercury	14620-12-21 11:31 G	7061259.84	7061259.98	7061260.13	0.0134	0.0015
Mercury	14621-03-19 15:21 G	7061348.00	7061348.14	7061348.28	0.0134	0.0033
Venus	14621-05-21 06:57 G	7061410.57	7061410.79	7061411.01	0.0134	0.0015
Mercury	14621-06-15 19:12 G	7061436.17	7061436.30	7061436.44	0.0134	0.0050
Mercury	14621-09-11 22:48 G	7061524.33	7061524.45	7061524.58	0.0134	0.0068
Mercury	14621-12-09 02:38 G	7061612.50	7061612.61	7061612.73	0.0134	0.0085
Venus	14622-01-02 12:14 G	7061636.83	7061637.01	7061637.22	0.0134	0.0055
Mercury	14622-03-07 06:14 G	7061700.68	7061700.76	7061700.86	0.0134	0.0103
Mercury	14622-06-03 10:04 G	7061788.86	7061788.92	7061788.99	0.0134	0.0120

Venus	14622-08-16 18:00 G	7061863.10	7061863.25	7061863.41	0.0134	0.0094
Venus	14623-03-30 23:31 G	7062089.48	7062089.48	7062089.51	0.0134	0.0134
Mars	14642-01-01 12:14 G	7068940.73	7068941.01	7068941.30	0.0142	0.0053
Mars	14643-12-05 12:57 G	7069643.79	7069644.04	7069644.32	0.0142	0.0074
Earth	14652-08-27 05:16 G	7072831.55	7072831.72	7072831.93	0.0145	0.0094
Moon	14652-08-27 08:52 G	7072831.69	7072831.87	7072832.07	0.0145	0.0092 *
Moon	14653-09-01 01:40 G	7073201.33	7073201.57	7073201.81	0.0145	0.0044
Earth	14653-09-01 04:48 G	7073201.47	7073201.70	7073201.96	0.0145	0.0038 *
Earth	14654-09-06 04:19 G	7073571.44	7073571.68	7073571.94	0.0145	0.0021
Moon	14654-09-06 07:40 G	7073571.58	7073571.82	7073572.07	0.0145	0.0028 *
Moon	14655-09-11 01:12 G	7073941.34	7073941.55	7073941.79	0.0145	0.0072
Earth	14655-09-11 04:04 G	7073941.46	7073941.67	7073941.89	0.0145	0.0078 *
Earth	14656-09-15 03:36 G	7074311.57	7074311.65	7074311.76	0.0145	0.0135
Moon	14656-09-15 06:00 G	7074311.70	7074311.75	7074311.85	0.0145	0.0139 *
Venus	14660-06-07 21:07 G	7075673.31	7075673.38	7075673.48	0.0145	0.0133
Mercury	14660-07-22 19:55 G	7075718.26	7075718.33	7075718.42	0.0145	0.0127
Mercury	14660-10-19 01:55 G	7075806.47	7075806.58	7075806.71	0.0145	0.0102
Mercury	14661-01-15 08:09 G	7075894.71	7075894.84	7075894.99	0.0145	0.0077
Venus	14661-01-20 09:36 G	7075899.73	7075899.90	7075900.08	0.0145	0.0082
Mercury	14661-04-13 14:24 G	7075982.95	7075983.10	7075983.26	0.0145	0.0051
Mercury	14661-07-10 20:38 G	7076071.20	7076071.36	7076071.53	0.0145	0.0025
Venus	14661-09-03 21:50 G	7076126.20	7076126.41	7076126.63	0.0145	0.0032
Mercury	14661-10-07 02:52 G	7076159.45	7076159.62	7076159.79	0.0145	0.0002
Mercury	14662-01-03 09:07 G	7076247.72	7076247.88	7076248.05	0.0145	0.0027
Mercury	14662-04-01 15:36 G	7076335.99	7076336.15	7076336.31	0.0145	0.0053
Venus	14662-04-18 10:04 G	7076352.70	7076352.92	7076353.13	0.0145	0.0019
Mercury	14662-06-28 21:50 G	7076424.28	7076424.41	7076424.56	0.0145	0.0080
Mercury	14662-09-25 04:33 G	7076512.57	7076512.69	7076512.80	0.0145	0.0106
Venus	14662-11-30 21:36 G	7076579.23	7076579.40	7076579.61	0.0145	0.0070
Mercury	14662-12-22 10:48 G	7076600.90	7076600.95	7076601.03	0.0145	0.0133

Venus	14663-07-15 09:36 G	7076805.80	7076805.90	7076806.04	0.0144	0.0120
Mars	14680-08-28 01:26 G	7083059.41	7083059.56	7083059.73	0.0137	0.0117
Mars	14682-07-31 09:07 G	7083761.57	7083761.88	7083762.19	0.0136	0.0001
Mars	14684-07-02 02:24 G	7084463.43	7084463.60	7084463.80	0.0136	0.0108
Earth	14693-02-23 13:40 G	7087621.98	7087622.07	7087622.20	0.0133	0.0120
Moon	14693-02-23 16:19 G	7087622.07	7087622.18	7087622.32	0.0133	0.0117 *
Moon	14694-02-27 20:09 G	7087991.15	7087991.34	7087991.55	0.0133	0.0081
Earth	14694-02-27 22:48 G	7087991.25	7087991.45	7087991.68	0.0133	0.0075 *
Earth	14695-03-04 07:40 G	7088360.58	7088360.82	7088361.08	0.0133	0.0031
Moon	14695-03-04 10:48 G	7088360.70	7088360.95	7088361.21	0.0133	0.0023 *
Moon	14696-03-07 13:40 G	7088729.82	7088730.07	7088730.32	0.0133	0.0008
Earth	14696-03-07 16:19 G	7088729.93	7088730.18	7088730.44	0.0133	0.0015 *
Earth	14697-03-12 00:14 G	7089099.29	7089099.51	7089099.75	0.0133	0.0059
Moon	14697-03-12 03:50 G	7089099.43	7089099.66	7089099.89	0.0133	0.0063 *
Moon	14698-03-16 05:45 G	7089468.58	7089468.74	7089468.91	0.0133	0.0099
Earth	14698-03-16 08:24 G	7089468.70	7089468.85	7089469.03	0.0133	0.0103 *
Mercury	14703-02-06 11:02 G	7091255.92	7091255.96	7091256.03	0.0133	0.0124
Venus	14703-03-13 00:43 G	7091290.45	7091290.53	7091290.64	0.0133	0.0120
Mercury	14703-05-05 15:21 G	7091344.05	7091344.14	7091344.23	0.0133	0.0106
Mercury	14703-08-01 19:12 G	7091432.20	7091432.30	7091432.42	0.0133	0.0088
Venus	14703-10-25 06:14 G	7091516.60	7091516.76	7091516.94	0.0133	0.0080
Mercury	14703-10-28 23:16 G	7091520.35	7091520.47	7091520.60	0.0133	0.0069
Mercury	14704-01-25 03:21 G	7091608.50	7091608.64	7091608.78	0.0133	0.0051
Mercury	14704-04-22 07:12 G	7091696.66	7091696.80	7091696.95	0.0133	0.0033
Venus	14704-06-07 11:45 G	7091742.79	7091742.99	7091743.20	0.0133	0.0041
Mercury	14704-07-19 11:16 G	7091784.82	7091784.97	7091785.11	0.0133	0.0015
Mercury	14704-10-15 15:07 G	7091872.98	7091873.13	7091873.28	0.0133	0.0003
Mercury	14705-01-11 18:57 G	7091961.14	7091961.29	7091961.43	0.0133	0.0020
Venus	14705-01-19 17:31 G	7091969.01	7091969.23	7091969.45	0.0134	0.0003
Mercury	14705-04-09 22:48 G	7092049.31	7092049.45	7092049.59	0.0134	0.0038

Mercury	14705-07-07 02:24 G	7092137.47	7092137.60	7092137.74	0.0134	0.0056
Venus	14705-09-02 22:48 G	7092195.25	7092195.45	7092195.67	0.0134	0.0038
Mercury	14705-10-03 06:14 G	7092225.64	7092225.76	7092225.88	0.0134	0.0073
Mercury	14705-12-30 09:50 G	7092313.81	7092313.91	7092314.03	0.0134	0.0091
Mercury	14706-03-28 13:40 G	7092401.99	7092402.07	7092402.16	0.0134	0.0108
Venus	14706-04-17 04:04 G	7092421.51	7092421.67	7092421.86	0.0134	0.0077
Mercury	14706-06-24 17:16 G	7092490.18	7092490.22	7092490.28	0.0134	0.0125
Venus	14706-11-29 09:50 G	7092647.81	7092647.91	7092648.02	0.0134	0.0116
Mars	14724-09-25 02:09 G	7099157.46	7099157.59	7099157.75	0.0141	0.0123
Mars	14726-08-28 16:33 G	7099859.88	7099860.19	7099860.49	0.0142	0.0002
Mars	14728-07-31 22:19 G	7100563.32	7100563.43	7100563.59	0.0143	0.0128
Earth	14736-08-28 15:21 G	7103512.96	7103513.14	7103513.35	0.0145	0.0091
Moon	14736-08-28 18:57 G	7103513.12	7103513.29	7103513.50	0.0145	0.0094 *
Moon	14737-09-02 11:31 G	7103882.74	7103882.98	7103883.23	0.0145	0.0029
Earth	14737-09-02 14:52 G	7103882.89	7103883.12	7103883.38	0.0145	0.0035 *
Earth	14738-09-07 14:24 G	7104252.86	7104253.10	7104253.36	0.0145	0.0024
Moon	14738-09-07 17:45 G	7104253.00	7104253.24	7104253.49	0.0145	0.0016 *
Moon	14739-09-12 10:48 G	7104622.76	7104622.95	7104623.17	0.0145	0.0088
Earth	14739-09-12 14:24 G	7104622.90	7104623.10	7104623.31	0.0145	0.0081 *
Earth	14740-09-16 14:09 G	7104993.02	7104993.09	7104993.18	0.0145	0.0138
Moon	14740-09-16 16:48 G	7104993.12	7104993.20	7104993.29	0.0145	0.0135 *
Mercury	14744-05-16 21:36 G	7106331.39	7106331.40	7106331.41	0.0145	0.0145
Mercury	14744-08-13 03:21 G	7106419.56	7106419.64	7106419.74	0.0145	0.0120
Venus	14744-09-20 16:19 G	7106458.03	7106458.18	7106458.33	0.0145	0.0105
Mercury	14744-11-09 09:21 G	7106507.78	7106507.89	7106508.03	0.0145	0.0095
Mercury	14745-02-05 15:50 G	7106596.01	7106596.16	7106596.30	0.0145	0.0069
Mercury	14745-05-04 21:50 G	7106684.26	7106684.41	7106684.58	0.0145	0.0044
Venus	14745-05-05 04:19 G	7106684.49	7106684.68	7106684.89	0.0145	0.0054 *
Mercury	14745-08-01 04:19 G	7106772.51	7106772.68	7106772.84	0.0145	0.0018
Mercury	14745-10-28 10:33 G	7106860.77	7106860.94	7106861.10	0.0145	0.0008

Venus	14745-12-17 16:48 G	7106910.98	7106911.20	7106911.42	0.0145	0.0004
Mercury	14746-01-24 16:48 G	7106949.04	7106949.20	7106949.36	0.0145	0.0034
Mercury	14746-04-22 23:02 G	7107037.31	7107037.46	7107037.62	0.0145	0.0061
Mercury	14746-07-20 05:16 G	7107125.60	7107125.72	7107125.87	0.0145	0.0088
Venus	14746-08-01 05:02 G	7107137.50	7107137.71	7107137.92	0.0145	0.0047
Mercury	14746-10-16 12:00 G	7107213.90	7107214.00	7107214.11	0.0145	0.0114
Mercury	14747-01-12 18:28 G	7107302.24	7107302.27	7107302.31	0.0145	0.0141
Venus	14747-03-15 17:02 G	7107364.05	7107364.21	7107364.37	0.0145	0.0097
Mars	14765-04-24 08:24 G	7113978.59	7113978.85	7113979.13	0.0137	0.0066
Mars	14767-03-27 12:14 G	7114680.72	7114681.01	7114681.30	0.0136	0.0047
Earth	14777-02-25 02:09 G	7118303.47	7118303.59	7118303.72	0.0133	0.0116
Moon	14777-02-25 04:33 G	7118303.58	7118303.69	7118303.81	0.0133	0.0119 *
Moon	14778-03-01 08:52 G	7118672.66	7118672.87	7118673.10	0.0133	0.0066
Earth	14778-03-01 11:02 G	7118672.76	7118672.96	7118673.19	0.0133	0.0071 *
Earth	14779-03-05 19:55 G	7119042.08	7119042.33	7119042.58	0.0133	0.0026
Moon	14779-03-05 22:04 G	7119042.18	7119042.42	7119042.69	0.0133	0.0033 *
Moon	14780-03-09 01:40 G	7119411.32	7119411.57	7119411.82	0.0133	0.0025
Earth	14780-03-09 04:19 G	7119411.43	7119411.68	7119411.94	0.0133	0.0018 *
Earth	14781-03-13 12:14 G	7119780.80	7119781.01	7119781.25	0.0133	0.0063
Moon	14781-03-13 14:52 G	7119780.89	7119781.12	7119781.37	0.0133	0.0057 *
Moon	14782-03-17 17:45 G	7120150.11	7120150.24	7120150.39	0.0133	0.0109
Earth	14782-03-17 20:24 G	7120150.22	7120150.35	7120150.52	0.0133	0.0107 *
Mercury	14787-02-26 18:43 G	7121957.22	7121957.28	7121957.36	0.0133	0.0118
Mercury	14787-05-25 22:48 G	7122045.36	7122045.45	7122045.56	0.0133	0.0099
Venus	14787-06-24 17:16 G	7122075.09	7122075.22	7122075.39	0.0133	0.0096
Mercury	14787-08-22 02:52 G	7122133.51	7122133.62	7122133.74	0.0133	0.0081
Mercury	14787-11-18 06:57 G	7122221.66	7122221.79	7122221.92	0.0133	0.0063
Venus	14788-02-05 23:02 G	7122301.27	7122301.46	7122301.66	0.0133	0.0057
Mercury	14788-02-14 11:02 G	7122309.82	7122309.96	7122310.10	0.0133	0.0045
Mercury	14788-05-12 14:52 G	7122397.97	7122398.12	7122398.26	0.0133	0.0027

Mercury	14788-08-08 18:43 G	7122486.14	7122486.28	7122486.43	0.0133	0.0009
Venus	14788-09-19 04:33 G	7122527.48	7122527.69	7122527.91	0.0133	0.0018
Mercury	14788-11-04 22:33 G	7122574.30	7122574.44	7122574.59	0.0133	0.0010
Mercury	14789-02-01 02:24 G	7122662.46	7122662.60	7122662.75	0.0133	0.0027
Mercury	14789-04-30 06:14 G	7122750.63	7122750.76	7122750.90	0.0134	0.0044
Venus	14789-05-03 09:50 G	7122753.70	7122753.91	7122754.13	0.0134	0.0022
Mercury	14789-07-27 10:04 G	7122838.79	7122838.92	7122839.05	0.0134	0.0062
Mercury	14789-10-23 13:40 G	7122926.96	7122927.07	7122927.20	0.0134	0.0080
Venus	14789-12-15 15:21 G	7122979.95	7122980.14	7122980.34	0.0134	0.0061
Mercury	14790-01-19 17:31 G	7123015.14	7123015.23	7123015.33	0.0134	0.0097
Mercury	14790-04-17 21:07 G	7123103.32	7123103.38	7123103.46	0.0134	0.0114
Mercury	14790-07-15 00:43 G	7123191.52	7123191.53	7123191.57	0.0134	0.0131
Venus	14790-07-29 20:52 G	7123206.23	7123206.37	7123206.52	0.0134	0.0100
Mars	14809-05-21 07:26 G	7130076.56	7130076.81	7130077.08	0.0141	0.0073
Mars	14811-04-24 01:26 G	7130779.29	7130779.56	7130779.86	0.0142	0.0052
Moon	14819-08-25 00:00 G	7133824.47	7133824.50	7133824.58	0.0145	0.0141
Earth	14819-08-25 03:36 G	7133824.64	7133824.65	7133824.70	0.0145	0.0144
Earth	14820-08-29 02:52 G	7134194.43	7134194.62	7134194.83	0.0145	0.0088
Moon	14820-08-29 06:28 G	7134194.57	7134194.77	7134194.97	0.0145	0.0087 *
Moon	14821-09-02 22:33 G	7134564.21	7134564.44	7134564.69	0.0145	0.0037
Earth	14821-09-03 02:24 G	7134564.36	7134564.60	7134564.85	0.0145	0.0030 *
Earth	14822-09-08 01:55 G	7134934.34	7134934.58	7134934.83	0.0145	0.0027
Moon	14822-09-08 05:31 G	7134934.49	7134934.73	7134934.98	0.0145	0.0035 *
Moon	14823-09-12 22:33 G	7135304.23	7135304.44	7135304.66	0.0145	0.0078
Earth	14823-09-13 01:26 G	7135304.37	7135304.56	7135304.78	0.0145	0.0086 *
Earth	14824-09-17 01:40 G	7135674.52	7135674.57	7135674.63	0.0145	0.0142
Venus	14828-05-20 22:33 G	7137016.36	7137016.44	7137016.57	0.0145	0.0128
Mercury	14828-06-06 05:02 G	7137032.67	7137032.71	7137032.77	0.0145	0.0137
Mercury	14828-09-02 11:02 G	7137120.87	7137120.96	7137121.07	0.0145	0.0112
Mercury	14828-11-29 17:02 G	7137209.09	7137209.21	7137209.35	0.0145	0.0088

Venus	14829-01-02 11:16 G	7137242.79	7137242.97	7137243.16	0.0145	0.0076
Mercury	14829-02-25 23:31 G	7137297.33	7137297.48	7137297.63	0.0145	0.0061
Mercury	14829-05-25 05:31 G	7137385.57	7137385.73	7137385.90	0.0145	0.0036
Venus	14829-08-16 23:45 G	7137469.28	7137469.49	7137469.71	0.0145	0.0026
Mercury	14829-08-21 11:45 G	7137473.83	7137473.99	7137474.16	0.0145	0.0011
Mercury	14829-11-17 18:14 G	7137562.09	7137562.26	7137562.42	0.0145	0.0016
Mercury	14830-02-14 00:28 G	7137650.36	7137650.52	7137650.68	0.0145	0.0042
Venus	14830-03-31 12:00 G	7137695.79	7137696.00	7137696.21	0.0145	0.0025
Mercury	14830-05-13 06:43 G	7137738.64	7137738.78	7137738.94	0.0145	0.0069
Mercury	14830-08-09 12:57 G	7137826.93	7137827.04	7137827.18	0.0145	0.0096
Mercury	14830-11-05 19:40 G	7137915.24	7137915.32	7137915.42	0.0145	0.0122
Venus	14830-11-13 00:00 G	7137922.32	7137922.50	7137922.69	0.0145	0.0075
Venus	14831-06-27 12:00 G	7138148.90	7138149.00	7138149.11	0.0145	0.0125
Mars	14848-01-16 00:00 G	7144195.45	7144195.50	7144195.58	0.0138	0.0134
Mars	14849-12-18 14:38 G	7144897.80	7144898.11	7144898.42	0.0137	0.0017
Mars	14851-11-20 14:38 G	7145599.90	7145600.11	7145600.34	0.0136	0.0095
Earth	14861-02-25 14:24 G	7148984.97	7148985.10	7148985.24	0.0133	0.0112
Moon	14861-02-25 15:50 G	7148985.02	7148985.16	7148985.32	0.0133	0.0110 *
Moon	14862-03-01 21:36 G	7149354.19	7149354.40	7149354.61	0.0133	0.0072
Earth	14862-03-01 23:02 G	7149354.26	7149354.46	7149354.70	0.0133	0.0067 *
Earth	14863-03-06 07:55 G	7149723.58	7149723.83	7149724.09	0.0133	0.0022
Moon	14863-03-06 10:04 G	7149723.66	7149723.92	7149724.19	0.0133	0.0015 *
Moon	14864-03-09 14:38 G	7150092.86	7150093.11	7150093.36	0.0133	0.0016
Earth	14864-03-09 16:19 G	7150092.93	7150093.18	7150093.44	0.0133	0.0023 *
Earth	14865-03-14 00:28 G	7150462.30	7150462.52	7150462.74	0.0133	0.0067
Moon	14865-03-14 03:07 G	7150462.41	7150462.63	7150462.85	0.0133	0.0072 *
Moon	14866-03-18 06:14 G	7150831.63	7150831.76	7150831.93	0.0133	0.0108
Earth	14866-03-18 08:09 G	7150831.73	7150831.84	7150832.01	0.0133	0.0112 *
Mercury	14870-12-20 22:19 G	7152570.40	7152570.43	7152570.47	0.0133	0.0129
Venus	14871-02-22 04:48 G	7152633.59	7152633.70	7152633.82	0.0133	0.0111

Mercury	14871-03-19 02:24 G	7152658.52	7152658.60	7152658.68	0.0133	0.0111
Mercury	14871-06-15 06:14 G	7152746.67	7152746.76	7152746.88	0.0133	0.0093
Mercury	14871-09-11 10:33 G	7152834.82	7152834.94	7152835.06	0.0133	0.0075
Venus	14871-10-06 09:50 G	7152859.74	7152859.91	7152860.11	0.0133	0.0073
Mercury	14871-12-08 14:24 G	7152922.97	7152923.10	7152923.24	0.0133	0.0057
Mercury	14872-03-05 18:28 G	7153011.13	7153011.27	7153011.41	0.0133	0.0039
Venus	14872-05-19 15:21 G	7153085.94	7153086.14	7153086.36	0.0133	0.0034
Mercury	14872-06-01 22:19 G	7153099.29	7153099.43	7153099.58	0.0133	0.0021
Mercury	14872-08-29 02:09 G	7153187.45	7153187.59	7153187.74	0.0133	0.0004
Mercury	14872-11-25 06:00 G	7153275.61	7153275.75	7153275.90	0.0133	0.0016
Venus	14872-12-31 20:52 G	7153312.15	7153312.37	7153312.59	0.0133	0.0005
Mercury	14873-02-21 09:50 G	7153363.77	7153363.91	7153364.06	0.0133	0.0033
Mercury	14873-05-20 13:40 G	7153451.94	7153452.07	7153452.21	0.0133	0.0050
Venus	14873-08-15 02:09 G	7153538.39	7153538.59	7153538.80	0.0134	0.0045
Mercury	14873-08-16 17:31 G	7153540.11	7153540.23	7153540.36	0.0134	0.0067
Mercury	14873-11-12 21:21 G	7153628.28	7153628.39	7153628.50	0.0134	0.0085
Mercury	14874-02-09 01:12 G	7153716.45	7153716.55	7153716.64	0.0134	0.0102
Venus	14874-03-29 07:26 G	7153764.65	7153764.81	7153764.99	0.0134	0.0084
Mercury	14874-05-08 04:48 G	7153804.64	7153804.70	7153804.76	0.0134	0.0119
Venus	14874-11-10 12:43 G	7153990.97	7153991.03	7153991.13	0.0134	0.0123
Mars	14894-01-14 11:31 G	7160995.69	7160995.98	7160996.29	0.0142	0.0022
Mars	14895-12-18 11:16 G	7161698.79	7161698.97	7161699.20	0.0142	0.0107
Moon	14903-08-26 11:31 G	7164505.97	7164505.98	7164506.01	0.0145	0.0144
Earth	14903-08-26 14:24 G	7164506.05	7164506.10	7164506.17	0.0145	0.0140
Earth	14904-08-30 13:12 G	7164875.86	7164876.05	7164876.27	0.0145	0.0084
Moon	14904-08-30 16:48 G	7164876.01	7164876.20	7164876.42	0.0145	0.0086 *
Moon	14905-09-04 09:50 G	7165245.66	7165245.91	7165246.15	0.0145	0.0023
Earth	14905-09-04 13:12 G	7165245.80	7165246.05	7165246.30	0.0145	0.0026 *
Earth	14906-09-09 12:28 G	7165615.78	7165616.02	7165616.28	0.0145	0.0032
Moon	14906-09-09 16:19 G	7165615.93	7165616.18	7165616.43	0.0145	0.0024 *

Moon	14907-09-14 09:07 G	7165985.69	7165985.88	7165986.07	0.0146	0.0097
Earth	14907-09-14 12:28 G	7165985.84	7165986.02	7165986.23	0.0146	0.0089 *
Moon	14908-09-18 15:36 G	7166356.13	7166356.15	7166356.22	0.0146	0.0143
Mercury	14912-06-27 12:43 G	7167733.97	7167734.03	7167734.11	0.0145	0.0130
Venus	14912-09-02 18:28 G	7167801.11	7167801.27	7167801.43	0.0145	0.0098
Mercury	14912-09-23 18:57 G	7167822.18	7167822.29	7167822.40	0.0145	0.0104
Mercury	14912-12-21 00:57 G	7167910.40	7167910.54	7167910.68	0.0145	0.0079
Mercury	14913-03-19 06:57 G	7167998.64	7167998.79	7167998.95	0.0145	0.0054
Venus	14913-04-17 06:28 G	7168027.58	7168027.77	7168027.99	0.0145	0.0048
Mercury	14913-06-15 13:12 G	7168086.89	7168087.05	7168087.22	0.0145	0.0028
Mercury	14913-09-11 19:26 G	7168175.15	7168175.31	7168175.48	0.0145	0.0005
Venus	14913-11-29 18:57 G	7168254.07	7168254.29	7168254.51	0.0145	0.0003
Mercury	14913-12-09 01:55 G	7168263.41	7168263.58	7168263.74	0.0145	0.0024
Mercury	14914-03-07 08:09 G	7168351.68	7168351.84	7168352.00	0.0145	0.0050
Mercury	14914-06-03 14:24 G	7168439.96	7168440.10	7168440.25	0.0145	0.0077
Venus	14914-07-14 07:12 G	7168480.60	7168480.80	7168481.00	0.0145	0.0053
Mercury	14914-08-30 20:52 G	7168528.26	7168528.37	7168528.49	0.0145	0.0103
Mercury	14914-11-27 03:21 G	7168616.57	7168616.64	7168616.72	0.0145	0.0130
Venus	14915-02-25 19:12 G	7168707.15	7168707.30	7168707.46	0.0145	0.0103
Mars	14932-09-11 11:45 G	7175114.75	7175114.99	7175115.25	0.0137	0.0083
Mars	14934-08-14 21:50 G	7175817.12	7175817.41	7175817.72	0.0136	0.0034
Jupiter	14939-05-23 15:50 G	7177559.77	7177560.16	7177560.63	0.0135	0.0075
Earth	14945-02-27 02:52 G	7179666.49	7179666.62	7179666.79	0.0133	0.0107
Moon	14945-02-27 04:04 G	7179666.54	7179666.67	7179666.85	0.0133	0.0110 *
Moon	14946-03-03 10:48 G	7180035.74	7180035.95	7180036.19	0.0133	0.0058
Earth	14946-03-03 12:00 G	7180035.78	7180036.00	7180036.24	0.0133	0.0062 *
Earth	14947-03-07 20:38 G	7180405.11	7180405.36	7180405.62	0.0133	0.0017
Moon	14947-03-07 21:50 G	7180405.16	7180405.41	7180405.68	0.0133	0.0024 *
Moon	14948-03-11 02:52 G	7180774.40	7180774.62	7180774.88	0.0133	0.0035
Earth	14948-03-11 05:02 G	7180774.46	7180774.71	7180774.96	0.0133	0.0027 *

Earth	14949-03-15 13:12 G	7181143.84	7181144.05	7181144.27	0.0133	0.0072
Moon	14949-03-15 14:24 G	7181143.88	7181144.10	7181144.34	0.0133	0.0066 *
Moon	14950-03-19 18:57 G	7181513.21	7181513.29	7181513.42	0.0133	0.0120
Earth	14950-03-19 21:21 G	7181513.28	7181513.39	7181513.52	0.0133	0.0116 *
Venus	14954-10-23 16:04 G	7183192.13	7183192.17	7183192.25	0.0133	0.0127
Mercury	14955-01-11 06:14 G	7183271.70	7183271.76	7183271.81	0.0133	0.0122
Mercury	14955-04-09 10:04 G	7183359.83	7183359.92	7183360.02	0.0133	0.0104
Venus	14955-06-06 21:36 G	7183418.25	7183418.40	7183418.57	0.0133	0.0088
Mercury	14955-07-06 14:09 G	7183447.98	7183448.09	7183448.21	0.0133	0.0086
Mercury	14955-10-02 18:00 G	7183536.13	7183536.25	7183536.39	0.0133	0.0068
Mercury	14955-12-29 22:04 G	7183624.29	7183624.42	7183624.56	0.0133	0.0050
Venus	14956-01-19 03:07 G	7183644.43	7183644.63	7183644.84	0.0133	0.0049
Mercury	14956-03-27 01:55 G	7183712.44	7183712.58	7183712.73	0.0133	0.0033
Mercury	14956-06-23 06:00 G	7183800.60	7183800.75	7183800.90	0.0133	0.0014
Venus	14956-09-01 08:38 G	7183870.64	7183870.86	7183871.07	0.0133	0.0011
Mercury	14956-09-19 09:50 G	7183888.77	7183888.91	7183889.06	0.0133	0.0005
Mercury	14956-12-16 13:40 G	7183976.93	7183977.07	7183977.22	0.0133	0.0022
Mercury	14957-03-14 17:31 G	7184065.09	7184065.23	7184065.37	0.0133	0.0039
Venus	14957-04-15 13:40 G	7184096.86	7184097.07	7184097.29	0.0133	0.0029
Mercury	14957-06-10 21:21 G	7184153.26	7184153.39	7184153.52	0.0134	0.0057
Mercury	14957-09-07 01:12 G	7184241.43	7184241.55	7184241.67	0.0134	0.0074
Venus	14957-11-27 18:57 G	7184323.11	7184323.29	7184323.48	0.0134	0.0068
Mercury	14957-12-04 04:48 G	7184329.60	7184329.70	7184329.81	0.0134	0.0091
Mercury	14958-03-02 08:24 G	7184417.78	7184417.85	7184417.94	0.0134	0.0109
Mercury	14958-05-29 12:14 G	7184505.97	7184506.01	7184506.06	0.0134	0.0126
Venus	14958-07-12 00:14 G	7184549.39	7184549.51	7184549.65	0.0134	0.0107
Mars	14976-10-08 09:36 G	7191212.67	7191212.90	7191213.13	0.0141	0.0091
Mars	14978-09-10 22:33 G	7191915.14	7191915.44	7191915.73	0.0142	0.0032
Moon	14987-08-27 00:00 G	7195187.41	7195187.50	7195187.61	0.0145	0.0132
Earth	14987-08-27 02:38 G	7195187.55	7195187.61	7195187.72	0.0145	0.0137 *

Earth	14988-08-31 01:55 G	7195557.38	7195557.58	7195557.80	0.0145	0.0080
Moon	14988-08-31 05:02 G	7195557.50	7195557.71	7195557.93	0.0145	0.0079 *
Moon	14989-09-04 22:04 G	7195927.18	7195927.42	7195927.67	0.0145	0.0027
Earth	14989-09-05 01:40 G	7195927.32	7195927.57	7195927.82	0.0145	0.0022 *
Earth	14990-09-10 01:12 G	7196297.31	7196297.55	7196297.80	0.0145	0.0036
Moon	14990-09-10 04:33 G	7196297.46	7196297.69	7196297.94	0.0145	0.0044 *
Moon	14991-09-14 21:50 G	7196667.22	7196667.41	7196667.62	0.0146	0.0087
Earth	14991-09-15 01:12 G	7196667.37	7196667.55	7196667.75	0.0146	0.0095 *
Venus	14996-05-03 01:40 G	7198359.46	7198359.57	7198359.70	0.0145	0.0120
Mercury	14996-07-17 20:38 G	7198435.28	7198435.36	7198435.45	0.0145	0.0121
Mercury	14996-10-14 02:38 G	7198523.50	7198523.61	7198523.74	0.0145	0.0096
Venus	14996-12-15 13:55 G	7198585.90	7198586.08	7198586.28	0.0145	0.0070
Mercury	14997-01-10 08:38 G	7198611.73	7198611.86	7198612.01	0.0145	0.0071
Mercury	14997-04-08 14:52 G	7198699.97	7198700.12	7198700.28	0.0145	0.0046
Mercury	14997-07-05 21:07 G	7198788.22	7198788.38	7198788.55	0.0145	0.0020
Venus	14997-07-30 02:38 G	7198812.39	7198812.61	7198812.83	0.0145	0.0019
Mercury	14997-10-02 03:21 G	7198876.48	7198876.64	7198876.81	0.0145	0.0008
Mercury	14997-12-29 09:36 G	7198964.74	7198964.90	7198965.07	0.0145	0.0033
Venus	14998-03-13 14:52 G	7199038.90	7199039.12	7199039.33	0.0145	0.0031
Mercury	14998-03-27 16:04 G	7199053.02	7199053.17	7199053.33	0.0145	0.0059
Mercury	14998-06-23 22:33 G	7199141.30	7199141.44	7199141.57	0.0145	0.0085
Mercury	14998-09-20 04:48 G	7199229.60	7199229.70	7199229.81	0.0145	0.0112
Venus	14998-10-26 02:38 G	7199265.44	7199265.61	7199265.80	0.0145	0.0082
Mercury	14998-12-17 11:02 G	7199317.93	7199317.96	7199318.02	0.0145	0.0139
Venus	14999-06-09 14:52 G	7199492.03	7199492.12	7199492.21	0.0145	0.0131

16TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 16th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	15017-05-08 21:21	G	7206034.09	7206034.39	7206034.70	0.0137	0.0031	
Mars	15019-04-11 02:24	G	7206736.37	7206736.60	7206736.86	0.0136	0.0084	
Earth	15029-02-28 16:04	G	7210348.01	7210348.17	7210348.34	0.0133	0.0103	
Moon	15029-02-28 16:19	G	7210348.02	7210348.18	7210348.36	0.0133	0.0102	*
Moon	15030-03-05 00:14	G	7210717.30	7210717.51	7210717.74	0.0133	0.0062	
Earth	15030-03-05 00:57	G	7210717.31	7210717.54	7210717.78	0.0133	0.0058	*
Earth	15031-03-09 09:21	G	7211086.64	7211086.89	7211087.15	0.0133	0.0013	
Moon	15031-03-09 10:33	G	7211086.67	7211086.94	7211087.20	0.0133	0.0006	*
Moon	15032-03-12 17:02	G	7211455.97	7211456.21	7211456.46	0.0133	0.0026	
Earth	15032-03-12 17:31	G	7211456.00	7211456.23	7211456.49	0.0133	0.0033	*
Earth	15033-03-17 01:55	G	7211825.38	7211825.58	7211825.80	0.0133	0.0077	
Moon	15033-03-17 03:07	G	7211825.45	7211825.63	7211825.86	0.0133	0.0083	*
Moon	15034-03-21 08:52	G	7212194.77	7212194.87	7212195.01	0.0133	0.0117	
Earth	15034-03-21 09:50	G	7212194.83	7212194.91	7212195.03	0.0133	0.0122	*
Mercury	15039-02-01 13:40	G	7213973.00	7213973.07	7213973.15	0.0133	0.0116	
Venus	15039-02-05 08:52	G	7213976.75	7213976.87	7213977.02	0.0133	0.0104	
Mercury	15039-04-30 17:31	G	7214061.14	7214061.23	7214061.34	0.0133	0.0098	
Mercury	15039-07-27 21:50	G	7214149.29	7214149.41	7214149.53	0.0133	0.0080	
Venus	15039-09-19 14:24	G	7214202.92	7214203.10	7214203.30	0.0133	0.0065	
Mercury	15039-10-24 01:55	G	7214237.44	7214237.58	7214237.71	0.0133	0.0062	
Mercury	15040-01-20 05:45	G	7214325.60	7214325.74	7214325.88	0.0133	0.0044	
Mercury	15040-04-17 09:36	G	7214413.76	7214413.90	7214414.05	0.0133	0.0026	

Venus	15040-05-02 19:40 G	7214429.11	7214429.32	7214429.54	0.0133	0.0027
Mercury	15040-07-14 13:40 G	7214501.92	7214502.07	7214502.21	0.0133	0.0008
Mercury	15040-10-10 17:31 G	7214590.08	7214590.23	7214590.38	0.0133	0.0010
Venus	15040-12-15 00:57 G	7214655.32	7214655.54	7214655.76	0.0133	0.0012
Mercury	15041-01-06 21:21 G	7214678.24	7214678.39	7214678.53	0.0133	0.0028
Mercury	15041-04-05 00:57 G	7214766.41	7214766.54	7214766.68	0.0133	0.0045
Mercury	15041-07-02 04:48 G	7214854.58	7214854.70	7214854.83	0.0133	0.0063
Venus	15041-07-29 06:00 G	7214881.56	7214881.75	7214881.96	0.0134	0.0052
Mercury	15041-09-28 08:38 G	7214942.75	7214942.86	7214942.98	0.0134	0.0080
Mercury	15041-12-25 12:28 G	7215030.92	7215031.02	7215031.12	0.0134	0.0097
Venus	15042-03-12 11:16 G	7215107.83	7215107.97	7215108.15	0.0134	0.0091
Mercury	15042-03-23 15:50 G	7215119.10	7215119.16	7215119.25	0.0134	0.0115
Mercury	15042-06-19 19:40 G	7215207.31	7215207.32	7215207.35	0.0134	0.0132
Venus	15042-10-24 17:02 G	7215334.16	7215334.21	7215334.26	0.0134	0.0129
Mars	15061-06-04 14:24 G	7222131.81	7222132.10	7222132.39	0.0141	0.0040
Mars	15063-05-08 07:55 G	7222834.61	7222834.83	7222835.09	0.0142	0.0087
Moon	15071-08-28 12:14 G	7225868.94	7225869.01	7225869.09	0.0145	0.0138
Earth	15071-08-28 14:24 G	7225869.00	7225869.10	7225869.20	0.0145	0.0132 *
Earth	15072-09-01 13:26 G	7226238.85	7226239.06	7226239.28	0.0145	0.0075
Moon	15072-09-01 16:33 G	7226238.97	7226239.19	7226239.41	0.0145	0.0076 *
Moon	15073-09-06 10:19 G	7226608.69	7226608.93	7226609.18	0.0145	0.0015
Earth	15073-09-06 13:12 G	7226608.80	7226609.05	7226609.30	0.0145	0.0018 *
Earth	15074-09-11 12:57 G	7226978.80	7226979.04	7226979.28	0.0146	0.0041
Moon	15074-09-11 16:19 G	7226978.94	7226979.18	7226979.43	0.0146	0.0033 *
Moon	15075-09-16 09:36 G	7227348.73	7227348.90	7227349.07	0.0146	0.0107
Earth	15075-09-16 12:57 G	7227348.87	7227349.04	7227349.23	0.0146	0.0099 *
Venus	15080-01-02 08:38 G	7228917.83	7228917.86	7228917.91	0.0145	0.0143
Mercury	15080-05-11 22:19 G	7229048.39	7229048.43	7229048.49	0.0145	0.0138
Mercury	15080-08-08 04:19 G	7229136.59	7229136.68	7229136.79	0.0145	0.0114
Venus	15080-08-15 21:07 G	7229144.23	7229144.38	7229144.56	0.0145	0.0092

Mercury	15080-11-04 10:19 G	7229224.81	7229224.93	7229225.07	0.0145	0.0089
Mercury	15081-01-31 16:33 G	7229313.04	7229313.19	7229313.34	0.0145	0.0063
Venus	15081-03-30 09:36 G	7229370.70	7229370.90	7229371.11	0.0145	0.0042
Mercury	15081-04-29 22:48 G	7229401.29	7229401.45	7229401.61	0.0145	0.0037
Mercury	15081-07-27 05:02 G	7229489.54	7229489.71	7229489.87	0.0145	0.0012
Mercury	15081-10-23 11:16 G	7229577.80	7229577.97	7229578.13	0.0145	0.0015
Venus	15081-11-11 21:50 G	7229597.20	7229597.41	7229597.63	0.0145	0.0009
Mercury	15082-01-19 17:16 G	7229666.07	7229666.22	7229666.39	0.0145	0.0041
Mercury	15082-04-17 23:45 G	7229754.34	7229754.49	7229754.64	0.0145	0.0067
Venus	15082-06-26 10:04 G	7229823.72	7229823.92	7229824.12	0.0145	0.0059
Mercury	15082-07-15 06:14 G	7229842.63	7229842.76	7229842.89	0.0145	0.0093
Mercury	15082-10-11 12:28 G	7229930.94	7229931.02	7229931.12	0.0145	0.0120
Venus	15083-02-07 22:04 G	7230050.28	7230050.42	7230050.57	0.0145	0.0109
Mars	15100-01-30 13:55 G	7236250.89	7236251.08	7236251.33	0.0138	0.0099
Mars	15102-01-03 06:43 G	7236953.48	7236953.78	7236954.09	0.0137	0.0021
Mars	15103-12-06 06:57 G	7237655.76	7237655.79	7237655.88	0.0136	0.0133
Moon	15113-03-02 05:31 G	7241029.57	7241029.73	7241029.92	0.0133	0.0099
Earth	15113-03-02 05:31 G	7241029.57	7241029.73	7241029.91	0.0133	0.0098 *
Earth	15114-03-06 14:24 G	7241398.87	7241399.10	7241399.34	0.0133	0.0053
Moon	15114-03-06 14:38 G	7241398.88	7241399.11	7241399.34	0.0133	0.0050 *
Moon	15115-03-10 23:16 G	7241768.20	7241768.47	7241768.73	0.0133	0.0013
Earth	15115-03-10 23:02 G	7241768.21	7241768.46	7241768.72	0.0133	0.0008 *
Moon	15116-03-14 06:43 G	7242137.55	7242137.78	7242138.02	0.0133	0.0044
Earth	15116-03-14 07:26 G	7242137.56	7242137.81	7242138.06	0.0133	0.0037 *
Moon	15117-03-18 15:36 G	7242506.95	7242507.15	7242507.39	0.0133	0.0076
Earth	15117-03-18 15:36 G	7242506.96	7242507.15	7242507.36	0.0133	0.0082 *
Moon	15118-03-22 22:33 G	7242876.42	7242876.44	7242876.51	0.0133	0.0131
Earth	15118-03-22 23:31 G	7242876.43	7242876.48	7242876.58	0.0133	0.0127 *
Venus	15122-10-06 20:52 G	7244535.29	7244535.37	7244535.48	0.0133	0.0119
Mercury	15122-11-26 17:16 G	7244586.19	7244586.22	7244586.27	0.0133	0.0127

Mercury	15123-02-22 21:21 G	7244674.31	7244674.39	7244674.48	0.0133	0.0109
Venus	15123-05-21 02:09 G	7244761.43	7244761.59	7244761.77	0.0133	0.0081
Mercury	15123-05-22 01:26 G	7244762.46	7244762.56	7244762.68	0.0133	0.0091
Mercury	15123-08-18 05:31 G	7244850.61	7244850.73	7244850.86	0.0133	0.0073
Mercury	15123-11-14 09:36 G	7244938.76	7244938.90	7244939.04	0.0133	0.0055
Venus	15124-01-02 07:40 G	7244987.61	7244987.82	7244988.02	0.0133	0.0042
Mercury	15124-02-10 13:26 G	7245026.92	7245027.06	7245027.21	0.0133	0.0037
Mercury	15124-05-08 17:16 G	7245115.08	7245115.22	7245115.37	0.0133	0.0020
Mercury	15124-08-04 21:21 G	7245203.24	7245203.39	7245203.54	0.0133	0.0001
Venus	15124-08-15 12:43 G	7245213.82	7245214.03	7245214.25	0.0133	0.0004
Mercury	15124-11-01 01:12 G	7245291.40	7245291.55	7245291.70	0.0133	0.0017
Mercury	15125-01-28 05:02 G	7245379.57	7245379.71	7245379.85	0.0133	0.0034
Venus	15125-03-29 18:00 G	7245440.04	7245440.25	7245440.46	0.0133	0.0036
Mercury	15125-04-26 08:52 G	7245467.73	7245467.87	7245468.00	0.0133	0.0052
Mercury	15125-07-23 12:28 G	7245555.90	7245556.02	7245556.15	0.0134	0.0069
Mercury	15125-10-19 16:19 G	7245644.07	7245644.18	7245644.29	0.0134	0.0087
Venus	15125-11-10 23:02 G	7245666.29	7245666.46	7245666.65	0.0134	0.0075
Mercury	15126-01-15 20:09 G	7245732.25	7245732.34	7245732.43	0.0134	0.0104
Mercury	15126-04-13 23:45 G	7245820.44	7245820.49	7245820.55	0.0134	0.0121
Venus	15126-06-25 04:19 G	7245892.58	7245892.68	7245892.81	0.0134	0.0114
Mars	15144-02-27 16:19 G	7252349.00	7252349.18	7252349.38	0.0141	0.0108
Mars	15146-01-29 23:31 G	7253051.18	7253051.48	7253051.78	0.0142	0.0015
Moon	15155-08-30 00:57 G	7256550.44	7256550.54	7256550.69	0.0145	0.0124
Earth	15155-08-30 03:21 G	7256550.53	7256550.64	7256550.76	0.0145	0.0129 *
Earth	15156-09-03 02:24 G	7256920.39	7256920.60	7256920.83	0.0145	0.0071
Moon	15156-09-03 04:33 G	7256920.47	7256920.69	7256920.92	0.0145	0.0073 *
Moon	15157-09-07 23:16 G	7257290.23	7257290.47	7257290.72	0.0145	0.0017
Earth	15157-09-08 02:09 G	7257290.34	7257290.59	7257290.85	0.0145	0.0013 *
Earth	15158-09-13 02:09 G	7257660.36	7257660.59	7257660.83	0.0146	0.0045
Moon	15158-09-13 05:16 G	7257660.48	7257660.72	7257660.96	0.0146	0.0052 *

Moon	15159-09-17 23:02 G	7258030.29	7258030.46	7258030.66	0.0146	0.0097
Earth	15159-09-18 02:24 G	7258030.44	7258030.60	7258030.79	0.0146	0.0104 *
Venus	15164-04-16 04:48 G	7259702.58	7259702.70	7259702.85	0.0145	0.0114
Mercury	15164-06-02 06:14 G	7259749.70	7259749.76	7259749.85	0.0145	0.0130
Mercury	15164-08-29 12:28 G	7259837.91	7259838.02	7259838.14	0.0145	0.0104
Mercury	15164-11-25 18:28 G	7259926.14	7259926.27	7259926.41	0.0145	0.0079
Venus	15164-11-28 17:31 G	7259929.04	7259929.23	7259929.43	0.0145	0.0063
Mercury	15165-02-22 00:43 G	7260014.38	7260014.53	7260014.68	0.0145	0.0054
Mercury	15165-05-21 06:43 G	7260102.62	7260102.78	7260102.95	0.0145	0.0028
Venus	15165-07-13 06:00 G	7260155.53	7260155.75	7260155.96	0.0145	0.0012
Mercury	15165-08-17 12:57 G	7260190.88	7260191.04	7260191.21	0.0145	0.0003
Mercury	15165-11-13 19:12 G	7260279.14	7260279.30	7260279.47	0.0145	0.0024
Mercury	15166-02-10 01:26 G	7260367.41	7260367.56	7260367.72	0.0145	0.0050
Venus	15166-02-24 18:00 G	7260382.04	7260382.25	7260382.46	0.0145	0.0038
Mercury	15166-05-09 07:55 G	7260455.69	7260455.83	7260455.97	0.0145	0.0076
Mercury	15166-08-05 14:09 G	7260543.98	7260544.09	7260544.21	0.0145	0.0103
Venus	15166-10-09 06:00 G	7260608.59	7260608.75	7260608.93	0.0145	0.0088
Mercury	15166-11-01 20:38 G	7260632.29	7260632.36	7260632.44	0.0145	0.0129
Venus	15167-05-23 17:45 G	7260835.19	7260835.24	7260835.32	0.0145	0.0138
Mars	15184-09-26 03:21 G	7267170.36	7267170.64	7267170.96	0.0137	0.0046
Mars	15186-08-29 14:24 G	7267872.85	7267873.10	7267873.38	0.0136	0.0072
Moon	15197-03-02 17:45 G	7271711.07	7271711.24	7271711.45	0.0133	0.0095
Earth	15197-03-02 18:43 G	7271711.12	7271711.28	7271711.48	0.0133	0.0095 *
Earth	15198-03-07 03:50 G	7272080.43	7272080.66	7272080.91	0.0133	0.0049
Moon	15198-03-07 04:19 G	7272080.46	7272080.68	7272080.92	0.0133	0.0052 *
Moon	15199-03-11 12:14 G	7272449.75	7272450.01	7272450.28	0.0133	0.0003
Earth	15199-03-11 12:28 G	7272449.76	7272450.02	7272450.28	0.0133	0.0004 *
Earth	15200-03-14 20:52 G	7272819.13	7272819.37	7272819.62	0.0133	0.0042
Moon	15200-03-14 21:21 G	7272819.15	7272819.39	7272819.63	0.0133	0.0036 *
Earth	15201-03-19 05:02 G	7273188.53	7273188.71	7273188.92	0.0133	0.0087

Moon	15201-03-19 05:16 G	7273188.55	7273188.72	7273188.93	0.0133	0.0093 *
Moon	15202-03-23 13:40 G	7273557.99	7273558.07	7273558.14	0.0133	0.0126
Earth	15202-03-23 13:40 G	7273558.03	7273558.07	7273558.10	0.0133	0.0131 *
Mercury	15206-12-17 00:57 G	7275287.49	7275287.54	7275287.62	0.0133	0.0121
Venus	15207-01-18 14:09 G	7275319.95	7275320.09	7275320.25	0.0133	0.0095
Mercury	15207-03-15 05:02 G	7275375.63	7275375.71	7275375.82	0.0133	0.0102
Mercury	15207-06-11 09:21 G	7275463.77	7275463.89	7275464.01	0.0133	0.0084
Venus	15207-09-01 19:12 G	7275546.12	7275546.30	7275546.51	0.0133	0.0057
Mercury	15207-09-07 13:26 G	7275551.93	7275552.06	7275552.19	0.0133	0.0066
Mercury	15207-12-04 17:16 G	7275640.08	7275640.22	7275640.36	0.0133	0.0048
Mercury	15208-03-01 21:07 G	7275728.24	7275728.38	7275728.53	0.0133	0.0030
Venus	15208-04-15 00:28 G	7275772.31	7275772.52	7275772.74	0.0133	0.0019
Mercury	15208-05-29 01:12 G	7275816.40	7275816.55	7275816.70	0.0133	0.0012
Mercury	15208-08-25 05:02 G	7275904.56	7275904.71	7275904.86	0.0133	0.0006
Mercury	15208-11-21 08:52 G	7275992.73	7275992.87	7275993.02	0.0133	0.0024
Venus	15208-11-27 05:45 G	7275998.52	7275998.74	7275998.96	0.0133	0.0020
Mercury	15209-02-17 12:43 G	7276080.89	7276081.03	7276081.17	0.0133	0.0041
Mercury	15209-05-16 16:33 G	7276169.06	7276169.19	7276169.32	0.0133	0.0059
Venus	15209-07-11 10:48 G	7276224.76	7276224.95	7276225.15	0.0133	0.0059
Mercury	15209-08-12 20:24 G	7276257.23	7276257.35	7276257.47	0.0133	0.0076
Mercury	15209-11-09 00:00 G	7276345.40	7276345.50	7276345.61	0.0134	0.0093
Mercury	15210-02-05 03:36 G	7276433.58	7276433.65	7276433.74	0.0134	0.0111
Venus	15210-02-22 16:04 G	7276451.04	7276451.17	7276451.33	0.0134	0.0098
Mercury	15210-05-04 07:26 G	7276521.78	7276521.81	7276521.86	0.0134	0.0127
Mars	15228-10-22 19:40 G	7283268.06	7283268.32	7283268.60	0.0141	0.0057
Mars	15230-09-25 06:00 G	7283970.50	7283970.75	7283971.03	0.0142	0.0069
Moon	15239-08-30 13:12 G	7287231.96	7287232.05	7287232.16	0.0145	0.0131
Earth	15239-08-30 13:40 G	7287231.97	7287232.07	7287232.22	0.0145	0.0126 *
Earth	15240-09-03 13:12 G	7287601.84	7287602.05	7287602.29	0.0145	0.0069
Moon	15240-09-03 15:21 G	7287601.92	7287602.14	7287602.38	0.0145	0.0067 *

Moon	15241-09-08 11:31 G	7287971.74	7287971.98	7287972.22	0.0145	0.0008
Earth	15241-09-08 13:26 G	7287971.81	7287972.06	7287972.31	0.0145	0.0010 *
Earth	15242-09-13 13:12 G	7288341.83	7288342.05	7288342.30	0.0146	0.0050
Moon	15242-09-13 16:19 G	7288341.94	7288342.18	7288342.43	0.0146	0.0042 *
Moon	15243-09-18 10:33 G	7288711.81	7288711.94	7288712.10	0.0146	0.0116
Earth	15243-09-18 13:40 G	7288711.91	7288712.07	7288712.25	0.0146	0.0108 *
Venus	15247-12-15 12:00 G	7290260.92	7290261.00	7290261.08	0.0146	0.0135
Mercury	15248-06-22 14:09 G	7290451.01	7290451.09	7290451.18	0.0145	0.0122
Venus	15248-07-29 00:28 G	7290487.35	7290487.52	7290487.70	0.0145	0.0085
Mercury	15248-09-18 20:09 G	7290539.22	7290539.34	7290539.46	0.0145	0.0097
Mercury	15248-12-16 02:09 G	7290627.45	7290627.59	7290627.74	0.0145	0.0071
Venus	15249-03-12 12:43 G	7290713.82	7290714.03	7290714.25	0.0145	0.0034
Mercury	15249-03-14 08:09 G	7290715.69	7290715.84	7290716.01	0.0145	0.0046
Mercury	15249-06-10 14:24 G	7290803.94	7290804.10	7290804.27	0.0145	0.0021
Mercury	15249-09-06 20:38 G	7290892.20	7290892.36	7290892.53	0.0145	0.0006
Venus	15249-10-25 00:57 G	7290940.33	7290940.54	7290940.76	0.0145	0.0016
Mercury	15249-12-04 02:52 G	7290980.46	7290980.62	7290980.79	0.0145	0.0032
Mercury	15250-03-02 09:07 G	7291068.73	7291068.88	7291069.04	0.0145	0.0058
Mercury	15250-05-29 15:36 G	7291157.01	7291157.15	7291157.29	0.0145	0.0084
Venus	15250-06-08 13:12 G	7291166.86	7291167.05	7291167.24	0.0145	0.0066
Mercury	15250-08-25 21:50 G	7291245.31	7291245.41	7291245.52	0.0145	0.0111
Mercury	15250-11-22 04:04 G	7291333.64	7291333.67	7291333.74	0.0145	0.0138
Venus	15251-01-21 01:12 G	7291393.43	7291393.55	7291393.69	0.0145	0.0116
Mars	15267-06-19 16:19 G	7297387.02	7297387.18	7297387.38	0.0138	0.0114
Mars	15269-05-22 15:07 G	7298089.82	7298090.13	7298090.44	0.0137	0.0008
Mars	15271-04-24 21:36 G	7298792.29	7298792.40	7298792.55	0.0136	0.0123
Moon	15281-03-03 07:40 G	7302392.64	7302392.82	7302393.03	0.0133	0.0090
Earth	15281-03-03 09:07 G	7302392.69	7302392.88	7302393.07	0.0133	0.0090 *
Earth	15282-03-07 17:45 G	7302762.01	7302762.24	7302762.49	0.0133	0.0044
Moon	15282-03-07 18:57 G	7302762.06	7302762.29	7302762.53	0.0133	0.0041 *

Moon	15283-03-12 01:26 G	7303131.30	7303131.56	7303131.83	0.0133	0.0004
Earth	15283-03-12 02:38 G	7303131.35	7303131.61	7303131.87	0.0133	0.0001 *
Earth	15284-03-15 10:48 G	7303500.72	7303500.95	7303501.21	0.0133	0.0047
Moon	15284-03-15 11:16 G	7303500.76	7303500.97	7303501.21	0.0133	0.0054 *
Moon	15285-03-19 18:28 G	7303870.07	7303870.27	7303870.48	0.0133	0.0085
Earth	15285-03-19 19:12 G	7303870.13	7303870.30	7303870.50	0.0133	0.0092 *
Venus	15290-09-18 02:38 G	7305878.49	7305878.61	7305878.74	0.0133	0.0109
Mercury	15290-10-10 04:48 G	7305900.69	7305900.70	7305900.74	0.0133	0.0131
Mercury	15291-01-06 09:07 G	7305988.80	7305988.88	7305988.96	0.0133	0.0112
Mercury	15291-04-04 12:57 G	7306076.95	7306077.04	7306077.16	0.0133	0.0094
Venus	15291-05-02 07:40 G	7306104.64	7306104.82	7306105.01	0.0133	0.0071
Mercury	15291-07-01 17:02 G	7306165.10	7306165.21	7306165.34	0.0133	0.0076
Mercury	15291-09-27 21:07 G	7306253.25	7306253.38	7306253.52	0.0133	0.0058
Venus	15291-12-14 12:43 G	7306330.83	7306331.03	7306331.25	0.0133	0.0033
Mercury	15291-12-25 01:12 G	7306341.41	7306341.55	7306341.69	0.0133	0.0040
Mercury	15292-03-22 05:02 G	7306429.57	7306429.71	7306429.86	0.0133	0.0022
Mercury	15292-06-18 09:07 G	7306517.73	7306517.88	7306518.03	0.0133	0.0005
Venus	15292-07-27 18:00 G	7306557.03	7306557.25	7306557.47	0.0133	0.0006
Mercury	15292-09-14 12:57 G	7306605.89	7306606.04	7306606.19	0.0133	0.0013
Mercury	15292-12-11 16:48 G	7306694.06	7306694.20	7306694.34	0.0133	0.0031
Mercury	15293-03-09 20:38 G	7306782.22	7306782.36	7306782.50	0.0133	0.0049
Venus	15293-03-10 23:16 G	7306783.27	7306783.47	7306783.68	0.0133	0.0045
Mercury	15293-06-06 00:14 G	7306870.39	7306870.51	7306870.65	0.0133	0.0066
Mercury	15293-09-02 04:04 G	7306958.56	7306958.67	7306958.79	0.0133	0.0084
Venus	15293-10-23 04:19 G	7307009.52	7307009.68	7307009.86	0.0133	0.0084
Mercury	15293-11-29 07:55 G	7307046.74	7307046.83	7307046.93	0.0133	0.0101
Mercury	15294-02-25 11:31 G	7307134.92	7307134.98	7307135.06	0.0134	0.0118
Venus	15294-06-06 09:21 G	7307235.83	7307235.89	7307236.00	0.0134	0.0123
Mars	15311-07-18 03:21 G	7313485.53	7313485.64	7313485.80	0.0140	0.0125
Mars	15313-06-19 03:36 G	7314187.35	7314187.65	7314187.96	0.0141	0.0004

Mars	15315-05-22 18:00 G	7314890.14	7314890.25	7314890.43	0.0142	0.0126
Moon	15323-09-01 02:24 G	7317913.46	7317913.60	7317913.75	0.0145	0.0116
Earth	15323-09-01 02:52 G	7317913.51	7317913.62	7317913.78	0.0145	0.0122 *
Earth	15324-09-05 02:38 G	7318283.39	7318283.61	7318283.84	0.0145	0.0064
Moon	15324-09-05 03:36 G	7318283.43	7318283.65	7318283.89	0.0145	0.0066 *
Moon	15325-09-10 00:43 G	7318653.28	7318653.53	7318653.77	0.0145	0.0008
Earth	15325-09-10 02:38 G	7318653.36	7318653.61	7318653.86	0.0145	0.0005 *
Earth	15326-09-15 02:38 G	7319023.38	7319023.61	7319023.85	0.0146	0.0054
Moon	15326-09-15 04:48 G	7319023.47	7319023.70	7319023.94	0.0146	0.0059 *
Moon	15327-09-20 00:00 G	7319393.35	7319393.50	7319393.68	0.0146	0.0106
Earth	15327-09-20 02:52 G	7319393.47	7319393.62	7319393.79	0.0146	0.0113 *
Venus	15332-03-29 07:55 G	7321045.69	7321045.83	7321045.99	0.0146	0.0106
Mercury	15332-04-16 16:04 G	7321064.13	7321064.17	7321064.23	0.0146	0.0138
Mercury	15332-07-13 22:04 G	7321152.32	7321152.42	7321152.53	0.0145	0.0113
Mercury	15332-10-10 04:04 G	7321240.55	7321240.67	7321240.81	0.0145	0.0088
Venus	15332-11-10 20:24 G	7321272.15	7321272.35	7321272.56	0.0145	0.0055
Mercury	15333-01-06 10:04 G	7321328.78	7321328.92	7321329.08	0.0145	0.0063
Mercury	15333-04-04 16:19 G	7321417.02	7321417.18	7321417.34	0.0145	0.0037
Venus	15333-06-25 08:52 G	7321498.65	7321498.87	7321499.09	0.0145	0.0005
Mercury	15333-07-01 22:33 G	7321505.27	7321505.44	7321505.60	0.0145	0.0011
Mercury	15333-09-28 04:48 G	7321593.53	7321593.70	7321593.86	0.0145	0.0015
Mercury	15333-12-25 10:48 G	7321681.80	7321681.95	7321682.12	0.0145	0.0041
Venus	15334-02-06 21:07 G	7321725.17	7321725.38	7321725.59	0.0145	0.0046
Mercury	15334-03-23 17:16 G	7321770.07	7321770.22	7321770.37	0.0145	0.0067
Mercury	15334-06-19 23:16 G	7321858.36	7321858.47	7321858.61	0.0145	0.0095
Mercury	15334-09-16 06:00 G	7321946.66	7321946.75	7321946.84	0.0145	0.0120
Venus	15334-09-21 09:07 G	7321951.73	7321951.88	7321952.05	0.0145	0.0096
Mars	15352-02-14 07:26 G	7328306.54	7328306.81	7328307.11	0.0138	0.0061
Mars	15354-01-17 01:12 G	7329009.29	7329009.55	7329009.85	0.0137	0.0060
Earth	15364-02-29 13:40 G	7332705.03	7332705.07	7332705.13	0.0133	0.0131

Moon	15364-02-29 15:21 G	7332705.08	7332705.14	7332705.22	0.0133	0.0128 *
Moon	15365-03-04 20:52 G	7333074.18	7333074.37	7333074.58	0.0133	0.0086
Earth	15365-03-04 22:48 G	7333074.27	7333074.45	7333074.67	0.0133	0.0085 *
Earth	15366-03-09 07:55 G	7333443.59	7333443.83	7333444.08	0.0133	0.0040
Moon	15366-03-09 09:36 G	7333443.67	7333443.90	7333444.14	0.0133	0.0042 *
Moon	15367-03-13 15:21 G	7333812.88	7333813.14	7333813.41	0.0133	0.0012
Earth	15367-03-13 16:48 G	7333812.94	7333813.20	7333813.46	0.0133	0.0006 *
Earth	15368-03-17 01:12 G	7334182.32	7334182.55	7334182.79	0.0133	0.0052
Moon	15368-03-17 02:38 G	7334182.39	7334182.61	7334182.85	0.0133	0.0046 *
Moon	15369-03-21 08:38 G	7334551.71	7334551.86	7334552.04	0.0133	0.0103
Earth	15369-03-21 09:21 G	7334551.73	7334551.89	7334552.08	0.0133	0.0097 *
Venus	15374-05-19 14:52 G	7336437.05	7336437.12	7336437.20	0.0133	0.0123
Mercury	15374-10-31 12:43 G	7336601.99	7336602.03	7336602.10	0.0133	0.0123
Venus	15374-12-31 19:55 G	7336663.17	7336663.33	7336663.51	0.0133	0.0085
Mercury	15375-01-27 16:48 G	7336690.12	7336690.20	7336690.30	0.0133	0.0105
Mercury	15375-04-25 21:07 G	7336778.27	7336778.38	7336778.49	0.0133	0.0086
Mercury	15375-07-23 00:57 G	7336866.42	7336866.54	7336866.67	0.0133	0.0068
Venus	15375-08-15 00:57 G	7336889.35	7336889.54	7336889.76	0.0133	0.0047
Mercury	15375-10-19 05:02 G	7336954.57	7336954.71	7336954.85	0.0133	0.0050
Mercury	15376-01-15 09:07 G	7337042.73	7337042.88	7337043.02	0.0133	0.0032
Venus	15376-03-28 06:14 G	7337115.55	7337115.76	7337115.98	0.0133	0.0009
Mercury	15376-04-12 12:57 G	7337130.89	7337131.04	7337131.19	0.0133	0.0014
Mercury	15376-07-09 16:48 G	7337219.06	7337219.20	7337219.35	0.0133	0.0005
Mercury	15376-10-05 20:52 G	7337307.22	7337307.37	7337307.51	0.0133	0.0021
Venus	15376-11-09 11:31 G	7337341.77	7337341.98	7337342.19	0.0133	0.0030
Mercury	15377-01-02 00:43 G	7337395.39	7337395.53	7337395.67	0.0133	0.0039
Mercury	15377-03-31 04:19 G	7337483.55	7337483.68	7337483.82	0.0133	0.0056
Venus	15377-06-23 16:19 G	7337568.01	7337568.18	7337568.38	0.0133	0.0070
Mercury	15377-06-27 08:09 G	7337571.72	7337571.84	7337571.97	0.0133	0.0074
Mercury	15377-09-23 12:00 G	7337659.90	7337660.00	7337660.11	0.0133	0.0091

Mercury	15377-12-20 15:36 G	7337748.08	7337748.15	7337748.25	0.0133	0.0108
Venus	15378-02-04 22:04 G	7337794.30	7337794.42	7337794.55	0.0133	0.0108
Mercury	15378-03-18 19:26 G	7337836.27	7337836.31	7337836.36	0.0133	0.0125
Mars	15396-03-12 06:00 G	7344404.51	7344404.75	7344405.02	0.0141	0.0075
Mars	15398-02-12 09:36 G	7345106.63	7345106.90	7345107.19	0.0141	0.0050
Earth	15407-09-02 14:24 G	7348594.97	7348595.10	7348595.26	0.0145	0.0118
Moon	15407-09-02 14:52 G	7348595.01	7348595.12	7348595.25	0.0145	0.0124 *
Earth	15408-09-06 13:55 G	7348964.86	7348965.08	7348965.32	0.0145	0.0060
Moon	15408-09-06 15:07 G	7348964.89	7348965.13	7348965.37	0.0145	0.0058 *
Moon	15409-09-11 13:12 G	7349334.81	7349335.05	7349335.29	0.0145	0.0000
Earth	15409-09-11 14:09 G	7349334.83	7349335.09	7349335.34	0.0145	0.0002 *
Earth	15410-09-16 14:09 G	7349704.86	7349705.09	7349705.32	0.0146	0.0058
Moon	15410-09-16 16:04 G	7349704.93	7349705.17	7349705.42	0.0146	0.0052 *
Moon	15411-09-21 11:45 G	7350074.88	7350074.99	7350075.13	0.0146	0.0125
Earth	15411-09-21 13:55 G	7350074.95	7350075.08	7350075.25	0.0146	0.0117 *
Venus	15415-11-28 14:38 G	7351604.01	7351604.11	7351604.21	0.0146	0.0128
Mercury	15416-05-07 23:31 G	7351765.42	7351765.48	7351765.56	0.0146	0.0131
Venus	15416-07-12 03:07 G	7351830.45	7351830.63	7351830.82	0.0145	0.0078
Mercury	15416-08-04 05:31 G	7351853.63	7351853.73	7351853.85	0.0145	0.0106
Mercury	15416-10-31 11:31 G	7351941.85	7351941.98	7351942.13	0.0145	0.0081
Mercury	15417-01-27 17:31 G	7352030.09	7352030.23	7352030.39	0.0145	0.0056
Venus	15417-02-23 15:21 G	7352056.93	7352057.14	7352057.36	0.0145	0.0028
Mercury	15417-04-25 23:45 G	7352118.33	7352118.49	7352118.66	0.0145	0.0030
Mercury	15417-07-23 06:00 G	7352206.59	7352206.75	7352206.92	0.0145	0.0004
Venus	15417-10-08 03:50 G	7352283.45	7352283.66	7352283.88	0.0145	0.0023
Mercury	15417-10-19 12:14 G	7352294.85	7352295.01	7352295.18	0.0145	0.0023
Mercury	15418-01-15 18:28 G	7352383.12	7352383.27	7352383.43	0.0145	0.0049
Mercury	15418-04-14 00:43 G	7352471.39	7352471.53	7352471.68	0.0145	0.0075
Venus	15418-05-22 16:04 G	7352509.98	7352510.17	7352510.36	0.0145	0.0074
Mercury	15418-07-11 07:12 G	7352559.68	7352559.80	7352559.92	0.0145	0.0102

Mercury	15418-10-07 13:26 G	7352647.99	7352648.06	7352648.15	0.0145	0.0128
Venus	15419-01-04 03:50 G	7352736.57	7352736.66	7352736.79	0.0145	0.0124
Mars	15434-11-07 16:19 G	7358523.10	7358523.18	7358523.29	0.0138	0.0132
Mars	15436-10-10 22:19 G	7359226.11	7359226.43	7359226.74	0.0137	0.0007
Mars	15438-09-13 11:31 G	7359928.82	7359928.98	7359929.18	0.0137	0.0111
Earth	15448-03-02 03:50 G	7363386.60	7363386.66	7363386.77	0.0133	0.0126
Moon	15448-03-02 06:28 G	7363386.74	7363386.77	7363386.84	0.0133	0.0131 *
Moon	15449-03-06 11:16 G	7363755.77	7363755.97	7363756.19	0.0133	0.0079
Earth	15449-03-06 13:40 G	7363755.86	7363756.07	7363756.27	0.0133	0.0080 *
Earth	15450-03-10 22:19 G	7364125.19	7364125.43	7364125.68	0.0133	0.0034
Moon	15450-03-11 00:14 G	7364125.28	7364125.51	7364125.77	0.0133	0.0033 *
Moon	15451-03-15 05:02 G	7364494.45	7364494.71	7364494.98	0.0133	0.0008
Earth	15451-03-15 07:12 G	7364494.55	7364494.80	7364495.06	0.0133	0.0012 *
Earth	15452-03-18 15:36 G	7364863.93	7364864.15	7364864.39	0.0133	0.0057
Moon	15452-03-18 17:02 G	7364864.00	7364864.21	7364864.44	0.0133	0.0064 *
Moon	15453-03-22 21:36 G	7365233.24	7365233.40	7365233.60	0.0133	0.0096
Earth	15453-03-22 23:31 G	7365233.34	7365233.48	7365233.66	0.0133	0.0103 *
Venus	15458-09-01 08:38 G	7367221.72	7367221.86	7367222.01	0.0133	0.0099
Mercury	15458-11-21 20:38 G	7367303.30	7367303.36	7367303.45	0.0133	0.0115
Mercury	15459-02-18 00:43 G	7367391.44	7367391.53	7367391.65	0.0133	0.0097
Venus	15459-04-15 13:40 G	7367447.88	7367448.07	7367448.27	0.0133	0.0061
Mercury	15459-05-17 05:02 G	7367479.59	7367479.71	7367479.83	0.0133	0.0078
Mercury	15459-08-13 09:07 G	7367567.75	7367567.88	7367568.01	0.0133	0.0060
Mercury	15459-11-09 12:57 G	7367655.90	7367656.04	7367656.19	0.0133	0.0042
Venus	15459-11-27 18:43 G	7367674.07	7367674.28	7367674.50	0.0133	0.0023
Mercury	15460-02-05 17:02 G	7367744.06	7367744.21	7367744.36	0.0133	0.0024
Mercury	15460-05-03 20:52 G	7367832.23	7367832.37	7367832.52	0.0133	0.0007
Venus	15460-07-11 00:00 G	7367900.29	7367900.50	7367900.72	0.0133	0.0016
Mercury	15460-07-31 00:57 G	7367920.39	7367920.54	7367920.68	0.0133	0.0012
Mercury	15460-10-27 04:48 G	7368008.55	7368008.70	7368008.84	0.0133	0.0029

Mercury	15461-01-23 08:38 G	7368096.72	7368096.86	7368097.00	0.0133	0.0046
Venus	15461-02-22 05:31 G	7368126.53	7368126.73	7368126.93	0.0133	0.0055
Mercury	15461-04-21 12:14 G	7368184.89	7368185.01	7368185.15	0.0133	0.0064
Mercury	15461-07-18 16:04 G	7368273.06	7368273.17	7368273.29	0.0133	0.0082
Venus	15461-10-06 10:33 G	7368352.79	7368352.94	7368353.10	0.0133	0.0093
Mercury	15461-10-14 19:55 G	7368361.24	7368361.33	7368361.43	0.0133	0.0099
Mercury	15462-01-10 23:45 G	7368449.42	7368449.49	7368449.56	0.0133	0.0116
Mercury	15462-04-09 03:36 G	7368537.64	7368537.65	7368537.66	0.0133	0.0133
Venus	15462-05-20 16:04 G	7368579.14	7368579.17	7368579.20	0.0133	0.0132
Mars	15480-11-06 13:12 G	7375323.76	7375324.05	7375324.35	0.0141	0.0021
Mars	15482-10-09 21:36 G	7376026.22	7376026.40	7376026.62	0.0142	0.0106
Earth	15491-09-03 04:19 G	7379276.54	7379276.68	7379276.86	0.0145	0.0113
Moon	15491-09-03 04:48 G	7379276.55	7379276.70	7379276.88	0.0145	0.0107 *
Moon	15492-09-07 03:50 G	7379646.43	7379646.66	7379646.90	0.0145	0.0058
Earth	15492-09-07 04:19 G	7379646.45	7379646.68	7379646.91	0.0145	0.0055 *
Moon	15493-09-12 03:07 G	7380016.39	7380016.63	7380016.87	0.0145	0.0002
Earth	15493-09-12 04:04 G	7380016.42	7380016.67	7380016.92	0.0145	0.0004 *
Earth	15494-09-17 03:36 G	7380386.44	7380386.65	7380386.89	0.0146	0.0064
Moon	15494-09-17 04:48 G	7380386.48	7380386.70	7380386.94	0.0146	0.0069 *
Moon	15495-09-22 01:55 G	7380756.45	7380756.58	7380756.74	0.0146	0.0116
Earth	15495-09-22 03:50 G	7380756.54	7380756.66	7380756.81	0.0146	0.0123 *
Venus	15500-03-12 11:02 G	7382388.81	7382388.96	7382389.13	0.0146	0.0099
Mercury	15500-05-29 07:40 G	7382466.74	7382466.82	7382466.92	0.0146	0.0121
Mercury	15500-08-25 13:40 G	7382554.96	7382555.07	7382555.20	0.0145	0.0096
Venus	15500-10-24 23:31 G	7382615.28	7382615.48	7382615.69	0.0145	0.0048
Mercury	15500-11-21 19:55 G	7382643.18	7382643.33	7382643.47	0.0145	0.0071
Mercury	15501-02-18 01:55 G	7382731.42	7382731.58	7382731.74	0.0145	0.0045
Mercury	15501-05-17 07:55 G	7382819.67	7382819.83	7382820.00	0.0145	0.0020
Venus	15501-06-08 12:00 G	7382841.78	7382842.00	7382842.22	0.0145	0.0003
Mercury	15501-08-13 14:09 G	7382907.93	7382908.09	7382908.26	0.0145	0.0007

Mercury	15501-11-09 20:24 G	7382996.19	7382996.35	7382996.52	0.0145	0.0032
Venus	15502-01-21 00:14 G	7383068.31	7383068.51	7383068.72	0.0145	0.0053
Mercury	15502-02-06 02:38 G	7383084.46	7383084.61	7383084.77	0.0145	0.0059
Mercury	15502-05-05 08:52 G	7383172.74	7383172.87	7383173.01	0.0145	0.0085
Mercury	15502-08-01 15:07 G	7383261.04	7383261.13	7383261.25	0.0145	0.0112
Venus	15502-09-04 12:28 G	7383294.88	7383295.02	7383295.18	0.0145	0.0103
Mercury	15502-10-28 21:50 G	7383349.37	7383349.41	7383349.46	0.0145	0.0138
Mars	15519-07-05 10:48 G	7389442.69	7389442.95	7389443.21	0.0138	0.0076
Mars	15521-06-07 11:31 G	7390145.70	7390145.98	7390146.29	0.0137	0.0046
Earth	15532-03-03 18:14 G	7394068.17	7394068.26	7394068.38	0.0134	0.0121
Moon	15532-03-03 21:07 G	7394068.26	7394068.38	7394068.50	0.0134	0.0117 *
Moon	15533-03-08 00:43 G	7394437.33	7394437.53	7394437.76	0.0133	0.0077
Earth	15533-03-08 03:50 G	7394437.45	7394437.66	7394437.87	0.0133	0.0075 *
Earth	15534-03-12 12:43 G	7394806.78	7394807.03	7394807.29	0.0133	0.0029
Moon	15534-03-12 15:07 G	7394806.89	7394807.13	7394807.38	0.0133	0.0030 *
Moon	15535-03-16 19:12 G	7395176.04	7395176.30	7395176.56	0.0133	0.0022
Earth	15535-03-16 21:36 G	7395176.15	7395176.40	7395176.66	0.0133	0.0017 *
Earth	15536-03-20 05:45 G	7395545.53	7395545.74	7395545.98	0.0133	0.0063
Moon	15536-03-20 08:24 G	7395545.63	7395545.85	7395546.08	0.0133	0.0057 *
Moon	15537-03-24 11:45 G	7395914.88	7395914.99	7395915.15	0.0133	0.0115
Earth	15537-03-24 13:55 G	7395914.95	7395915.08	7395915.24	0.0133	0.0108 *
Venus	15542-05-02 21:21 G	7397780.28	7397780.39	7397780.50	0.0133	0.0113
Mercury	15542-09-16 00:43 G	7397916.49	7397916.53	7397916.58	0.0133	0.0125
Mercury	15542-12-13 04:48 G	7398004.62	7398004.70	7398004.79	0.0133	0.0107
Venus	15542-12-15 02:09 G	7398006.42	7398006.59	7398006.78	0.0133	0.0075
Mercury	15543-03-11 08:52 G	7398092.77	7398092.87	7398092.99	0.0133	0.0089
Mercury	15543-06-07 12:57 G	7398180.92	7398181.04	7398181.17	0.0133	0.0071
Venus	15543-07-29 07:26 G	7398232.60	7398232.81	7398233.02	0.0133	0.0037
Mercury	15543-09-03 17:02 G	7398269.07	7398269.21	7398269.35	0.0133	0.0052
Mercury	15543-11-30 21:07 G	7398357.23	7398357.38	7398357.52	0.0133	0.0034

Mercury	15544-02-27 00:57 G	7398445.39	7398445.54	7398445.69	0.0133	0.0017
Venus	15544-03-11 12:43 G	7398458.81	7398459.03	7398459.25	0.0133	0.0002
Mercury	15544-05-25 05:02 G	7398533.56	7398533.71	7398533.85	0.0133	0.0004
Mercury	15544-08-21 08:52 G	7398621.72	7398621.87	7398622.02	0.0133	0.0019
Venus	15544-10-23 17:45 G	7398685.04	7398685.24	7398685.45	0.0133	0.0040
Mercury	15544-11-17 12:43 G	7398709.89	7398710.03	7398710.17	0.0133	0.0037
Mercury	15545-02-13 16:33 G	7398798.06	7398798.19	7398798.32	0.0133	0.0054
Mercury	15545-05-12 20:24 G	7398886.23	7398886.35	7398886.47	0.0133	0.0072
Venus	15545-06-06 22:48 G	7398911.29	7398911.45	7398911.64	0.0133	0.0079
Mercury	15545-08-09 00:00 G	7398974.40	7398974.50	7398974.62	0.0133	0.0089
Mercury	15545-11-05 03:50 G	7399062.58	7399062.66	7399062.75	0.0133	0.0106
Venus	15546-01-19 04:19 G	7399137.59	7399137.68	7399137.79	0.0133	0.0118
Mercury	15546-02-01 07:40 G	7399150.77	7399150.82	7399150.88	0.0133	0.0123
Mars	15563-08-01 22:19 G	7405541.22	7405541.43	7405541.68	0.0140	0.0090
Mars	15565-07-03 20:38 G	7406243.07	7406243.36	7406243.65	0.0141	0.0032
Earth	15575-09-04 17:02 G	7409958.05	7409958.21	7409958.38	0.0145	0.0108
Moon	15575-09-04 18:28 G	7409958.13	7409958.27	7409958.42	0.0145	0.0115 *
Moon	15576-09-08 16:04 G	7410327.93	7410328.17	7410328.42	0.0145	0.0047
Earth	15576-09-08 16:19 G	7410327.95	7410328.18	7410328.42	0.0145	0.0050 *
Earth	15577-09-13 16:04 G	7410697.92	7410698.17	7410698.42	0.0145	0.0009
Moon	15577-09-13 16:19 G	7410697.94	7410698.18	7410698.42	0.0145	0.0009 *
Earth	15578-09-18 15:50 G	7411067.95	7411068.16	7411068.39	0.0146	0.0069
Moon	15578-09-18 16:33 G	7411067.97	7411068.19	7411068.44	0.0146	0.0064 *
Moon	15579-09-23 14:38 G	7411438.03	7411438.11	7411438.20	0.0146	0.0135
Earth	15579-09-23 15:36 G	7411438.05	7411438.15	7411438.29	0.0146	0.0128 *
Venus	15583-11-10 17:45 G	7412947.13	7412947.24	7412947.37	0.0146	0.0121
Mercury	15584-03-22 09:21 G	7413079.85	7413079.89	7413079.95	0.0146	0.0139
Mercury	15584-06-18 15:21 G	7413168.05	7413168.14	7413168.25	0.0146	0.0114
Venus	15584-06-24 06:14 G	7413173.58	7413173.76	7413173.96	0.0146	0.0071
Mercury	15584-09-14 21:21 G	7413256.27	7413256.39	7413256.53	0.0145	0.0089

Mercury	15584-12-12 03:21 G	7413344.50	7413344.64	7413344.80	0.0145	0.0063
Venus	15585-02-05 18:57 G	7413400.08	7413400.29	7413400.51	0.0145	0.0020
Mercury	15585-03-10 09:36 G	7413432.74	7413432.90	7413433.06	0.0145	0.0037
Mercury	15585-06-06 15:50 G	7413520.99	7413521.16	7413521.32	0.0145	0.0012
Mercury	15585-09-02 21:50 G	7413609.25	7413609.41	7413609.58	0.0145	0.0015
Venus	15585-09-20 07:26 G	7413626.60	7413626.81	7413627.02	0.0145	0.0031
Mercury	15585-11-30 04:04 G	7413697.51	7413697.67	7413697.84	0.0145	0.0041
Mercury	15586-02-26 10:19 G	7413785.79	7413785.93	7413786.09	0.0145	0.0067
Venus	15586-05-04 19:40 G	7413853.15	7413853.32	7413853.51	0.0145	0.0081
Mercury	15586-05-25 16:48 G	7413874.07	7413874.20	7413874.33	0.0145	0.0093
Mercury	15586-08-21 23:02 G	7413962.38	7413962.46	7413962.56	0.0145	0.0120
Venus	15586-12-17 07:55 G	7414079.75	7414079.83	7414079.93	0.0145	0.0131
Mars	15604-02-29 02:24 G	7420362.28	7420362.60	7420362.91	0.0138	0.0022
Mars	15606-01-31 22:04 G	7421065.21	7421065.42	7421065.65	0.0137	0.0098
Earth	15616-03-04 08:38 G	7424749.75	7424749.86	7424750.01	0.0134	0.0116
Moon	15616-03-04 12:14 G	7424749.91	7424750.01	7424750.12	0.0134	0.0121 *
Moon	15617-03-08 15:21 G	7425118.92	7425119.14	7425119.38	0.0133	0.0068
Earth	15617-03-08 18:14 G	7425119.05	7425119.26	7425119.49	0.0133	0.0070 *
Earth	15618-03-13 03:07 G	7425488.39	7425488.63	7425488.89	0.0133	0.0024
Moon	15618-03-13 06:14 G	7425488.51	7425488.76	7425489.01	0.0133	0.0022 *
Moon	15619-03-17 08:52 G	7425857.62	7425857.87	7425858.14	0.0133	0.0020
Earth	15619-03-17 12:00 G	7425857.75	7425858.00	7425858.26	0.0133	0.0023 *
Earth	15620-03-20 19:55 G	7426227.13	7426227.33	7426227.57	0.0133	0.0069
Moon	15620-03-20 22:48 G	7426227.24	7426227.45	7426227.65	0.0133	0.0075 *
Moon	15621-03-25 01:12 G	7426596.41	7426596.55	7426596.72	0.0133	0.0107
Earth	15621-03-25 04:04 G	7426596.56	7426596.67	7426596.81	0.0133	0.0114 *
Venus	15625-12-31 09:21 G	7428338.86	7428338.89	7428338.97	0.0133	0.0128
Venus	15626-08-14 14:38 G	7428564.97	7428565.11	7428565.29	0.0133	0.0090
Mercury	15626-10-06 08:52 G	7428617.80	7428617.87	7428617.94	0.0133	0.0117
Mercury	15627-01-02 12:43 G	7428705.94	7428706.03	7428706.14	0.0133	0.0099

Venus	15627-03-28 19:55 G	7428791.14	7428791.33	7428791.54	0.0133	0.0051
Mercury	15627-03-31 16:48 G	7428794.09	7428794.20	7428794.33	0.0133	0.0081
Mercury	15627-06-27 20:52 G	7428882.25	7428882.37	7428882.51	0.0133	0.0063
Mercury	15627-09-24 00:57 G	7428970.40	7428970.54	7428970.69	0.0133	0.0045
Venus	15627-11-10 01:12 G	7429017.33	7429017.55	7429017.77	0.0133	0.0013
Mercury	15627-12-21 05:02 G	7429058.56	7429058.71	7429058.86	0.0133	0.0027
Mercury	15628-03-18 09:07 G	7429146.73	7429146.88	7429147.02	0.0133	0.0010
Mercury	15628-06-14 12:57 G	7429234.89	7429235.04	7429235.19	0.0133	0.0009
Venus	15628-06-23 06:14 G	7429243.55	7429243.76	7429243.98	0.0133	0.0026
Mercury	15628-09-10 16:48 G	7429323.06	7429323.20	7429323.35	0.0133	0.0027
Mercury	15628-12-07 20:38 G	7429411.22	7429411.36	7429411.50	0.0133	0.0045
Venus	15629-02-04 11:45 G	7429469.80	7429469.99	7429470.18	0.0133	0.0064
Mercury	15629-03-06 00:28 G	7429499.39	7429499.52	7429499.65	0.0133	0.0062
Mercury	15629-06-02 04:19 G	7429587.57	7429587.68	7429587.80	0.0133	0.0079
Mercury	15629-08-29 08:09 G	7429675.74	7429675.84	7429675.94	0.0133	0.0097
Venus	15629-09-18 17:16 G	7429696.08	7429696.22	7429696.35	0.0133	0.0103
Mercury	15629-11-25 12:00 G	7429763.93	7429764.00	7429764.07	0.0133	0.0114
Mercury	15630-02-21 15:21 G	7429852.13	7429852.14	7429852.18	0.0133	0.0132
Mars	15648-03-27 03:50 G	7436460.38	7436460.66	7436460.95	0.0140	0.0037
Mars	15650-02-27 06:00 G	7437162.54	7437162.75	7437163.01	0.0141	0.0089
Earth	15659-09-05 07:26 G	7440639.64	7440639.81	7440639.99	0.0145	0.0103
Moon	15659-09-05 08:38 G	7440639.69	7440639.86	7440640.06	0.0145	0.0097 *
Moon	15660-09-09 05:16 G	7441009.48	7441009.72	7441009.97	0.0145	0.0050
Earth	15660-09-09 06:57 G	7441009.55	7441009.79	7441010.03	0.0145	0.0045 *
Earth	15661-09-14 06:28 G	7441379.52	7441379.77	7441380.02	0.0145	0.0015
Moon	15661-09-14 06:28 G	7441379.54	7441379.77	7441380.02	0.0145	0.0015 *
Moon	15662-09-19 06:00 G	7441749.54	7441749.75	7441749.97	0.0146	0.0078
Earth	15662-09-19 06:14 G	7441749.54	7441749.76	7441749.97	0.0146	0.0074 *
Moon	15663-09-24 05:16 G	7442119.61	7442119.72	7442119.84	0.0146	0.0127
Earth	15663-09-24 05:45 G	7442119.66	7442119.74	7442119.86	0.0146	0.0134 *

Venus	15667-07-11 02:24 G	7443505.55	7443505.60	7443505.66	0.0146	0.0141
Venus	15668-02-22 14:52 G	7443731.96	7443732.12	7443732.30	0.0146	0.0091
Mercury	15668-04-11 17:45 G	7443781.17	7443781.24	7443781.32	0.0146	0.0128
Mercury	15668-07-08 23:45 G	7443869.38	7443869.49	7443869.61	0.0146	0.0103
Mercury	15668-10-05 05:45 G	7443957.61	7443957.74	7443957.88	0.0145	0.0078
Venus	15668-10-06 03:21 G	7443958.44	7443958.64	7443958.85	0.0145	0.0040
Mercury	15669-01-01 11:45 G	7444045.84	7444045.99	7444046.15	0.0145	0.0053
Mercury	15669-03-30 18:00 G	7444134.09	7444134.25	7444134.41	0.0145	0.0027
Venus	15669-05-20 15:50 G	7444184.94	7444185.16	7444185.38	0.0145	0.0011
Mercury	15669-06-27 00:00 G	7444222.34	7444222.50	7444222.67	0.0145	0.0003
Mercury	15669-09-23 06:14 G	7444310.60	7444310.76	7444310.93	0.0145	0.0025
Mercury	15669-12-20 12:28 G	7444398.87	7444399.02	7444399.18	0.0145	0.0051
Venus	15670-01-02 04:19 G	7444411.48	7444411.68	7444411.88	0.0145	0.0061
Mercury	15670-03-18 18:43 G	7444487.14	7444487.28	7444487.43	0.0145	0.0077
Mercury	15670-06-15 01:12 G	7444575.43	7444575.55	7444575.67	0.0145	0.0104
Venus	15670-08-16 16:19 G	7444638.06	7444638.18	7444638.34	0.0145	0.0111
Mercury	15670-09-11 07:26 G	7444663.75	7444663.81	7444663.89	0.0145	0.0130
Mars	15686-11-21 09:50 G	7450578.70	7450578.91	7450579.17	0.0138	0.0094
Mars	15688-10-24 18:14 G	7451281.96	7451282.26	7451282.57	0.0138	0.0033
Earth	15700-03-05 23:31 G	7455431.34	7455431.48	7455431.62	0.0134	0.0111
Moon	15700-03-06 02:24 G	7455431.46	7455431.60	7455431.76	0.0134	0.0107 *
Moon	15701-03-10 05:02 G	7455800.49	7455800.71	7455800.94	0.0133	0.0068
Earth	15701-03-10 08:38 G	7455800.64	7455800.86	7455801.09	0.0133	0.0065 *
Earth	15702-03-14 17:31 G	7456169.98	7456170.23	7456170.49	0.0133	0.0018
Moon	15702-03-14 20:38 G	7456170.11	7456170.36	7456170.61	0.0133	0.0019 *
Moon	15703-03-18 23:02 G	7456539.21	7456539.46	7456539.72	0.0133	0.0032
Earth	15703-03-19 02:09 G	7456539.35	7456539.59	7456539.85	0.0133	0.0028 *
Earth	15704-03-22 10:19 G	7456908.72	7456908.93	7456909.15	0.0133	0.0074
Moon	15704-03-22 13:12 G	7456908.85	7456909.05	7456909.28	0.0133	0.0069 *
Moon	15705-03-26 15:21 G	7457278.08	7457278.14	7457278.24	0.0133	0.0126

Earth	15705-03-26 18:28 G	7457278.16	7457278.27	7457278.38	0.0133	0.0119 *
Venus	15710-04-15 03:36 G	7459123.52	7459123.65	7459123.79	0.0133	0.0103
Mercury	15710-07-31 12:28 G	7459230.99	7459231.02	7459231.07	0.0133	0.0128
Mercury	15710-10-27 16:48 G	7459319.12	7459319.20	7459319.29	0.0133	0.0109
Venus	15710-11-27 08:38 G	7459349.67	7459349.86	7459350.05	0.0133	0.0065
Mercury	15711-01-23 20:52 G	7459407.26	7459407.37	7459407.48	0.0133	0.0091
Mercury	15711-04-22 00:43 G	7459495.42	7459495.53	7459495.67	0.0133	0.0073
Venus	15711-07-11 13:40 G	7459575.86	7459576.07	7459576.29	0.0133	0.0027
Mercury	15711-07-19 05:02 G	7459583.57	7459583.71	7459583.85	0.0133	0.0054
Mercury	15711-10-15 09:07 G	7459671.73	7459671.88	7459672.02	0.0133	0.0036
Mercury	15712-01-11 12:57 G	7459759.90	7459760.04	7459760.19	0.0133	0.0019
Venus	15712-02-22 19:12 G	7459802.08	7459802.30	7459802.52	0.0133	0.0011
Mercury	15712-04-08 17:02 G	7459848.06	7459848.21	7459848.36	0.0133	0.0001
Mercury	15712-07-05 20:52 G	7459936.23	7459936.37	7459936.52	0.0133	0.0017
Mercury	15712-10-02 00:43 G	7460024.39	7460024.53	7460024.68	0.0133	0.0035
Venus	15712-10-06 00:14 G	7460028.32	7460028.51	7460028.72	0.0133	0.0050
Mercury	15712-12-29 04:33 G	7460112.56	7460112.69	7460112.83	0.0133	0.0053
Mercury	15713-03-27 08:24 G	7460200.73	7460200.85	7460200.98	0.0133	0.0070
Venus	15713-05-20 05:31 G	7460254.57	7460254.73	7460254.90	0.0133	0.0088
Mercury	15713-06-23 12:14 G	7460288.91	7460289.01	7460289.13	0.0133	0.0087
Mercury	15713-09-19 16:04 G	7460377.08	7460377.17	7460377.26	0.0133	0.0104
Mercury	15713-12-16 19:55 G	7460465.27	7460465.33	7460465.39	0.0133	0.0122
Venus	15714-01-01 11:02 G	7460480.89	7460480.96	7460481.02	0.0133	0.0127
Mars	15730-12-20 16:04 G	7466677.99	7466678.17	7466678.38	0.0140	0.0105
Mars	15732-11-21 08:09 G	7467379.54	7467379.84	7467380.14	0.0141	0.0016
Earth	15743-09-06 19:26 G	7471321.13	7471321.31	7471321.50	0.0145	0.0099
Moon	15743-09-06 21:36 G	7471321.25	7471321.40	7471321.58	0.0145	0.0107 *
Moon	15744-09-10 17:02 G	7471690.97	7471691.21	7471691.47	0.0145	0.0037
Earth	15744-09-10 18:28 G	7471691.04	7471691.27	7471691.52	0.0145	0.0041 *
Earth	15745-09-15 18:00 G	7472061.01	7472061.25	7472061.51	0.0145	0.0019

Moon	15745-09-15 19:26 G	7472061.07	7472061.31	7472061.56	0.0145	0.0018 *
Moon	15746-09-20 17:16 G	7472431.01	7472431.22	7472431.46	0.0146	0.0075
Earth	15746-09-20 17:31 G	7472431.04	7472431.23	7472431.46	0.0146	0.0079 *
Earth	15747-09-25 17:31 G	7472801.17	7472801.23	7472801.33	0.0146	0.0138
Moon	15747-09-25 17:31 G	7472801.22	7472801.23	7472801.26	0.0146	0.0145 *
Venus	15751-10-23 21:36 G	7474290.27	7474290.40	7474290.55	0.0146	0.0113
Mercury	15752-02-04 19:40 G	7474394.32	7474394.32	7474394.33	0.0146	0.0145
Mercury	15752-05-03 01:26 G	7474482.48	7474482.56	7474482.66	0.0146	0.0121
Venus	15752-06-06 10:04 G	7474516.73	7474516.92	7474517.13	0.0146	0.0062
Mercury	15752-07-30 07:26 G	7474570.69	7474570.81	7474570.94	0.0145	0.0096
Mercury	15752-10-26 13:26 G	7474658.92	7474659.06	7474659.21	0.0145	0.0070
Venus	15753-01-18 22:48 G	7474743.23	7474743.45	7474743.67	0.0145	0.0012
Mercury	15753-01-22 19:26 G	7474747.16	7474747.31	7474747.47	0.0145	0.0045
Mercury	15753-04-21 01:40 G	7474835.41	7474835.57	7474835.73	0.0145	0.0019
Mercury	15753-07-18 07:55 G	7474923.66	7474923.83	7474923.99	0.0145	0.0008
Venus	15753-09-02 11:16 G	7474969.77	7474969.97	7474970.18	0.0145	0.0039
Mercury	15753-10-14 13:55 G	7475011.92	7475012.08	7475012.25	0.0145	0.0033
Mercury	15754-01-10 20:09 G	7475100.19	7475100.34	7475100.50	0.0145	0.0059
Mercury	15754-04-09 02:24 G	7475188.47	7475188.60	7475188.74	0.0145	0.0085
Venus	15754-04-16 23:31 G	7475196.32	7475196.48	7475196.66	0.0145	0.0089
Mercury	15754-07-06 08:38 G	7475276.77	7475276.86	7475276.98	0.0145	0.0112
Mercury	15754-10-02 15:21 G	7475365.09	7475365.14	7475365.19	0.0145	0.0138
Venus	15754-11-29 11:31 G	7475422.94	7475422.98	7475423.07	0.0145	0.0139
Mars	15771-07-19 02:38 G	7481498.31	7481498.61	7481498.93	0.0138	0.0039
Mars	15773-06-21 04:04 G	7482201.44	7482201.67	7482201.93	0.0137	0.0086
Earth	15784-03-06 12:57 G	7486112.90	7486113.04	7486113.21	0.0134	0.0107
Moon	15784-03-06 16:33 G	7486113.07	7486113.19	7486113.35	0.0134	0.0113 *
Moon	15785-03-10 18:57 G	7486482.07	7486482.29	7486482.54	0.0133	0.0058
Earth	15785-03-10 22:19 G	7486482.22	7486482.43	7486482.67	0.0133	0.0060 *
Earth	15786-03-15 07:26 G	7486851.56	7486851.81	7486852.07	0.0133	0.0013

Moon	15786-03-15 11:02 G	7486851.71	7486851.96	7486852.21	0.0133	0.0012 *
Moon	15787-03-19 12:43 G	7487220.78	7487221.03	7487221.28	0.0133	0.0031
Earth	15787-03-19 16:04 G	7487220.93	7487221.17	7487221.42	0.0133	0.0033 *
Earth	15788-03-23 00:14 G	7487590.31	7487590.51	7487590.72	0.0133	0.0079
Moon	15788-03-23 03:07 G	7487590.45	7487590.63	7487590.84	0.0133	0.0086 *
Moon	15789-03-27 04:19 G	7487959.59	7487959.68	7487959.83	0.0133	0.0118
Earth	15789-03-27 07:55 G	7487959.77	7487959.83	7487959.94	0.0133	0.0125 *
Venus	15793-12-13 16:04 G	7489682.08	7489682.17	7489682.28	0.0133	0.0117
Venus	15794-07-27 21:21 G	7489908.22	7489908.39	7489908.57	0.0133	0.0079
Mercury	15794-08-20 20:38 G	7489932.30	7489932.36	7489932.43	0.0133	0.0119
Mercury	15794-11-17 00:43 G	7490020.44	7490020.53	7490020.63	0.0133	0.0101
Mercury	15795-02-13 04:48 G	7490108.59	7490108.70	7490108.82	0.0133	0.0083
Venus	15795-03-11 02:24 G	7490134.40	7490134.60	7490134.82	0.0133	0.0041
Mercury	15795-05-12 08:52 G	7490196.74	7490196.87	7490197.01	0.0133	0.0065
Mercury	15795-08-08 12:57 G	7490284.90	7490285.04	7490285.18	0.0133	0.0047
Venus	15795-10-23 07:40 G	7490360.61	7490360.82	7490361.04	0.0133	0.0004
Mercury	15795-11-04 17:02 G	7490373.06	7490373.21	7490373.36	0.0133	0.0028
Mercury	15796-01-31 21:07 G	7490461.23	7490461.38	7490461.53	0.0133	0.0011
Mercury	15796-04-29 00:57 G	7490549.39	7490549.54	7490549.69	0.0133	0.0008
Venus	15796-06-05 12:43 G	7490586.83	7490587.03	7490587.25	0.0133	0.0036
Mercury	15796-07-26 04:48 G	7490637.56	7490637.70	7490637.85	0.0133	0.0025
Mercury	15796-10-22 08:38 G	7490725.73	7490725.86	7490726.01	0.0133	0.0043
Venus	15797-01-17 18:00 G	7490813.08	7490813.25	7490813.44	0.0133	0.0074
Mercury	15797-01-18 12:28 G	7490813.90	7490814.02	7490814.16	0.0133	0.0061
Mercury	15797-04-16 16:33 G	7490902.07	7490902.19	7490902.31	0.0133	0.0078
Mercury	15797-07-13 20:09 G	7490990.25	7490990.34	7490990.45	0.0133	0.0095
Venus	15797-08-31 23:16 G	7491039.37	7491039.47	7491039.60	0.0133	0.0113
Mercury	15797-10-10 00:00 G	7491078.43	7491078.50	7491078.58	0.0133	0.0112
Mercury	15798-01-06 03:36 G	7491166.63	7491166.65	7491166.70	0.0133	0.0130
Mars	15815-08-16 18:57 G	7497597.02	7497597.29	7497597.57	0.0140	0.0053

Mars	15817-07-18 14:52 G	7498298.87	7498299.12	7498299.39	0.0141	0.0070
Jupiter	15822-08-07 21:07 G	7500144.88	7500145.38	7500145.90	0.0143	0.0022
Earth	15827-09-08 08:38 G	7502002.67	7502002.86	7502003.05	0.0145	0.0095
Moon	15827-09-08 10:48 G	7502002.77	7502002.95	7502003.16	0.0145	0.0088 *
Moon	15828-09-12 05:16 G	7502372.48	7502372.72	7502372.97	0.0145	0.0042
Earth	15828-09-12 07:40 G	7502372.59	7502372.82	7502373.07	0.0145	0.0037 *
Earth	15829-09-17 07:12 G	7502742.56	7502742.80	7502743.06	0.0145	0.0024
Moon	15829-09-17 08:38 G	7502742.62	7502742.86	7502743.10	0.0145	0.0024 *
Moon	15830-09-22 05:31 G	7503112.53	7503112.73	7503112.95	0.0146	0.0086
Earth	15830-09-22 06:57 G	7503112.59	7503112.79	7503113.00	0.0146	0.0083 *
Moon	15831-09-27 07:12 G	7503482.73	7503482.80	7503482.90	0.0146	0.0137
Earth	15831-09-27 06:43 G	7503482.75	7503482.78	7503482.85	0.0146	0.0143 *
Venus	15835-06-24 05:31 G	7504848.66	7504848.73	7504848.83	0.0146	0.0133
Venus	15836-02-05 18:14 G	7505075.09	7505075.26	7505075.45	0.0146	0.0083
Mercury	15836-02-26 03:50 G	7505095.61	7505095.66	7505095.72	0.0146	0.0136
Mercury	15836-05-24 09:50 G	7505183.80	7505183.91	7505184.01	0.0146	0.0111
Mercury	15836-08-20 15:36 G	7505272.02	7505272.15	7505272.29	0.0145	0.0086
Venus	15836-09-19 06:57 G	7505301.58	7505301.79	7505302.00	0.0145	0.0032
Mercury	15836-11-16 21:36 G	7505360.26	7505360.40	7505360.55	0.0145	0.0061
Mercury	15837-02-13 03:36 G	7505448.50	7505448.65	7505448.82	0.0145	0.0036
Venus	15837-05-03 19:26 G	7505528.09	7505528.31	7505528.53	0.0145	0.0018
Mercury	15837-05-12 09:50 G	7505536.75	7505536.91	7505537.08	0.0145	0.0009
Mercury	15837-08-08 16:04 G	7505625.00	7505625.17	7505625.33	0.0145	0.0017
Mercury	15837-11-04 22:19 G	7505713.27	7505713.43	7505713.58	0.0145	0.0043
Venus	15837-12-16 07:40 G	7505754.64	7505754.82	7505755.02	0.0145	0.0069
Mercury	15838-02-01 04:19 G	7505801.54	7505801.68	7505801.83	0.0145	0.0069
Mercury	15838-04-30 10:33 G	7505889.82	7505889.94	7505890.07	0.0145	0.0096
Mercury	15838-07-27 16:48 G	7505978.13	7505978.20	7505978.30	0.0145	0.0122
Venus	15838-07-30 20:09 G	7505981.22	7505981.34	7505981.47	0.0145	0.0119
Mars	15854-04-11 04:48 G	7511714.53	7511714.70	7511714.91	0.0139	0.0112

Mars	15856-03-14 18:28 G	7512417.96	7512418.27	7512418.59	0.0138	0.0017
Earth	15868-03-08 03:21 G	7516794.48	7516794.64	7516794.80	0.0134	0.0102
Moon	15868-03-08 06:14 G	7516794.61	7516794.76	7516794.96	0.0134	0.0098 *
Moon	15869-03-12 08:38 G	7517163.63	7517163.86	7517164.10	0.0133	0.0059
Earth	15869-03-12 12:14 G	7517163.79	7517164.01	7517164.26	0.0133	0.0056 *
Earth	15870-03-16 21:21 G	7517533.13	7517533.39	7517533.65	0.0133	0.0009
Moon	15870-03-17 00:43 G	7517533.28	7517533.53	7517533.79	0.0133	0.0009 *
Moon	15871-03-21 02:09 G	7517902.36	7517902.59	7517902.85	0.0133	0.0042
Earth	15871-03-21 05:45 G	7517902.51	7517902.74	7517903.00	0.0133	0.0038 *
Earth	15872-03-24 13:55 G	7518271.89	7518272.08	7518272.29	0.0133	0.0084
Moon	15872-03-24 17:16 G	7518272.03	7518272.22	7518272.44	0.0133	0.0079 *
Earth	15873-03-28 22:19 G	7518641.38	7518641.43	7518641.49	0.0133	0.0129
Venus	15877-08-14 04:33 G	7520240.67	7520240.69	7520240.74	0.0133	0.0131
Venus	15878-03-28 09:50 G	7520466.77	7520466.91	7520467.08	0.0133	0.0093
Mercury	15878-06-15 00:14 G	7520545.50	7520545.51	7520545.56	0.0133	0.0130
Mercury	15878-09-11 04:33 G	7520633.62	7520633.69	7520633.78	0.0133	0.0111
Venus	15878-11-09 14:52 G	7520692.93	7520693.12	7520693.33	0.0133	0.0055
Mercury	15878-12-08 08:38 G	7520721.76	7520721.86	7520721.98	0.0133	0.0093
Mercury	15879-03-06 12:43 G	7520809.92	7520810.03	7520810.16	0.0133	0.0075
Mercury	15879-06-02 17:02 G	7520898.07	7520898.21	7520898.35	0.0133	0.0056
Venus	15879-06-23 20:09 G	7520919.13	7520919.34	7520919.56	0.0133	0.0017
Mercury	15879-08-29 21:07 G	7520986.23	7520986.38	7520986.52	0.0133	0.0038
Mercury	15879-11-26 00:57 G	7521074.40	7521074.54	7521074.69	0.0133	0.0021
Venus	15880-02-05 01:40 G	7521145.35	7521145.57	7521145.78	0.0133	0.0022
Mercury	15880-02-22 05:02 G	7521162.56	7521162.71	7521162.86	0.0133	0.0002
Mercury	15880-05-20 08:52 G	7521250.73	7521250.87	7521251.02	0.0133	0.0016
Mercury	15880-08-16 12:57 G	7521338.89	7521339.04	7521339.18	0.0133	0.0033
Venus	15880-09-18 06:43 G	7521371.59	7521371.78	7521371.98	0.0133	0.0060
Mercury	15880-11-12 16:48 G	7521427.06	7521427.20	7521427.34	0.0133	0.0051
Mercury	15881-02-08 20:24 G	7521515.23	7521515.35	7521515.49	0.0133	0.0069

Venus	15881-05-02 11:45 G	7521597.86	7521597.99	7521598.15	0.0133	0.0099
Mercury	15881-05-08 00:28 G	7521603.41	7521603.52	7521603.63	0.0133	0.0085
Mercury	15881-08-04 04:19 G	7521691.59	7521691.68	7521691.77	0.0133	0.0103
Mercury	15881-10-31 08:09 G	7521779.78	7521779.84	7521779.90	0.0133	0.0120
Mars	15898-05-10 11:16 G	7527814.85	7527814.97	7527815.14	0.0139	0.0122
Mars	15900-04-11 21:07 G	7528516.09	7528516.38	7528516.68	0.0140	0.0003
Mars	15902-03-14 20:38 G	7529218.22	7529218.36	7529218.51	0.0141	0.0124
Moon	15910-09-04 17:45 G	7532314.21	7532314.24	7532314.31	0.0145	0.0142
Earth	15911-09-09 19:55 G	7532684.14	7532684.33	7532684.53	0.0145	0.0091
Moon	15911-09-09 23:02 G	7532684.29	7532684.46	7532684.65	0.0145	0.0099 *
Moon	15912-09-13 16:33 G	7533053.95	7533054.19	7533054.45	0.0145	0.0027
Earth	15912-09-13 19:12 G	7533054.06	7533054.30	7533054.55	0.0145	0.0032 *
Earth	15913-09-18 18:28 G	7533424.02	7533424.27	7533424.52	0.0145	0.0027
Moon	15913-09-18 20:38 G	7533424.13	7533424.36	7533424.61	0.0145	0.0026 *
Moon	15914-09-23 16:19 G	7533793.98	7533794.18	7533794.41	0.0145	0.0085
Earth	15914-09-23 17:45 G	7533794.06	7533794.24	7533794.46	0.0145	0.0088 *
Venus	15919-10-07 00:28 G	7535633.38	7535633.52	7535633.68	0.0146	0.0105
Mercury	15920-03-18 11:16 G	7535796.90	7535796.97	7535797.04	0.0145	0.0129
Venus	15920-05-20 13:12 G	7535859.85	7535860.05	7535860.25	0.0145	0.0054
Mercury	15920-06-14 17:16 G	7535885.11	7535885.22	7535885.33	0.0145	0.0104
Mercury	15920-09-10 23:02 G	7535973.33	7535973.46	7535973.60	0.0145	0.0079
Mercury	15920-12-08 05:02 G	7536061.56	7536061.71	7536061.87	0.0145	0.0054
Venus	15921-01-02 01:40 G	7536086.35	7536086.57	7536086.79	0.0145	0.0004
Mercury	15921-03-06 11:02 G	7536149.81	7536149.96	7536150.13	0.0145	0.0029
Mercury	15921-06-02 17:16 G	7536238.06	7536238.22	7536238.39	0.0145	0.0003
Venus	15921-08-16 14:09 G	7536312.89	7536313.09	7536313.30	0.0145	0.0046
Mercury	15921-08-29 23:31 G	7536326.31	7536326.48	7536326.64	0.0145	0.0024
Mercury	15921-11-26 05:31 G	7536414.58	7536414.73	7536414.89	0.0145	0.0050
Mercury	15922-02-22 11:45 G	7536502.86	7536502.99	7536503.14	0.0145	0.0076
Venus	15922-03-31 02:24 G	7536539.45	7536539.60	7536539.78	0.0145	0.0096

Mercury	15922-05-21 18:14 G	7536591.14	7536591.26	7536591.38	0.0145	0.0102
Mercury	15922-08-18 00:28 G	7536679.45	7536679.52	7536679.60	0.0145	0.0129
Mars	15938-12-06 20:24 G	7542634.08	7542634.35	7542634.66	0.0139	0.0058
Mars	15940-11-09 05:45 G	7543337.47	7543337.74	7543338.02	0.0138	0.0069
Earth	15952-03-09 16:19 G	7547476.01	7547476.18	7547476.36	0.0134	0.0097
Moon	15952-03-09 19:40 G	7547476.18	7547476.32	7547476.50	0.0134	0.0104 *
Moon	15953-03-13 22:04 G	7547845.19	7547845.42	7547845.67	0.0133	0.0047
Earth	15953-03-14 01:26 G	7547845.34	7547845.56	7547845.81	0.0133	0.0051 *
Earth	15954-03-18 10:33 G	7548214.69	7548214.94	7548215.20	0.0133	0.0005
Moon	15954-03-18 14:24 G	7548214.85	7548215.10	7548215.36	0.0133	0.0004 *
Moon	15955-03-22 15:36 G	7548583.91	7548584.15	7548584.40	0.0133	0.0041
Earth	15955-03-22 19:12 G	7548584.06	7548584.30	7548584.55	0.0133	0.0043 *
Earth	15956-03-26 03:21 G	7548953.46	7548953.64	7548953.84	0.0133	0.0089
Moon	15956-03-26 06:57 G	7548953.62	7548953.79	7548953.97	0.0133	0.0095 *
Moon	15957-03-30 07:40 G	7549322.77	7549322.82	7549322.91	0.0133	0.0128
Venus	15961-11-26 22:04 G	7551025.31	7551025.42	7551025.56	0.0133	0.0107
Mercury	15962-07-06 08:24 G	7551246.80	7551246.85	7551246.92	0.0133	0.0122
Venus	15962-07-11 03:21 G	7551251.47	7551251.64	7551251.84	0.0133	0.0069
Mercury	15962-10-02 12:43 G	7551334.94	7551335.03	7551335.12	0.0133	0.0103
Mercury	15962-12-29 16:48 G	7551423.09	7551423.20	7551423.32	0.0133	0.0085
Venus	15963-02-22 08:52 G	7551477.66	7551477.87	7551478.08	0.0133	0.0031
Mercury	15963-03-27 20:52 G	7551511.24	7551511.37	7551511.50	0.0133	0.0067
Mercury	15963-06-24 00:43 G	7551599.40	7551599.53	7551599.68	0.0133	0.0049
Mercury	15963-09-20 04:48 G	7551687.56	7551687.70	7551687.85	0.0133	0.0031
Venus	15963-10-06 13:55 G	7551703.87	7551704.08	7551704.30	0.0133	0.0008
Mercury	15963-12-17 08:52 G	7551775.73	7551775.87	7551776.02	0.0133	0.0013
Mercury	15964-03-14 12:57 G	7551863.89	7551864.04	7551864.19	0.0133	0.0005
Venus	15964-05-19 18:57 G	7551930.09	7551930.29	7551930.50	0.0133	0.0046
Mercury	15964-06-10 16:48 G	7551952.06	7551952.20	7551952.35	0.0133	0.0023
Mercury	15964-09-06 20:38 G	7552040.23	7552040.36	7552040.51	0.0133	0.0041

Mercury	15964-12-04 00:28 G	7552128.40	7552128.52	7552128.66	0.0133	0.0059
Venus	15965-01-01 00:00 G	7552156.35	7552156.50	7552156.68	0.0133	0.0084
Mercury	15965-03-02 04:33 G	7552216.57	7552216.69	7552216.81	0.0133	0.0076
Mercury	15965-05-29 08:09 G	7552304.74	7552304.84	7552304.95	0.0133	0.0093
Venus	15965-08-15 05:02 G	7552382.65	7552382.71	7552382.82	0.0133	0.0123
Mercury	15965-08-25 12:00 G	7552392.93	7552393.00	7552393.09	0.0133	0.0110
Mercury	15965-11-21 15:36 G	7552481.12	7552481.15	7552481.20	0.0133	0.0128
Mars	15983-01-04 12:00 G	7558733.76	7558734.00	7558734.27	0.0140	0.0072
Mars	15984-12-06 01:12 G	7559435.28	7559435.55	7559435.83	0.0141	0.0051
Earth	15995-09-10 08:52 G	7563365.68	7563365.87	7563366.08	0.0145	0.0087
Moon	15995-09-10 12:00 G	7563365.81	7563366.00	7563366.22	0.0145	0.0079 *
Moon	15996-09-14 04:48 G	7563735.45	7563735.70	7563735.95	0.0145	0.0034
Earth	15996-09-14 08:09 G	7563735.59	7563735.84	7563736.09	0.0145	0.0027 *
Earth	15997-09-19 07:26 G	7564105.57	7564105.81	7564106.06	0.0145	0.0032
Moon	15997-09-19 09:36 G	7564105.67	7564105.90	7564106.15	0.0145	0.0034 *
Moon	15998-09-24 04:33 G	7564475.50	7564475.69	7564475.89	0.0145	0.0094
Earth	15998-09-24 06:43 G	7564475.61	7564475.78	7564475.99	0.0145	0.0093 *

17TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 17th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	16003-06-06 08:09 G	7566191.74	7566191.84	7566191.95	0.0146	0.0126		
Mercury	16004-01-10 13:12 G	7566410.05	7566410.05	7566410.08	0.0145	0.0145		

Venus	16004-01-18 20:38 G	7566418.18	7566418.36	7566418.55	0.0145	0.0076
Mercury	16004-04-07 19:12 G	7566498.21	7566498.30	7566498.39	0.0145	0.0120
Mercury	16004-07-05 00:57 G	7566586.43	7566586.54	7566586.67	0.0145	0.0095
Venus	16004-09-01 09:21 G	7566644.68	7566644.89	7566645.11	0.0145	0.0025
Mercury	16004-10-01 07:12 G	7566674.65	7566674.80	7566674.94	0.0145	0.0070
Mercury	16004-12-28 13:12 G	7566762.89	7566763.05	7566763.20	0.0145	0.0045
Mercury	16005-03-26 19:12 G	7566851.14	7566851.30	7566851.46	0.0145	0.0019
Venus	16005-04-15 21:50 G	7566871.20	7566871.41	7566871.63	0.0145	0.0025
Mercury	16005-06-23 01:12 G	7566939.39	7566939.55	7566939.72	0.0145	0.0008
Mercury	16005-09-19 07:26 G	7567027.65	7567027.81	7567027.97	0.0145	0.0033
Venus	16005-11-28 10:04 G	7567097.74	7567097.92	7567098.11	0.0145	0.0075
Mercury	16005-12-16 13:26 G	7567115.92	7567116.06	7567116.22	0.0145	0.0059
Mercury	16006-03-14 19:40 G	7567204.20	7567204.32	7567204.46	0.0145	0.0086
Mercury	16006-06-11 02:09 G	7567292.49	7567292.59	7567292.70	0.0145	0.0112
Venus	16006-07-12 22:33 G	7567324.33	7567324.44	7567324.55	0.0145	0.0125
Mercury	16006-09-07 08:24 G	7567380.81	7567380.85	7567380.91	0.0145	0.0138
Mars	16021-08-28 17:02 G	7572850.14	7572850.21	7572850.32	0.0139	0.0133
Mars	16023-08-02 13:40 G	7573553.75	7573554.07	7573554.39	0.0138	0.0003
Mars	16025-07-05 18:00 G	7574257.11	7574257.25	7574257.40	0.0137	0.0122
Jupiter	16030-08-20 02:38 G	7576128.09	7576128.61	7576129.13	0.0135	0.0002
Earth	16036-03-10 05:31 G	7578157.56	7578157.73	7578157.93	0.0134	0.0093
Moon	16036-03-10 09:07 G	7578157.69	7578157.88	7578158.08	0.0134	0.0087 *
Moon	16037-03-14 11:16 G	7578526.74	7578526.97	7578527.21	0.0134	0.0050
Earth	16037-03-14 14:52 G	7578526.89	7578527.12	7578527.37	0.0134	0.0046 *
Earth	16038-03-19 00:00 G	7578896.24	7578896.50	7578896.76	0.0133	0.0002
Moon	16038-03-19 03:36 G	7578896.39	7578896.65	7578896.90	0.0133	0.0003 *
Moon	16039-03-23 04:48 G	7579265.47	7579265.70	7579265.94	0.0133	0.0051
Earth	16039-03-23 08:38 G	7579265.63	7579265.86	7579266.10	0.0133	0.0048 *
Earth	16040-03-26 17:02 G	7579635.03	7579635.21	7579635.39	0.0133	0.0095
Moon	16040-03-26 20:09 G	7579635.17	7579635.34	7579635.55	0.0133	0.0090 *

Venus	16045-07-27 10:33 G	7581583.87	7581583.94	7581584.04	0.0133	0.0121
Venus	16046-03-10 15:50 G	7581810.00	7581810.16	7581810.34	0.0133	0.0083
Mercury	16046-04-29 12:14 G	7581860.01	7581860.01	7581860.03	0.0133	0.0132
Mercury	16046-07-26 16:19 G	7581948.11	7581948.18	7581948.27	0.0133	0.0114
Venus	16046-10-22 21:07 G	7582036.18	7582036.38	7582036.59	0.0133	0.0045
Mercury	16046-10-22 20:38 G	7582036.26	7582036.36	7582036.47	0.0133	0.0095 *
Mercury	16047-01-19 00:43 G	7582124.41	7582124.53	7582124.66	0.0133	0.0077
Mercury	16047-04-17 04:48 G	7582212.57	7582212.70	7582212.84	0.0133	0.0059
Venus	16047-06-06 02:24 G	7582262.38	7582262.60	7582262.82	0.0133	0.0007
Mercury	16047-07-14 08:52 G	7582300.73	7582300.87	7582301.01	0.0133	0.0041
Mercury	16047-10-10 12:57 G	7582388.89	7582389.04	7582389.19	0.0133	0.0023
Mercury	16048-01-06 16:48 G	7582477.05	7582477.20	7582477.35	0.0133	0.0006
Venus	16048-01-18 07:26 G	7582488.60	7582488.81	7582489.03	0.0133	0.0031
Mercury	16048-04-03 20:52 G	7582565.22	7582565.37	7582565.52	0.0133	0.0013
Mercury	16048-07-01 00:43 G	7582653.39	7582653.53	7582653.68	0.0133	0.0031
Venus	16048-08-31 12:28 G	7582714.84	7582715.02	7582715.22	0.0133	0.0070
Mercury	16048-09-27 04:33 G	7582741.56	7582741.69	7582741.83	0.0133	0.0048
Mercury	16048-12-24 08:38 G	7582829.73	7582829.86	7582829.98	0.0133	0.0066
Mercury	16049-03-22 12:14 G	7582917.90	7582918.01	7582918.13	0.0133	0.0083
Venus	16049-04-14 17:45 G	7582941.12	7582941.24	7582941.37	0.0133	0.0108
Mercury	16049-06-18 16:04 G	7583006.08	7583006.17	7583006.27	0.0133	0.0100
Mercury	16049-09-14 19:55 G	7583094.27	7583094.33	7583094.40	0.0133	0.0117
Mars	16065-09-28 09:36 G	7588951.88	7588951.90	7588951.96	0.0139	0.0137
Mars	16067-08-30 13:26 G	7589652.77	7589653.06	7589653.36	0.0140	0.0020
Mars	16069-08-01 07:26 G	7590354.63	7590354.81	7590355.03	0.0141	0.0106
Moon	16078-09-05 19:12 G	7593677.21	7593677.30	7593677.40	0.0145	0.0133
Earth	16078-09-05 22:48 G	7593677.40	7593677.45	7593677.51	0.0145	0.0140 *
Earth	16079-09-10 20:52 G	7594047.18	7594047.37	7594047.59	0.0145	0.0082
Moon	16079-09-11 00:43 G	7594047.34	7594047.53	7594047.73	0.0145	0.0089 *
Moon	16080-09-14 17:02 G	7594416.96	7594417.21	7594417.46	0.0145	0.0016

Earth	16080-09-14 20:09 G	7594417.09	7594417.34	7594417.59	0.0145	0.0023 *
Earth	16081-09-19 19:12 G	7594787.06	7594787.30	7594787.55	0.0145	0.0037
Moon	16081-09-19 22:19 G	7594787.20	7594787.43	7594787.68	0.0145	0.0034 *
Moon	16082-09-24 16:19 G	7595157.00	7595157.18	7595157.38	0.0145	0.0096
Earth	16082-09-24 18:43 G	7595157.11	7595157.28	7595157.48	0.0145	0.0097 *
Venus	16087-09-18 03:07 G	7596976.49	7596976.63	7596976.81	0.0145	0.0099
Mercury	16088-01-30 20:52 G	7597111.33	7597111.37	7597111.43	0.0145	0.0137
Mercury	16088-04-28 02:52 G	7597199.52	7597199.62	7597199.72	0.0145	0.0113
Venus	16088-05-01 15:36 G	7597202.96	7597203.15	7597203.37	0.0145	0.0049
Mercury	16088-07-25 08:38 G	7597287.74	7597287.86	7597287.99	0.0145	0.0088
Mercury	16088-10-21 14:38 G	7597375.96	7597376.11	7597376.26	0.0145	0.0063
Venus	16088-12-14 04:19 G	7597429.46	7597429.68	7597429.90	0.0145	0.0003
Mercury	16089-01-17 20:38 G	7597464.20	7597464.36	7597464.52	0.0145	0.0037
Mercury	16089-04-16 02:38 G	7597552.45	7597552.61	7597552.78	0.0145	0.0012
Mercury	16089-07-13 08:52 G	7597640.70	7597640.87	7597641.03	0.0145	0.0014
Venus	16089-07-28 16:48 G	7597656.00	7597656.20	7597656.41	0.0145	0.0052
Mercury	16089-10-09 14:52 G	7597728.96	7597729.12	7597729.28	0.0145	0.0040
Mercury	16090-01-05 20:52 G	7597817.23	7597817.37	7597817.53	0.0145	0.0067
Venus	16090-03-12 04:48 G	7597882.56	7597882.70	7597882.87	0.0145	0.0102
Mercury	16090-04-04 03:07 G	7597905.51	7597905.63	7597905.77	0.0145	0.0093
Mercury	16090-07-01 09:36 G	7597993.81	7597993.90	7597994.00	0.0145	0.0119
Mercury	16090-09-27 16:04 G	7598082.17	7598082.17	7598082.17	0.0145	0.0145
Mars	16106-04-25 08:52 G	7603769.62	7603769.87	7603770.15	0.0139	0.0078
Mars	16108-03-29 01:26 G	7604473.28	7604473.56	7604473.87	0.0138	0.0052
Moon	16119-03-08 05:02 G	7608469.65	7608469.71	7608469.79	0.0134	0.0128
Earth	16120-03-11 17:45 G	7608839.06	7608839.24	7608839.45	0.0134	0.0088
Moon	16120-03-11 21:36 G	7608839.21	7608839.40	7608839.58	0.0134	0.0094 *
Moon	16121-03-16 00:14 G	7609208.27	7609208.51	7609208.76	0.0134	0.0037
Earth	16121-03-16 03:21 G	7609208.40	7609208.64	7609208.89	0.0134	0.0041 *
Earth	16122-03-20 12:28 G	7609577.77	7609578.02	7609578.28	0.0133	0.0007

Moon	16122-03-20 16:19 G	7609577.92	7609578.18	7609578.44	0.0133	0.0006 *
Moon	16123-03-24 17:45 G	7609947.01	7609947.24	7609947.48	0.0133	0.0052
Earth	16123-03-24 21:07 G	7609947.15	7609947.38	7609947.62	0.0133	0.0054 *
Earth	16124-03-28 05:16 G	7610316.57	7610316.72	7610316.91	0.0133	0.0100
Moon	16124-03-28 09:07 G	7610316.74	7610316.88	7610317.05	0.0133	0.0106 *
Venus	16129-11-09 03:50 G	7612368.52	7612368.66	7612368.81	0.0133	0.0098
Mercury	16130-05-20 20:09 G	7612561.29	7612561.34	7612561.39	0.0133	0.0125
Venus	16130-06-23 08:52 G	7612594.68	7612594.87	7612595.07	0.0133	0.0060
Mercury	16130-08-17 00:00 G	7612649.42	7612649.50	7612649.60	0.0133	0.0107
Mercury	16130-11-13 04:04 G	7612737.57	7612737.67	7612737.80	0.0133	0.0089
Venus	16131-02-04 14:24 G	7612820.88	7612821.10	7612821.31	0.0133	0.0022
Mercury	16131-02-09 08:24 G	7612825.73	7612825.85	7612825.98	0.0133	0.0070
Mercury	16131-05-08 12:28 G	7612913.89	7612914.02	7612914.16	0.0133	0.0052
Mercury	16131-08-04 16:33 G	7613002.05	7613002.19	7613002.34	0.0133	0.0034
Venus	16131-09-18 19:26 G	7613047.10	7613047.31	7613047.53	0.0133	0.0016
Mercury	16131-10-31 20:38 G	7613090.21	7613090.36	7613090.51	0.0133	0.0016
Mercury	16132-01-28 00:43 G	7613178.38	7613178.53	7613178.68	0.0133	0.0003
Mercury	16132-04-25 04:33 G	7613266.54	7613266.69	7613266.84	0.0133	0.0020
Venus	16132-05-02 00:28 G	7613273.32	7613273.52	7613273.72	0.0133	0.0054
Mercury	16132-07-22 08:24 G	7613354.71	7613354.85	7613355.00	0.0133	0.0038
Mercury	16132-10-18 12:14 G	7613442.88	7613443.01	7613443.15	0.0133	0.0055
Venus	16132-12-14 05:16 G	7613499.58	7613499.72	7613499.89	0.0133	0.0093
Mercury	16133-01-14 16:04 G	7613531.06	7613531.17	7613531.30	0.0133	0.0073
Mercury	16133-04-12 20:09 G	7613619.23	7613619.34	7613619.45	0.0133	0.0090
Mercury	16133-07-09 23:45 G	7613707.41	7613707.49	7613707.58	0.0133	0.0107
Venus	16133-07-28 10:33 G	7613725.91	7613725.94	7613726.00	0.0133	0.0130
Mercury	16133-10-06 03:21 G	7613795.61	7613795.64	7613795.71	0.0133	0.0125
Mars	16150-05-25 08:09 G	7619870.63	7619870.84	7619871.09	0.0139	0.0088
Mars	16152-04-25 16:19 G	7620571.90	7620572.18	7620572.48	0.0140	0.0034
Moon	16162-09-07 08:38 G	7624358.82	7624358.86	7624358.92	0.0144	0.0141

Earth	16162-09-07 11:45 G	7624358.93	7624358.99	7624359.10	0.0144	0.0136
Earth	16163-09-12 10:33 G	7624728.73	7624728.94	7624729.16	0.0145	0.0077
Moon	16163-09-12 14:09 G	7624728.87	7624729.09	7624729.31	0.0145	0.0069 *
Moon	16164-09-16 05:45 G	7625098.49	7625098.74	7625098.99	0.0145	0.0025
Earth	16164-09-16 09:21 G	7625098.65	7625098.89	7625099.15	0.0145	0.0018 *
Earth	16165-09-21 08:38 G	7625468.62	7625468.86	7625469.10	0.0145	0.0042
Moon	16165-09-21 11:31 G	7625468.75	7625468.98	7625469.23	0.0145	0.0045 *
Moon	16166-09-26 04:48 G	7625838.54	7625838.70	7625838.90	0.0145	0.0103
Earth	16166-09-26 08:09 G	7625838.68	7625838.84	7625839.03	0.0145	0.0103 *
Venus	16171-05-19 10:48 G	7627534.84	7627534.95	7627535.09	0.0146	0.0119
Venus	16171-12-31 23:16 G	7627761.29	7627761.47	7627761.67	0.0145	0.0070
Mercury	16172-02-21 04:48 G	7627812.64	7627812.70	7627812.78	0.0145	0.0129
Mercury	16172-05-19 10:33 G	7627900.84	7627900.94	7627901.06	0.0145	0.0104
Venus	16172-08-14 12:00 G	7627987.79	7627988.00	7627988.22	0.0145	0.0019
Mercury	16172-08-15 16:33 G	7627989.06	7627989.19	7627989.33	0.0145	0.0079
Mercury	16172-11-11 22:33 G	7628077.29	7628077.44	7628077.59	0.0145	0.0054
Mercury	16173-02-08 04:33 G	7628165.53	7628165.69	7628165.85	0.0145	0.0029
Venus	16173-03-29 00:28 G	7628214.31	7628214.52	7628214.73	0.0145	0.0031
Mercury	16173-05-07 10:33 G	7628253.78	7628253.94	7628254.11	0.0145	0.0005
Mercury	16173-08-03 16:48 G	7628342.03	7628342.20	7628342.36	0.0145	0.0023
Mercury	16173-10-30 22:48 G	7628430.30	7628430.45	7628430.61	0.0145	0.0049
Venus	16173-11-10 12:43 G	7628440.85	7628441.03	7628441.21	0.0145	0.0081
Mercury	16174-01-27 05:02 G	7628518.57	7628518.71	7628518.85	0.0145	0.0075
Mercury	16174-04-25 11:02 G	7628606.85	7628606.96	7628607.09	0.0145	0.0101
Venus	16174-06-25 00:43 G	7628667.45	7628667.53	7628667.63	0.0145	0.0130
Mercury	16174-07-22 17:31 G	7628695.16	7628695.23	7628695.31	0.0145	0.0127
Mars	16190-12-20 03:07 G	7634689.32	7634689.63	7634689.95	0.0139	0.0022
Mars	16192-11-22 14:38 G	7635392.93	7635393.11	7635393.33	0.0138	0.0106
Earth	16203-03-09 20:52 G	7639151.34	7639151.37	7639151.44	0.0134	0.0131
Earth	16204-03-13 06:43 G	7639520.59	7639520.78	7639520.99	0.0134	0.0084

Moon	16204-03-13 09:50 G	7639520.71	7639520.91	7639521.14	0.0134	0.0078 *
Moon	16205-03-17 12:57 G	7639889.81	7639890.04	7639890.29	0.0134	0.0042
Earth	16205-03-17 16:19 G	7639889.94	7639890.18	7639890.43	0.0134	0.0036 *
Earth	16206-03-22 01:26 G	7640259.30	7640259.56	7640259.82	0.0133	0.0011
Moon	16206-03-22 04:33 G	7640259.43	7640259.69	7640259.95	0.0133	0.0013 *
Moon	16207-03-26 06:28 G	7640628.56	7640628.77	7640629.01	0.0133	0.0061
Earth	16207-03-26 10:04 G	7640628.70	7640628.92	7640629.16	0.0133	0.0058 *
Earth	16208-03-29 18:28 G	7640998.13	7640998.27	7640998.44	0.0133	0.0105
Moon	16208-03-29 22:04 G	7640998.26	7640998.42	7640998.60	0.0133	0.0101 *
Venus	16213-07-10 15:21 G	7642927.05	7642927.14	7642927.27	0.0133	0.0113
Venus	16214-02-21 20:52 G	7643153.20	7643153.37	7643153.56	0.0133	0.0075
Mercury	16214-06-11 03:50 G	7643262.59	7643262.66	7643262.73	0.0133	0.0118
Mercury	16214-09-07 07:55 G	7643350.74	7643350.83	7643350.93	0.0133	0.0100
Venus	16214-10-06 02:09 G	7643379.38	7643379.59	7643379.80	0.0133	0.0037
Mercury	16214-12-04 12:00 G	7643438.89	7643439.00	7643439.13	0.0133	0.0082
Mercury	16215-03-02 16:19 G	7643527.04	7643527.18	7643527.31	0.0133	0.0063
Venus	16215-05-20 07:12 G	7643605.58	7643605.80	7643606.02	0.0133	0.0001
Mercury	16215-05-29 20:09 G	7643615.20	7643615.34	7643615.49	0.0133	0.0046
Mercury	16215-08-26 00:14 G	7643703.37	7643703.51	7643703.66	0.0133	0.0027
Mercury	16215-11-22 04:19 G	7643791.53	7643791.68	7643791.83	0.0133	0.0009
Venus	16216-01-01 12:14 G	7643831.81	7643832.01	7643832.22	0.0133	0.0039
Mercury	16216-02-18 08:24 G	7643879.70	7643879.85	7643880.00	0.0133	0.0009
Mercury	16216-05-16 12:14 G	7643967.87	7643968.01	7643968.16	0.0133	0.0026
Mercury	16216-08-12 16:04 G	7644056.04	7644056.17	7644056.32	0.0133	0.0044
Venus	16216-08-14 17:02 G	7644058.05	7644058.21	7644058.40	0.0133	0.0078
Mercury	16216-11-08 20:09 G	7644144.21	7644144.34	7644144.47	0.0133	0.0062
Mercury	16217-02-04 23:45 G	7644232.38	7644232.49	7644232.62	0.0133	0.0080
Venus	16217-03-28 22:19 G	7644284.34	7644284.43	7644284.55	0.0133	0.0115
Mercury	16217-05-04 03:36 G	7644320.56	7644320.65	7644320.76	0.0133	0.0097
Mercury	16217-07-31 07:26 G	7644408.74	7644408.81	7644408.89	0.0133	0.0114

Mercury	16217-10-27 11:16 G	7644496.95	7644496.97	7644497.00	0.0133	0.0131
Mars	16235-01-19 06:57 G	7650789.51	7650789.79	7650790.08	0.0139	0.0036
Mars	16236-12-20 20:09 G	7651491.12	7651491.34	7651491.59	0.0140	0.0089
Moon	16246-09-08 21:07 G	7655040.26	7655040.38	7655040.51	0.0144	0.0125
Earth	16246-09-09 00:14 G	7655040.43	7655040.51	7655040.64	0.0144	0.0132 *
Earth	16247-09-13 22:33 G	7655410.24	7655410.44	7655410.68	0.0145	0.0073
Moon	16247-09-14 02:24 G	7655410.40	7655410.60	7655410.82	0.0145	0.0080 *
Moon	16248-09-17 18:14 G	7655780.01	7655780.26	7655780.52	0.0145	0.0007
Earth	16248-09-17 21:50 G	7655780.16	7655780.41	7655780.66	0.0145	0.0013 *
Earth	16249-09-22 20:52 G	7656150.14	7656150.37	7656150.61	0.0145	0.0047
Moon	16249-09-23 00:28 G	7656150.29	7656150.52	7656150.77	0.0145	0.0043 *
Moon	16250-09-27 17:02 G	7656520.06	7656520.21	7656520.41	0.0145	0.0108
Earth	16250-09-27 20:24 G	7656520.20	7656520.35	7656520.53	0.0145	0.0108 *
Venus	16255-01-17 17:31 G	7658093.20	7658093.23	7658093.29	0.0145	0.0142
Venus	16255-09-01 06:14 G	7658319.60	7658319.76	7658319.93	0.0145	0.0092
Mercury	16256-03-13 12:28 G	7658513.94	7658514.02	7658514.11	0.0145	0.0122
Venus	16256-04-14 18:43 G	7658546.07	7658546.28	7658546.49	0.0145	0.0042
Mercury	16256-06-09 18:14 G	7658602.15	7658602.26	7658602.39	0.0145	0.0097
Mercury	16256-09-06 00:00 G	7658690.37	7658690.50	7658690.65	0.0145	0.0073
Venus	16256-11-27 06:57 G	7658772.57	7658772.79	7658773.01	0.0145	0.0008
Mercury	16256-12-03 06:00 G	7658778.60	7658778.75	7658778.91	0.0145	0.0047
Mercury	16257-03-01 12:14 G	7658866.85	7658867.01	7658867.17	0.0145	0.0022
Mercury	16257-05-28 18:14 G	7658955.09	7658955.26	7658955.42	0.0145	0.0004
Venus	16257-07-11 18:57 G	7658999.11	7658999.29	7658999.50	0.0145	0.0059
Mercury	16257-08-25 00:14 G	7659043.35	7659043.51	7659043.67	0.0145	0.0030
Mercury	16257-11-21 06:28 G	7659131.61	7659131.77	7659131.92	0.0145	0.0056
Mercury	16258-02-17 12:14 G	7659219.89	7659220.01	7659220.16	0.0145	0.0083
Venus	16258-02-23 07:26 G	7659225.67	7659225.81	7659225.96	0.0145	0.0107
Mercury	16258-05-16 18:28 G	7659308.17	7659308.27	7659308.40	0.0145	0.0109
Mercury	16258-08-13 00:57 G	7659396.49	7659396.54	7659396.61	0.0145	0.0134

Mars	16273-09-11 16:33 G	7664904.99	7664905.19	7664905.44	0.0139	0.0100
Mars	16275-08-16 16:19 G	7665608.88	7665609.18	7665609.50	0.0138	0.0033
Moon	16287-03-10 05:45 G	7669832.65	7669832.74	7669832.86	0.0134	0.0121
Earth	16287-03-10 08:09 G	7669832.79	7669832.84	7669832.94	0.0134	0.0128 *
Earth	16288-03-13 18:14 G	7670202.07	7670202.26	7670202.48	0.0134	0.0080
Moon	16288-03-13 20:52 G	7670202.18	7670202.37	7670202.58	0.0134	0.0087 *
Moon	16289-03-18 01:12 G	7670571.31	7670571.55	7670571.80	0.0134	0.0028
Earth	16289-03-18 03:50 G	7670571.42	7670571.66	7670571.92	0.0134	0.0033 *
Earth	16290-03-22 13:12 G	7670940.80	7670941.05	7670941.31	0.0133	0.0015
Moon	16290-03-22 16:33 G	7670940.93	7670941.19	7670941.45	0.0133	0.0014 *
Moon	16291-03-26 19:12 G	7671310.09	7671310.30	7671310.53	0.0133	0.0063
Earth	16291-03-26 22:04 G	7671310.20	7671310.42	7671310.65	0.0133	0.0063 *
Earth	16292-03-30 06:43 G	7671679.65	7671679.78	7671679.94	0.0133	0.0109
Moon	16292-03-30 09:50 G	7671679.80	7671679.91	7671680.06	0.0133	0.0115 *
Venus	16297-03-10 03:07 G	7673485.58	7673485.63	7673485.70	0.0133	0.0128
Venus	16297-10-22 08:24 G	7673711.69	7673711.85	7673712.01	0.0133	0.0090
Mercury	16298-04-04 07:12 G	7673875.78	7673875.80	7673875.83	0.0133	0.0131
Venus	16298-06-05 13:12 G	7673937.86	7673938.05	7673938.26	0.0133	0.0053
Mercury	16298-07-01 11:16 G	7673963.90	7673963.97	7673964.06	0.0133	0.0112
Mercury	16298-09-27 15:21 G	7674052.04	7674052.14	7674052.26	0.0133	0.0094
Mercury	16298-12-24 19:40 G	7674140.20	7674140.32	7674140.45	0.0133	0.0075
Venus	16299-01-17 18:28 G	7674164.06	7674164.27	7674164.49	0.0133	0.0015
Mercury	16299-03-22 23:45 G	7674228.36	7674228.49	7674228.63	0.0133	0.0057
Mercury	16299-06-19 03:50 G	7674316.52	7674316.66	7674316.81	0.0133	0.0039
Venus	16299-08-31 23:45 G	7674390.27	7674390.49	7674390.70	0.0133	0.0023
Mercury	16299-09-15 07:55 G	7674404.68	7674404.83	7674404.98	0.0133	0.0021
Mercury	16299-12-12 12:00 G	7674492.85	7674493.00	7674493.15	0.0133	0.0004
Mercury	16300-03-10 15:50 G	7674581.01	7674581.16	7674581.31	0.0133	0.0015
Venus	16300-04-15 04:48 G	7674616.51	7674616.70	7674616.89	0.0133	0.0061
Mercury	16300-06-06 19:55 G	7674669.18	7674669.33	7674669.47	0.0133	0.0033

Mercury	16300-09-02 23:45 G	7674757.35	7674757.49	7674757.63	0.0133	0.0050
Venus	16300-11-27 09:36 G	7674842.77	7674842.90	7674843.06	0.0133	0.0100
Mercury	16300-11-30 03:21 G	7674845.53	7674845.64	7674845.78	0.0133	0.0069
Mercury	16301-02-26 07:26 G	7674933.70	7674933.81	7674933.93	0.0133	0.0085
Mercury	16301-05-25 11:16 G	7675021.88	7675021.97	7675022.07	0.0133	0.0103
Mercury	16301-08-21 15:07 G	7675110.07	7675110.13	7675110.20	0.0133	0.0120
Mars	16317-10-14 02:38 G	7681007.42	7681007.61	7681007.81	0.0139	0.0103
Mars	16319-09-15 06:28 G	7681708.48	7681708.77	7681709.07	0.0140	0.0017
Moon	16330-09-10 09:21 G	7685721.81	7685721.89	7685722.01	0.0144	0.0133
Earth	16330-09-10 12:28 G	7685721.92	7685722.02	7685722.15	0.0144	0.0128 *
Earth	16331-09-15 11:02 G	7686091.75	7686091.96	7686092.19	0.0145	0.0069
Moon	16331-09-15 14:38 G	7686091.89	7686092.11	7686092.35	0.0145	0.0061 *
Moon	16332-09-19 06:28 G	7686461.52	7686461.77	7686462.02	0.0145	0.0017
Earth	16332-09-19 10:04 G	7686461.67	7686461.92	7686462.17	0.0145	0.0009 *
Earth	16333-09-24 09:21 G	7686831.66	7686831.89	7686832.13	0.0145	0.0051
Moon	16333-09-24 12:43 G	7686831.81	7686832.03	7686832.27	0.0145	0.0055 *
Moon	16334-09-29 05:02 G	7687201.57	7687201.71	7687201.89	0.0145	0.0111
Earth	16334-09-29 08:52 G	7687201.73	7687201.87	7687202.05	0.0145	0.0112 *
Venus	16339-05-02 13:12 G	7688877.92	7688878.05	7688878.20	0.0145	0.0113
Venus	16339-12-15 01:26 G	7689104.38	7689104.56	7689104.77	0.0145	0.0064
Mercury	16340-01-06 14:09 G	7689127.06	7689127.09	7689127.15	0.0145	0.0139
Mercury	16340-04-03 20:09 G	7689215.25	7689215.34	7689215.45	0.0145	0.0114
Mercury	16340-07-01 01:55 G	7689303.46	7689303.58	7689303.72	0.0145	0.0089
Venus	16340-07-28 14:09 G	7689330.88	7689331.09	7689331.31	0.0145	0.0013
Mercury	16340-09-27 07:55 G	7689391.69	7689391.83	7689391.98	0.0145	0.0064
Mercury	16340-12-24 13:55 G	7689479.92	7689480.08	7689480.24	0.0145	0.0039
Venus	16341-03-12 02:24 G	7689557.39	7689557.60	7689557.82	0.0145	0.0037
Mercury	16341-03-22 19:55 G	7689568.17	7689568.33	7689568.49	0.0145	0.0014
Mercury	16341-06-19 01:55 G	7689656.42	7689656.58	7689656.75	0.0145	0.0012
Mercury	16341-09-15 07:55 G	7689744.67	7689744.83	7689744.99	0.0145	0.0038

Venus	16341-10-24 14:24 G	7689783.94	7689784.10	7689784.29	0.0145	0.0086
Mercury	16341-12-12 13:55 G	7689832.94	7689833.08	7689833.24	0.0145	0.0064
Mercury	16342-03-10 20:09 G	7689921.22	7689921.34	7689921.48	0.0145	0.0090
Mercury	16342-06-07 02:24 G	7690009.51	7690009.60	7690009.71	0.0145	0.0116
Venus	16342-06-08 02:38 G	7690010.55	7690010.61	7690010.70	0.0145	0.0135
Mercury	16342-09-03 08:52 G	7690097.84	7690097.87	7690097.90	0.0145	0.0143
Mars	16358-05-09 11:31 G	7695824.69	7695824.98	7695825.30	0.0139	0.0043
Mars	16360-04-12 05:16 G	7696528.50	7696528.72	7696528.99	0.0138	0.0089
Moon	16371-03-11 18:28 G	7700514.24	7700514.27	7700514.34	0.0134	0.0131
Earth	16371-03-11 20:09 G	7700514.27	7700514.34	7700514.46	0.0134	0.0125 *
Earth	16372-03-15 06:14 G	7700883.57	7700883.76	7700883.99	0.0134	0.0077
Moon	16372-03-15 08:52 G	7700883.65	7700883.87	7700884.10	0.0134	0.0070 *
Moon	16373-03-19 13:55 G	7701252.84	7701253.08	7701253.32	0.0134	0.0034
Earth	16373-03-19 16:04 G	7701252.93	7701253.17	7701253.43	0.0134	0.0029 *
Earth	16374-03-24 01:12 G	7701622.31	7701622.55	7701622.81	0.0133	0.0020
Moon	16374-03-24 03:50 G	7701622.40	7701622.66	7701622.92	0.0133	0.0022 *
Moon	16375-03-28 07:40 G	7701991.61	7701991.82	7701992.04	0.0133	0.0068
Earth	16375-03-28 10:33 G	7701991.72	7701991.94	7701992.16	0.0133	0.0066 *
Earth	16376-03-31 19:12 G	7702361.18	7702361.30	7702361.44	0.0133	0.0113
Moon	16376-03-31 21:36 G	7702361.28	7702361.40	7702361.57	0.0133	0.0110 *
Venus	16381-06-22 19:40 G	7704270.19	7704270.32	7704270.46	0.0133	0.0105
Venus	16382-02-04 00:43 G	7704496.36	7704496.53	7704496.73	0.0133	0.0068
Mercury	16382-04-25 14:38 G	7704577.07	7704577.11	7704577.17	0.0133	0.0124
Mercury	16382-07-22 18:57 G	7704665.20	7704665.29	7704665.39	0.0133	0.0105
Venus	16382-09-18 06:00 G	7704722.54	7704722.75	7704722.97	0.0133	0.0030
Mercury	16382-10-18 23:02 G	7704753.35	7704753.46	7704753.58	0.0133	0.0087
Mercury	16383-01-15 03:07 G	7704841.51	7704841.63	7704841.77	0.0133	0.0069
Mercury	16383-04-13 07:26 G	7704929.67	7704929.81	7704929.95	0.0133	0.0051
Venus	16383-05-02 11:02 G	7704948.75	7704948.96	7704949.18	0.0133	0.0009
Mercury	16383-07-10 11:31 G	7705017.83	7705017.98	7705018.12	0.0133	0.0032

Mercury	16383-10-06 15:21 G	7705106.00	7705106.14	7705106.30	0.0133	0.0015
Venus	16383-12-14 16:04 G	7705174.97	7705175.17	7705175.38	0.0133	0.0046
Mercury	16384-01-02 19:26 G	7705194.16	7705194.31	7705194.46	0.0133	0.0004
Mercury	16384-03-30 23:31 G	7705282.33	7705282.48	7705282.63	0.0133	0.0021
Mercury	16384-06-27 03:21 G	7705370.50	7705370.64	7705370.79	0.0133	0.0039
Venus	16384-07-27 21:07 G	7705401.22	7705401.38	7705401.56	0.0133	0.0084
Mercury	16384-09-23 07:12 G	7705458.67	7705458.80	7705458.94	0.0133	0.0057
Mercury	16384-12-20 11:02 G	7705546.85	7705546.96	7705547.09	0.0133	0.0075
Venus	16385-03-11 02:24 G	7705627.53	7705627.60	7705627.70	0.0133	0.0122
Mercury	16385-03-18 15:07 G	7705635.03	7705635.13	7705635.24	0.0133	0.0092
Mercury	16385-06-14 18:43 G	7705723.21	7705723.28	7705723.37	0.0133	0.0109
Mercury	16385-09-10 22:33 G	7705811.41	7705811.44	7705811.50	0.0133	0.0127
Mars	16402-06-08 23:45 G	7711926.24	7711926.49	7711926.78	0.0139	0.0054
Mars	16404-05-10 06:43 G	7712627.54	7712627.78	7712628.05	0.0140	0.0070
Moon	16414-09-10 21:07 G	7716403.24	7716403.38	7716403.52	0.0144	0.0119
Earth	16414-09-10 23:45 G	7716403.39	7716403.49	7716403.64	0.0144	0.0125 *
Earth	16415-09-15 22:33 G	7716773.22	7716773.44	7716773.66	0.0144	0.0065
Moon	16415-09-16 01:12 G	7716773.35	7716773.55	7716773.79	0.0144	0.0073 *
Moon	16416-09-19 18:00 G	7717143.00	7717143.25	7717143.50	0.0145	0.0002
Earth	16416-09-19 21:36 G	7717143.14	7717143.40	7717143.65	0.0145	0.0006 *
Earth	16417-09-24 20:24 G	7717513.13	7717513.35	7717513.59	0.0145	0.0055
Moon	16417-09-25 00:14 G	7717513.28	7717513.51	7717513.75	0.0145	0.0050 *
Moon	16418-09-29 16:19 G	7717883.05	7717883.18	7717883.35	0.0145	0.0116
Earth	16418-09-29 19:55 G	7717883.19	7717883.33	7717883.49	0.0145	0.0116 *
Venus	16422-12-30 19:12 G	7719436.24	7719436.30	7719436.39	0.0145	0.0135
Venus	16423-08-14 07:55 G	7719662.66	7719662.83	7719663.01	0.0145	0.0086
Mercury	16424-01-26 21:50 G	7719828.34	7719828.41	7719828.47	0.0145	0.0132
Venus	16424-03-27 20:09 G	7719889.13	7719889.34	7719889.56	0.0145	0.0036
Mercury	16424-04-24 03:21 G	7719916.54	7719916.64	7719916.76	0.0145	0.0108
Mercury	16424-07-21 09:21 G	7720004.76	7720004.89	7720005.03	0.0145	0.0083

Mercury	16424-10-17 15:21 G	7720092.99	7720093.14	7720093.29	0.0145	0.0058
Venus	16424-11-09 08:24 G	7720115.64	7720115.85	7720116.07	0.0145	0.0014
Mercury	16425-01-13 21:07 G	7720181.23	7720181.38	7720181.54	0.0145	0.0033
Mercury	16425-04-12 03:07 G	7720269.47	7720269.63	7720269.80	0.0145	0.0008
Venus	16425-06-23 20:38 G	7720342.17	7720342.36	7720342.56	0.0145	0.0063
Mercury	16425-07-09 09:07 G	7720357.72	7720357.88	7720358.05	0.0145	0.0019
Mercury	16425-10-05 15:21 G	7720445.98	7720446.14	7720446.30	0.0145	0.0044
Mercury	16426-01-01 21:21 G	7720534.25	7720534.39	7720534.54	0.0145	0.0070
Venus	16426-02-05 08:52 G	7720568.74	7720568.87	7720569.01	0.0145	0.0113
Mercury	16426-03-31 03:36 G	7720622.53	7720622.65	7720622.78	0.0145	0.0096
Mercury	16426-06-27 09:36 G	7720710.82	7720710.90	7720711.00	0.0145	0.0123
Mars	16441-01-28 17:45 G	7726040.13	7726040.24	7726040.42	0.0140	0.0125
Mars	16443-01-03 00:43 G	7726744.21	7726744.53	7726744.85	0.0139	0.0013
Moon	16455-03-12 05:16 G	7731195.61	7731195.72	7731195.87	0.0134	0.0115
Earth	16455-03-12 06:57 G	7731195.70	7731195.79	7731195.91	0.0134	0.0121 *
Earth	16456-03-15 17:02 G	7731565.01	7731565.21	7731565.44	0.0134	0.0073
Moon	16456-03-15 18:43 G	7731565.08	7731565.28	7731565.50	0.0134	0.0080 *
Moon	16457-03-20 01:26 G	7731934.31	7731934.56	7731934.80	0.0134	0.0020
Earth	16457-03-20 03:07 G	7731934.38	7731934.63	7731934.88	0.0134	0.0025 *
Earth	16458-03-24 12:14 G	7732303.77	7732304.01	7732304.27	0.0133	0.0024
Moon	16458-03-24 14:38 G	7732303.86	7732304.11	7732304.38	0.0133	0.0021 *
Moon	16459-03-28 19:40 G	7732673.12	7732673.32	7732673.54	0.0133	0.0071
Earth	16459-03-28 21:36 G	7732673.19	7732673.40	7732673.62	0.0133	0.0070 *
Earth	16460-04-01 06:28 G	7733042.66	7733042.77	7733042.90	0.0133	0.0117
Moon	16460-04-01 08:52 G	7733042.78	7733042.87	7733042.99	0.0133	0.0121 *
Venus	16465-02-20 06:28 G	7734828.69	7734828.77	7734828.87	0.0133	0.0121
Venus	16465-10-04 11:45 G	7735054.82	7735054.99	7735055.16	0.0133	0.0083
Mercury	16466-05-15 22:04 G	7735278.36	7735278.42	7735278.50	0.0133	0.0118
Venus	16466-05-18 16:33 G	7735281.00	7735281.19	7735281.41	0.0133	0.0046
Mercury	16466-08-12 02:09 G	7735366.50	7735366.59	7735366.70	0.0133	0.0100

Mercury	16466-11-08 06:28 G	7735454.66	7735454.77	7735454.90	0.0133	0.0081
Venus	16466-12-30 22:04 G	7735507.20	7735507.42	7735507.64	0.0133	0.0008
Mercury	16467-02-04 10:33 G	7735542.81	7735542.94	7735543.08	0.0133	0.0063
Mercury	16467-05-03 14:38 G	7735630.98	7735631.11	7735631.26	0.0133	0.0045
Mercury	16467-07-30 18:57 G	7735719.14	7735719.29	7735719.44	0.0133	0.0027
Venus	16467-08-14 03:07 G	7735733.42	7735733.63	7735733.85	0.0133	0.0030
Mercury	16467-10-26 23:02 G	7735807.31	7735807.46	7735807.61	0.0133	0.0009
Mercury	16468-01-23 02:52 G	7735895.47	7735895.62	7735895.77	0.0133	0.0010
Venus	16468-03-27 08:24 G	7735959.66	7735959.85	7735960.04	0.0133	0.0068
Mercury	16468-04-20 06:57 G	7735983.64	7735983.79	7735983.94	0.0133	0.0027
Mercury	16468-07-17 10:48 G	7736071.81	7736071.95	7736072.09	0.0133	0.0045
Mercury	16468-10-13 14:52 G	7736159.99	7736160.12	7736160.25	0.0133	0.0063
Venus	16468-11-08 13:26 G	7736185.94	7736186.06	7736186.20	0.0133	0.0107
Mercury	16469-01-09 18:28 G	7736248.16	7736248.27	7736248.40	0.0133	0.0081
Mercury	16469-04-07 22:33 G	7736336.34	7736336.44	7736336.54	0.0133	0.0098
Mercury	16469-07-05 02:09 G	7736424.53	7736424.59	7736424.67	0.0133	0.0115
Mercury	16469-10-01 06:00 G	7736512.75	7736512.75	7736512.78	0.0133	0.0133
Mars	16485-03-02 22:19 G	7742144.29	7742144.43	7742144.57	0.0139	0.0121
Mars	16487-02-01 20:09 G	7742845.05	7742845.34	7742845.64	0.0139	0.0003
Mars	16489-01-03 06:14 G	7743546.63	7743546.76	7743546.91	0.0140	0.0124
Moon	16498-09-11 09:07 G	7747084.77	7747084.88	7747085.01	0.0144	0.0124
Earth	16498-09-11 11:16 G	7747084.84	7747084.97	7747085.12	0.0144	0.0121 *
Earth	16499-09-16 09:36 G	7747454.68	7747454.90	7747455.14	0.0144	0.0062
Moon	16499-09-16 12:43 G	7747454.81	7747455.03	7747455.28	0.0144	0.0054 *
Moon	16500-09-21 05:31 G	7747824.49	7747824.73	7747824.98	0.0145	0.0010
Earth	16500-09-21 08:38 G	7747824.61	7747824.86	7747825.11	0.0145	0.0002 *
Earth	16501-09-26 07:26 G	7748194.59	7748194.81	7748195.05	0.0145	0.0059
Moon	16501-09-26 11:02 G	7748194.74	7748194.96	7748195.19	0.0145	0.0063 *
Moon	16502-10-01 03:36 G	7748564.50	7748564.65	7748564.79	0.0145	0.0118
Earth	16502-10-01 06:57 G	7748564.66	7748564.79	7748564.95	0.0145	0.0119 *

Venus	16507-04-14 13:40 G	7750220.94	7750221.07	7750221.23	0.0145	0.0109
Venus	16507-11-27 02:09 G	7750447.40	7750447.59	7750447.80	0.0145	0.0059
Mercury	16508-02-17 05:02 G	7750529.64	7750529.71	7750529.80	0.0145	0.0125
Mercury	16508-05-15 10:48 G	7750617.84	7750617.95	7750618.07	0.0145	0.0101
Venus	16508-07-10 14:38 G	7750673.90	7750674.11	7750674.33	0.0145	0.0009
Mercury	16508-08-11 16:33 G	7750706.06	7750706.19	7750706.34	0.0145	0.0076
Mercury	16508-11-07 22:33 G	7750794.29	7750794.44	7750794.60	0.0145	0.0051
Mercury	16509-02-04 04:33 G	7750882.53	7750882.69	7750882.85	0.0145	0.0026
Venus	16509-02-22 02:52 G	7750900.42	7750900.62	7750900.84	0.0145	0.0041
Mercury	16509-05-03 10:33 G	7750970.78	7750970.94	7750971.10	0.0145	0.0000
Mercury	16509-07-30 16:33 G	7751059.03	7751059.19	7751059.35	0.0145	0.0025
Venus	16509-10-06 15:07 G	7751126.97	7751127.13	7751127.31	0.0145	0.0091
Mercury	16509-10-26 22:33 G	7751147.29	7751147.44	7751147.60	0.0145	0.0051
Mercury	16510-01-23 04:48 G	7751235.56	7751235.70	7751235.84	0.0145	0.0077
Mercury	16510-04-21 11:02 G	7751323.84	7751323.96	7751324.08	0.0145	0.0103
Venus	16510-05-21 03:07 G	7751353.59	7751353.63	7751353.70	0.0145	0.0140
Mercury	16510-07-18 17:02 G	7751412.15	7751412.21	7751412.29	0.0145	0.0130
Mars	16525-09-25 13:55 G	7756959.80	7756960.08	7756960.37	0.0139	0.0067
Mars	16527-08-30 14:52 G	7757663.86	7757664.12	7757664.41	0.0138	0.0069
Earth	16539-03-13 18:28 G	7761877.16	7761877.27	7761877.40	0.0134	0.0117
Moon	16539-03-13 17:45 G	7761877.17	7761877.24	7761877.35	0.0134	0.0124 *
Earth	16540-03-17 04:48 G	7762246.48	7762246.70	7762246.92	0.0134	0.0069
Moon	16540-03-17 05:45 G	7762246.52	7762246.74	7762246.99	0.0134	0.0063 *
Moon	16541-03-21 13:26 G	7762615.81	7762616.06	7762616.30	0.0134	0.0027
Earth	16541-03-21 14:38 G	7762615.86	7762616.11	7762616.37	0.0134	0.0021 *
Earth	16542-03-25 23:45 G	7762985.25	7762985.49	7762985.75	0.0133	0.0028
Moon	16542-03-26 01:12 G	7762985.30	7762985.55	7762985.81	0.0133	0.0031 *
Moon	16543-03-30 07:26 G	7763354.61	7763354.81	7763355.02	0.0133	0.0075
Earth	16543-03-30 09:07 G	7763354.68	7763354.88	7763355.10	0.0133	0.0075 *
Earth	16544-04-02 18:14 G	7763724.16	7763724.26	7763724.36	0.0133	0.0122

Moon	16544-04-02 19:26 G	7763724.22	7763724.31	7763724.45	0.0133	0.0120 *
Venus	16549-06-04 22:19 G	7765613.30	7765613.43	7765613.59	0.0133	0.0099
Venus	16550-01-17 03:50 G	7765839.47	7765839.66	7765839.86	0.0133	0.0061
Mercury	16550-03-10 01:12 G	7765891.54	7765891.55	7765891.59	0.0133	0.0131
Mercury	16550-06-06 05:31 G	7765979.66	7765979.73	7765979.82	0.0133	0.0112
Venus	16550-08-31 09:07 G	7766065.67	7766065.88	7766066.10	0.0133	0.0023
Mercury	16550-09-02 09:50 G	7766067.81	7766067.91	7766068.02	0.0133	0.0093
Mercury	16550-11-29 13:55 G	7766155.96	7766156.08	7766156.21	0.0133	0.0075
Mercury	16551-02-25 18:00 G	7766244.12	7766244.25	7766244.40	0.0133	0.0057
Venus	16551-04-14 14:09 G	7766291.88	7766292.09	7766292.31	0.0133	0.0015
Mercury	16551-05-24 22:19 G	7766332.29	7766332.43	7766332.58	0.0133	0.0038
Mercury	16551-08-21 02:24 G	7766420.45	7766420.60	7766420.75	0.0133	0.0020
Mercury	16551-11-17 06:28 G	7766508.62	7766508.77	7766508.92	0.0133	0.0003
Venus	16551-11-26 19:12 G	7766518.11	7766518.30	7766518.51	0.0133	0.0053
Mercury	16552-02-13 10:19 G	7766596.79	7766596.93	7766597.08	0.0133	0.0016
Mercury	16552-05-11 14:24 G	7766684.96	7766685.10	7766685.25	0.0133	0.0034
Venus	16552-07-10 00:14 G	7766744.37	7766744.51	7766744.69	0.0133	0.0092
Mercury	16552-08-07 18:14 G	7766773.13	7766773.26	7766773.40	0.0133	0.0052
Mercury	16552-11-03 22:04 G	7766861.30	7766861.42	7766861.56	0.0133	0.0069
Mercury	16553-01-31 02:09 G	7766949.48	7766949.59	7766949.70	0.0133	0.0086
Venus	16553-02-21 05:31 G	7766970.70	7766970.73	7766970.81	0.0133	0.0130
Mercury	16553-04-29 05:45 G	7767037.66	7767037.74	7767037.85	0.0133	0.0105
Mercury	16553-07-26 09:50 G	7767125.86	7767125.91	7767125.97	0.0133	0.0121
Mars	16569-10-27 16:48 G	7773062.97	7773063.20	7773063.47	0.0139	0.0072
Mars	16571-09-28 17:31 G	7773763.97	7773764.23	7773764.52	0.0140	0.0051
Moon	16582-09-12 20:38 G	7777766.22	7777766.36	7777766.52	0.0144	0.0113
Earth	16582-09-12 23:02 G	7777766.31	7777766.46	7777766.61	0.0144	0.0116 *
Earth	16583-09-17 20:52 G	7778136.15	7778136.37	7778136.61	0.0144	0.0058
Moon	16583-09-17 23:31 G	7778136.25	7778136.48	7778136.71	0.0144	0.0064 *
Moon	16584-09-21 17:02 G	7778505.96	7778506.21	7778506.46	0.0145	0.0010

Earth	16584-09-21 19:55 G	7778506.08	7778506.33	7778506.58	0.0145	0.0003 *
Earth	16585-09-26 18:43 G	7778876.06	7778876.28	7778876.51	0.0145	0.0063
Moon	16585-09-26 22:04 G	7778876.19	7778876.42	7778876.66	0.0145	0.0057 *
Moon	16586-10-01 14:38 G	7779246.00	7779246.11	7779246.24	0.0145	0.0125
Earth	16586-10-01 18:00 G	7779246.13	7779246.25	7779246.39	0.0145	0.0123 *
Venus	16590-12-12 19:55 G	7780779.24	7780779.33	7780779.43	0.0145	0.0131
Venus	16591-07-27 08:09 G	7781005.67	7781005.84	7781006.03	0.0145	0.0082
Mercury	16591-12-11 06:28 G	7781142.76	7781142.77	7781142.80	0.0145	0.0144
Mercury	16592-03-08 12:14 G	7781230.93	7781231.01	7781231.11	0.0145	0.0119
Venus	16592-03-09 20:38 G	7781232.15	7781232.36	7781232.58	0.0145	0.0032
Mercury	16592-06-04 18:14 G	7781319.14	7781319.26	7781319.38	0.0145	0.0094
Mercury	16592-08-31 23:45 G	7781407.36	7781407.49	7781407.64	0.0145	0.0070
Venus	16592-10-22 08:52 G	7781458.66	7781458.87	7781459.09	0.0145	0.0018
Mercury	16592-11-28 05:45 G	7781495.59	7781495.74	7781495.90	0.0145	0.0045
Mercury	16593-02-24 11:45 G	7781583.83	7781583.99	7781584.16	0.0145	0.0020
Mercury	16593-05-23 17:45 G	7781672.08	7781672.24	7781672.41	0.0145	0.0006
Venus	16593-06-05 21:07 G	7781685.19	7781685.38	7781685.58	0.0145	0.0067
Mercury	16593-08-19 23:45 G	7781760.33	7781760.49	7781760.65	0.0145	0.0032
Mercury	16593-11-16 06:00 G	7781848.60	7781848.75	7781848.90	0.0145	0.0057
Venus	16594-01-18 09:07 G	7781911.77	7781911.88	7781912.02	0.0145	0.0117
Mercury	16594-02-12 12:00 G	7781936.87	7781937.00	7781937.14	0.0145	0.0083
Mercury	16594-05-11 18:14 G	7782025.15	7782025.26	7782025.37	0.0145	0.0109
Mercury	16594-08-08 00:14 G	7782113.47	7782113.51	7782113.58	0.0145	0.0136
Mars	16610-05-23 03:36 G	7787879.33	7787879.65	7787879.98	0.0139	0.0011
Mars	16612-04-26 00:00 G	7788583.38	7788583.50	7788583.67	0.0138	0.0122
Moon	16623-03-15 04:19 G	7792558.54	7792558.68	7792558.82	0.0134	0.0109
Earth	16623-03-15 04:19 G	7792558.56	7792558.68	7792558.83	0.0134	0.0114 *
Earth	16624-03-18 14:38 G	7792927.90	7792928.11	7792928.34	0.0134	0.0066
Moon	16624-03-18 14:52 G	7792927.91	7792928.12	7792928.36	0.0134	0.0073 *
Moon	16625-03-23 00:14 G	7793297.26	7793297.51	7793297.76	0.0134	0.0012

Earth	16625-03-23 00:28 G	7793297.27	7793297.52	7793297.78	0.0134	0.0018	*
Earth	16626-03-27 10:04 G	7793666.68	7793666.92	7793667.18	0.0134	0.0031	
Moon	16626-03-27 11:16 G	7793666.71	7793666.97	7793667.23	0.0134	0.0027	*
Moon	16627-03-31 18:43 G	7794036.09	7794036.28	7794036.48	0.0133	0.0081	
Earth	16627-03-31 19:12 G	7794036.11	7794036.30	7794036.52	0.0133	0.0079	*
Earth	16628-04-04 04:19 G	7794405.60	7794405.68	7794405.76	0.0133	0.0126	
Moon	16628-04-04 05:16 G	7794405.67	7794405.72	7794405.81	0.0133	0.0128	*
Venus	16633-02-03 08:52 G	7796171.78	7796171.87	7796171.99	0.0133	0.0115	
Venus	16633-09-17 14:24 G	7796397.92	7796398.10	7796398.28	0.0133	0.0077	
Mercury	16634-03-31 08:38 G	7796592.82	7796592.86	7796592.91	0.0133	0.0125	
Venus	16634-05-01 19:26 G	7796624.11	7796624.31	7796624.52	0.0133	0.0040	
Mercury	16634-06-27 12:43 G	7796680.95	7796681.03	7796681.13	0.0133	0.0107	
Mercury	16634-09-23 17:02 G	7796769.10	7796769.21	7796769.33	0.0133	0.0088	
Venus	16634-12-14 00:43 G	7796850.31	7796850.53	7796850.75	0.0133	0.0002	
Mercury	16634-12-20 21:07 G	7796857.26	7796857.38	7796857.52	0.0133	0.0070	
Mercury	16635-03-19 01:26 G	7796945.42	7796945.56	7796945.70	0.0133	0.0051	
Mercury	16635-06-15 05:31 G	7797033.59	7797033.73	7797033.88	0.0133	0.0033	
Venus	16635-07-28 05:45 G	7797076.54	7797076.74	7797076.96	0.0133	0.0037	
Mercury	16635-09-11 09:36 G	7797121.75	7797121.90	7797122.05	0.0133	0.0015	
Mercury	16635-12-08 13:40 G	7797209.92	7797210.07	7797210.22	0.0133	0.0004	
Mercury	16636-03-05 17:45 G	7797298.09	7797298.24	7797298.39	0.0133	0.0021	
Venus	16636-03-10 11:16 G	7797302.79	7797302.97	7797303.15	0.0133	0.0075	
Mercury	16636-06-01 21:36 G	7797386.26	7797386.40	7797386.55	0.0133	0.0039	
Mercury	16636-08-29 01:40 G	7797474.44	7797474.57	7797474.71	0.0133	0.0057	
Venus	16636-10-22 16:19 G	7797529.08	7797529.18	7797529.31	0.0133	0.0113	
Mercury	16636-11-25 05:31 G	7797562.61	7797562.73	7797562.86	0.0133	0.0074	
Mercury	16637-02-21 09:36 G	7797650.79	7797650.90	7797651.01	0.0133	0.0092	
Mercury	16637-05-20 13:12 G	7797738.98	7797739.05	7797739.14	0.0133	0.0110	
Mercury	16637-08-16 17:16 G	7797827.18	7797827.22	7797827.27	0.0133	0.0126	
Mars	16652-07-22 19:55 G	7803281.33	7803281.33	7803281.34	0.0138	0.0138	

Mars	16654-06-23 12:14 G	7803981.72	7803982.01	7803982.30	0.0139	0.0021
Mars	16656-05-24 16:48 G	7804683.02	7804683.20	7804683.41	0.0140	0.0104
Moon	16666-09-14 09:21 G	7808447.75	7808447.89	7808448.03	0.0144	0.0115
Earth	16666-09-14 10:04 G	7808447.78	7808447.92	7808448.09	0.0144	0.0113 *
Earth	16667-09-19 08:24 G	7808817.63	7808817.85	7808818.09	0.0144	0.0054
Moon	16667-09-19 10:48 G	7808817.71	7808817.95	7808818.20	0.0144	0.0047 *
Moon	16668-09-23 05:02 G	7809187.46	7809187.71	7809187.95	0.0145	0.0003
Earth	16668-09-23 07:12 G	7809187.55	7809187.80	7809188.05	0.0145	0.0007 *
Earth	16669-09-28 06:00 G	7809557.52	7809557.75	7809557.97	0.0145	0.0067
Moon	16669-09-28 08:38 G	7809557.65	7809557.86	7809558.09	0.0145	0.0073 *
Moon	16670-10-03 01:40 G	7809927.45	7809927.57	7809927.70	0.0145	0.0125
Earth	16670-10-03 04:33 G	7809927.60	7809927.69	7809927.83	0.0145	0.0129 *
Venus	16675-03-27 14:38 G	7811563.96	7811564.11	7811564.26	0.0145	0.0104
Venus	16675-11-09 02:52 G	7811790.42	7811790.62	7811790.83	0.0145	0.0054
Mercury	16676-01-01 14:09 G	7811844.04	7811844.09	7811844.14	0.0145	0.0137
Mercury	16676-03-29 19:40 G	7811932.23	7811932.32	7811932.43	0.0145	0.0113
Venus	16676-06-22 15:21 G	7812016.92	7812017.14	7812017.35	0.0145	0.0006
Mercury	16676-06-26 01:26 G	7812020.44	7812020.56	7812020.70	0.0145	0.0088
Mercury	16676-09-22 07:26 G	7812108.67	7812108.81	7812108.96	0.0145	0.0063
Mercury	16676-12-19 13:12 G	7812196.90	7812197.05	7812197.21	0.0145	0.0038
Venus	16677-02-04 03:21 G	7812243.44	7812243.64	7812243.86	0.0145	0.0045
Mercury	16677-03-17 19:12 G	7812285.14	7812285.30	7812285.47	0.0145	0.0013
Mercury	16677-06-14 01:12 G	7812373.39	7812373.55	7812373.72	0.0145	0.0013
Mercury	16677-09-10 07:12 G	7812461.65	7812461.80	7812461.96	0.0145	0.0039
Venus	16677-09-18 15:50 G	7812470.00	7812470.16	7812470.33	0.0145	0.0094
Mercury	16677-12-07 13:26 G	7812549.91	7812550.06	7812550.21	0.0145	0.0064
Mercury	16678-03-05 19:26 G	7812638.18	7812638.31	7812638.44	0.0145	0.0090
Venus	16678-05-03 04:04 G	7812696.65	7812696.67	7812696.71	0.0145	0.0143
Mercury	16678-06-02 01:40 G	7812726.47	7812726.57	7812726.67	0.0145	0.0116
Mercury	16678-08-29 07:40 G	7812814.81	7812814.82	7812814.86	0.0145	0.0143

Mars	16693-02-11 09:36 G	7818094.67	7818094.90	7818095.16	0.0140	0.0092
Mars	16695-01-16 18:28 G	7818798.98	7818799.27	7818799.59	0.0139	0.0047
Earth	16707-03-16 15:07 G	7823240.00	7823240.13	7823240.29	0.0134	0.0111
Moon	16707-03-16 15:50 G	7823240.06	7823240.16	7823240.30	0.0134	0.0117 *
Moon	16708-03-20 01:12 G	7823609.32	7823609.55	7823609.80	0.0134	0.0056
Earth	16708-03-20 01:40 G	7823609.35	7823609.57	7823609.80	0.0134	0.0062 *
Earth	16709-03-24 11:31 G	7823978.73	7823978.98	7823979.24	0.0134	0.0014
Moon	16709-03-24 11:16 G	7823978.74	7823978.97	7823979.23	0.0134	0.0021 *
Moon	16710-03-28 20:38 G	7824348.12	7824348.36	7824348.63	0.0134	0.0040
Earth	16710-03-28 20:52 G	7824348.13	7824348.37	7824348.63	0.0134	0.0035 *
Moon	16711-04-02 05:16 G	7824717.54	7824717.72	7824717.93	0.0133	0.0082
Earth	16711-04-02 06:00 G	7824717.56	7824717.75	7824717.96	0.0133	0.0083 *
Earth	16712-04-05 14:24 G	7825087.07	7825087.10	7825087.18	0.0133	0.0131
Moon	16712-04-05 15:21 G	7825087.08	7825087.14	7825087.21	0.0133	0.0129 *
Venus	16716-10-04 19:26 G	7826730.28	7826730.31	7826730.35	0.0133	0.0131
Venus	16717-05-19 00:14 G	7826956.38	7826956.51	7826956.69	0.0133	0.0095
Venus	16717-12-31 05:45 G	7827182.55	7827182.74	7827182.95	0.0133	0.0056
Mercury	16718-04-21 15:50 G	7827294.10	7827294.16	7827294.23	0.0133	0.0120
Mercury	16718-07-18 20:09 G	7827382.25	7827382.34	7827382.44	0.0133	0.0101
Venus	16718-08-14 11:02 G	7827408.75	7827408.96	7827409.18	0.0133	0.0018
Mercury	16718-10-15 00:14 G	7827470.40	7827470.51	7827470.64	0.0133	0.0083
Mercury	16719-01-11 04:33 G	7827558.56	7827558.69	7827558.83	0.0133	0.0064
Venus	16719-03-28 16:33 G	7827634.97	7827635.19	7827635.40	0.0133	0.0020
Mercury	16719-04-09 08:38 G	7827646.73	7827646.86	7827647.01	0.0133	0.0046
Mercury	16719-07-06 12:43 G	7827734.89	7827735.03	7827735.19	0.0133	0.0029
Mercury	16719-10-02 17:02 G	7827823.06	7827823.21	7827823.36	0.0133	0.0010
Venus	16719-11-09 21:36 G	7827861.21	7827861.40	7827861.60	0.0133	0.0059
Mercury	16719-12-29 21:07 G	7827911.23	7827911.38	7827911.53	0.0133	0.0009
Mercury	16720-03-27 01:12 G	7827999.40	7827999.55	7827999.69	0.0133	0.0027
Venus	16720-06-23 02:52 G	7828087.48	7828087.62	7828087.78	0.0133	0.0096

Mercury	16720-06-23 05:02 G	7828087.57	7828087.71	7828087.85	0.0133	0.0044 *
Mercury	16720-09-19 08:52 G	7828175.75	7828175.87	7828176.01	0.0133	0.0063
Mercury	16720-12-16 12:57 G	7828263.93	7828264.04	7828264.16	0.0133	0.0080
Mercury	16721-03-14 16:48 G	7828352.11	7828352.20	7828352.31	0.0133	0.0097
Mercury	16721-06-10 20:38 G	7828440.30	7828440.36	7828440.44	0.0133	0.0115
Mercury	16721-09-07 00:43 G	7828528.51	7828528.53	7828528.55	0.0133	0.0132
Mars	16737-03-18 11:16 G	7834199.77	7834199.97	7834200.21	0.0139	0.0090
Mars	16739-02-17 07:55 G	7834900.54	7834900.83	7834901.11	0.0139	0.0032
Moon	16750-09-15 20:52 G	7839129.22	7839129.37	7839129.55	0.0144	0.0106
Earth	16750-09-15 21:50 G	7839129.27	7839129.41	7839129.60	0.0144	0.0109 *
Earth	16751-09-20 19:55 G	7839499.11	7839499.33	7839499.58	0.0144	0.0050
Moon	16751-09-20 21:21 G	7839499.15	7839499.39	7839499.63	0.0144	0.0055 *
Moon	16752-09-24 16:33 G	7839868.95	7839869.19	7839869.44	0.0145	0.0019
Earth	16752-09-24 18:43 G	7839869.03	7839869.28	7839869.53	0.0145	0.0011 *
Earth	16753-09-29 17:16 G	7840239.01	7840239.22	7840239.44	0.0145	0.0072
Moon	16753-09-29 19:40 G	7840239.10	7840239.32	7840239.56	0.0145	0.0065 *
Moon	16754-10-04 13:40 G	7840608.98	7840609.07	7840609.15	0.0145	0.0135
Earth	16754-10-04 16:04 G	7840609.08	7840609.17	7840609.28	0.0145	0.0132 *
Venus	16758-11-25 20:38 G	7842122.27	7842122.36	7842122.48	0.0145	0.0126
Venus	16759-07-10 08:52 G	7842348.70	7842348.87	7842349.07	0.0145	0.0078
Mercury	16760-01-22 21:21 G	7842545.33	7842545.39	7842545.47	0.0145	0.0130
Venus	16760-02-21 21:36 G	7842575.19	7842575.40	7842575.62	0.0145	0.0027
Mercury	16760-04-20 03:07 G	7842633.53	7842633.63	7842633.75	0.0145	0.0106
Mercury	16760-07-17 08:52 G	7842721.75	7842721.87	7842722.01	0.0145	0.0081
Venus	16760-10-05 09:50 G	7842801.70	7842801.91	7842802.13	0.0145	0.0022
Mercury	16760-10-13 14:52 G	7842809.97	7842810.12	7842810.27	0.0145	0.0056
Mercury	16761-01-09 20:38 G	7842898.21	7842898.36	7842898.52	0.0145	0.0032
Mercury	16761-04-08 02:38 G	7842986.45	7842986.61	7842986.78	0.0145	0.0006
Venus	16761-05-19 21:50 G	7843028.24	7843028.41	7843028.61	0.0145	0.0072
Mercury	16761-07-05 08:38 G	7843074.70	7843074.86	7843075.02	0.0145	0.0019

Mercury	16761-10-01 14:38 G	7843162.96	7843163.11	7843163.27	0.0145	0.0045
Mercury	16761-12-28 20:38 G	7843251.22	7843251.36	7843251.51	0.0145	0.0071
Venus	16762-01-01 10:04 G	7843254.81	7843254.92	7843255.05	0.0145	0.0121
Mercury	16762-03-27 02:38 G	7843339.50	7843339.61	7843339.74	0.0145	0.0097
Mercury	16762-06-23 08:52 G	7843427.79	7843427.87	7843427.97	0.0145	0.0123
Mars	16777-10-09 02:24 G	7849014.29	7849014.60	7849014.92	0.0139	0.0034
Mars	16779-09-13 06:14 G	7849718.55	7849718.76	7849718.98	0.0138	0.0102
Earth	16791-03-17 00:43 G	7853921.39	7853921.53	7853921.69	0.0134	0.0109
Moon	16791-03-17 01:26 G	7853921.43	7853921.56	7853921.74	0.0134	0.0104 *
Moon	16792-03-20 10:04 G	7854290.69	7854290.92	7854291.15	0.0134	0.0066
Earth	16792-03-20 10:48 G	7854290.74	7854290.95	7854291.20	0.0134	0.0060 *
Earth	16793-03-24 20:52 G	7854660.11	7854660.37	7854660.63	0.0134	0.0011
Moon	16793-03-24 21:50 G	7854660.16	7854660.41	7854660.66	0.0134	0.0005 *
Moon	16794-03-29 06:00 G	7855029.50	7855029.75	7855030.01	0.0134	0.0033
Earth	16794-03-29 06:14 G	7855029.52	7855029.76	7855030.01	0.0134	0.0038 *
Earth	16795-04-02 15:21 G	7855398.95	7855399.14	7855399.34	0.0134	0.0086
Moon	16795-04-02 15:50 G	7855398.99	7855399.16	7855399.36	0.0134	0.0090 *
Earth	16796-04-06 00:14 G	7855768.51	7855768.51	7855768.52	0.0133	0.0133
Venus	16801-01-16 10:19 G	7857514.82	7857514.93	7857515.06	0.0133	0.0111
Venus	16801-08-30 15:50 G	7857740.98	7857741.16	7857741.34	0.0133	0.0073
Venus	16802-04-13 21:07 G	7857967.17	7857967.38	7857967.59	0.0133	0.0035
Mercury	16802-05-11 23:02 G	7857995.39	7857995.46	7857995.54	0.0133	0.0115
Mercury	16802-08-08 03:07 G	7858083.54	7858083.63	7858083.74	0.0133	0.0097
Mercury	16802-11-04 07:26 G	7858171.69	7858171.81	7858171.94	0.0133	0.0078
Venus	16802-11-26 02:24 G	7858193.38	7858193.60	7858193.82	0.0133	0.0003
Mercury	16803-01-31 11:31 G	7858259.85	7858259.98	7858260.13	0.0133	0.0060
Mercury	16803-04-29 15:50 G	7858348.02	7858348.16	7858348.31	0.0133	0.0041
Venus	16803-07-10 07:26 G	7858419.61	7858419.81	7858420.03	0.0133	0.0042
Mercury	16803-07-26 19:55 G	7858436.19	7858436.33	7858436.48	0.0133	0.0023
Mercury	16803-10-23 00:00 G	7858524.35	7858524.50	7858524.66	0.0133	0.0007

Mercury	16804-01-19 04:04 G	7858612.53	7858612.67	7858612.82	0.0133	0.0014
Venus	16804-02-21 12:57 G	7858645.87	7858646.04	7858646.22	0.0133	0.0079
Mercury	16804-04-16 08:09 G	7858700.70	7858700.84	7858700.99	0.0133	0.0031
Mercury	16804-07-13 12:00 G	7858788.87	7858789.00	7858789.15	0.0133	0.0050
Venus	16804-10-04 18:00 G	7858872.17	7858872.25	7858872.37	0.0133	0.0118
Mercury	16804-10-09 16:19 G	7858877.05	7858877.18	7858877.30	0.0133	0.0067
Mercury	16805-01-05 19:55 G	7858965.23	7858965.33	7858965.45	0.0133	0.0085
Mercury	16805-04-04 00:00 G	7859053.41	7859053.50	7859053.60	0.0133	0.0102
Mercury	16805-07-01 03:50 G	7859141.60	7859141.66	7859141.73	0.0133	0.0119
Mars	16821-11-11 02:38 G	7865118.33	7865118.61	7865118.89	0.0139	0.0039
Mars	16823-10-13 02:24 G	7865819.39	7865819.60	7865819.86	0.0140	0.0085
Earth	16834-09-16 08:38 G	7869810.71	7869810.86	7869811.04	0.0144	0.0106
Moon	16834-09-16 08:52 G	7869810.72	7869810.87	7869811.04	0.0144	0.0107 *
Earth	16835-09-21 06:43 G	7870180.55	7870180.78	7870181.03	0.0144	0.0047
Moon	16835-09-21 07:55 G	7870180.59	7870180.83	7870181.09	0.0144	0.0040 *
Moon	16836-09-25 04:04 G	7870550.43	7870550.67	7870550.92	0.0145	0.0008
Earth	16836-09-25 05:16 G	7870550.47	7870550.72	7870550.98	0.0145	0.0015 *
Earth	16837-09-30 03:50 G	7870920.45	7870920.66	7870920.88	0.0145	0.0075
Moon	16837-09-30 05:45 G	7870920.53	7870920.74	7870920.96	0.0145	0.0081 *
Moon	16838-10-05 00:14 G	7871290.42	7871290.51	7871290.62	0.0145	0.0132
Earth	16838-10-05 02:38 G	7871290.54	7871290.61	7871290.71	0.0145	0.0136 *
Venus	16843-03-09 15:21 G	7872906.99	7872907.14	7872907.31	0.0145	0.0099
Venus	16843-10-22 03:50 G	7873133.46	7873133.66	7873133.87	0.0145	0.0050
Mercury	16844-02-12 05:02 G	7873246.63	7873246.71	7873246.79	0.0145	0.0123
Mercury	16844-05-10 10:33 G	7873334.83	7873334.94	7873335.06	0.0145	0.0099
Venus	16844-06-04 16:04 G	7873359.96	7873360.17	7873360.39	0.0145	0.0002
Mercury	16844-08-06 16:33 G	7873423.05	7873423.19	7873423.32	0.0145	0.0075
Mercury	16844-11-02 22:04 G	7873511.28	7873511.42	7873511.58	0.0145	0.0050
Venus	16845-01-17 04:19 G	7873586.48	7873586.68	7873586.89	0.0145	0.0049
Mercury	16845-01-30 04:04 G	7873599.51	7873599.67	7873599.83	0.0145	0.0025

Mercury	16845-04-28 10:04 G	7873687.76	7873687.92	7873688.08	0.0145	0.0001
Mercury	16845-07-25 16:04 G	7873776.01	7873776.17	7873776.33	0.0145	0.0026
Venus	16845-08-31 16:33 G	7873813.04	7873813.19	7873813.36	0.0145	0.0098
Mercury	16845-10-21 22:04 G	7873864.27	7873864.42	7873864.57	0.0145	0.0052
Mercury	16846-01-18 04:04 G	7873952.53	7873952.67	7873952.81	0.0145	0.0078
Mercury	16846-04-16 10:04 G	7874040.82	7874040.92	7874041.04	0.0145	0.0104
Mercury	16846-07-13 16:19 G	7874129.12	7874129.18	7874129.26	0.0145	0.0130
Mars	16860-06-30 02:52 G	7879229.46	7879229.62	7879229.81	0.0140	0.0118
Mars	16862-06-04 18:43 G	7879933.97	7879934.28	7879934.61	0.0139	0.0024
Earth	16875-03-17 10:33 G	7884602.80	7884602.94	7884603.11	0.0134	0.0106
Moon	16875-03-17 12:28 G	7884602.90	7884603.02	7884603.18	0.0134	0.0112 *
Moon	16876-03-20 19:12 G	7884972.06	7884972.30	7884972.55	0.0134	0.0051
Earth	16876-03-20 20:52 G	7884972.15	7884972.37	7884972.61	0.0134	0.0057 *
Earth	16877-03-25 06:57 G	7885341.53	7885341.79	7885342.04	0.0134	0.0008
Moon	16877-03-25 08:09 G	7885341.59	7885341.84	7885342.09	0.0134	0.0015 *
Moon	16878-03-29 14:38 G	7885710.87	7885711.11	7885711.37	0.0134	0.0047
Earth	16878-03-29 16:19 G	7885710.94	7885711.18	7885711.43	0.0134	0.0041 *
Earth	16879-04-03 01:26 G	7886080.37	7886080.56	7886080.75	0.0134	0.0089
Moon	16879-04-03 01:55 G	7886080.40	7886080.58	7886080.78	0.0134	0.0087 *
Venus	16884-09-15 20:38 G	7888073.30	7888073.36	7888073.43	0.0133	0.0126
Venus	16885-04-30 01:40 G	7888299.42	7888299.57	7888299.75	0.0133	0.0089
Venus	16885-12-12 06:57 G	7888525.60	7888525.79	7888526.00	0.0133	0.0051
Mercury	16886-03-05 01:55 G	7888608.55	7888608.58	7888608.62	0.0133	0.0129
Mercury	16886-06-01 06:14 G	7888696.68	7888696.76	7888696.85	0.0133	0.0110
Venus	16886-07-26 12:28 G	7888751.81	7888752.02	7888752.24	0.0133	0.0013
Mercury	16886-08-28 10:33 G	7888784.83	7888784.94	7888785.05	0.0133	0.0092
Mercury	16886-11-24 14:38 G	7888872.99	7888873.11	7888873.24	0.0133	0.0073
Mercury	16887-02-20 18:57 G	7888961.15	7888961.29	7888961.43	0.0133	0.0055
Venus	16887-03-09 17:45 G	7888978.03	7888978.24	7888978.46	0.0133	0.0025
Mercury	16887-05-19 23:02 G	7889049.32	7889049.46	7889049.61	0.0133	0.0036

Mercury	16887-08-16 03:07 G	7889137.49	7889137.63	7889137.79	0.0133	0.0019
Venus	16887-10-21 23:16 G	7889204.28	7889204.47	7889204.66	0.0133	0.0063
Mercury	16887-11-12 07:12 G	7889225.65	7889225.80	7889225.96	0.0133	0.0005
Mercury	16888-02-08 11:16 G	7889313.83	7889313.97	7889314.12	0.0133	0.0019
Mercury	16888-05-06 15:21 G	7889402.00	7889402.14	7889402.29	0.0133	0.0036
Venus	16888-06-04 04:19 G	7889430.55	7889430.68	7889430.83	0.0133	0.0101
Mercury	16888-08-02 19:12 G	7889490.17	7889490.30	7889490.45	0.0133	0.0055
Mercury	16888-10-29 23:16 G	7889578.35	7889578.47	7889578.60	0.0133	0.0072
Mercury	16889-01-26 03:07 G	7889666.53	7889666.63	7889666.75	0.0133	0.0090
Mercury	16889-04-24 07:12 G	7889754.72	7889754.80	7889754.89	0.0133	0.0107
Mercury	16889-07-21 10:48 G	7889842.91	7889842.95	7889843.02	0.0134	0.0125
Mars	16904-08-06 03:07 G	7895336.47	7895336.63	7895336.83	0.0138	0.0108
Mars	16906-07-07 19:26 G	7896037.03	7896037.31	7896037.61	0.0139	0.0013
Mars	16908-06-07 23:02 G	7896738.43	7896738.46	7896738.54	0.0140	0.0137
Earth	16918-09-17 18:57 G	7900492.13	7900492.29	7900492.48	0.0144	0.0103
Moon	16918-09-17 18:57 G	7900492.14	7900492.29	7900492.48	0.0144	0.0102 *
Moon	16919-09-22 17:02 G	7900861.96	7900862.21	7900862.45	0.0144	0.0048
Earth	16919-09-22 17:02 G	7900861.98	7900862.21	7900862.46	0.0144	0.0043 *
Moon	16920-09-26 14:24 G	7901231.87	7901232.10	7901232.35	0.0145	0.0025
Earth	16920-09-26 15:21 G	7901231.89	7901232.14	7901232.39	0.0145	0.0018 *
Earth	16921-10-01 13:40 G	7901601.87	7901602.07	7901602.30	0.0145	0.0079
Moon	16921-10-01 15:21 G	7901601.92	7901602.14	7901602.37	0.0145	0.0071 *
Moon	16922-10-06 10:48 G	7901971.94	7901971.95	7901972.00	0.0145	0.0144
Earth	16922-10-06 12:43 G	7901971.97	7901972.03	7901972.11	0.0145	0.0139 *
Venus	16926-11-07 21:21 G	7903465.28	7903465.39	7903465.52	0.0145	0.0121
Venus	16927-06-22 09:36 G	7903691.72	7903691.90	7903692.10	0.0145	0.0072
Mercury	16927-12-07 06:28 G	7903859.74	7903859.77	7903859.81	0.0145	0.0141
Venus	16928-02-03 22:04 G	7903918.21	7903918.42	7903918.64	0.0145	0.0023
Mercury	16928-03-04 12:00 G	7903947.92	7903948.00	7903948.10	0.0145	0.0118
Mercury	16928-05-31 17:45 G	7904036.13	7904036.24	7904036.37	0.0145	0.0093

Mercury	16928-08-27 23:45 G	7904124.35	7904124.49	7904124.63	0.0145	0.0068
Venus	16928-09-17 10:19 G	7904144.72	7904144.93	7904145.15	0.0145	0.0027
Mercury	16928-11-24 05:31 G	7904212.58	7904212.73	7904212.89	0.0145	0.0043
Mercury	16929-02-20 11:31 G	7904300.82	7904300.98	7904301.14	0.0145	0.0018
Venus	16929-05-01 22:33 G	7904371.26	7904371.44	7904371.63	0.0145	0.0076
Mercury	16929-05-19 17:16 G	7904389.06	7904389.22	7904389.39	0.0145	0.0008
Mercury	16929-08-15 23:16 G	7904477.31	7904477.47	7904477.63	0.0145	0.0032
Mercury	16929-11-12 05:16 G	7904565.57	7904565.72	7904565.87	0.0145	0.0058
Venus	16929-12-14 10:48 G	7904597.85	7904597.95	7904598.06	0.0145	0.0124
Mercury	16930-02-08 11:16 G	7904653.84	7904653.97	7904654.11	0.0145	0.0084
Mercury	16930-05-07 17:16 G	7904742.13	7904742.22	7904742.34	0.0145	0.0110
Mercury	16930-08-03 23:31 G	7904830.43	7904830.48	7904830.54	0.0145	0.0136
Mars	16945-02-24 20:38 G	7910149.07	7910149.36	7910149.66	0.0140	0.0060
Mars	16947-01-30 06:14 G	7910853.51	7910853.76	7910854.03	0.0139	0.0080
Earth	16959-03-18 19:12 G	7915284.15	7915284.30	7915284.48	0.0134	0.0104
Moon	16959-03-18 21:36 G	7915284.25	7915284.40	7915284.57	0.0134	0.0100 *
Moon	16960-03-22 03:07 G	7915653.41	7915653.63	7915653.87	0.0134	0.0061
Earth	16960-03-22 05:31 G	7915653.51	7915653.73	7915653.97	0.0134	0.0055 *
Earth	16961-03-26 15:21 G	7916022.89	7916023.14	7916023.40	0.0134	0.0006
Moon	16961-03-26 17:45 G	7916022.99	7916023.24	7916023.49	0.0134	0.0002 *
Moon	16962-03-30 23:02 G	7916392.21	7916392.46	7916392.72	0.0134	0.0037
Earth	16962-03-31 00:57 G	7916392.30	7916392.54	7916392.78	0.0134	0.0043 *
Earth	16963-04-04 09:36 G	7916761.73	7916761.90	7916762.10	0.0134	0.0092
Moon	16963-04-04 11:31 G	7916761.83	7916761.98	7916762.17	0.0134	0.0097 *
Venus	16968-12-29 11:16 G	7918857.85	7918857.97	7918858.11	0.0133	0.0106
Venus	16969-08-12 16:33 G	7919084.01	7919084.19	7919084.39	0.0133	0.0068
Mercury	16970-03-26 08:38 G	7919309.83	7919309.86	7919309.93	0.0133	0.0125
Venus	16970-03-26 22:04 G	7919310.21	7919310.42	7919310.63	0.0133	0.0030
Mercury	16970-06-22 13:12 G	7919397.96	7919398.05	7919398.15	0.0133	0.0106
Mercury	16970-09-18 17:31 G	7919486.12	7919486.23	7919486.35	0.0133	0.0087

Venus	16970-11-08 03:21 G	7919536.42	7919536.64	7919536.86	0.0133	0.0008
Mercury	16970-12-15 21:36 G	7919574.28	7919574.40	7919574.54	0.0133	0.0069
Mercury	16971-03-14 01:55 G	7919662.44	7919662.58	7919662.72	0.0133	0.0050
Mercury	16971-06-10 06:00 G	7919750.61	7919750.75	7919750.90	0.0133	0.0032
Venus	16971-06-22 08:38 G	7919762.66	7919762.86	7919763.07	0.0133	0.0046
Mercury	16971-09-06 10:19 G	7919838.78	7919838.93	7919839.08	0.0133	0.0014
Mercury	16971-12-03 14:24 G	7919926.95	7919927.10	7919927.25	0.0133	0.0005
Venus	16972-02-03 13:55 G	7919988.92	7919989.08	7919989.26	0.0133	0.0084
Mercury	16972-02-29 18:28 G	7920015.12	7920015.27	7920015.41	0.0133	0.0023
Mercury	16972-05-27 22:19 G	7920103.29	7920103.43	7920103.58	0.0133	0.0041
Mercury	16972-08-24 02:24 G	7920191.47	7920191.60	7920191.73	0.0133	0.0058
Venus	16972-09-16 18:57 G	7920215.22	7920215.29	7920215.40	0.0133	0.0122
Mercury	16972-11-20 06:28 G	7920279.65	7920279.77	7920279.89	0.0133	0.0076
Mercury	16973-02-16 10:04 G	7920367.83	7920367.92	7920368.04	0.0133	0.0094
Mercury	16973-05-15 14:09 G	7920456.01	7920456.09	7920456.17	0.0134	0.0111
Mercury	16973-08-11 17:45 G	7920544.22	7920544.24	7920544.29	0.0134	0.0129
Mars	16989-03-31 16:04 G	7926254.92	7926255.17	7926255.44	0.0139	0.0060
Mars	16991-03-02 11:02 G	7926955.71	7926955.96	7926956.23	0.0139	0.0063

18TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 18th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth			17002-09-19 03:50 G	7931173.50	7931173.66	7931173.85	0.0144	0.0101

Moon	17002-09-19 05:16 G	7931173.56	7931173.72	7931173.91	0.0144	0.0101 *
Moon	17003-09-24 01:40 G	7931543.32	7931543.57	7931543.82	0.0144	0.0036
Earth	17003-09-24 01:55 G	7931543.35	7931543.58	7931543.83	0.0144	0.0041 *
Earth	17004-09-28 00:28 G	7931913.27	7931913.52	7931913.77	0.0145	0.0020
Moon	17004-09-28 00:28 G	7931913.28	7931913.52	7931913.77	0.0145	0.0013 *
Earth	17005-10-02 22:33 G	7932283.25	7932283.44	7932283.66	0.0145	0.0081
Moon	17005-10-02 23:31 G	7932283.27	7932283.48	7932283.69	0.0145	0.0087 *
Moon	17006-10-07 20:24 G	7932653.28	7932653.35	7932653.43	0.0145	0.0137
Earth	17006-10-07 21:21 G	7932653.37	7932653.39	7932653.46	0.0145	0.0142 *
Venus	17010-07-09 02:52 G	7934023.60	7934023.62	7934023.65	0.0145	0.0144
Venus	17011-02-20 14:52 G	7934249.97	7934250.12	7934250.30	0.0145	0.0095
Venus	17011-10-05 03:21 G	7934476.44	7934476.64	7934476.86	0.0145	0.0046
Mercury	17011-12-28 13:26 G	7934561.02	7934561.06	7934561.12	0.0145	0.0136
Mercury	17012-03-25 18:57 G	7934649.20	7934649.29	7934649.40	0.0145	0.0112
Venus	17012-05-18 15:50 G	7934702.94	7934703.16	7934703.38	0.0145	0.0004
Mercury	17012-06-22 00:57 G	7934737.41	7934737.54	7934737.67	0.0145	0.0087
Mercury	17012-09-18 06:43 G	7934825.64	7934825.78	7934825.93	0.0145	0.0063
Mercury	17012-12-15 12:28 G	7934913.87	7934914.02	7934914.18	0.0145	0.0038
Venus	17012-12-31 03:50 G	7934929.47	7934929.66	7934929.87	0.0145	0.0053
Mercury	17013-03-13 18:28 G	7935002.11	7935002.27	7935002.43	0.0145	0.0013
Mercury	17013-06-10 00:14 G	7935090.35	7935090.51	7935090.68	0.0145	0.0013
Venus	17013-08-14 16:04 G	7935156.03	7935156.17	7935156.34	0.0145	0.0102
Mercury	17013-09-06 06:14 G	7935178.61	7935178.76	7935178.92	0.0145	0.0038
Mercury	17013-12-03 12:14 G	7935266.87	7935267.01	7935267.16	0.0145	0.0064
Mercury	17014-03-01 18:28 G	7935355.14	7935355.27	7935355.40	0.0145	0.0089
Mercury	17014-05-29 00:28 G	7935443.42	7935443.52	7935443.62	0.0145	0.0115
Mercury	17014-08-25 06:43 G	7935531.75	7935531.78	7935531.81	0.0145	0.0141
Mars	17029-10-22 13:40 G	7941068.75	7941069.07	7941069.40	0.0139	0.0003
Mars	17031-09-26 17:45 G	7941773.19	7941773.24	7941773.33	0.0139	0.0135
Jupiter	17038-12-06 07:12 G	7944400.59	7944400.80	7944401.11	0.0136	0.0118

Earth	17043-03-20 04:48 G	7945965.54	7945965.70	7945965.87	0.0134	0.0102
Moon	17043-03-20 07:40 G	7945965.68	7945965.82	7945965.99	0.0134	0.0106 *
Moon	17044-03-23 12:00 G	7946334.76	7946335.00	7946335.25	0.0134	0.0047
Earth	17044-03-23 14:52 G	7946334.89	7946335.12	7946335.36	0.0134	0.0052 *
Earth	17045-03-28 00:43 G	7946704.27	7946704.53	7946704.79	0.0134	0.0003
Moon	17045-03-28 03:07 G	7946704.38	7946704.63	7946704.88	0.0134	0.0011 *
Moon	17046-04-01 07:12 G	7947073.57	7947073.80	7947074.05	0.0134	0.0053
Earth	17046-04-01 10:04 G	7947073.69	7947073.92	7947074.17	0.0134	0.0046 *
Earth	17047-04-05 18:43 G	7947443.12	7947443.28	7947443.48	0.0134	0.0095
Moon	17047-04-05 20:52 G	7947443.20	7947443.37	7947443.57	0.0134	0.0091 *
Venus	17052-08-29 20:52 G	7949416.30	7949416.37	7949416.47	0.0133	0.0122
Venus	17053-04-13 02:24 G	7949642.44	7949642.60	7949642.78	0.0133	0.0084
Venus	17053-11-25 07:55 G	7949868.62	7949868.83	7949869.03	0.0133	0.0047
Mercury	17054-04-16 15:50 G	7950011.11	7950011.16	7950011.24	0.0133	0.0120
Venus	17054-07-09 13:12 G	7950094.83	7950095.05	7950095.27	0.0133	0.0009
Mercury	17054-07-13 20:09 G	7950099.25	7950099.34	7950099.45	0.0133	0.0102
Mercury	17054-10-10 00:43 G	7950187.41	7950187.53	7950187.65	0.0133	0.0083
Mercury	17055-01-06 04:48 G	7950275.57	7950275.70	7950275.84	0.0133	0.0064
Venus	17055-02-20 18:28 G	7950321.06	7950321.27	7950321.49	0.0133	0.0029
Mercury	17055-04-04 09:07 G	7950363.73	7950363.88	7950364.02	0.0133	0.0046
Mercury	17055-07-01 13:12 G	7950451.90	7950452.05	7950452.20	0.0133	0.0027
Mercury	17055-09-27 17:16 G	7950540.07	7950540.22	7950540.37	0.0133	0.0009
Venus	17055-10-04 23:31 G	7950547.31	7950547.48	7950547.68	0.0133	0.0067
Mercury	17055-12-24 21:21 G	7950628.24	7950628.39	7950628.54	0.0133	0.0009
Mercury	17056-03-22 01:26 G	7950716.41	7950716.56	7950716.71	0.0133	0.0027
Venus	17056-05-18 04:48 G	7950773.58	7950773.70	7950773.85	0.0133	0.0105
Mercury	17056-06-18 05:16 G	7950804.59	7950804.72	7950804.87	0.0133	0.0046
Mercury	17056-09-14 09:21 G	7950892.76	7950892.89	7950893.03	0.0133	0.0063
Mercury	17056-12-11 13:12 G	7950980.94	7950981.05	7950981.18	0.0133	0.0081
Mercury	17057-03-09 17:02 G	7951069.13	7951069.21	7951069.32	0.0133	0.0099

Mercury	17057-06-05 21:07 G	7951157.32	7951157.38	7951157.46	0.0134	0.0116
Mercury	17057-09-02 00:57 G	7951245.54	7951245.54	7951245.56	0.0134	0.0133
Mars	17071-12-25 19:12 G	7956473.21	7956473.30	7956473.41	0.0138	0.0129
Mars	17073-11-25 06:14 G	7957173.47	7957173.76	7957174.05	0.0139	0.0011
Mars	17075-10-27 03:36 G	7957874.49	7957874.65	7957874.83	0.0140	0.0114
Earth	17086-09-19 13:26 G	7961854.88	7961855.06	7961855.25	0.0144	0.0098
Moon	17086-09-19 14:38 G	7961854.95	7961855.11	7961855.30	0.0144	0.0099 *
Moon	17087-09-24 09:36 G	7962224.66	7962224.90	7962225.16	0.0144	0.0042
Earth	17087-09-24 11:16 G	7962224.74	7962224.97	7962225.22	0.0144	0.0038 *
Earth	17088-09-28 09:36 G	7962594.65	7962594.90	7962595.15	0.0144	0.0023
Moon	17088-09-28 10:19 G	7962594.69	7962594.93	7962595.16	0.0144	0.0029 *
Moon	17089-10-03 07:55 G	7962964.62	7962964.83	7962965.06	0.0145	0.0076
Earth	17089-10-03 07:55 G	7962964.64	7962964.83	7962965.05	0.0145	0.0084 *
Earth	17090-10-08 06:57 G	7963334.79	7963334.79	7963334.82	0.0145	0.0145
Venus	17094-10-20 20:09 G	7964808.23	7964808.34	7964808.49	0.0145	0.0118
Venus	17095-06-04 08:38 G	7965034.68	7965034.86	7965035.06	0.0145	0.0069
Venus	17096-01-16 21:07 G	7965261.16	7965261.38	7965261.59	0.0145	0.0020
Mercury	17096-01-17 20:24 G	7965262.30	7965262.35	7965262.43	0.0145	0.0131
Mercury	17096-04-15 02:09 G	7965350.49	7965350.59	7965350.70	0.0145	0.0107
Mercury	17096-07-12 07:55 G	7965438.70	7965438.83	7965438.97	0.0145	0.0082
Venus	17096-08-30 09:21 G	7965487.68	7965487.89	7965488.11	0.0145	0.0029
Mercury	17096-10-08 13:40 G	7965526.93	7965527.07	7965527.22	0.0145	0.0058
Mercury	17097-01-04 19:26 G	7965615.16	7965615.31	7965615.47	0.0145	0.0033
Mercury	17097-04-03 01:26 G	7965703.40	7965703.56	7965703.72	0.0145	0.0008
Venus	17097-04-13 21:21 G	7965714.22	7965714.39	7965714.58	0.0145	0.0078
Mercury	17097-06-30 07:12 G	7965791.64	7965791.80	7965791.97	0.0145	0.0018
Mercury	17097-09-26 13:12 G	7965879.90	7965880.05	7965880.21	0.0145	0.0043
Venus	17097-11-26 09:21 G	7965940.80	7965940.89	7965941.01	0.0145	0.0127
Mercury	17097-12-23 19:12 G	7965968.16	7965968.30	7965968.45	0.0145	0.0069
Mercury	17098-03-22 01:12 G	7966056.43	7966056.55	7966056.68	0.0145	0.0094

Mercury	17098-06-18 07:26 G	7966144.72	7966144.81	7966144.90	0.0145	0.0120
Mars	17112-07-14 09:07 G	7971283.65	7971283.88	7971284.16	0.0140	0.0089
Mars	17114-06-19 01:40 G	7971988.28	7971988.57	7971988.88	0.0139	0.0054
Earth	17127-03-21 12:28 G	7976646.86	7976647.02	7976647.20	0.0134	0.0100
Moon	17127-03-21 15:50 G	7976646.99	7976647.16	7976647.34	0.0134	0.0097 *
Moon	17128-03-24 19:12 G	7977016.08	7977016.30	7977016.56	0.0134	0.0057
Earth	17128-03-24 22:48 G	7977016.22	7977016.45	7977016.70	0.0134	0.0050 *
Earth	17129-03-29 08:38 G	7977385.61	7977385.86	7977386.12	0.0134	0.0003
Moon	17129-03-29 12:00 G	7977385.74	7977386.00	7977386.25	0.0134	0.0006 *
Moon	17130-04-02 15:07 G	7977754.89	7977755.13	7977755.39	0.0134	0.0042
Earth	17130-04-02 18:00 G	7977755.02	7977755.25	7977755.50	0.0134	0.0049 *
Earth	17131-04-07 03:07 G	7978124.47	7978124.63	7978124.82	0.0134	0.0097
Moon	17131-04-07 06:14 G	7978124.61	7978124.76	7978124.93	0.0134	0.0103 *
Venus	17136-12-12 11:31 G	7980200.85	7980200.98	7980201.13	0.0133	0.0102
Venus	17137-07-26 16:48 G	7980427.02	7980427.20	7980427.40	0.0133	0.0064
Venus	17138-03-09 22:19 G	7980653.22	7980653.43	7980653.65	0.0133	0.0026
Mercury	17138-05-07 22:48 G	7980712.38	7980712.45	7980712.53	0.0133	0.0116
Mercury	17138-08-04 03:07 G	7980800.53	7980800.63	7980800.74	0.0133	0.0098
Venus	17138-10-22 03:36 G	7980879.44	7980879.65	7980879.87	0.0133	0.0012
Mercury	17138-10-31 07:12 G	7980888.69	7980888.80	7980888.94	0.0133	0.0079
Mercury	17139-01-27 11:31 G	7980976.85	7980976.98	7980977.12	0.0133	0.0061
Mercury	17139-04-25 15:50 G	7981065.02	7981065.16	7981065.31	0.0133	0.0042
Venus	17139-06-05 08:52 G	7981105.67	7981105.87	7981106.08	0.0133	0.0049
Mercury	17139-07-22 20:09 G	7981153.19	7981153.34	7981153.49	0.0133	0.0024
Mercury	17139-10-19 00:14 G	7981241.36	7981241.51	7981241.66	0.0133	0.0006
Mercury	17140-01-15 04:19 G	7981329.53	7981329.68	7981329.83	0.0133	0.0013
Venus	17140-01-17 13:55 G	7981331.93	7981332.08	7981332.26	0.0133	0.0088
Mercury	17140-04-12 08:09 G	7981417.70	7981417.84	7981417.99	0.0133	0.0031
Mercury	17140-07-09 12:28 G	7981505.88	7981506.02	7981506.15	0.0133	0.0049
Venus	17140-08-30 19:26 G	7981558.24	7981558.31	7981558.39	0.0133	0.0125

Mercury	17140-10-05 16:19 G	7981594.05	7981594.18	7981594.31	0.0133	0.0066
Mercury	17141-01-01 20:09 G	7981682.23	7981682.34	7981682.46	0.0133	0.0084
Mercury	17141-03-31 00:14 G	7981770.42	7981770.51	7981770.61	0.0134	0.0102
Mercury	17141-06-27 03:50 G	7981858.61	7981858.66	7981858.74	0.0134	0.0120
Mars	17156-08-20 06:43 G	7987391.57	7987391.78	7987392.04	0.0138	0.0083
Mars	17158-07-21 21:07 G	7988092.10	7988092.38	7988092.66	0.0139	0.0040
Earth	17170-09-20 22:19 G	7992536.26	7992536.43	7992536.63	0.0144	0.0096
Moon	17170-09-21 00:57 G	7992536.37	7992536.54	7992536.74	0.0144	0.0094 *
Moon	17171-09-25 18:43 G	7992906.03	7992906.28	7992906.53	0.0144	0.0032
Earth	17171-09-25 20:24 G	7992906.11	7992906.35	7992906.60	0.0144	0.0036 *
Earth	17172-09-29 18:43 G	7993276.03	7993276.28	7993276.53	0.0144	0.0026
Moon	17172-09-29 20:09 G	7993276.10	7993276.34	7993276.58	0.0144	0.0019 *
Moon	17173-10-04 15:50 G	7993645.98	7993646.16	7993646.38	0.0145	0.0094
Earth	17173-10-04 17:02 G	7993646.02	7993646.21	7993646.42	0.0145	0.0087 *
Moon	17174-10-09 16:19 G	7994016.14	7994016.18	7994016.22	0.0145	0.0142
Venus	17178-06-21 01:26 G	7995366.53	7995366.56	7995366.63	0.0145	0.0141
Venus	17179-02-02 13:55 G	7995592.92	7995593.08	7995593.26	0.0145	0.0092
Venus	17179-09-17 02:24 G	7995819.39	7995819.60	7995819.81	0.0145	0.0043
Mercury	17180-02-08 03:21 G	7995963.58	7995963.64	7995963.73	0.0145	0.0126
Venus	17180-04-30 14:38 G	7996045.89	7996046.11	7996046.33	0.0145	0.0006
Mercury	17180-05-06 09:07 G	7996051.78	7996051.88	7996052.00	0.0145	0.0102
Mercury	17180-08-02 14:52 G	7996139.99	7996140.12	7996140.26	0.0145	0.0077
Mercury	17180-10-29 20:38 G	7996228.21	7996228.36	7996228.51	0.0145	0.0053
Venus	17180-12-13 02:24 G	7996272.41	7996272.60	7996272.82	0.0145	0.0055
Mercury	17181-01-26 02:24 G	7996316.45	7996316.60	7996316.76	0.0145	0.0028
Mercury	17181-04-24 08:24 G	7996404.69	7996404.85	7996405.01	0.0145	0.0003
Mercury	17181-07-21 14:09 G	7996492.93	7996493.09	7996493.26	0.0145	0.0023
Venus	17181-07-27 14:52 G	7996498.97	7996499.12	7996499.27	0.0145	0.0103
Mercury	17181-10-17 20:09 G	7996581.19	7996581.34	7996581.50	0.0145	0.0048
Mercury	17182-01-14 01:55 G	7996669.45	7996669.58	7996669.73	0.0145	0.0074

Mercury	17182-04-12 08:09 G	7996757.72	7996757.84	7996757.96	0.0145	0.0099
Mercury	17182-07-09 14:09 G	7996846.02	7996846.09	7996846.18	0.0145	0.0125
Mars	17197-03-10 02:09 G	8002203.28	8002203.59	8002203.92	0.0140	0.0030
Mars	17199-02-12 14:09 G	8002907.91	8002908.09	8002908.30	0.0139	0.0110
Earth	17211-03-21 21:07 G	8007328.22	8007328.38	8007328.58	0.0134	0.0098
Moon	17211-03-22 00:57 G	8007328.39	8007328.54	8007328.72	0.0134	0.0100 *
Moon	17212-03-25 04:04 G	8007697.43	8007697.67	8007697.92	0.0134	0.0043
Earth	17212-03-25 07:40 G	8007697.58	8007697.82	8007698.06	0.0134	0.0048 *
Earth	17213-03-29 17:31 G	8008066.97	8008067.23	8008067.49	0.0134	0.0002
Moon	17213-03-29 20:52 G	8008067.12	8008067.37	8008067.62	0.0134	0.0005 *
Moon	17214-04-02 23:16 G	8008436.25	8008436.47	8008436.72	0.0134	0.0059
Earth	17214-04-03 03:07 G	8008436.39	8008436.63	8008436.87	0.0134	0.0051 *
Earth	17215-04-07 12:14 G	8008805.84	8008806.01	8008806.18	0.0134	0.0100
Moon	17215-04-07 15:07 G	8008805.96	8008806.13	8008806.31	0.0134	0.0095 *
Venus	17220-08-11 20:52 G	8010759.29	8010759.37	8010759.48	0.0133	0.0119
Venus	17221-03-26 02:09 G	8010985.43	8010985.59	8010985.78	0.0133	0.0081
Venus	17221-11-07 07:40 G	8011211.62	8011211.82	8011212.03	0.0133	0.0043
Mercury	17222-03-01 01:12 G	8011325.54	8011325.55	8011325.59	0.0133	0.0132
Mercury	17222-05-28 05:45 G	8011413.66	8011413.74	8011413.83	0.0133	0.0112
Venus	17222-06-21 12:57 G	8011437.83	8011438.04	8011438.26	0.0133	0.0006
Mercury	17222-08-24 10:04 G	8011501.82	8011501.92	8011502.03	0.0133	0.0093
Mercury	17222-11-20 14:24 G	8011589.97	8011590.10	8011590.23	0.0133	0.0075
Venus	17223-02-02 18:14 G	8011664.06	8011664.26	8011664.48	0.0133	0.0032
Mercury	17223-02-16 18:28 G	8011678.14	8011678.27	8011678.41	0.0133	0.0057
Mercury	17223-05-15 22:48 G	8011766.30	8011766.45	8011766.60	0.0133	0.0038
Mercury	17223-08-12 02:52 G	8011854.47	8011854.62	8011854.77	0.0133	0.0020
Venus	17223-09-16 23:45 G	8011890.30	8011890.49	8011890.67	0.0133	0.0070
Mercury	17223-11-08 07:12 G	8011942.64	8011942.80	8011942.95	0.0133	0.0003
Mercury	17224-02-04 11:02 G	8012030.82	8012030.96	8012031.12	0.0133	0.0018
Venus	17224-04-30 04:33 G	8012116.58	8012116.69	8012116.83	0.0133	0.0108

Mercury	17224-05-02 15:07 G	8012118.99	8012119.13	8012119.28	0.0133	0.0035
Mercury	17224-07-29 19:12 G	8012207.17	8012207.30	8012207.44	0.0133	0.0053
Mercury	17224-10-25 23:16 G	8012295.35	8012295.47	8012295.60	0.0133	0.0070
Mercury	17225-01-22 03:07 G	8012383.53	8012383.63	8012383.75	0.0134	0.0088
Mercury	17225-04-20 07:12 G	8012471.71	8012471.80	8012471.89	0.0134	0.0106
Mercury	17225-07-17 10:48 G	8012559.91	8012559.95	8012560.02	0.0134	0.0124
Mars	17241-04-14 19:40 G	8018310.05	8018310.32	8018310.61	0.0139	0.0033
Mars	17243-03-16 12:43 G	8019010.82	8019011.03	8019011.26	0.0139	0.0092
Earth	17254-09-21 08:09 G	8023217.66	8023217.84	8023218.05	0.0144	0.0093
Moon	17254-09-21 10:48 G	8023217.78	8023217.95	8023218.15	0.0144	0.0094 *
Moon	17255-09-26 03:21 G	8023587.40	8023587.64	8023587.90	0.0144	0.0034
Earth	17255-09-26 06:14 G	8023587.52	8023587.76	8023588.01	0.0144	0.0032 *
Earth	17256-09-30 04:33 G	8023957.44	8023957.69	8023957.94	0.0144	0.0029
Moon	17256-09-30 06:14 G	8023957.53	8023957.76	8023958.00	0.0144	0.0035 *
Moon	17257-10-05 01:26 G	8024327.36	8024327.56	8024327.79	0.0145	0.0083
Earth	17257-10-05 02:52 G	8024327.44	8024327.62	8024327.83	0.0145	0.0091 *
Venus	17262-10-02 19:26 G	8026151.20	8026151.31	8026151.46	0.0145	0.0115
Venus	17263-05-17 07:55 G	8026377.64	8026377.83	8026378.03	0.0145	0.0066
Mercury	17263-12-02 05:02 G	8026576.70	8026576.71	8026576.73	0.0145	0.0144
Venus	17263-12-29 20:09 G	8026604.12	8026604.34	8026604.55	0.0145	0.0017
Mercury	17264-02-28 10:48 G	8026664.86	8026664.95	8026665.04	0.0145	0.0120
Mercury	17264-05-26 16:19 G	8026753.07	8026753.18	8026753.30	0.0145	0.0096
Venus	17264-08-12 08:09 G	8026830.64	8026830.84	8026831.06	0.0145	0.0032
Mercury	17264-08-22 21:50 G	8026841.28	8026841.41	8026841.56	0.0145	0.0072
Mercury	17264-11-19 03:50 G	8026929.51	8026929.66	8026929.81	0.0145	0.0047
Mercury	17265-02-15 09:36 G	8027017.74	8027017.90	8027018.06	0.0145	0.0022
Venus	17265-03-26 20:24 G	8027057.17	8027057.35	8027057.53	0.0145	0.0080
Mercury	17265-05-14 15:21 G	8027105.98	8027106.14	8027106.31	0.0145	0.0004
Mercury	17265-08-10 21:21 G	8027194.23	8027194.39	8027194.55	0.0145	0.0028
Mercury	17265-11-07 03:21 G	8027282.48	8027282.64	8027282.79	0.0145	0.0053

Venus	17265-11-08 07:55 G	8027283.76	8027283.83	8027283.95	0.0145	0.0129
Mercury	17266-02-03 09:07 G	8027370.75	8027370.88	8027371.02	0.0145	0.0079
Mercury	17266-05-02 14:52 G	8027459.02	8027459.12	8027459.25	0.0145	0.0105
Mercury	17266-07-29 21:21 G	8027547.32	8027547.39	8027547.46	0.0145	0.0130
Mars	17279-11-29 16:48 G	8032418.06	8032418.20	8032418.40	0.0140	0.0119
Mars	17281-11-03 17:16 G	8033122.91	8033123.22	8033123.55	0.0139	0.0028
Earth	17295-03-22 04:48 G	8038009.54	8038009.70	8038009.90	0.0134	0.0096
Moon	17295-03-22 08:38 G	8038009.69	8038009.86	8038010.05	0.0134	0.0094 *
Moon	17296-03-25 11:31 G	8038378.75	8038378.98	8038379.23	0.0134	0.0050
Earth	17296-03-25 15:21 G	8038378.91	8038379.14	8038379.39	0.0134	0.0046 *
Earth	17297-03-30 01:26 G	8038748.30	8038748.56	8038748.81	0.0134	0.0004
Moon	17297-03-30 05:02 G	8038748.45	8038748.71	8038748.96	0.0134	0.0010 *
Moon	17298-04-03 07:12 G	8039117.57	8039117.80	8039118.05	0.0134	0.0047
Earth	17298-04-03 10:33 G	8039117.72	8039117.94	8039118.19	0.0134	0.0054 *
Earth	17299-04-07 19:40 G	8039487.18	8039487.32	8039487.50	0.0134	0.0103
Moon	17299-04-07 23:45 G	8039487.35	8039487.49	8039487.64	0.0134	0.0109 *
Venus	17304-11-24 11:16 G	8041543.82	8041543.97	8041544.11	0.0133	0.0099
Venus	17305-07-08 16:19 G	8041769.99	8041770.18	8041770.38	0.0133	0.0061
Venus	17306-02-19 21:50 G	8041996.20	8041996.41	8041996.63	0.0133	0.0024
Mercury	17306-03-22 07:55 G	8042026.80	8042026.83	8042026.88	0.0133	0.0128
Mercury	17306-06-18 12:14 G	8042114.94	8042115.01	8042115.11	0.0133	0.0110
Mercury	17306-09-14 16:48 G	8042203.09	8042203.20	8042203.31	0.0133	0.0090
Venus	17306-10-04 03:07 G	8042222.41	8042222.63	8042222.85	0.0133	0.0014
Mercury	17306-12-11 21:07 G	8042291.25	8042291.38	8042291.51	0.0133	0.0072
Mercury	17307-03-10 01:12 G	8042379.41	8042379.55	8042379.69	0.0133	0.0053
Venus	17307-05-18 08:09 G	8042448.65	8042448.84	8042449.05	0.0133	0.0052
Mercury	17307-06-06 05:31 G	8042467.58	8042467.73	8042467.88	0.0133	0.0035
Mercury	17307-09-02 09:36 G	8042555.75	8042555.90	8042556.05	0.0133	0.0017
Mercury	17307-11-29 13:40 G	8042643.92	8042644.07	8042644.23	0.0133	0.0004
Venus	17307-12-30 13:12 G	8042674.91	8042675.05	8042675.23	0.0133	0.0090

Mercury	17308-02-25 17:45 G	8042732.10	8042732.24	8042732.40	0.0133	0.0021
Mercury	17308-05-23 21:50 G	8042820.27	8042820.41	8042820.56	0.0133	0.0038
Venus	17308-08-12 18:43 G	8042901.22	8042901.28	8042901.35	0.0134	0.0127
Mercury	17308-08-20 01:55 G	8042908.45	8042908.58	8042908.72	0.0134	0.0056
Mercury	17308-11-16 06:00 G	8042996.63	8042996.75	8042996.87	0.0134	0.0074
Mercury	17309-02-12 09:50 G	8043084.81	8043084.91	8043085.03	0.0134	0.0092
Mercury	17309-05-11 13:55 G	8043173.00	8043173.08	8043173.17	0.0134	0.0109
Mercury	17309-08-07 17:31 G	8043261.20	8043261.23	8043261.29	0.0134	0.0127
Mars	17324-01-08 23:02 G	8048528.27	8048528.46	8048528.65	0.0138	0.0103
Mars	17325-12-09 08:09 G	8049228.55	8049228.84	8049229.13	0.0139	0.0018
Earth	17338-09-22 18:00 G	8053899.07	8053899.25	8053899.46	0.0144	0.0090
Moon	17338-09-22 21:21 G	8053899.21	8053899.39	8053899.60	0.0144	0.0087 *
Moon	17339-09-27 13:12 G	8054268.80	8054269.05	8054269.31	0.0144	0.0028
Earth	17339-09-27 16:04 G	8054268.93	8054269.17	8054269.42	0.0144	0.0029 *
Earth	17340-10-01 14:09 G	8054638.85	8054639.09	8054639.35	0.0144	0.0033
Moon	17340-10-01 17:02 G	8054638.97	8054639.21	8054639.45	0.0144	0.0026 *
Moon	17341-10-06 10:48 G	8055008.77	8055008.95	8055009.14	0.0145	0.0100
Earth	17341-10-06 12:43 G	8055008.86	8055009.03	8055009.24	0.0145	0.0094 *
Venus	17346-06-03 01:26 G	8056709.49	8056709.56	8056709.62	0.0145	0.0137
Venus	17347-01-15 13:12 G	8056935.89	8056936.05	8056936.23	0.0145	0.0090
Venus	17347-08-30 01:26 G	8057162.36	8057162.56	8057162.78	0.0145	0.0041
Mercury	17347-12-23 12:00 G	8057277.97	8057278.00	8057278.05	0.0145	0.0139
Mercury	17348-03-20 17:45 G	8057366.15	8057366.24	8057366.34	0.0145	0.0115
Venus	17348-04-12 13:55 G	8057388.86	8057389.08	8057389.29	0.0145	0.0008
Mercury	17348-06-16 23:16 G	8057454.35	8057454.47	8057454.60	0.0145	0.0091
Mercury	17348-09-13 05:02 G	8057542.57	8057542.71	8057542.86	0.0145	0.0067
Venus	17348-11-25 01:40 G	8057615.38	8057615.57	8057615.78	0.0145	0.0057
Mercury	17348-12-10 10:48 G	8057630.80	8057630.95	8057631.11	0.0145	0.0042
Mercury	17349-03-08 16:33 G	8057719.03	8057719.19	8057719.35	0.0145	0.0018
Mercury	17349-06-04 22:19 G	8057807.27	8057807.43	8057807.60	0.0145	0.0009

Venus	17349-07-09 13:40 G	8057841.93	8057842.07	8057842.23	0.0145	0.0105
Mercury	17349-09-01 04:19 G	8057895.52	8057895.68	8057895.84	0.0145	0.0033
Mercury	17349-11-28 10:19 G	8057983.78	8057983.93	8057984.08	0.0145	0.0058
Mercury	17350-02-24 16:04 G	8058072.04	8058072.17	8058072.31	0.0145	0.0084
Mercury	17350-05-23 22:04 G	8058160.32	8058160.42	8058160.53	0.0145	0.0110
Mercury	17350-08-20 04:04 G	8058248.63	8058248.67	8058248.74	0.0145	0.0136
Mars	17364-07-26 13:26 G	8063337.76	8063338.06	8063338.36	0.0140	0.0059
Mars	17366-07-01 08:24 G	8064042.60	8064042.85	8064043.12	0.0139	0.0085
Earth	17379-03-23 13:26 G	8068690.89	8068691.06	8068691.26	0.0134	0.0094
Moon	17379-03-23 17:16 G	8068691.05	8068691.22	8068691.42	0.0134	0.0094 *
Moon	17380-03-26 20:38 G	8069060.12	8069060.36	8069060.61	0.0134	0.0040
Earth	17380-03-27 00:00 G	8069060.27	8069060.50	8069060.75	0.0134	0.0044 *
Earth	17381-03-31 09:50 G	8069429.66	8069429.91	8069430.17	0.0134	0.0007
Moon	17381-03-31 13:40 G	8069429.81	8069430.07	8069430.33	0.0134	0.0000 *
Moon	17382-04-04 15:50 G	8069798.94	8069799.16	8069799.39	0.0134	0.0063
Earth	17382-04-04 19:26 G	8069799.09	8069799.31	8069799.55	0.0134	0.0056 *
Earth	17383-04-09 05:02 G	8070168.55	8070168.71	8070168.87	0.0134	0.0105
Moon	17383-04-09 08:24 G	8070168.69	8070168.85	8070169.03	0.0134	0.0099 *
Venus	17388-07-24 19:55 G	8072102.24	8072102.33	8072102.45	0.0133	0.0116
Venus	17389-03-08 01:40 G	8072328.40	8072328.57	8072328.75	0.0133	0.0079
Venus	17389-10-20 06:43 G	8072554.58	8072554.78	8072555.00	0.0133	0.0042
Mercury	17390-04-11 14:52 G	8072728.07	8072728.12	8072728.18	0.0133	0.0124
Venus	17390-06-03 12:14 G	8072780.79	8072781.01	8072781.22	0.0133	0.0004
Mercury	17390-07-08 19:12 G	8072816.21	8072816.30	8072816.40	0.0133	0.0106
Mercury	17390-10-04 23:16 G	8072904.37	8072904.47	8072904.60	0.0133	0.0088
Mercury	17391-01-01 03:36 G	8072992.53	8072992.65	8072992.79	0.0133	0.0069
Venus	17391-01-15 17:16 G	8073007.01	8073007.22	8073007.44	0.0133	0.0034
Mercury	17391-03-30 08:09 G	8073080.70	8073080.84	8073080.98	0.0133	0.0050
Mercury	17391-06-26 12:14 G	8073168.86	8073169.01	8073169.16	0.0133	0.0031
Venus	17391-08-29 22:33 G	8073233.26	8073233.44	8073233.63	0.0133	0.0072

Mercury	17391-09-22 16:19 G	8073257.03	8073257.18	8073257.34	0.0133	0.0014
Mercury	17391-12-19 20:38 G	8073345.21	8073345.36	8073345.51	0.0133	0.0006
Mercury	17392-03-17 00:43 G	8073433.38	8073433.53	8073433.68	0.0133	0.0024
Venus	17392-04-12 03:36 G	8073459.54	8073459.65	8073459.79	0.0133	0.0110
Mercury	17392-06-13 04:48 G	8073521.56	8073521.70	8073521.84	0.0134	0.0042
Mercury	17392-09-09 08:38 G	8073609.73	8073609.86	8073610.00	0.0134	0.0060
Mercury	17392-12-06 12:43 G	8073697.91	8073698.03	8073698.16	0.0134	0.0077
Mercury	17393-03-04 16:48 G	8073786.10	8073786.20	8073786.31	0.0134	0.0095
Mercury	17393-05-31 20:38 G	8073874.29	8073874.36	8073874.45	0.0134	0.0113
Mercury	17393-08-28 00:43 G	8073962.50	8073962.53	8073962.56	0.0134	0.0130
Mars	17408-09-03 07:40 G	8079446.57	8079446.82	8079447.10	0.0138	0.0055
Mars	17410-08-04 22:19 G	8080147.19	8080147.43	8080147.69	0.0139	0.0069
Moon	17421-09-19 02:09 G	8084210.56	8084210.59	8084210.65	0.0144	0.0141
Earth	17422-09-24 03:21 G	8084580.45	8084580.64	8084580.85	0.0144	0.0088
Moon	17422-09-24 06:28 G	8084580.60	8084580.77	8084580.98	0.0144	0.0091 *
Moon	17423-09-28 22:04 G	8084950.18	8084950.42	8084950.68	0.0144	0.0027
Earth	17423-09-29 01:40 G	8084950.33	8084950.57	8084950.82	0.0144	0.0027 *
Earth	17424-10-03 00:00 G	8085320.26	8085320.50	8085320.75	0.0144	0.0035
Moon	17424-10-03 02:38 G	8085320.38	8085320.61	8085320.86	0.0144	0.0040 *
Moon	17425-10-07 19:55 G	8085690.14	8085690.33	8085690.55	0.0145	0.0089
Earth	17425-10-07 22:33 G	8085690.27	8085690.44	8085690.64	0.0145	0.0097 *
Venus	17430-09-15 18:43 G	8087494.17	8087494.28	8087494.44	0.0145	0.0113
Venus	17431-04-30 07:12 G	8087720.61	8087720.80	8087721.00	0.0145	0.0063
Venus	17431-12-12 19:26 G	8087947.09	8087947.31	8087947.53	0.0145	0.0015
Mercury	17432-01-13 18:57 G	8087979.25	8087979.29	8087979.36	0.0145	0.0134
Mercury	17432-04-11 00:43 G	8088067.44	8088067.53	8088067.64	0.0145	0.0110
Mercury	17432-07-08 06:14 G	8088155.65	8088155.76	8088155.90	0.0145	0.0086
Venus	17432-07-26 07:26 G	8088173.60	8088173.81	8088174.03	0.0145	0.0034
Mercury	17432-10-04 12:14 G	8088243.86	8088244.01	8088244.15	0.0145	0.0061
Mercury	17432-12-31 17:45 G	8088332.09	8088332.24	8088332.40	0.0145	0.0037

Venus	17433-03-09 19:40 G	8088400.14	8088400.32	8088400.50	0.0145	0.0082
Mercury	17433-03-29 23:45 G	8088420.33	8088420.49	8088420.65	0.0145	0.0012
Mercury	17433-06-26 05:31 G	8088508.57	8088508.73	8088508.89	0.0145	0.0013
Mercury	17433-09-22 11:16 G	8088596.82	8088596.97	8088597.13	0.0145	0.0039
Venus	17433-10-22 07:12 G	8088626.73	8088626.80	8088626.91	0.0145	0.0131
Mercury	17433-12-19 17:16 G	8088685.08	8088685.22	8088685.37	0.0145	0.0064
Mercury	17434-03-17 23:02 G	8088773.34	8088773.46	8088773.60	0.0145	0.0090
Mercury	17434-06-14 05:16 G	8088861.63	8088861.72	8088861.82	0.0145	0.0115
Mercury	17434-09-10 11:16 G	8088949.94	8088949.97	8088950.01	0.0145	0.0141
Mars	17449-03-23 07:26 G	8094257.48	8094257.81	8094258.13	0.0140	0.0002
Earth	17463-03-24 21:36 G	8099372.22	8099372.40	8099372.59	0.0134	0.0092
Moon	17463-03-25 00:43 G	8099372.35	8099372.53	8099372.73	0.0134	0.0092 *
Moon	17464-03-28 04:19 G	8099741.45	8099741.68	8099741.92	0.0134	0.0045
Earth	17464-03-28 07:40 G	8099741.59	8099741.82	8099742.08	0.0134	0.0042 *
Earth	17465-04-01 17:45 G	8100110.99	8100111.24	8100111.50	0.0134	0.0009
Moon	17465-04-01 21:07 G	8100111.13	8100111.38	8100111.65	0.0134	0.0014 *
Moon	17466-04-06 00:00 G	8100480.27	8100480.50	8100480.74	0.0134	0.0051
Earth	17466-04-06 03:21 G	8100480.42	8100480.64	8100480.88	0.0134	0.0058 *
Earth	17467-04-10 12:57 G	8100849.89	8100850.04	8100850.20	0.0134	0.0107
Moon	17467-04-10 16:04 G	8100850.07	8100850.17	8100850.33	0.0134	0.0115 *
Venus	17472-11-06 09:50 G	8102886.78	8102886.91	8102887.08	0.0133	0.0097
Venus	17473-06-20 15:07 G	8103112.95	8103113.13	8103113.34	0.0133	0.0059
Venus	17474-02-01 20:38 G	8103339.15	8103339.36	8103339.58	0.0133	0.0022
Mercury	17474-05-02 21:21 G	8103429.34	8103429.39	8103429.46	0.0133	0.0122
Mercury	17474-07-30 01:55 G	8103517.49	8103517.58	8103517.68	0.0133	0.0102
Venus	17474-09-16 01:55 G	8103565.37	8103565.58	8103565.80	0.0133	0.0016
Mercury	17474-10-26 06:14 G	8103605.64	8103605.76	8103605.88	0.0133	0.0084
Mercury	17475-01-22 10:19 G	8103693.81	8103693.93	8103694.07	0.0133	0.0066
Mercury	17475-04-20 14:38 G	8103781.97	8103782.11	8103782.26	0.0133	0.0047
Venus	17475-04-30 07:12 G	8103791.60	8103791.80	8103792.00	0.0133	0.0054

Mercury	17475-07-17 18:57 G	8103870.14	8103870.29	8103870.44	0.0133	0.0028
Mercury	17475-10-13 23:02 G	8103958.31	8103958.46	8103958.62	0.0133	0.0010
Venus	17475-12-12 12:14 G	8104017.86	8104018.01	8104018.18	0.0133	0.0092
Mercury	17476-01-10 03:07 G	8104046.48	8104046.63	8104046.79	0.0133	0.0010
Mercury	17476-04-07 07:26 G	8104134.66	8104134.81	8104134.95	0.0133	0.0027
Mercury	17476-07-04 11:31 G	8104222.84	8104222.98	8104223.12	0.0134	0.0045
Venus	17476-07-25 17:31 G	8104244.19	8104244.23	8104244.30	0.0134	0.0129
Mercury	17476-09-30 15:21 G	8104311.01	8104311.14	8104311.28	0.0134	0.0063
Mercury	17476-12-27 19:26 G	8104399.20	8104399.31	8104399.43	0.0134	0.0080
Mercury	17477-03-25 23:31 G	8104487.38	8104487.48	8104487.58	0.0134	0.0098
Mercury	17477-06-22 03:21 G	8104575.57	8104575.64	8104575.72	0.0134	0.0116
Mercury	17477-09-18 07:26 G	8104663.80	8104663.81	8104663.82	0.0134	0.0133
Mars	17491-05-29 12:43 G	8109664.92	8109665.03	8109665.15	0.0138	0.0126
Mars	17493-04-28 18:57 G	8110365.00	8110365.29	8110365.58	0.0139	0.0006
Mars	17495-03-30 11:45 G	8111065.87	8111065.99	8111066.15	0.0139	0.0121
Earth	17506-09-25 12:00 G	8115261.81	8115262.00	8115262.21	0.0144	0.0086
Moon	17506-09-25 15:50 G	8115261.96	8115262.16	8115262.37	0.0144	0.0081 *
Moon	17507-09-30 06:43 G	8115631.54	8115631.78	8115632.04	0.0144	0.0025
Earth	17507-09-30 10:04 G	8115631.68	8115631.92	8115632.18	0.0144	0.0026 *
Earth	17508-10-04 08:38 G	8116001.62	8116001.86	8116002.11	0.0144	0.0037
Moon	17508-10-04 12:00 G	8116001.76	8116002.00	8116002.25	0.0144	0.0032 *
Moon	17509-10-09 04:04 G	8116371.51	8116371.67	8116371.86	0.0145	0.0105
Earth	17509-10-09 07:12 G	8116371.63	8116371.80	8116372.00	0.0145	0.0099 *
Venus	17514-05-17 00:14 G	8118052.43	8118052.51	8118052.59	0.0145	0.0134
Venus	17514-12-29 12:14 G	8118278.84	8118279.01	8118279.19	0.0145	0.0086
Venus	17515-08-13 00:28 G	8118505.31	8118505.52	8118505.73	0.0145	0.0038
Mercury	17516-02-04 01:55 G	8118680.52	8118680.58	8118680.66	0.0145	0.0129
Venus	17516-03-26 12:43 G	8118731.81	8118732.03	8118732.24	0.0145	0.0011
Mercury	17516-05-02 07:40 G	8118768.72	8118768.82	8118768.93	0.0145	0.0105
Mercury	17516-07-29 13:12 G	8118856.93	8118857.05	8118857.19	0.0145	0.0081

Mercury	17516-10-25 18:57 G	8118945.15	8118945.29	8118945.44	0.0145	0.0057
Venus	17516-11-08 00:43 G	8118958.33	8118958.53	8118958.73	0.0145	0.0059
Mercury	17517-01-22 00:43 G	8119033.38	8119033.53	8119033.69	0.0145	0.0032
Mercury	17517-04-20 06:28 G	8119121.61	8119121.77	8119121.94	0.0145	0.0008
Venus	17517-06-22 12:14 G	8119184.89	8119185.01	8119185.17	0.0145	0.0108
Mercury	17517-07-17 12:28 G	8119209.86	8119210.02	8119210.18	0.0145	0.0018
Mercury	17517-10-13 18:14 G	8119298.11	8119298.26	8119298.42	0.0145	0.0043
Mercury	17518-01-10 00:14 G	8119386.37	8119386.51	8119386.65	0.0145	0.0069
Mercury	17518-04-08 06:00 G	8119474.64	8119474.75	8119474.88	0.0145	0.0095
Mercury	17518-07-05 12:14 G	8119562.92	8119563.01	8119563.10	0.0145	0.0120
Mars	17531-12-13 21:21 G	8124472.15	8124472.39	8124472.66	0.0140	0.0090
Mars	17533-11-17 23:02 G	8125177.19	8125177.46	8125177.78	0.0139	0.0060
Earth	17547-03-26 05:45 G	8130053.57	8130053.74	8130053.95	0.0134	0.0090
Moon	17547-03-26 09:07 G	8130053.70	8130053.88	8130054.09	0.0134	0.0089 *
Moon	17548-03-29 13:40 G	8130422.83	8130423.07	8130423.31	0.0134	0.0038
Earth	17548-03-29 16:19 G	8130422.95	8130423.18	8130423.44	0.0134	0.0040 *
Earth	17549-04-03 02:24 G	8130792.34	8130792.60	8130792.86	0.0134	0.0010
Moon	17549-04-03 05:45 G	8130792.48	8130792.74	8130793.00	0.0134	0.0005 *
Moon	17550-04-07 08:52 G	8131161.66	8131161.87	8131162.09	0.0134	0.0067
Earth	17550-04-07 12:00 G	8131161.78	8131162.00	8131162.24	0.0134	0.0060 *
Earth	17551-04-11 21:07 G	8131531.26	8131531.38	8131531.55	0.0134	0.0110
Moon	17551-04-12 00:43 G	8131531.38	8131531.53	8131531.71	0.0134	0.0103 *
Venus	17556-07-07 18:43 G	8133445.18	8133445.28	8133445.41	0.0133	0.0114
Venus	17557-02-19 00:14 G	8133671.34	8133671.51	8133671.70	0.0133	0.0076
Venus	17557-10-03 05:45 G	8133897.53	8133897.74	8133897.95	0.0133	0.0039
Venus	17558-05-17 11:02 G	8134123.74	8134123.96	8134124.18	0.0133	0.0002
Mercury	17558-05-24 04:19 G	8134130.61	8134130.68	8134130.76	0.0133	0.0118
Mercury	17558-08-20 08:24 G	8134218.76	8134218.85	8134218.97	0.0133	0.0100
Mercury	17558-11-16 12:57 G	8134306.92	8134307.04	8134307.17	0.0133	0.0080
Venus	17558-12-29 16:04 G	8134349.97	8134350.17	8134350.38	0.0133	0.0037

Mercury	17559-02-12 17:16 G	8134395.09	8134395.22	8134395.36	0.0133	0.0061
Mercury	17559-05-11 21:36 G	8134483.25	8134483.40	8134483.54	0.0133	0.0043
Mercury	17559-08-08 01:40 G	8134571.42	8134571.57	8134571.72	0.0133	0.0025
Venus	17559-08-12 21:07 G	8134576.22	8134576.38	8134576.58	0.0133	0.0075
Mercury	17559-11-04 06:00 G	8134659.60	8134659.75	8134659.90	0.0133	0.0006
Mercury	17560-01-31 10:04 G	8134747.77	8134747.92	8134748.07	0.0133	0.0012
Venus	17560-03-26 02:38 G	8134802.51	8134802.61	8134802.74	0.0133	0.0112
Mercury	17560-04-28 14:09 G	8134835.94	8134836.09	8134836.24	0.0133	0.0030
Mercury	17560-07-25 18:14 G	8134924.12	8134924.26	8134924.40	0.0133	0.0048
Mercury	17560-10-21 22:04 G	8135012.30	8135012.42	8135012.56	0.0133	0.0067
Mercury	17561-01-18 02:09 G	8135100.48	8135100.59	8135100.71	0.0134	0.0084
Mercury	17561-04-16 06:14 G	8135188.67	8135188.76	8135188.86	0.0134	0.0102
Mercury	17561-07-13 10:04 G	8135276.87	8135276.92	8135277.00	0.0134	0.0120
Mars	17576-01-22 20:09 G	8140583.13	8140583.34	8140583.60	0.0138	0.0079
Mars	17577-12-23 05:45 G	8141283.48	8141283.74	8141284.03	0.0139	0.0045
Moon	17589-09-20 18:57 G	8145573.24	8145573.29	8145573.38	0.0144	0.0138
Earth	17590-09-25 19:55 G	8145943.15	8145943.33	8145943.55	0.0144	0.0085
Moon	17590-09-25 23:31 G	8145943.30	8145943.48	8145943.70	0.0144	0.0089 *
Moon	17591-09-30 14:38 G	8146312.87	8146313.11	8146313.37	0.0144	0.0022
Earth	17591-09-30 18:28 G	8146313.03	8146313.27	8146313.52	0.0144	0.0024 *
Earth	17592-10-04 16:48 G	8146682.96	8146683.20	8146683.45	0.0144	0.0039
Moon	17592-10-04 20:09 G	8146683.11	8146683.34	8146683.59	0.0144	0.0042 *
Moon	17593-10-09 12:00 G	8147052.82	8147053.00	8147053.21	0.0145	0.0094
Earth	17593-10-09 15:36 G	8147052.98	8147053.15	8147053.33	0.0145	0.0101 *
Venus	17598-08-28 16:48 G	8148837.07	8148837.20	8148837.36	0.0145	0.0110
Venus	17599-04-12 05:16 G	8149063.52	8149063.72	8149063.92	0.0145	0.0061
Venus	17599-11-24 17:16 G	8149290.01	8149290.22	8149290.44	0.0145	0.0013
Mercury	17600-02-24 08:38 G	8149381.80	8149381.86	8149381.96	0.0145	0.0125
Mercury	17600-05-22 14:24 G	8149469.99	8149470.10	8149470.22	0.0145	0.0101
Venus	17600-07-08 05:16 G	8149516.52	8149516.72	8149516.94	0.0145	0.0036

Mercury	17600-08-18 20:09 G	8149558.21	8149558.34	8149558.48	0.0145	0.0076
Mercury	17600-11-15 01:55 G	8149646.43	8149646.58	8149646.73	0.0145	0.0052
Mercury	17601-02-11 07:40 G	8149734.66	8149734.82	8149734.98	0.0145	0.0027
Venus	17601-02-19 17:31 G	8149743.06	8149743.23	8149743.41	0.0145	0.0084
Mercury	17601-05-10 13:26 G	8149822.90	8149823.06	8149823.22	0.0145	0.0003
Mercury	17601-08-06 19:12 G	8149911.14	8149911.30	8149911.46	0.0145	0.0023
Venus	17601-10-04 05:31 G	8149969.66	8149969.73	8149969.83	0.0145	0.0133
Mercury	17601-11-03 01:12 G	8149999.39	8149999.55	8149999.70	0.0145	0.0048
Mercury	17602-01-30 06:57 G	8150087.65	8150087.79	8150087.93	0.0145	0.0074
Mercury	17602-04-28 12:57 G	8150175.93	8150176.04	8150176.16	0.0145	0.0099
Mercury	17602-07-25 18:57 G	8150264.21	8150264.29	8150264.38	0.0145	0.0125
Mars	17616-08-08 17:16 G	8155391.90	8155392.22	8155392.55	0.0140	0.0030
Mars	17618-07-14 13:26 G	8156096.91	8156097.06	8156097.26	0.0139	0.0117
Moon	17630-03-22 00:43 G	8160365.53	8160365.53	8160365.58	0.0135	0.0134
Earth	17631-03-26 13:40 G	8160734.90	8160735.07	8160735.28	0.0134	0.0089
Moon	17631-03-26 16:19 G	8160735.00	8160735.18	8160735.39	0.0134	0.0090 *
Moon	17632-03-29 21:21 G	8161104.16	8161104.39	8161104.64	0.0134	0.0040
Earth	17632-03-30 00:14 G	8161104.27	8161104.51	8161104.77	0.0134	0.0038 *
Earth	17633-04-03 10:19 G	8161473.68	8161473.93	8161474.19	0.0134	0.0013
Moon	17633-04-03 12:57 G	8161473.78	8161474.04	8161474.31	0.0134	0.0017 *
Moon	17634-04-07 17:02 G	8161842.99	8161843.21	8161843.45	0.0134	0.0056
Earth	17634-04-07 19:55 G	8161843.12	8161843.33	8161843.57	0.0134	0.0063 *
Earth	17635-04-12 05:16 G	8162212.59	8162212.72	8162212.87	0.0134	0.0112
Moon	17635-04-12 08:24 G	8162212.75	8162212.85	8162212.98	0.0134	0.0119 *
Venus	17640-03-07 03:36 G	8164003.62	8164003.65	8164003.70	0.0133	0.0131
Venus	17640-10-19 08:52 G	8164229.72	8164229.87	8164230.03	0.0133	0.0094
Venus	17641-06-02 14:09 G	8164455.90	8164456.09	8164456.29	0.0133	0.0056
Venus	17642-01-14 19:26 G	8164682.10	8164682.31	8164682.53	0.0133	0.0019
Mercury	17642-06-13 10:48 G	8164831.88	8164831.95	8164832.04	0.0133	0.0115
Venus	17642-08-29 00:43 G	8164908.32	8164908.53	8164908.75	0.0133	0.0019

Mercury	17642-09-09 15:21 G	8164920.04	8164920.14	8164920.25	0.0133	0.0096
Mercury	17642-12-06 19:40 G	8165008.20	8165008.32	8165008.45	0.0133	0.0077
Mercury	17643-03-04 23:45 G	8165096.36	8165096.49	8165096.64	0.0133	0.0059
Venus	17643-04-12 06:00 G	8165134.56	8165134.75	8165134.96	0.0133	0.0057
Mercury	17643-06-01 04:19 G	8165184.53	8165184.68	8165184.82	0.0133	0.0040
Mercury	17643-08-28 08:24 G	8165272.70	8165272.85	8165273.00	0.0133	0.0021
Venus	17643-11-24 11:02 G	8165360.83	8165360.96	8165361.13	0.0133	0.0095
Mercury	17643-11-24 12:43 G	8165360.87	8165361.03	8165361.18	0.0133	0.0004 *
Mercury	17644-02-20 16:48 G	8165449.05	8165449.20	8165449.35	0.0133	0.0016
Mercury	17644-05-18 20:52 G	8165537.23	8165537.37	8165537.52	0.0133	0.0034
Venus	17644-07-07 16:33 G	8165587.17	8165587.19	8165587.24	0.0133	0.0132
Mercury	17644-08-15 00:57 G	8165625.40	8165625.54	8165625.68	0.0133	0.0052
Mercury	17644-11-11 05:02 G	8165713.58	8165713.71	8165713.84	0.0133	0.0070
Mercury	17645-02-07 08:52 G	8165801.77	8165801.87	8165801.99	0.0133	0.0088
Mercury	17645-05-06 12:57 G	8165889.96	8165890.04	8165890.14	0.0134	0.0105
Mercury	17645-08-02 17:02 G	8165978.16	8165978.21	8165978.27	0.0134	0.0123
Mars	17660-09-16 05:45 G	8171501.47	8171501.74	8171502.03	0.0138	0.0031
Mars	17662-08-17 17:16 G	8172202.03	8172202.22	8172202.45	0.0139	0.0096
Earth	17673-09-21 06:57 G	8176254.78	8176254.79	8176254.83	0.0144	0.0143
Earth	17674-09-26 04:33 G	8176624.50	8176624.69	8176624.91	0.0144	0.0083
Moon	17674-09-26 08:24 G	8176624.63	8176624.85	8176625.06	0.0144	0.0076 *
Moon	17675-09-30 23:31 G	8176994.23	8176994.48	8176994.73	0.0144	0.0023
Earth	17675-10-01 02:52 G	8176994.37	8176994.62	8176994.87	0.0144	0.0021 *
Earth	17676-10-05 00:57 G	8177364.31	8177364.54	8177364.79	0.0144	0.0042
Moon	17676-10-05 05:02 G	8177364.47	8177364.71	8177364.95	0.0144	0.0038 *
Moon	17677-10-09 20:09 G	8177734.19	8177734.34	8177734.52	0.0145	0.0109
Earth	17677-10-09 23:31 G	8177734.33	8177734.48	8177734.68	0.0145	0.0104 *
Venus	17682-04-27 21:21 G	8179395.32	8179395.39	8179395.49	0.0145	0.0133
Venus	17682-12-10 09:36 G	8179621.74	8179621.90	8179622.09	0.0145	0.0085
Venus	17683-07-24 22:04 G	8179848.21	8179848.42	8179848.63	0.0145	0.0036

Mercury	17683-12-18 10:04 G	8179994.92	8179994.92	8179994.94	0.0145	0.0144
Venus	17684-03-07 10:19 G	8180074.71	8180074.93	8180075.14	0.0145	0.0012
Mercury	17684-03-15 15:50 G	8180083.07	8180083.16	8180083.25	0.0145	0.0120
Mercury	17684-06-11 21:21 G	8180171.27	8180171.39	8180171.51	0.0145	0.0096
Mercury	17684-09-08 02:52 G	8180259.49	8180259.62	8180259.76	0.0145	0.0072
Venus	17684-10-19 22:19 G	8180301.24	8180301.43	8180301.63	0.0145	0.0061
Mercury	17684-12-05 08:38 G	8180347.71	8180347.86	8180348.01	0.0145	0.0047
Mercury	17685-03-03 14:24 G	8180435.94	8180436.10	8180436.26	0.0145	0.0023
Mercury	17685-05-30 20:09 G	8180524.18	8180524.34	8180524.50	0.0145	0.0002
Venus	17685-06-03 10:19 G	8180527.80	8180527.93	8180528.08	0.0145	0.0109
Mercury	17685-08-27 01:55 G	8180612.42	8180612.58	8180612.74	0.0145	0.0027
Mercury	17685-11-23 07:40 G	8180700.68	8180700.82	8180700.98	0.0145	0.0053
Mercury	17686-02-19 13:40 G	8180788.94	8180789.07	8180789.21	0.0145	0.0078
Mercury	17686-05-18 19:40 G	8180877.21	8180877.32	8180877.44	0.0145	0.0104
Mercury	17686-08-15 01:26 G	8180965.51	8180965.56	8180965.65	0.0145	0.0130
Mars	17699-04-30 01:55 G	8185606.43	8185606.58	8185606.75	0.0140	0.0123
Mars	17701-04-05 10:33 G	8186311.62	8186311.94	8186312.26	0.0140	0.0030
Earth	17715-03-27 22:33 G	8191416.25	8191416.44	8191416.64	0.0134	0.0086
Moon	17715-03-28 00:28 G	8191416.33	8191416.52	8191416.74	0.0134	0.0084 *
Moon	17716-03-31 07:12 G	8191785.57	8191785.80	8191786.05	0.0134	0.0036
Earth	17716-03-31 09:07 G	8191785.63	8191785.88	8191786.13	0.0134	0.0035 *
Earth	17717-04-04 18:57 G	8192155.04	8192155.29	8192155.55	0.0134	0.0015
Moon	17717-04-04 21:36 G	8192155.14	8192155.40	8192155.66	0.0134	0.0010 *
Moon	17718-04-09 02:24 G	8192524.39	8192524.60	8192524.82	0.0134	0.0071
Earth	17718-04-09 04:33 G	8192524.47	8192524.69	8192524.92	0.0134	0.0065 *
Earth	17719-04-13 13:40 G	8192893.96	8192894.07	8192894.22	0.0134	0.0115
Moon	17719-04-13 16:19 G	8192894.04	8192894.18	8192894.35	0.0134	0.0108 *
Venus	17724-06-19 18:00 G	8194788.13	8194788.25	8194788.37	0.0133	0.0111
Venus	17725-01-31 23:16 G	8195014.29	8195014.47	8195014.66	0.0133	0.0073
Venus	17725-09-15 04:33 G	8195240.49	8195240.69	8195240.91	0.0133	0.0036

Mercury	17726-04-07 13:26 G	8195445.03	8195445.06	8195445.10	0.0133	0.0129
Venus	17726-04-29 10:04 G	8195466.70	8195466.92	8195467.13	0.0133	0.0003
Mercury	17726-07-04 17:45 G	8195533.16	8195533.24	8195533.33	0.0133	0.0111
Mercury	17726-09-30 22:19 G	8195621.32	8195621.43	8195621.54	0.0133	0.0092
Venus	17726-12-11 15:07 G	8195692.93	8195693.13	8195693.34	0.0133	0.0039
Mercury	17726-12-28 02:24 G	8195709.48	8195709.60	8195709.73	0.0133	0.0073
Mercury	17727-03-26 06:43 G	8195797.64	8195797.78	8195797.92	0.0133	0.0054
Mercury	17727-06-22 11:02 G	8195885.81	8195885.96	8195886.11	0.0133	0.0036
Venus	17727-07-25 20:24 G	8195919.18	8195919.35	8195919.54	0.0133	0.0077
Mercury	17727-09-18 15:21 G	8195973.99	8195974.14	8195974.29	0.0133	0.0017
Mercury	17727-12-15 19:26 G	8196062.16	8196062.31	8196062.46	0.0133	0.0003
Venus	17728-03-08 01:40 G	8196145.48	8196145.57	8196145.70	0.0133	0.0115
Mercury	17728-03-12 23:45 G	8196150.34	8196150.49	8196150.64	0.0133	0.0020
Mercury	17728-06-09 03:50 G	8196238.51	8196238.66	8196238.80	0.0133	0.0038
Mercury	17728-09-05 07:55 G	8196326.69	8196326.83	8196326.97	0.0133	0.0056
Mercury	17728-12-02 12:00 G	8196414.87	8196415.00	8196415.12	0.0133	0.0074
Mercury	17729-02-28 15:50 G	8196503.06	8196503.16	8196503.28	0.0133	0.0092
Mercury	17729-05-27 19:40 G	8196591.25	8196591.32	8196591.42	0.0134	0.0110
Mercury	17729-08-23 23:45 G	8196679.46	8196679.49	8196679.55	0.0134	0.0127
Mars	17743-06-12 12:28 G	8201719.85	8201720.02	8201720.23	0.0138	0.0103
Mars	17745-05-12 16:33 G	8202419.91	8202420.19	8202420.48	0.0139	0.0020
Moon	17757-09-22 13:40 G	8206935.98	8206936.07	8206936.16	0.0144	0.0133
Earth	17757-09-22 15:50 G	8206936.13	8206936.16	8206936.22	0.0144	0.0141 *
Earth	17758-09-27 13:26 G	8207305.86	8207306.06	8207306.28	0.0144	0.0080
Moon	17758-09-27 16:33 G	8207305.99	8207306.19	8207306.40	0.0144	0.0085 *
Moon	17759-10-02 08:09 G	8207675.60	8207675.84	8207676.09	0.0144	0.0016
Earth	17759-10-02 11:45 G	8207675.74	8207675.99	8207676.24	0.0144	0.0019 *
Earth	17760-10-06 09:50 G	8208045.67	8208045.91	8208046.15	0.0144	0.0044
Moon	17760-10-06 13:12 G	8208045.81	8208046.05	8208046.29	0.0144	0.0046 *
Moon	17761-10-11 04:33 G	8208415.52	8208415.69	8208415.88	0.0145	0.0100

Earth	17761-10-11 07:55 G	8208415.68	8208415.83	8208416.02	0.0145	0.0107 *
Venus	17766-08-10 14:38 G	8210179.98	8210180.11	8210180.27	0.0145	0.0108
Venus	17767-03-25 02:52 G	8210406.44	8210406.62	8210406.83	0.0145	0.0060
Venus	17767-11-06 15:21 G	8210632.92	8210633.14	8210633.36	0.0145	0.0011
Mercury	17768-01-08 17:02 G	8210696.18	8210696.21	8210696.26	0.0145	0.0139
Mercury	17768-04-05 22:48 G	8210784.36	8210784.45	8210784.54	0.0145	0.0115
Venus	17768-06-20 03:21 G	8210859.44	8210859.64	8210859.86	0.0145	0.0038
Mercury	17768-07-03 04:19 G	8210872.56	8210872.68	8210872.80	0.0145	0.0091
Mercury	17768-09-29 09:50 G	8210960.77	8210960.91	8210961.06	0.0145	0.0067
Mercury	17768-12-26 15:36 G	8211049.00	8211049.15	8211049.31	0.0145	0.0042
Venus	17769-02-01 15:36 G	8211085.98	8211086.15	8211086.33	0.0145	0.0086
Mercury	17769-03-24 21:21 G	8211137.23	8211137.39	8211137.55	0.0145	0.0018
Mercury	17769-06-21 03:07 G	8211225.47	8211225.63	8211225.79	0.0145	0.0007
Venus	17769-09-16 03:50 G	8211312.59	8211312.66	8211312.75	0.0145	0.0134
Mercury	17769-09-17 08:52 G	8211313.72	8211313.87	8211314.03	0.0145	0.0032
Mercury	17769-12-14 14:38 G	8211401.97	8211402.11	8211402.27	0.0145	0.0058
Mercury	17770-03-12 20:38 G	8211490.23	8211490.36	8211490.50	0.0145	0.0083
Mercury	17770-06-09 02:38 G	8211578.51	8211578.61	8211578.72	0.0145	0.0109
Mercury	17770-09-05 08:24 G	8211666.81	8211666.85	8211666.92	0.0145	0.0135
Mars	17783-12-25 23:02 G	8216526.16	8216526.46	8216526.76	0.0140	0.0061
Mars	17785-11-30 02:38 G	8217231.38	8217231.61	8217231.88	0.0139	0.0090
Moon	17798-03-23 18:43 G	8221728.23	8221728.28	8221728.37	0.0135	0.0129
Earth	17798-03-23 19:55 G	8221728.33	8221728.33	8221728.36	0.0135	0.0134 *
Earth	17799-03-28 06:43 G	8222097.59	8222097.78	8222097.99	0.0134	0.0084
Moon	17799-03-28 07:40 G	8222097.63	8222097.82	8222098.04	0.0134	0.0087 *
Moon	17800-04-01 15:21 G	8222466.90	8222467.14	8222467.39	0.0134	0.0034
Earth	17800-04-01 17:02 G	8222466.97	8222467.21	8222467.46	0.0134	0.0033 *
Earth	17801-04-06 02:52 G	8222836.37	8222836.62	8222836.88	0.0134	0.0018
Moon	17801-04-06 04:19 G	8222836.42	8222836.68	8222836.94	0.0134	0.0020 *
Moon	17802-04-10 10:33 G	8223205.73	8223205.94	8223206.17	0.0134	0.0062

Earth	17802-04-10 12:14 G	8223205.81	8223206.01	8223206.25	0.0134	0.0068 *
Earth	17803-04-14 21:36 G	8223575.29	8223575.40	8223575.53	0.0134	0.0117
Moon	17803-04-14 23:31 G	8223575.40	8223575.48	8223575.59	0.0134	0.0124 *
Venus	17808-02-19 02:24 G	8225346.56	8225346.60	8225346.67	0.0133	0.0128
Venus	17808-10-02 07:40 G	8225572.68	8225572.82	8225572.99	0.0133	0.0091
Venus	17809-05-16 13:12 G	8225798.86	8225799.05	8225799.25	0.0133	0.0054
Venus	17809-12-28 18:28 G	8226025.06	8226025.27	8226025.49	0.0133	0.0016
Mercury	17810-04-28 19:55 G	8226146.29	8226146.33	8226146.39	0.0133	0.0127
Mercury	17810-07-26 00:28 G	8226234.43	8226234.52	8226234.61	0.0133	0.0107
Venus	17810-08-11 23:45 G	8226251.28	8226251.49	8226251.71	0.0133	0.0022
Mercury	17810-10-22 04:48 G	8226322.59	8226322.70	8226322.82	0.0133	0.0088
Mercury	17811-01-18 09:07 G	8226410.75	8226410.88	8226411.02	0.0133	0.0070
Venus	17811-03-26 05:02 G	8226477.53	8226477.71	8226477.92	0.0133	0.0060
Mercury	17811-04-16 13:26 G	8226498.92	8226499.06	8226499.20	0.0133	0.0051
Mercury	17811-07-13 17:45 G	8226587.09	8226587.24	8226587.39	0.0133	0.0032
Mercury	17811-10-09 22:04 G	8226675.27	8226675.42	8226675.57	0.0133	0.0014
Venus	17811-11-07 10:33 G	8226703.80	8226703.94	8226704.10	0.0133	0.0096
Mercury	17812-01-06 02:09 G	8226763.44	8226763.59	8226763.74	0.0133	0.0005
Mercury	17812-04-03 06:14 G	8226851.62	8226851.76	8226851.92	0.0133	0.0023
Mercury	17812-06-30 10:19 G	8226939.79	8226939.93	8226940.08	0.0133	0.0042
Mercury	17812-09-26 14:24 G	8227027.97	8227028.10	8227028.24	0.0133	0.0060
Mercury	17812-12-23 18:43 G	8227116.16	8227116.28	8227116.40	0.0133	0.0077
Mercury	17813-03-21 22:48 G	8227204.35	8227204.45	8227204.55	0.0134	0.0095
Mercury	17813-06-18 02:38 G	8227292.54	8227292.61	8227292.70	0.0134	0.0113
Mercury	17813-09-14 06:43 G	8227380.75	8227380.78	8227380.81	0.0134	0.0130
Mars	17828-02-05 20:09 G	8232638.09	8232638.34	8232638.61	0.0138	0.0054
Mars	17830-01-06 03:07 G	8233338.40	8233338.63	8233338.89	0.0139	0.0072
Earth	17841-09-24 01:26 G	8237617.50	8237617.56	8237617.64	0.0144	0.0138
Earth	17842-09-28 23:02 G	8237987.25	8237987.46	8237987.68	0.0144	0.0077
Moon	17842-09-29 01:40 G	8237987.35	8237987.57	8237987.80	0.0144	0.0070 *

Moon	17843-10-03 18:14 G	8238357.02	8238357.26	8238357.51	0.0144	0.0018
Earth	17843-10-03 21:07 G	8238357.13	8238357.38	8238357.63	0.0144	0.0015 *
Earth	17844-10-07 18:57 G	8238727.07	8238727.29	8238727.54	0.0144	0.0048
Moon	17844-10-07 22:33 G	8238727.21	8238727.44	8238727.69	0.0144	0.0046 *
Moon	17845-10-12 14:24 G	8239096.96	8239097.10	8239097.26	0.0145	0.0114
Earth	17845-10-12 17:31 G	8239097.08	8239097.23	8239097.41	0.0145	0.0110 *
Venus	17850-04-10 20:38 G	8240738.26	8240738.36	8240738.45	0.0145	0.0130
Venus	17850-11-23 08:38 G	8240964.68	8240964.86	8240965.04	0.0145	0.0082
Venus	17851-07-07 20:38 G	8241191.16	8241191.36	8241191.58	0.0145	0.0034
Mercury	17852-01-30 00:14 G	8241397.46	8241397.51	8241397.57	0.0145	0.0134
Venus	17852-02-19 09:07 G	8241417.66	8241417.88	8241418.10	0.0145	0.0015
Mercury	17852-04-27 05:45 G	8241485.64	8241485.74	8241485.85	0.0145	0.0110
Mercury	17852-07-24 11:16 G	8241573.85	8241573.97	8241574.10	0.0145	0.0086
Venus	17852-10-02 21:21 G	8241644.19	8241644.39	8241644.59	0.0145	0.0063
Mercury	17852-10-20 17:02 G	8241662.07	8241662.21	8241662.36	0.0145	0.0062
Mercury	17853-01-16 22:48 G	8241750.29	8241750.45	8241750.60	0.0145	0.0037
Mercury	17853-04-15 04:33 G	8241838.53	8241838.69	8241838.85	0.0145	0.0013
Venus	17853-05-17 09:21 G	8241870.76	8241870.89	8241871.03	0.0145	0.0111
Mercury	17853-07-12 10:19 G	8241926.77	8241926.93	8241927.09	0.0145	0.0013
Mercury	17853-10-08 16:04 G	8242015.01	8242015.17	8242015.33	0.0145	0.0038
Mercury	17854-01-04 21:50 G	8242103.27	8242103.41	8242103.56	0.0145	0.0063
Mercury	17854-04-03 03:36 G	8242191.53	8242191.65	8242191.79	0.0145	0.0089
Mercury	17854-06-30 09:50 G	8242279.81	8242279.91	8242280.01	0.0145	0.0114
Mercury	17854-09-26 15:36 G	8242368.12	8242368.15	8242368.20	0.0145	0.0140
Mars	17868-08-21 19:40 G	8247445.99	8247446.32	8247446.65	0.0140	0.0001
Earth	17882-03-25 05:02 G	8252409.67	8252409.71	8252409.76	0.0135	0.0132
Earth	17883-03-29 15:21 G	8252778.95	8252779.14	8252779.36	0.0134	0.0082
Moon	17883-03-29 16:04 G	8252778.97	8252779.17	8252779.40	0.0134	0.0078 *
Moon	17884-04-02 01:26 G	8253148.32	8253148.56	8253148.80	0.0134	0.0032
Earth	17884-04-02 01:40 G	8253148.33	8253148.57	8253148.83	0.0134	0.0031 *

Earth	17885-04-06 11:31 G	8253517.73	8253517.98	8253518.24	0.0134	0.0020
Moon	17885-04-06 12:43 G	8253517.77	8253518.03	8253518.30	0.0134	0.0017 *
Moon	17886-04-10 20:09 G	8253887.14	8253887.34	8253887.55	0.0134	0.0075
Earth	17886-04-10 21:07 G	8253887.16	8253887.38	8253887.60	0.0134	0.0070 *
Earth	17887-04-15 06:00 G	8254256.65	8254256.75	8254256.87	0.0134	0.0120
Moon	17887-04-15 07:12 G	8254256.68	8254256.80	8254256.96	0.0134	0.0114 *
Venus	17892-06-01 16:48 G	8256131.08	8256131.20	8256131.33	0.0133	0.0108
Venus	17893-01-13 22:04 G	8256357.25	8256357.42	8256357.62	0.0133	0.0071
Venus	17893-08-28 03:36 G	8256583.44	8256583.65	8256583.87	0.0133	0.0034
Venus	17894-04-11 09:07 G	8256809.66	8256809.88	8256810.10	0.0133	0.0004
Mercury	17894-05-19 02:52 G	8256847.57	8256847.62	8256847.68	0.0133	0.0123
Mercury	17894-08-15 07:12 G	8256935.71	8256935.80	8256935.90	0.0133	0.0104
Mercury	17894-11-11 11:45 G	8257023.87	8257023.99	8257024.11	0.0133	0.0085
Venus	17894-11-23 14:24 G	8257035.90	8257036.10	8257036.31	0.0133	0.0041
Mercury	17895-02-07 15:50 G	8257112.04	8257112.16	8257112.30	0.0133	0.0066
Mercury	17895-05-06 20:09 G	8257200.20	8257200.34	8257200.49	0.0133	0.0048
Venus	17895-07-07 19:55 G	8257262.15	8257262.33	8257262.50	0.0133	0.0079
Mercury	17895-08-03 00:43 G	8257288.38	8257288.53	8257288.68	0.0133	0.0029
Mercury	17895-10-30 04:48 G	8257376.55	8257376.70	8257376.85	0.0133	0.0010
Mercury	17896-01-26 09:07 G	8257464.73	8257464.88	8257465.03	0.0133	0.0009
Venus	17896-02-19 00:57 G	8257488.45	8257488.54	8257488.66	0.0133	0.0117
Mercury	17896-04-23 13:12 G	8257552.90	8257553.05	8257553.20	0.0133	0.0027
Mercury	17896-07-20 17:16 G	8257641.08	8257641.22	8257641.37	0.0133	0.0045
Mercury	17896-10-16 21:21 G	8257729.26	8257729.39	8257729.53	0.0134	0.0063
Mercury	17897-01-13 01:26 G	8257817.45	8257817.56	8257817.68	0.0134	0.0081
Mercury	17897-04-11 05:31 G	8257905.63	8257905.73	8257905.83	0.0134	0.0098
Mercury	17897-07-08 09:36 G	8257993.83	8257993.90	8257993.97	0.0134	0.0116
Mercury	17897-10-04 13:40 G	8258082.07	8258082.07	8258082.07	0.0134	0.0134
Mars	17910-11-01 04:19 G	8262856.58	8262856.68	8262856.81	0.0138	0.0126
Mars	17912-10-01 04:48 G	8263556.41	8263556.70	8263556.98	0.0138	0.0004

Mars	17914-09-01 16:04 G	8264257.05	8264257.17	8264257.30	0.0139	0.0125
Moon	17925-09-25 09:21 G	8268298.80	8268298.89	8268299.02	0.0144	0.0129
Earth	17925-09-25 10:48 G	8268298.89	8268298.95	8268299.05	0.0144	0.0136 *
Earth	17926-09-30 08:38 G	8268668.64	8268668.86	8268669.07	0.0144	0.0074
Moon	17926-09-30 10:48 G	8268668.73	8268668.95	8268669.16	0.0144	0.0080 *
Moon	17927-10-05 03:50 G	8269038.42	8269038.66	8269038.91	0.0144	0.0009
Earth	17927-10-05 06:28 G	8269038.52	8269038.77	8269039.03	0.0144	0.0013 *
Earth	17928-10-09 04:33 G	8269408.46	8269408.69	8269408.94	0.0144	0.0050
Moon	17928-10-09 07:26 G	8269408.57	8269408.81	8269409.06	0.0144	0.0050 *
Moon	17929-10-13 23:31 G	8269778.33	8269778.48	8269778.66	0.0145	0.0108
Earth	17929-10-14 02:52 G	8269778.48	8269778.62	8269778.79	0.0145	0.0113 *
Venus	17934-07-24 14:24 G	8271522.95	8271523.10	8271523.25	0.0145	0.0104
Venus	17935-03-08 02:38 G	8271749.41	8271749.61	8271749.81	0.0145	0.0056
Venus	17935-10-20 14:52 G	8271975.90	8271976.12	8271976.34	0.0145	0.0008
Mercury	17936-02-20 07:26 G	8272098.74	8272098.81	8272098.89	0.0145	0.0128
Mercury	17936-05-18 12:57 G	8272186.94	8272187.04	8272187.15	0.0145	0.0104
Venus	17936-06-03 02:52 G	8272202.42	8272202.62	8272202.84	0.0145	0.0041
Mercury	17936-08-14 18:28 G	8272275.14	8272275.27	8272275.41	0.0145	0.0080
Mercury	17936-11-11 00:14 G	8272363.36	8272363.51	8272363.66	0.0145	0.0056
Venus	17937-01-15 14:52 G	8272428.96	8272429.12	8272429.31	0.0145	0.0089
Mercury	17937-02-07 05:45 G	8272451.59	8272451.74	8272451.90	0.0145	0.0032
Mercury	17937-05-06 11:31 G	8272539.82	8272539.98	8272540.15	0.0145	0.0008
Mercury	17937-08-02 17:16 G	8272628.07	8272628.22	8272628.39	0.0145	0.0019
Venus	17937-08-30 03:07 G	8272655.58	8272655.63	8272655.72	0.0145	0.0137
Mercury	17937-10-29 23:02 G	8272716.31	8272716.46	8272716.62	0.0145	0.0044
Mercury	17938-01-26 05:02 G	8272804.57	8272804.71	8272804.86	0.0145	0.0069
Mercury	17938-04-24 10:48 G	8272892.84	8272892.95	8272893.08	0.0145	0.0095
Mercury	17938-07-21 16:48 G	8272981.12	8272981.20	8272981.30	0.0145	0.0120
Mars	17951-05-14 05:16 G	8277660.48	8277660.72	8277660.98	0.0140	0.0093
Mars	17953-04-18 15:36 G	8278365.87	8278366.15	8278366.46	0.0139	0.0062

Moon	17966-03-26 13:55 G	8283091.00	8283091.08	8283091.18	0.0135	0.0124
Earth	17966-03-26 13:12 G	8283091.01	8283091.05	8283091.13	0.0135	0.0131 *
Moon	17967-03-30 23:16 G	8283460.28	8283460.47	8283460.69	0.0134	0.0084
Earth	17967-03-31 00:00 G	8283460.30	8283460.50	8283460.72	0.0134	0.0079 *
Moon	17968-04-03 09:50 G	8283829.67	8283829.91	8283830.16	0.0134	0.0027
Earth	17968-04-03 10:04 G	8283829.67	8283829.92	8283830.17	0.0134	0.0029 *
Moon	17969-04-07 19:40 G	8284199.06	8284199.32	8284199.59	0.0134	0.0023
Earth	17969-04-07 19:55 G	8284199.08	8284199.33	8284199.58	0.0134	0.0022 *
Moon	17970-04-12 04:33 G	8284568.49	8284568.69	8284568.91	0.0134	0.0069
Earth	17970-04-12 05:02 G	8284568.51	8284568.71	8284568.94	0.0134	0.0073 *
Earth	17971-04-16 13:40 G	8284938.00	8284938.07	8284938.20	0.0134	0.0123
Moon	17971-04-16 14:24 G	8284938.05	8284938.10	8284938.19	0.0134	0.0129 *
Venus	17976-02-01 01:26 G	8286689.51	8286689.56	8286689.65	0.0133	0.0126
Venus	17976-09-14 06:57 G	8286915.64	8286915.79	8286915.96	0.0133	0.0088
Venus	17977-04-28 12:14 G	8287141.82	8287142.01	8287142.22	0.0133	0.0051
Venus	17977-12-10 17:45 G	8287368.02	8287368.24	8287368.46	0.0133	0.0014
Mercury	17978-06-09 09:36 G	8287548.84	8287548.90	8287548.97	0.0133	0.0119
Venus	17978-07-24 23:02 G	8287594.25	8287594.46	8287594.68	0.0133	0.0024
Mercury	17978-09-05 13:55 G	8287636.99	8287637.08	8287637.19	0.0133	0.0100
Mercury	17978-12-02 18:14 G	8287725.15	8287725.26	8287725.39	0.0133	0.0082
Mercury	17979-02-28 22:48 G	8287813.31	8287813.45	8287813.58	0.0133	0.0063
Venus	17979-03-08 04:19 G	8287820.50	8287820.68	8287820.89	0.0133	0.0062
Mercury	17979-05-28 02:52 G	8287901.48	8287901.62	8287901.77	0.0133	0.0044
Mercury	17979-08-24 07:12 G	8287989.66	8287989.80	8287989.96	0.0133	0.0026
Venus	17979-10-20 09:36 G	8288046.77	8288046.90	8288047.06	0.0133	0.0099
Mercury	17979-11-20 11:31 G	8288077.83	8288077.98	8288078.13	0.0133	0.0007
Mercury	17980-02-16 15:50 G	8288166.00	8288166.16	8288166.31	0.0133	0.0012
Mercury	17980-05-14 19:55 G	8288254.18	8288254.33	8288254.48	0.0133	0.0030
Mercury	17980-08-11 00:00 G	8288342.36	8288342.50	8288342.64	0.0133	0.0048
Mercury	17980-11-07 04:04 G	8288430.54	8288430.67	8288430.80	0.0134	0.0066

Mercury	17981-02-03 08:09 G	8288518.73	8288518.84	8288518.96	0.0134	0.0084
Mercury	17981-05-02 12:00 G	8288606.92	8288607.00	8288607.11	0.0134	0.0102
Mercury	17981-07-29 16:19 G	8288695.12	8288695.18	8288695.25	0.0134	0.0119
Mars	17995-06-26 09:50 G	8293774.70	8293774.91	8293775.17	0.0138	0.0078
Mars	17997-05-26 13:40 G	8294474.82	8294475.07	8294475.36	0.0139	0.0048

19TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 19th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	18009-09-25 18:43 G		8298980.25	8298980.28	8298980.34	0.0144	0.0141	
Earth	18009-09-25 19:40 G		8298980.25	8298980.32	8298980.43	0.0144	0.0134	*
Earth	18010-09-30 17:31 G		8299350.02	8299350.23	8299350.45	0.0144	0.0072	
Moon	18010-09-30 18:43 G		8299350.06	8299350.28	8299350.53	0.0144	0.0065	*
Moon	18011-10-05 13:55 G		8299719.83	8299720.08	8299720.32	0.0144	0.0014	
Earth	18011-10-05 15:36 G		8299719.90	8299720.15	8299720.40	0.0144	0.0010	*
Earth	18012-10-09 13:40 G		8300089.84	8300090.07	8300090.31	0.0144	0.0053	
Moon	18012-10-09 16:19 G		8300089.95	8300090.18	8300090.43	0.0144	0.0053	*
Moon	18013-10-14 09:36 G		8300459.78	8300459.90	8300460.06	0.0145	0.0119	
Earth	18013-10-14 12:00 G		8300459.87	8300460.00	8300460.17	0.0145	0.0116	*
Venus	18018-03-23 20:24 G		8302081.24	8302081.35	8302081.45	0.0145	0.0126	
Venus	18018-11-05 08:24 G		8302307.67	8302307.85	8302308.04	0.0145	0.0078	
Venus	18019-06-19 20:38 G		8302534.15	8302534.36	8302534.57	0.0145	0.0030	
Venus	18020-02-01 08:52 G		8302760.65	8302760.87	8302761.09	0.0145	0.0018	

Mercury	18020-03-11 14:38 G	8302800.03	8302800.11	8302800.20	0.0145	0.0122
Mercury	18020-06-07 19:55 G	8302888.23	8302888.33	8302888.46	0.0145	0.0099
Mercury	18020-09-04 01:55 G	8302976.44	8302976.58	8302976.71	0.0145	0.0074
Venus	18020-09-14 21:07 G	8302987.19	8302987.38	8302987.58	0.0145	0.0066
Mercury	18020-12-01 07:26 G	8303064.66	8303064.81	8303064.96	0.0145	0.0050
Mercury	18021-02-27 12:57 G	8303152.89	8303153.04	8303153.20	0.0145	0.0026
Venus	18021-04-29 09:21 G	8303213.76	8303213.89	8303214.02	0.0145	0.0114
Mercury	18021-05-26 18:43 G	8303241.12	8303241.28	8303241.45	0.0145	0.0004
Mercury	18021-08-23 00:28 G	8303329.37	8303329.52	8303329.68	0.0145	0.0025
Mercury	18021-11-19 06:14 G	8303417.62	8303417.76	8303417.92	0.0145	0.0050
Mercury	18022-02-15 12:14 G	8303505.87	8303506.01	8303506.15	0.0145	0.0075
Mercury	18022-05-14 18:14 G	8303594.14	8303594.26	8303594.38	0.0145	0.0100
Mercury	18022-08-11 00:00 G	8303682.43	8303682.50	8303682.59	0.0145	0.0126
Mars	18036-01-08 04:48 G	8308580.38	8308580.70	8308581.03	0.0140	0.0030
Mars	18037-12-13 09:36 G	8309285.77	8309285.90	8309286.08	0.0139	0.0124
Earth	18050-03-26 22:04 G	8313772.37	8313772.42	8313772.52	0.0135	0.0129
Moon	18051-03-31 07:55 G	8314141.62	8314141.83	8314142.07	0.0134	0.0072
Earth	18051-03-31 08:52 G	8314141.67	8314141.87	8314142.08	0.0134	0.0077 *
Earth	18052-04-03 18:57 G	8314511.04	8314511.29	8314511.54	0.0134	0.0026
Moon	18052-04-03 20:09 G	8314511.09	8314511.34	8314511.58	0.0134	0.0030 *
Moon	18053-04-08 04:19 G	8314880.42	8314880.68	8314880.95	0.0134	0.0023
Earth	18053-04-08 04:33 G	8314880.44	8314880.69	8314880.95	0.0134	0.0025 *
Earth	18054-04-12 13:40 G	8315249.87	8315250.07	8315250.30	0.0134	0.0075
Moon	18054-04-12 14:09 G	8315249.90	8315250.09	8315250.30	0.0134	0.0079 *
Moon	18055-04-16 22:48 G	8315619.33	8315619.45	8315619.57	0.0134	0.0119
Earth	18055-04-16 22:33 G	8315619.37	8315619.44	8315619.55	0.0134	0.0125 *
Venus	18060-05-14 16:04 G	8317474.05	8317474.17	8317474.32	0.0133	0.0105
Venus	18060-12-26 21:21 G	8317700.22	8317700.39	8317700.59	0.0133	0.0068
Venus	18061-08-10 03:07 G	8317926.42	8317926.63	8317926.84	0.0133	0.0031
Venus	18062-03-24 08:24 G	8318152.64	8318152.85	8318153.07	0.0133	0.0008

Mercury	18062-06-29 16:19 G	8318250.11	8318250.18	8318250.27	0.0133	0.0115
Mercury	18062-09-25 20:52 G	8318338.27	8318338.37	8318338.48	0.0133	0.0096
Venus	18062-11-05 13:40 G	8318378.87	8318379.07	8318379.28	0.0133	0.0044
Mercury	18062-12-23 01:12 G	8318426.43	8318426.55	8318426.68	0.0133	0.0077
Mercury	18063-03-21 05:31 G	8318514.60	8318514.73	8318514.87	0.0133	0.0059
Mercury	18063-06-17 09:50 G	8318602.77	8318602.91	8318603.06	0.0133	0.0040
Venus	18063-06-19 18:57 G	8318605.13	8318605.29	8318605.47	0.0133	0.0081
Mercury	18063-09-13 14:09 G	8318690.94	8318691.09	8318691.24	0.0133	0.0021
Mercury	18063-12-10 18:28 G	8318779.12	8318779.27	8318779.42	0.0133	0.0003
Venus	18064-02-01 00:14 G	8318831.42	8318831.51	8318831.62	0.0133	0.0119
Mercury	18064-03-07 22:33 G	8318867.29	8318867.44	8318867.59	0.0133	0.0016
Mercury	18064-06-04 02:52 G	8318955.47	8318955.62	8318955.76	0.0133	0.0034
Mercury	18064-08-31 06:57 G	8319043.65	8319043.79	8319043.93	0.0133	0.0052
Mercury	18064-11-27 11:02 G	8319131.83	8319131.96	8319132.09	0.0134	0.0070
Mercury	18065-02-23 14:52 G	8319220.02	8319220.12	8319220.24	0.0134	0.0088
Mercury	18065-05-22 18:57 G	8319308.21	8319308.29	8319308.39	0.0134	0.0105
Mercury	18065-08-18 23:02 G	8319396.41	8319396.46	8319396.52	0.0134	0.0123
Mars	18080-02-18 17:02 G	8324692.93	8324693.21	8324693.49	0.0138	0.0028
Mars	18082-01-18 23:16 G	8325393.29	8325393.47	8325393.69	0.0139	0.0099
Moon	18093-09-26 03:50 G	8329661.56	8329661.66	8329661.79	0.0144	0.0126
Earth	18093-09-26 03:36 G	8329661.58	8329661.65	8329661.77	0.0144	0.0133 *
Earth	18094-10-01 01:26 G	8330031.35	8330031.56	8330031.79	0.0144	0.0071
Moon	18094-10-01 02:09 G	8330031.38	8330031.59	8330031.82	0.0144	0.0077 *
Moon	18095-10-05 22:19 G	8330401.19	8330401.43	8330401.68	0.0144	0.0003
Earth	18095-10-05 23:45 G	8330401.24	8330401.49	8330401.74	0.0144	0.0008 *
Earth	18096-10-09 21:50 G	8330771.19	8330771.41	8330771.65	0.0144	0.0055
Moon	18096-10-09 23:31 G	8330771.25	8330771.48	8330771.73	0.0144	0.0053 *
Moon	18097-10-14 18:00 G	8331141.11	8331141.25	8331141.41	0.0145	0.0114
Earth	18097-10-14 20:24 G	8331141.22	8331141.35	8331141.51	0.0145	0.0118 *
Venus	18102-07-06 13:26 G	8332865.92	8332866.06	8332866.23	0.0145	0.0101

Venus	18103-02-18 01:40 G	8333092.38	8333092.57	8333092.78	0.0145	0.0053
Venus	18103-10-02 14:09 G	8333318.88	8333319.09	8333319.31	0.0145	0.0005
Mercury	18104-01-04 16:04 G	8333413.15	8333413.17	8333413.21	0.0145	0.0141
Mercury	18104-04-01 21:36 G	8333501.32	8333501.40	8333501.50	0.0145	0.0117
Venus	18104-05-16 02:24 G	8333545.40	8333545.60	8333545.81	0.0145	0.0044
Mercury	18104-06-29 03:07 G	8333589.52	8333589.63	8333589.76	0.0145	0.0093
Mercury	18104-09-25 08:52 G	8333677.73	8333677.87	8333678.01	0.0145	0.0069
Mercury	18104-12-22 14:24 G	8333765.95	8333766.10	8333766.25	0.0145	0.0045
Venus	18104-12-28 14:24 G	8333771.94	8333772.10	8333772.28	0.0145	0.0092
Mercury	18105-03-20 20:09 G	8333854.18	8333854.34	8333854.50	0.0145	0.0020
Mercury	18105-06-17 01:55 G	8333942.42	8333942.58	8333942.74	0.0145	0.0006
Venus	18105-08-12 02:24 G	8333998.56	8333998.60	8333998.67	0.0145	0.0140
Mercury	18105-09-13 07:26 G	8334030.66	8334030.81	8334030.97	0.0145	0.0030
Mercury	18105-12-10 13:26 G	8334118.91	8334119.06	8334119.21	0.0145	0.0055
Mercury	18106-03-08 19:12 G	8334207.17	8334207.30	8334207.44	0.0145	0.0080
Mercury	18106-06-05 00:57 G	8334295.44	8334295.54	8334295.66	0.0145	0.0106
Mercury	18106-09-01 07:12 G	8334383.73	8334383.80	8334383.87	0.0145	0.0131
Mars	18118-09-29 10:19 G	8338794.81	8338794.93	8338795.11	0.0141	0.0126
Mars	18120-09-04 02:52 G	8339500.32	8339500.62	8339500.96	0.0140	0.0034
Earth	18134-03-28 06:57 G	8344453.73	8344453.79	8344453.90	0.0135	0.0127
Moon	18134-03-28 08:38 G	8344453.77	8344453.86	8344454.00	0.0135	0.0120 *
Moon	18135-04-01 15:21 G	8344822.95	8344823.14	8344823.37	0.0134	0.0081
Earth	18135-04-01 17:16 G	8344823.03	8344823.22	8344823.45	0.0134	0.0076 *
Earth	18136-04-05 03:21 G	8345192.40	8345192.64	8345192.90	0.0134	0.0024
Moon	18136-04-05 04:33 G	8345192.45	8345192.69	8345192.94	0.0134	0.0022 *
Moon	18137-04-09 11:31 G	8345561.72	8345561.98	8345562.24	0.0134	0.0026
Earth	18137-04-09 13:12 G	8345561.80	8345562.05	8345562.30	0.0134	0.0027 *
Earth	18138-04-13 22:04 G	8345931.23	8345931.42	8345931.64	0.0134	0.0078
Moon	18138-04-13 23:02 G	8345931.27	8345931.46	8345931.68	0.0134	0.0075 *
Earth	18139-04-18 07:12 G	8346300.73	8346300.80	8346300.89	0.0134	0.0127

Moon	18139-04-18 06:00 G	8346300.74	8346300.75	8346300.80	0.0134	0.0133 *
Venus	18144-01-14 01:12 G	8348032.47	8348032.55	8348032.65	0.0133	0.0122
Venus	18144-08-27 06:43 G	8348258.61	8348258.78	8348258.95	0.0133	0.0085
Venus	18145-04-10 12:00 G	8348484.80	8348485.00	8348485.21	0.0133	0.0048
Venus	18145-11-22 17:16 G	8348711.01	8348711.22	8348711.44	0.0133	0.0011
Mercury	18146-04-23 18:43 G	8348863.26	8348863.28	8348863.31	0.0133	0.0131
Venus	18146-07-06 22:33 G	8348937.23	8348937.44	8348937.66	0.0133	0.0027
Mercury	18146-07-20 23:16 G	8348951.39	8348951.47	8348951.55	0.0133	0.0111
Mercury	18146-10-17 03:36 G	8349039.54	8349039.65	8349039.76	0.0133	0.0093
Mercury	18147-01-13 07:55 G	8349127.71	8349127.83	8349127.97	0.0133	0.0074
Venus	18147-02-18 03:50 G	8349163.48	8349163.66	8349163.86	0.0133	0.0064
Mercury	18147-04-11 12:14 G	8349215.88	8349216.01	8349216.16	0.0133	0.0055
Mercury	18147-07-08 16:33 G	8349304.05	8349304.19	8349304.34	0.0133	0.0037
Venus	18147-10-02 08:52 G	8349389.75	8349389.87	8349390.03	0.0133	0.0102
Mercury	18147-10-04 20:52 G	8349392.22	8349392.37	8349392.52	0.0133	0.0018
Mercury	18148-01-01 01:12 G	8349480.40	8349480.55	8349480.70	0.0133	0.0001
Mercury	18148-03-29 05:16 G	8349568.57	8349568.72	8349568.87	0.0133	0.0019
Mercury	18148-06-25 09:21 G	8349656.75	8349656.89	8349657.04	0.0133	0.0037
Mercury	18148-09-21 13:26 G	8349744.93	8349745.06	8349745.21	0.0133	0.0055
Mercury	18148-12-18 17:45 G	8349833.11	8349833.24	8349833.36	0.0134	0.0073
Mercury	18149-03-16 21:50 G	8349921.30	8349921.41	8349921.52	0.0134	0.0091
Mercury	18149-06-13 01:40 G	8350009.49	8350009.57	8350009.66	0.0134	0.0109
Mercury	18149-09-09 05:45 G	8350097.70	8350097.74	8350097.79	0.0134	0.0126
Mars	18162-11-14 00:00 G	8354911.32	8354911.50	8354911.69	0.0138	0.0103
Mars	18164-10-13 23:45 G	8355611.21	8355611.49	8355611.78	0.0138	0.0021
Earth	18177-09-27 11:31 G	8360342.90	8360342.98	8360343.11	0.0144	0.0131
Moon	18177-09-27 12:14 G	8360342.95	8360343.01	8360343.10	0.0144	0.0137 *
Moon	18178-10-02 09:36 G	8360712.67	8360712.90	8360713.15	0.0144	0.0061
Earth	18178-10-02 09:36 G	8360712.69	8360712.90	8360713.13	0.0144	0.0069 *
Moon	18179-10-07 07:26 G	8361082.57	8361082.81	8361083.06	0.0144	0.0012

Earth	18179-10-07 07:55 G	8361082.58	8361082.83	8361083.08	0.0144	0.0006 *
Earth	18180-10-11 06:14 G	8361452.53	8361452.76	8361452.99	0.0144	0.0057
Moon	18180-10-11 07:26 G	8361452.59	8361452.81	8361453.06	0.0144	0.0059 *
Moon	18181-10-16 03:36 G	8361822.53	8361822.65	8361822.79	0.0145	0.0122
Earth	18181-10-16 05:02 G	8361822.58	8361822.71	8361822.86	0.0145	0.0120 *
Venus	18186-03-05 18:28 G	8363424.17	8363424.27	8363424.40	0.0145	0.0124
Venus	18186-10-18 06:43 G	8363650.61	8363650.78	8363650.98	0.0145	0.0076
Venus	18187-06-01 19:12 G	8363877.09	8363877.30	8363877.52	0.0145	0.0027
Venus	18188-01-14 07:26 G	8364103.60	8364103.81	8364104.03	0.0145	0.0021
Mercury	18188-01-24 23:02 G	8364114.42	8364114.46	8364114.52	0.0145	0.0136
Mercury	18188-04-22 04:48 G	8364202.60	8364202.70	8364202.79	0.0145	0.0112
Mercury	18188-07-19 10:19 G	8364290.80	8364290.93	8364291.05	0.0145	0.0088
Venus	18188-08-27 19:40 G	8364330.14	8364330.32	8364330.52	0.0145	0.0069
Mercury	18188-10-15 15:50 G	8364379.02	8364379.16	8364379.30	0.0145	0.0064
Mercury	18189-01-11 21:21 G	8364467.24	8364467.39	8364467.55	0.0145	0.0040
Mercury	18189-04-10 03:07 G	8364555.47	8364555.63	8364555.79	0.0145	0.0015
Venus	18189-04-11 07:40 G	8364556.71	8364556.82	8364556.96	0.0145	0.0117
Mercury	18189-07-07 08:52 G	8364643.70	8364643.87	8364644.03	0.0145	0.0010
Mercury	18189-10-03 14:24 G	8364731.95	8364732.10	8364732.26	0.0145	0.0035
Mercury	18189-12-30 20:09 G	8364820.20	8364820.34	8364820.49	0.0145	0.0060
Mercury	18190-03-29 02:09 G	8364908.46	8364908.59	8364908.72	0.0145	0.0085
Mercury	18190-06-25 07:55 G	8364996.73	8364996.83	8364996.94	0.0145	0.0111
Mercury	18190-09-21 13:55 G	8365085.03	8365085.08	8365085.14	0.0145	0.0136
Mars	18203-05-27 11:31 G	8369714.70	8369714.98	8369715.30	0.0140	0.0062
Mars	18205-05-01 22:04 G	8370420.21	8370420.42	8370420.69	0.0140	0.0096
Earth	18218-03-29 16:19 G	8375135.10	8375135.18	8375135.29	0.0135	0.0124
Moon	18218-03-29 18:43 G	8375135.24	8375135.28	8375135.36	0.0135	0.0131 *
Moon	18219-04-03 00:28 G	8375504.30	8375504.52	8375504.76	0.0134	0.0066
Earth	18219-04-03 02:38 G	8375504.40	8375504.61	8375504.83	0.0134	0.0073 *
Earth	18220-04-06 12:43 G	8375873.78	8375874.03	8375874.28	0.0134	0.0021

Moon	18220-04-06 14:52 G	8375873.88	8375874.12	8375874.37	0.0134	0.0026 *
Moon	18221-04-10 20:38 G	8376243.10	8376243.36	8376243.62	0.0134	0.0030
Earth	18221-04-10 22:19 G	8376243.18	8376243.43	8376243.68	0.0134	0.0030 *
Earth	18222-04-15 07:26 G	8376612.61	8376612.81	8376613.02	0.0134	0.0080
Moon	18222-04-15 09:07 G	8376612.70	8376612.88	8376613.09	0.0134	0.0083 *
Moon	18223-04-19 14:24 G	8376982.04	8376982.10	8376982.21	0.0133	0.0126
Earth	18223-04-19 16:33 G	8376982.14	8376982.19	8376982.25	0.0133	0.0130 *
Venus	18228-04-27 15:50 G	8378817.04	8378817.16	8378817.32	0.0133	0.0101
Venus	18228-12-09 21:21 G	8379043.21	8379043.39	8379043.59	0.0133	0.0064
Venus	18229-07-24 02:38 G	8379269.40	8379269.61	8379269.83	0.0133	0.0027
Venus	18230-03-07 08:09 G	8379495.63	8379495.84	8379496.06	0.0133	0.0010
Mercury	18230-05-15 01:40 G	8379564.53	8379564.57	8379564.62	0.0133	0.0126
Mercury	18230-08-11 06:00 G	8379652.67	8379652.75	8379652.85	0.0133	0.0108
Venus	18230-10-19 13:12 G	8379721.86	8379722.05	8379722.27	0.0133	0.0048
Mercury	18230-11-07 10:33 G	8379740.83	8379740.94	8379741.06	0.0133	0.0088
Mercury	18231-02-03 14:52 G	8379828.99	8379829.12	8379829.26	0.0133	0.0070
Mercury	18231-05-02 19:12 G	8379917.16	8379917.30	8379917.45	0.0133	0.0051
Venus	18231-06-02 18:14 G	8379948.11	8379948.26	8379948.45	0.0133	0.0085
Mercury	18231-07-29 23:31 G	8380005.33	8380005.48	8380005.63	0.0133	0.0032
Mercury	18231-10-26 03:50 G	8380093.51	8380093.66	8380093.81	0.0133	0.0014
Venus	18232-01-14 23:31 G	8380174.41	8380174.48	8380174.58	0.0133	0.0121
Mercury	18232-01-22 08:09 G	8380181.68	8380181.84	8380181.99	0.0133	0.0006
Mercury	18232-04-19 12:14 G	8380269.86	8380270.01	8380270.16	0.0133	0.0023
Mercury	18232-07-16 16:19 G	8380358.04	8380358.18	8380358.33	0.0133	0.0041
Mercury	18232-10-12 20:24 G	8380446.22	8380446.35	8380446.49	0.0133	0.0059
Mercury	18233-01-09 00:28 G	8380534.41	8380534.52	8380534.65	0.0133	0.0077
Mercury	18233-04-07 04:33 G	8380622.59	8380622.69	8380622.80	0.0134	0.0095
Mercury	18233-07-04 08:38 G	8380710.79	8380710.86	8380710.94	0.0134	0.0113
Mercury	18233-09-30 12:43 G	8380799.00	8380799.03	8380799.06	0.0134	0.0130
Mars	18247-07-10 07:55 G	8385829.57	8385829.83	8385830.10	0.0138	0.0054

Mars	18249-06-09 09:36 G	8386529.66	8386529.90	8386530.15	0.0139	0.0072
Earth	18261-09-28 19:55 G	8391024.24	8391024.33	8391024.46	0.0144	0.0129
Moon	18261-09-28 21:36 G	8391024.29	8391024.40	8391024.54	0.0144	0.0123 *
Moon	18262-10-03 17:16 G	8391394.00	8391394.22	8391394.45	0.0144	0.0073
Earth	18262-10-03 17:45 G	8391394.04	8391394.24	8391394.48	0.0144	0.0067 *
Earth	18263-10-08 16:19 G	8391763.92	8391764.18	8391764.43	0.0144	0.0004
Moon	18263-10-08 16:19 G	8391763.93	8391764.18	8391764.42	0.0144	0.0003 *
Moon	18264-10-12 14:52 G	8392133.88	8392134.12	8392134.36	0.0144	0.0056
Earth	18264-10-12 14:38 G	8392133.89	8392134.11	8392134.35	0.0144	0.0059 *
Moon	18265-10-17 12:14 G	8392503.89	8392504.01	8392504.15	0.0145	0.0121
Earth	18265-10-17 13:12 G	8392503.94	8392504.05	8392504.20	0.0145	0.0123 *
Venus	18270-06-18 12:00 G	8394208.84	8394209.00	8394209.16	0.0145	0.0099
Venus	18271-01-31 00:14 G	8394435.31	8394435.51	8394435.72	0.0145	0.0051
Venus	18271-09-14 12:28 G	8394661.81	8394662.02	8394662.24	0.0145	0.0004
Mercury	18272-02-15 06:14 G	8394815.69	8394815.76	8394815.82	0.0145	0.0132
Venus	18272-04-28 00:43 G	8394888.33	8394888.53	8394888.74	0.0145	0.0046
Mercury	18272-05-13 11:31 G	8394903.88	8394903.98	8394904.09	0.0145	0.0108
Mercury	18272-08-09 17:02 G	8394992.09	8394992.21	8394992.34	0.0145	0.0084
Mercury	18272-11-05 22:33 G	8395080.30	8395080.44	8395080.59	0.0145	0.0060
Venus	18272-12-10 12:28 G	8395114.87	8395115.02	8395115.20	0.0145	0.0094
Mercury	18273-02-02 04:19 G	8395168.52	8395168.68	8395168.83	0.0145	0.0035
Mercury	18273-05-01 09:50 G	8395256.75	8395256.91	8395257.07	0.0145	0.0011
Venus	18273-07-25 00:57 G	8395341.50	8395341.54	8395341.59	0.0145	0.0141
Mercury	18273-07-28 15:36 G	8395344.99	8395345.15	8395345.31	0.0145	0.0014
Mercury	18273-10-24 21:21 G	8395433.24	8395433.39	8395433.55	0.0145	0.0039
Mercury	18274-01-21 03:07 G	8395521.49	8395521.63	8395521.78	0.0145	0.0064
Mercury	18274-04-19 08:52 G	8395609.75	8395609.87	8395610.00	0.0145	0.0090
Mercury	18274-07-16 14:52 G	8395698.03	8395698.12	8395698.22	0.0145	0.0115
Mercury	18274-10-12 20:38 G	8395786.34	8395786.36	8395786.41	0.0145	0.0141
Mars	18288-01-21 10:33 G	8400634.61	8400634.94	8400635.27	0.0140	0.0002

Earth	18302-03-31 01:26 G	8405816.46	8405816.56	8405816.68	0.0135	0.0121
Moon	18302-03-31 04:19 G	8405816.56	8405816.68	8405816.82	0.0135	0.0114 *
Moon	18303-04-04 08:24 G	8406185.65	8406185.85	8406186.08	0.0134	0.0077
Earth	18303-04-04 11:45 G	8406185.78	8406185.99	8406186.21	0.0134	0.0070 *
Earth	18304-04-07 21:36 G	8406555.15	8406555.40	8406555.66	0.0134	0.0019
Moon	18304-04-08 00:00 G	8406555.25	8406555.50	8406555.75	0.0134	0.0014 *
Moon	18305-04-12 04:19 G	8406924.43	8406924.68	8406924.94	0.0134	0.0030
Earth	18305-04-12 07:12 G	8406924.56	8406924.80	8406925.05	0.0134	0.0033 *
Earth	18306-04-16 16:04 G	8407293.99	8407294.17	8407294.39	0.0134	0.0084
Moon	18306-04-16 18:43 G	8407294.09	8407294.28	8407294.48	0.0134	0.0082 *
Earth	18307-04-21 01:12 G	8407663.55	8407663.55	8407663.59	0.0133	0.0133
Venus	18311-12-28 00:57 G	8409375.46	8409375.54	8409375.66	0.0133	0.0119
Venus	18312-08-10 06:28 G	8409601.61	8409601.77	8409601.96	0.0133	0.0081
Venus	18313-03-24 12:00 G	8409827.80	8409828.00	8409828.21	0.0133	0.0044
Venus	18313-11-05 17:16 G	8410054.01	8410054.22	8410054.44	0.0133	0.0008
Mercury	18314-06-05 08:24 G	8410265.80	8410265.85	8410265.92	0.0133	0.0123
Venus	18314-06-19 22:19 G	8410280.23	8410280.43	8410280.65	0.0133	0.0031
Mercury	18314-09-01 12:57 G	8410353.95	8410354.04	8410354.14	0.0133	0.0104
Mercury	18314-11-28 17:31 G	8410442.11	8410442.23	8410442.35	0.0133	0.0085
Venus	18315-02-01 03:36 G	8410506.47	8410506.65	8410506.85	0.0133	0.0067
Mercury	18315-02-24 21:36 G	8410530.27	8410530.40	8410530.54	0.0133	0.0066
Mercury	18315-05-24 01:55 G	8410618.44	8410618.58	8410618.73	0.0133	0.0048
Mercury	18315-08-20 06:28 G	8410706.62	8410706.77	8410706.92	0.0133	0.0029
Venus	18315-09-15 08:52 G	8410732.74	8410732.87	8410733.01	0.0133	0.0104
Mercury	18315-11-16 10:33 G	8410794.79	8410794.94	8410795.10	0.0133	0.0011
Mercury	18316-02-12 14:52 G	8410882.97	8410883.12	8410883.27	0.0133	0.0008
Mercury	18316-05-10 18:57 G	8410971.15	8410971.29	8410971.44	0.0133	0.0027
Mercury	18316-08-06 23:16 G	8411059.33	8411059.47	8411059.61	0.0133	0.0045
Mercury	18316-11-03 03:21 G	8411147.51	8411147.64	8411147.77	0.0133	0.0063
Mercury	18317-01-30 07:26 G	8411235.69	8411235.81	8411235.93	0.0133	0.0081

Mercury	18317-04-28 11:16 G	8411323.88	8411323.97	8411324.08	0.0133	0.0099
Mercury	18317-07-25 15:21 G	8411412.08	8411412.14	8411412.22	0.0134	0.0116
Mars	18330-04-04 19:26 G	8416048.21	8416048.31	8416048.42	0.0137	0.0128
Mars	18332-03-04 14:52 G	8416747.84	8416748.12	8416748.41	0.0138	0.0005
Mars	18334-02-02 18:43 G	8417448.18	8417448.28	8417448.43	0.0139	0.0125
Earth	18345-09-30 05:16 G	8421705.61	8421705.72	8421705.85	0.0144	0.0126
Moon	18345-09-30 07:12 G	8421705.71	8421705.80	8421705.91	0.0144	0.0131 *
Moon	18346-10-05 01:40 G	8422075.34	8422075.57	8422075.82	0.0144	0.0056
Earth	18346-10-05 03:07 G	8422075.42	8422075.63	8422075.87	0.0144	0.0064 *
Earth	18347-10-10 01:40 G	8422445.31	8422445.57	8422445.82	0.0144	0.0002
Moon	18347-10-10 02:38 G	8422445.37	8422445.61	8422445.85	0.0144	0.0007 *
Moon	18348-10-14 00:00 G	8422815.28	8422815.50	8422815.74	0.0145	0.0066
Earth	18348-10-14 00:00 G	8422815.28	8422815.50	8422815.73	0.0145	0.0063 *
Moon	18349-10-18 22:48 G	8423185.35	8423185.45	8423185.59	0.0145	0.0127
Earth	18349-10-18 23:02 G	8423185.35	8423185.46	8423185.59	0.0145	0.0126 *
Venus	18354-02-16 17:16 G	8424767.12	8424767.22	8424767.36	0.0145	0.0122
Venus	18354-10-01 05:45 G	8424993.56	8424993.74	8424993.94	0.0145	0.0073
Venus	18355-05-15 18:14 G	8425220.04	8425220.26	8425220.47	0.0145	0.0025
Venus	18355-12-28 06:14 G	8425446.55	8425446.76	8425446.98	0.0145	0.0023
Mercury	18356-03-07 13:12 G	8425516.98	8425517.05	8425517.13	0.0145	0.0126
Mercury	18356-06-03 18:43 G	8425605.17	8425605.28	8425605.39	0.0145	0.0102
Venus	18356-08-10 18:28 G	8425673.09	8425673.27	8425673.47	0.0145	0.0071
Mercury	18356-08-31 00:14 G	8425693.38	8425693.51	8425693.64	0.0145	0.0078
Mercury	18356-11-27 05:45 G	8425781.60	8425781.74	8425781.89	0.0145	0.0054
Mercury	18357-02-23 11:16 G	8425869.82	8425869.97	8425870.13	0.0145	0.0030
Venus	18357-03-25 06:28 G	8425899.66	8425899.77	8425899.91	0.0145	0.0119
Mercury	18357-05-22 17:02 G	8425958.05	8425958.21	8425958.37	0.0145	0.0005
Mercury	18357-08-18 22:48 G	8426046.29	8426046.45	8426046.61	0.0145	0.0020
Mercury	18357-11-15 04:19 G	8426134.54	8426134.68	8426134.84	0.0145	0.0045
Mercury	18358-02-11 10:19 G	8426222.79	8426222.93	8426223.07	0.0145	0.0070

Mercury	18358-05-10 16:04 G	8426311.05	8426311.17	8426311.30	0.0145	0.0095
Mercury	18358-08-06 21:50 G	8426399.33	8426399.41	8426399.51	0.0145	0.0121
Mars	18370-10-12 15:21 G	8430848.92	8430849.14	8430849.41	0.0141	0.0095
Mars	18372-09-17 09:21 G	8431554.61	8431554.89	8431555.20	0.0140	0.0066
Earth	18386-03-31 10:48 G	8436497.85	8436497.95	8436498.09	0.0135	0.0119
Moon	18386-03-31 14:24 G	8436498.02	8436498.10	8436498.20	0.0135	0.0125 *
Moon	18387-04-04 18:00 G	8436867.03	8436867.25	8436867.50	0.0134	0.0060
Earth	18387-04-04 21:07 G	8436867.17	8436867.38	8436867.62	0.0134	0.0067 *
Earth	18388-04-08 07:12 G	8437236.55	8437236.80	8437237.06	0.0134	0.0015
Moon	18388-04-08 10:19 G	8437236.69	8437236.93	8437237.19	0.0134	0.0022 *
Moon	18389-04-12 13:55 G	8437605.84	8437606.08	8437606.34	0.0134	0.0038
Earth	18389-04-12 16:48 G	8437605.96	8437606.20	8437606.45	0.0134	0.0036 *
Earth	18390-04-17 01:40 G	8437975.39	8437975.57	8437975.78	0.0134	0.0087
Moon	18390-04-17 04:48 G	8437975.52	8437975.70	8437975.90	0.0134	0.0088 *
Moon	18391-04-21 08:24 G	8438344.85	8438344.85	8438344.87	0.0134	0.0133
Venus	18396-04-09 16:19 G	8440160.04	8440160.18	8440160.34	0.0133	0.0097
Venus	18396-11-21 21:36 G	8440386.21	8440386.40	8440386.60	0.0133	0.0061
Venus	18397-07-06 02:52 G	8440612.41	8440612.62	8440612.84	0.0133	0.0024
Venus	18398-02-17 08:09 G	8440838.63	8440838.84	8440839.06	0.0133	0.0013
Mercury	18398-06-25 15:21 G	8440967.08	8440967.14	8440967.22	0.0133	0.0118
Mercury	18398-09-21 19:55 G	8441055.23	8441055.33	8441055.44	0.0133	0.0099
Venus	18398-10-01 13:12 G	8441064.86	8441065.05	8441065.26	0.0133	0.0051
Mercury	18398-12-19 00:14 G	8441143.39	8441143.51	8441143.64	0.0133	0.0081
Mercury	18399-03-17 04:48 G	8441231.56	8441231.70	8441231.84	0.0133	0.0062
Venus	18399-05-15 18:14 G	8441291.11	8441291.26	8441291.44	0.0133	0.0088
Mercury	18399-06-13 08:52 G	8441319.73	8441319.87	8441320.02	0.0133	0.0043
Mercury	18399-09-09 13:26 G	8441407.91	8441408.06	8441408.21	0.0133	0.0024
Mercury	18399-12-06 17:31 G	8441496.08	8441496.23	8441496.39	0.0133	0.0007
Venus	18399-12-27 23:45 G	8441517.41	8441517.49	8441517.57	0.0133	0.0124
Mercury	18400-03-03 21:50 G	8441584.26	8441584.41	8441584.56	0.0133	0.0013

Mercury	18400-05-31 01:55 G	8441672.44	8441672.58	8441672.73	0.0133	0.0031
Mercury	18400-08-27 06:00 G	8441760.62	8441760.75	8441760.90	0.0133	0.0050
Mercury	18400-11-23 10:04 G	8441848.80	8441848.92	8441849.06	0.0133	0.0068
Mercury	18401-02-19 14:09 G	8441936.99	8441937.09	8441937.22	0.0133	0.0086
Mercury	18401-05-18 18:28 G	8442025.18	8442025.27	8442025.37	0.0134	0.0103
Mercury	18401-08-14 22:19 G	8442113.38	8442113.43	8442113.51	0.0134	0.0121
Mars	18414-11-28 02:24 G	8446966.38	8446966.60	8446966.84	0.0138	0.0079
Mars	18416-10-28 00:00 G	8447666.24	8447666.50	8447666.77	0.0138	0.0048
Earth	18429-09-30 15:21 G	8452387.03	8452387.14	8452387.28	0.0144	0.0123
Moon	18429-09-30 18:00 G	8452387.13	8452387.25	8452387.40	0.0144	0.0118 *
Moon	18430-10-05 11:16 G	8452756.75	8452756.97	8452757.21	0.0144	0.0067
Earth	18430-10-05 13:40 G	8452756.84	8452757.07	8452757.30	0.0144	0.0060 *
Earth	18431-10-10 11:45 G	8453126.74	8453126.99	8453127.25	0.0144	0.0003
Moon	18431-10-10 13:12 G	8453126.80	8453127.05	8453127.29	0.0144	0.0010 *
Moon	18432-10-14 08:52 G	8453496.65	8453496.87	8453497.13	0.0145	0.0062
Earth	18432-10-14 10:19 G	8453496.72	8453496.93	8453497.17	0.0145	0.0067 *
Moon	18433-10-19 09:21 G	8453866.80	8453866.89	8453867.01	0.0145	0.0130
Earth	18433-10-19 09:21 G	8453866.80	8453866.89	8453867.02	0.0145	0.0130 *
Venus	18437-10-16 23:16 G	8455325.45	8455325.47	8455325.52	0.0145	0.0143
Venus	18438-05-31 11:31 G	8455551.83	8455551.98	8455552.16	0.0145	0.0096
Venus	18439-01-13 00:00 G	8455778.30	8455778.50	8455778.71	0.0145	0.0047
Venus	18439-08-27 12:14 G	8456004.80	8456005.01	8456005.23	0.0145	0.0003
Mercury	18439-12-30 14:52 G	8456130.12	8456130.12	8456130.14	0.0145	0.0144
Mercury	18440-03-27 20:24 G	8456218.27	8456218.35	8456218.44	0.0145	0.0121
Venus	18440-04-10 00:14 G	8456231.32	8456231.51	8456231.73	0.0145	0.0049
Mercury	18440-06-24 01:40 G	8456306.47	8456306.57	8456306.70	0.0145	0.0097
Mercury	18440-09-20 07:12 G	8456394.68	8456394.80	8456394.95	0.0145	0.0073
Venus	18440-11-22 12:28 G	8456457.87	8456458.02	8456458.19	0.0145	0.0096
Mercury	18440-12-17 12:57 G	8456482.89	8456483.04	8456483.19	0.0145	0.0049
Mercury	18441-03-15 18:43 G	8456571.12	8456571.28	8456571.43	0.0145	0.0024

Mercury	18441-06-12 00:14 G	8456659.35	8456659.51	8456659.67	0.0145	0.0002
Venus	18441-07-07 00:28 G	8456684.51	8456684.52	8456684.55	0.0145	0.0144
Mercury	18441-09-08 06:00 G	8456747.59	8456747.75	8456747.91	0.0145	0.0026
Mercury	18441-12-05 11:31 G	8456835.84	8456835.98	8456836.14	0.0145	0.0051
Mercury	18442-03-03 17:16 G	8456924.09	8456924.22	8456924.37	0.0145	0.0076
Mercury	18442-05-30 23:16 G	8457012.36	8457012.47	8457012.59	0.0145	0.0101
Mercury	18442-08-27 05:02 G	8457100.64	8457100.71	8457100.80	0.0145	0.0127
Mars	18455-06-08 18:28 G	8461768.95	8461769.27	8461769.61	0.0140	0.0030
Mars	18457-05-14 08:09 G	8462474.73	8462474.84	8462474.98	0.0140	0.0129
Earth	18470-03-31 20:24 G	8467179.24	8467179.35	8467179.50	0.0135	0.0116
Moon	18470-04-01 00:00 G	8467179.37	8467179.50	8467179.67	0.0135	0.0109 *
Moon	18471-04-05 03:07 G	8467548.43	8467548.63	8467548.87	0.0134	0.0072
Earth	18471-04-05 07:12 G	8467548.58	8467548.80	8467549.03	0.0134	0.0064 *
Earth	18472-04-08 17:02 G	8467917.96	8467918.21	8467918.47	0.0134	0.0012
Moon	18472-04-08 20:09 G	8467918.09	8467918.34	8467918.60	0.0134	0.0008 *
Moon	18473-04-12 23:02 G	8468287.21	8468287.46	8468287.71	0.0134	0.0035
Earth	18473-04-13 02:24 G	8468287.36	8468287.60	8468287.85	0.0134	0.0039 *
Earth	18474-04-17 11:31 G	8468656.81	8468656.98	8468657.19	0.0134	0.0090
Moon	18474-04-17 14:52 G	8468656.94	8468657.12	8468657.31	0.0134	0.0090 *
Venus	18479-12-09 01:26 G	8470718.47	8470718.56	8470718.69	0.0133	0.0115
Venus	18480-07-22 06:57 G	8470944.62	8470944.79	8470944.97	0.0133	0.0077
Venus	18481-03-05 12:14 G	8471170.81	8471171.01	8471171.23	0.0133	0.0041
Venus	18481-10-17 17:31 G	8471397.02	8471397.23	8471397.45	0.0133	0.0004
Venus	18482-05-31 22:33 G	8471623.24	8471623.44	8471623.66	0.0133	0.0033
Mercury	18482-07-15 22:19 G	8471668.36	8471668.43	8471668.51	0.0133	0.0114
Mercury	18482-10-12 02:38 G	8471756.51	8471756.61	8471756.73	0.0133	0.0096
Mercury	18483-01-08 07:12 G	8471844.68	8471844.80	8471844.93	0.0133	0.0077
Venus	18483-01-13 03:50 G	8471849.48	8471849.66	8471849.85	0.0133	0.0070
Mercury	18483-04-06 11:31 G	8471932.84	8471932.98	8471933.12	0.0133	0.0058
Mercury	18483-07-03 15:50 G	8472021.02	8472021.16	8472021.31	0.0133	0.0039

Venus	18483-08-27 08:52 G	8472075.75	8472075.87	8472076.01	0.0133	0.0107
Mercury	18483-09-29 20:09 G	8472109.19	8472109.34	8472109.50	0.0133	0.0021
Mercury	18483-12-27 00:28 G	8472197.37	8472197.52	8472197.67	0.0133	0.0002
Mercury	18484-03-24 04:48 G	8472285.54	8472285.70	8472285.85	0.0133	0.0017
Mercury	18484-06-20 08:52 G	8472373.72	8472373.87	8472374.02	0.0133	0.0035
Mercury	18484-09-16 13:12 G	8472461.91	8472462.05	8472462.19	0.0133	0.0053
Mercury	18484-12-13 17:16 G	8472550.09	8472550.22	8472550.35	0.0133	0.0071
Mercury	18485-03-11 21:21 G	8472638.28	8472638.39	8472638.50	0.0133	0.0089
Mercury	18485-06-08 01:12 G	8472726.47	8472726.55	8472726.65	0.0133	0.0107
Mercury	18485-09-04 05:16 G	8472814.68	8472814.72	8472814.78	0.0134	0.0124
Mars	18499-07-23 08:24 G	8477884.59	8477884.85	8477885.14	0.0138	0.0029
Mars	18501-06-23 10:04 G	8478584.75	8478584.92	8478585.14	0.0139	0.0101
Earth	18513-10-02 01:40 G	8483068.44	8483068.57	8483068.71	0.0144	0.0120
Moon	18513-10-02 04:04 G	8483068.57	8483068.67	8483068.81	0.0144	0.0125 *
Moon	18514-10-06 21:07 G	8483438.14	8483438.38	8483438.63	0.0144	0.0050
Earth	18514-10-06 23:31 G	8483438.26	8483438.48	8483438.72	0.0144	0.0058 *
Earth	18515-10-11 22:19 G	8483808.18	8483808.43	8483808.68	0.0144	0.0006
Moon	18515-10-12 00:28 G	8483808.28	8483808.52	8483808.77	0.0144	0.0001 *
Moon	18516-10-15 19:26 G	8484178.10	8484178.31	8484178.55	0.0145	0.0075
Earth	18516-10-15 20:52 G	8484178.16	8484178.37	8484178.60	0.0145	0.0070 *
Earth	18517-10-20 19:55 G	8484548.25	8484548.33	8484548.44	0.0145	0.0134
Moon	18517-10-20 20:52 G	8484548.30	8484548.37	8484548.49	0.0145	0.0133 *
Venus	18522-01-29 17:45 G	8486110.13	8486110.24	8486110.39	0.0145	0.0117
Venus	18522-09-13 06:14 G	8486336.58	8486336.76	8486336.96	0.0145	0.0069
Venus	18523-04-27 18:43 G	8486563.06	8486563.28	8486563.49	0.0145	0.0021
Venus	18523-12-10 06:43 G	8486789.57	8486789.78	8486790.00	0.0145	0.0027
Mercury	18524-01-20 22:04 G	8486831.39	8486831.42	8486831.48	0.0145	0.0139
Mercury	18524-04-18 03:50 G	8486919.57	8486919.66	8486919.76	0.0145	0.0114
Mercury	18524-07-15 09:21 G	8487007.77	8487007.89	8487008.01	0.0145	0.0090
Venus	18524-07-23 18:43 G	8487016.11	8487016.28	8487016.48	0.0145	0.0075

Mercury	18524-10-11 14:52 G	8487095.98	8487096.12	8487096.26	0.0145	0.0066
Mercury	18525-01-07 20:24 G	8487184.20	8487184.35	8487184.50	0.0145	0.0042
Venus	18525-03-07 06:57 G	8487242.69	8487242.79	8487242.92	0.0145	0.0123
Mercury	18525-04-06 01:55 G	8487272.43	8487272.58	8487272.74	0.0145	0.0018
Mercury	18525-07-03 07:40 G	8487360.66	8487360.82	8487360.98	0.0145	0.0007
Mercury	18525-09-29 13:26 G	8487448.90	8487449.06	8487449.22	0.0145	0.0032
Mercury	18525-12-26 19:12 G	8487537.15	8487537.30	8487537.45	0.0145	0.0057
Mercury	18526-03-25 00:43 G	8487625.41	8487625.53	8487625.67	0.0145	0.0083
Mercury	18526-06-21 06:43 G	8487713.68	8487713.78	8487713.89	0.0145	0.0108
Mercury	18526-09-17 12:28 G	8487801.97	8487802.02	8487802.09	0.0145	0.0134
Mars	18538-02-27 22:04 G	8491983.30	8491983.42	8491983.59	0.0141	0.0127
Mars	18540-02-03 22:33 G	8492689.13	8492689.44	8492689.78	0.0140	0.0037
Earth	18554-04-02 07:12 G	8497860.67	8497860.80	8497860.94	0.0135	0.0113
Moon	18554-04-02 10:19 G	8497860.84	8497860.93	8497861.07	0.0135	0.0120 *
Moon	18555-04-06 13:40 G	8498229.85	8498230.07	8498230.32	0.0134	0.0055
Earth	18555-04-06 17:16 G	8498230.01	8498230.22	8498230.46	0.0134	0.0062 *
Earth	18556-04-10 03:21 G	8498599.39	8498599.64	8498599.90	0.0134	0.0009
Moon	18556-04-10 06:57 G	8498599.55	8498599.79	8498600.05	0.0134	0.0016 *
Moon	18557-04-14 09:21 G	8498968.66	8498968.89	8498969.15	0.0134	0.0046
Earth	18557-04-14 12:57 G	8498968.80	8498969.04	8498969.29	0.0134	0.0042 *
Earth	18558-04-18 22:19 G	8499338.25	8499338.43	8499338.62	0.0134	0.0093
Moon	18558-04-19 01:40 G	8499338.40	8499338.57	8499338.77	0.0134	0.0093 *
Venus	18563-08-09 11:31 G	8501276.95	8501276.98	8501277.04	0.0133	0.0130
Venus	18564-03-22 17:02 G	8501503.06	8501503.21	8501503.37	0.0133	0.0093
Venus	18564-11-03 22:04 G	8501729.23	8501729.42	8501729.63	0.0133	0.0057
Venus	18565-06-18 03:21 G	8501955.43	8501955.64	8501955.86	0.0133	0.0020
Venus	18566-01-30 08:38 G	8502181.64	8502181.86	8502182.08	0.0133	0.0017
Mercury	18566-05-10 00:57 G	8502281.51	8502281.54	8502281.58	0.0133	0.0129
Mercury	18566-08-06 05:31 G	8502369.64	8502369.73	8502369.82	0.0133	0.0110
Venus	18566-09-13 13:40 G	8502407.88	8502408.07	8502408.28	0.0133	0.0054

Mercury	18566-11-02 09:50 G	8502457.80	8502457.91	8502458.03	0.0133	0.0091
Mercury	18567-01-29 14:24 G	8502545.97	8502546.10	8502546.23	0.0133	0.0072
Venus	18567-04-27 18:43 G	8502634.13	8502634.28	8502634.45	0.0133	0.0091
Mercury	18567-04-27 18:28 G	8502634.14	8502634.27	8502634.42	0.0133	0.0053 *
Mercury	18567-07-24 23:02 G	8502722.31	8502722.46	8502722.61	0.0133	0.0034
Mercury	18567-10-21 03:21 G	8502810.49	8502810.64	8502810.79	0.0133	0.0016
Venus	18567-12-09 23:45 G	8502860.45	8502860.49	8502860.57	0.0133	0.0128
Mercury	18568-01-17 07:40 G	8502898.66	8502898.82	8502898.97	0.0133	0.0004
Mercury	18568-04-14 11:45 G	8502986.84	8502986.99	8502987.14	0.0133	0.0021
Mercury	18568-07-11 16:04 G	8503075.02	8503075.17	8503075.31	0.0133	0.0039
Mercury	18568-10-07 20:09 G	8503163.21	8503163.34	8503163.48	0.0133	0.0058
Mercury	18569-01-04 00:14 G	8503251.39	8503251.51	8503251.64	0.0133	0.0076
Mercury	18569-04-02 04:19 G	8503339.58	8503339.68	8503339.79	0.0133	0.0094
Mercury	18569-06-29 08:24 G	8503427.78	8503427.85	8503427.94	0.0133	0.0111
Mercury	18569-09-25 12:28 G	8503515.99	8503516.02	8503516.06	0.0133	0.0129
Mars	18582-04-17 21:21 G	8508103.23	8508103.39	8508103.61	0.0137	0.0104
Mars	18584-03-17 17:16 G	8508802.94	8508803.22	8508803.50	0.0138	0.0023
Earth	18597-10-02 11:16 G	8513749.84	8513749.97	8513750.12	0.0144	0.0118
Moon	18597-10-02 14:38 G	8513749.97	8513750.11	8513750.27	0.0144	0.0114 *
Moon	18598-10-07 06:28 G	8514119.55	8514119.77	8514120.01	0.0144	0.0061
Earth	18598-10-07 09:36 G	8514119.67	8514119.90	8514120.14	0.0144	0.0055 *
Earth	18599-10-12 08:09 G	8514489.59	8514489.84	8514490.09	0.0144	0.0009
Moon	18599-10-12 10:33 G	8514489.70	8514489.94	8514490.19	0.0144	0.0016 *
Moon	18600-10-17 04:19 G	8514859.47	8514859.68	8514859.92	0.0145	0.0067
Earth	18600-10-17 06:57 G	8514859.58	8514859.79	8514860.02	0.0145	0.0073 *
Earth	18601-10-22 06:00 G	8515229.68	8515229.75	8515229.85	0.0145	0.0137
Moon	18601-10-22 07:26 G	8515229.75	8515229.81	8515229.89	0.0145	0.0138 *
Venus	18605-09-30 00:00 G	8516668.45	8516668.50	8516668.58	0.0145	0.0138
Venus	18606-05-14 12:28 G	8516894.85	8516895.02	8516895.19	0.0145	0.0091
Venus	18606-12-27 00:28 G	8517121.32	8517121.52	8517121.73	0.0145	0.0043

Venus	18607-08-10 12:57 G	8517347.82	8517348.04	8517348.26	0.0145	0.0005
Mercury	18608-02-11 05:45 G	8517532.68	8517532.74	8517532.80	0.0145	0.0132
Venus	18608-03-24 00:57 G	8517574.35	8517574.54	8517574.75	0.0145	0.0053
Mercury	18608-05-09 11:02 G	8517620.86	8517620.96	8517621.07	0.0145	0.0108
Mercury	18608-08-05 16:33 G	8517709.07	8517709.19	8517709.32	0.0145	0.0084
Mercury	18608-11-01 22:04 G	8517797.28	8517797.42	8517797.57	0.0145	0.0060
Venus	18608-11-05 13:12 G	8517800.90	8517801.05	8517801.22	0.0145	0.0101
Mercury	18609-01-29 03:50 G	8517885.50	8517885.66	8517885.81	0.0145	0.0036
Mercury	18609-04-27 09:21 G	8517973.73	8517973.89	8517974.05	0.0145	0.0011
Mercury	18609-07-24 15:07 G	8518061.97	8518062.13	8518062.29	0.0145	0.0014
Mercury	18609-10-20 20:38 G	8518150.21	8518150.36	8518150.52	0.0145	0.0039
Mercury	18610-01-17 02:24 G	8518238.46	8518238.60	8518238.75	0.0145	0.0064
Mercury	18610-04-15 08:24 G	8518326.72	8518326.85	8518326.98	0.0145	0.0089
Mercury	18610-07-12 13:55 G	8518415.00	8518415.08	8518415.19	0.0145	0.0115
Mercury	18610-10-08 19:55 G	8518503.30	8518503.33	8518503.38	0.0145	0.0141
Mars	18622-10-26 05:02 G	8522903.43	8522903.71	8522904.04	0.0141	0.0061
Mars	18624-10-01 00:57 G	8523609.34	8523609.54	8523609.79	0.0140	0.0103
Earth	18638-04-03 17:45 G	8528542.10	8528542.24	8528542.39	0.0134	0.0110
Moon	18638-04-03 21:21 G	8528542.23	8528542.39	8528542.56	0.0134	0.0103 *
Moon	18639-04-08 00:14 G	8528911.30	8528911.51	8528911.74	0.0134	0.0065
Earth	18639-04-08 03:50 G	8528911.44	8528911.66	8528911.90	0.0134	0.0058 *
Earth	18640-04-11 13:55 G	8529280.82	8529281.08	8529281.34	0.0134	0.0006
Moon	18640-04-11 17:31 G	8529280.97	8529281.23	8529281.48	0.0134	0.0001 *
Moon	18641-04-15 19:26 G	8529650.07	8529650.31	8529650.56	0.0134	0.0041
Earth	18641-04-15 23:02 G	8529650.24	8529650.46	8529650.72	0.0134	0.0046 *
Earth	18642-04-20 08:09 G	8530019.69	8530019.84	8530020.04	0.0134	0.0097
Moon	18642-04-20 11:45 G	8530019.84	8530019.99	8530020.18	0.0134	0.0098 *
Venus	18647-11-22 02:38 G	8532061.50	8532061.61	8532061.74	0.0133	0.0109
Venus	18648-07-05 07:40 G	8532287.65	8532287.82	8532288.02	0.0133	0.0073
Venus	18649-02-16 13:12 G	8532513.84	8532514.05	8532514.26	0.0133	0.0036

Venus	18649-09-30 18:28 G	8532740.05	8532740.27	8532740.49	0.0133	0.0002
Venus	18650-05-14 23:31 G	8532966.27	8532966.48	8532966.69	0.0133	0.0037
Mercury	18650-05-31 07:55 G	8532982.78	8532982.83	8532982.89	0.0133	0.0124
Mercury	18650-08-27 12:14 G	8533070.93	8533071.01	8533071.12	0.0133	0.0105
Mercury	18650-11-23 16:48 G	8533159.09	8533159.20	8533159.33	0.0133	0.0086
Venus	18650-12-27 04:19 G	8533192.51	8533192.68	8533192.87	0.0133	0.0074
Mercury	18651-02-19 21:07 G	8533247.26	8533247.38	8533247.52	0.0133	0.0068
Mercury	18651-05-19 01:40 G	8533335.43	8533335.57	8533335.72	0.0133	0.0048
Venus	18651-08-10 09:36 G	8533418.79	8533418.90	8533419.03	0.0133	0.0111
Mercury	18651-08-15 06:00 G	8533423.60	8533423.75	8533423.90	0.0133	0.0030
Mercury	18651-11-11 10:19 G	8533511.78	8533511.93	8533512.08	0.0133	0.0011
Mercury	18652-02-07 14:38 G	8533599.96	8533600.11	8533600.26	0.0133	0.0007
Mercury	18652-05-05 18:43 G	8533688.14	8533688.28	8533688.44	0.0133	0.0026
Mercury	18652-08-01 22:48 G	8533776.32	8533776.45	8533776.60	0.0133	0.0045
Mercury	18652-10-29 03:07 G	8533864.50	8533864.63	8533864.77	0.0133	0.0062
Mercury	18653-01-25 07:12 G	8533952.69	8533952.80	8533952.93	0.0133	0.0080
Mercury	18653-04-23 11:31 G	8534040.88	8534040.98	8534041.08	0.0133	0.0098
Mercury	18653-07-20 15:21 G	8534129.08	8534129.14	8534129.22	0.0133	0.0116
Mercury	18653-10-16 19:26 G	8534217.31	8534217.31	8534217.32	0.0133	0.0133
Mars	18666-12-12 02:38 G	8539021.36	8539021.61	8539021.88	0.0138	0.0054
Mars	18668-11-11 01:12 G	8539721.32	8539721.55	8539721.80	0.0138	0.0075
Earth	18681-10-03 20:09 G	8544431.20	8544431.34	8544431.50	0.0144	0.0116
Moon	18681-10-03 23:31 G	8544431.35	8544431.48	8544431.63	0.0144	0.0119 *
Moon	18682-10-08 14:52 G	8544800.89	8544801.12	8544801.38	0.0144	0.0047
Earth	18682-10-08 18:28 G	8544801.04	8544801.27	8544801.51	0.0144	0.0053 *
Earth	18683-10-13 17:02 G	8545170.97	8545171.21	8545171.47	0.0144	0.0012
Moon	18683-10-13 20:24 G	8545171.10	8545171.35	8545171.60	0.0144	0.0004 *
Moon	18684-10-17 13:40 G	8545540.86	8545541.07	8545541.29	0.0145	0.0081
Earth	18684-10-17 15:50 G	8545540.96	8545541.16	8545541.39	0.0145	0.0076 *
Earth	18685-10-22 14:52 G	8545911.08	8545911.12	8545911.21	0.0145	0.0140

Moon	18685-10-22 17:31 G	8545911.17	8545911.23	8545911.32	0.0145	0.0137 *
Venus	18690-01-11 18:00 G	8547453.11	8547453.25	8547453.39	0.0145	0.0113
Venus	18690-08-26 06:14 G	8547679.57	8547679.76	8547679.96	0.0145	0.0065
Venus	18691-04-09 18:43 G	8547906.06	8547906.28	8547906.50	0.0145	0.0017
Venus	18691-11-22 06:43 G	8548132.58	8548132.78	8548133.00	0.0145	0.0032
Mercury	18692-03-02 12:43 G	8548233.97	8548234.03	8548234.12	0.0145	0.0126
Mercury	18692-05-29 18:14 G	8548322.16	8548322.26	8548322.38	0.0145	0.0102
Venus	18692-07-05 18:57 G	8548359.12	8548359.29	8548359.48	0.0145	0.0079
Mercury	18692-08-25 23:45 G	8548410.36	8548410.49	8548410.63	0.0145	0.0078
Mercury	18692-11-22 05:16 G	8548498.58	8548498.72	8548498.87	0.0145	0.0054
Venus	18693-02-17 07:40 G	8548585.71	8548585.82	8548585.92	0.0145	0.0127
Mercury	18693-02-18 11:02 G	8548586.80	8548586.96	8548587.12	0.0145	0.0029
Mercury	18693-05-17 16:33 G	8548675.03	8548675.19	8548675.35	0.0145	0.0006
Mercury	18693-08-13 22:19 G	8548763.27	8548763.43	8548763.59	0.0145	0.0020
Mercury	18693-11-10 04:04 G	8548851.52	8548851.67	8548851.82	0.0145	0.0045
Mercury	18694-02-06 09:36 G	8548939.77	8548939.90	8548940.05	0.0145	0.0071
Mercury	18694-05-05 15:36 G	8549028.03	8549028.15	8549028.27	0.0145	0.0096
Mercury	18694-08-01 21:21 G	8549116.31	8549116.39	8549116.49	0.0145	0.0122
Mars	18707-06-23 12:28 G	8553823.68	8553824.02	8553824.35	0.0140	0.0008
Earth	18722-04-05 04:33 G	8559223.55	8559223.69	8559223.86	0.0134	0.0107
Moon	18722-04-05 07:40 G	8559223.70	8559223.82	8559223.98	0.0134	0.0113 *
Moon	18723-04-09 11:45 G	8559592.75	8559592.99	8559593.23	0.0134	0.0048
Earth	18723-04-09 14:52 G	8559592.90	8559593.12	8559593.37	0.0134	0.0055 *
Earth	18724-04-13 00:57 G	8559962.28	8559962.54	8559962.80	0.0134	0.0003
Moon	18724-04-13 04:33 G	8559962.43	8559962.69	8559962.95	0.0134	0.0010 *
Moon	18725-04-17 07:12 G	8560331.56	8560331.80	8560332.03	0.0134	0.0053
Earth	18725-04-17 10:19 G	8560331.70	8560331.93	8560332.18	0.0134	0.0049 *
Earth	18726-04-21 19:26 G	8560701.16	8560701.31	8560701.49	0.0134	0.0100
Moon	18726-04-21 23:02 G	8560701.31	8560701.46	8560701.66	0.0134	0.0099 *
Venus	18731-07-23 12:57 G	8562619.98	8562620.04	8562620.12	0.0133	0.0124

Venus	18732-03-05 18:14 G	8562846.11	8562846.26	8562846.43	0.0133	0.0088
Venus	18732-10-17 23:16 G	8563072.28	8563072.47	8563072.69	0.0133	0.0052
Venus	18733-06-01 04:48 G	8563298.48	8563298.70	8563298.91	0.0133	0.0015
Venus	18734-01-13 09:50 G	8563524.70	8563524.91	8563525.13	0.0133	0.0022
Mercury	18734-06-21 15:07 G	8563684.07	8563684.13	8563684.21	0.0133	0.0119
Venus	18734-08-27 14:52 G	8563750.93	8563751.12	8563751.32	0.0133	0.0058
Mercury	18734-09-17 19:40 G	8563772.22	8563772.32	8563772.43	0.0133	0.0099
Mercury	18734-12-15 00:14 G	8563860.38	8563860.51	8563860.63	0.0133	0.0080
Mercury	18735-03-13 04:33 G	8563948.55	8563948.69	8563948.83	0.0133	0.0062
Venus	18735-04-10 19:55 G	8563977.20	8563977.33	8563977.50	0.0133	0.0096
Mercury	18735-06-09 08:52 G	8564036.73	8564036.87	8564037.02	0.0133	0.0043
Mercury	18735-09-05 13:12 G	8564124.90	8564125.05	8564125.21	0.0133	0.0024
Venus	18735-11-23 01:26 G	8564203.53	8564203.56	8564203.59	0.0133	0.0132
Mercury	18735-12-02 17:31 G	8564213.08	8564213.23	8564213.39	0.0133	0.0006
Mercury	18736-02-28 21:50 G	8564301.26	8564301.41	8564301.56	0.0133	0.0013
Mercury	18736-05-27 02:09 G	8564389.44	8564389.59	8564389.74	0.0133	0.0031
Mercury	18736-08-23 06:14 G	8564477.62	8564477.76	8564477.91	0.0133	0.0049
Mercury	18736-11-19 10:19 G	8564565.81	8564565.93	8564566.07	0.0133	0.0068
Mercury	18737-02-15 14:24 G	8564653.99	8564654.10	8564654.23	0.0133	0.0086
Mercury	18737-05-14 18:28 G	8564742.19	8564742.27	8564742.38	0.0133	0.0104
Mercury	18737-08-10 22:33 G	8564830.39	8564830.44	8564830.51	0.0133	0.0121
Mars	18749-09-06 18:43 G	8569240.20	8569240.28	8569240.40	0.0137	0.0128
Mars	18751-08-07 12:14 G	8569939.73	8569940.01	8569940.30	0.0138	0.0003
Mars	18753-07-07 12:00 G	8570639.91	8570640.00	8570640.11	0.0139	0.0129
Earth	18765-10-05 05:16 G	8575112.59	8575112.72	8575112.90	0.0144	0.0114
Moon	18765-10-05 09:07 G	8575112.74	8575112.88	8575113.06	0.0144	0.0111 *
Moon	18766-10-10 00:14 G	8575482.29	8575482.51	8575482.76	0.0144	0.0056
Earth	18766-10-10 04:04 G	8575482.44	8575482.67	8575482.91	0.0144	0.0050 *
Earth	18767-10-15 02:38 G	8575852.35	8575852.61	8575852.86	0.0144	0.0014
Moon	18767-10-15 05:45 G	8575852.50	8575852.74	8575852.99	0.0144	0.0022 *

Moon	18768-10-18 22:04 G	8576222.20	8576222.42	8576222.64	0.0145	0.0071
Earth	18768-10-19 01:12 G	8576222.35	8576222.55	8576222.77	0.0145	0.0079 *
Earth	18769-10-24 00:00 G	8576592.48	8576592.50	8576592.57	0.0145	0.0143
Venus	18773-09-11 23:02 G	8578011.40	8578011.46	8578011.56	0.0145	0.0135
Venus	18774-04-26 11:31 G	8578237.82	8578237.98	8578238.16	0.0145	0.0087
Venus	18774-12-09 00:00 G	8578464.29	8578464.50	8578464.71	0.0145	0.0039
Venus	18775-07-23 12:14 G	8578690.80	8578691.01	8578691.23	0.0145	0.0010
Mercury	18775-12-26 14:24 G	8578847.10	8578847.10	8578847.13	0.0145	0.0145
Venus	18776-03-06 00:28 G	8578917.33	8578917.52	8578917.73	0.0145	0.0057
Mercury	18776-03-23 19:55 G	8578935.25	8578935.33	8578935.43	0.0145	0.0121
Mercury	18776-06-20 01:26 G	8579023.45	8579023.56	8579023.68	0.0145	0.0097
Mercury	18776-09-16 06:57 G	8579111.66	8579111.79	8579111.93	0.0145	0.0072
Venus	18776-10-18 13:12 G	8579143.90	8579144.05	8579144.20	0.0145	0.0105
Mercury	18776-12-13 12:28 G	8579199.88	8579200.02	8579200.17	0.0145	0.0048
Mercury	18777-03-11 18:14 G	8579288.10	8579288.26	8579288.41	0.0145	0.0024
Mercury	18777-06-07 23:45 G	8579376.33	8579376.49	8579376.65	0.0145	0.0003
Mercury	18777-09-04 05:31 G	8579464.57	8579464.73	8579464.89	0.0145	0.0026
Mercury	18777-12-01 11:16 G	8579552.82	8579552.97	8579553.12	0.0145	0.0051
Mercury	18778-02-27 17:02 G	8579641.07	8579641.21	8579641.35	0.0145	0.0076
Mercury	18778-05-26 22:33 G	8579729.34	8579729.44	8579729.57	0.0145	0.0102
Mercury	18778-08-23 04:19 G	8579817.62	8579817.68	8579817.77	0.0145	0.0128
Mars	18790-03-13 13:55 G	8584037.85	8584038.08	8584038.36	0.0141	0.0093
Mars	18792-02-17 15:50 G	8584743.90	8584744.16	8584744.46	0.0140	0.0075
Earth	18806-04-05 15:36 G	8589905.01	8589905.15	8589905.33	0.0134	0.0104
Moon	18806-04-05 19:12 G	8589905.14	8589905.30	8589905.50	0.0134	0.0097 *
Moon	18807-04-09 23:02 G	8590274.24	8590274.46	8590274.70	0.0134	0.0058
Earth	18807-04-10 02:09 G	8590274.36	8590274.59	8590274.84	0.0134	0.0051 *
Earth	18808-04-13 12:00 G	8590643.75	8590644.00	8590644.26	0.0134	0.0003
Moon	18808-04-13 15:36 G	8590643.89	8590644.15	8590644.41	0.0134	0.0007 *
Moon	18809-04-17 18:00 G	8591013.02	8591013.25	8591013.49	0.0134	0.0047

Earth	18809-04-17 21:21 G	8591013.17	8591013.39	8591013.64	0.0134	0.0053 *
Earth	18810-04-22 06:28 G	8591382.62	8591382.77	8591382.94	0.0134	0.0104
Moon	18810-04-22 10:04 G	8591382.76	8591382.92	8591383.08	0.0134	0.0106 *
Venus	18815-11-04 04:48 G	8593404.56	8593404.70	8593404.84	0.0133	0.0103
Venus	18816-06-17 09:50 G	8593630.73	8593630.91	8593631.10	0.0133	0.0067
Venus	18817-01-29 14:52 G	8593856.92	8593857.12	8593857.34	0.0133	0.0031
Venus	18817-09-12 20:09 G	8594083.13	8594083.34	8594083.56	0.0133	0.0006
Mercury	18818-04-14 17:45 G	8594297.24	8594297.24	8594297.26	0.0133	0.0132
Venus	18818-04-27 01:12 G	8594309.35	8594309.55	8594309.77	0.0133	0.0043
Mercury	18818-07-11 22:19 G	8594385.36	8594385.43	8594385.52	0.0133	0.0113
Mercury	18818-10-08 02:52 G	8594473.51	8594473.62	8594473.73	0.0133	0.0094
Venus	18818-12-09 06:28 G	8594535.60	8594535.77	8594535.95	0.0133	0.0079
Mercury	18819-01-04 07:12 G	8594561.68	8594561.80	8594561.94	0.0133	0.0075
Mercury	18819-04-02 11:45 G	8594649.85	8594649.99	8594650.13	0.0133	0.0056
Mercury	18819-06-29 16:04 G	8594738.02	8594738.17	8594738.32	0.0133	0.0038
Venus	18819-07-23 11:16 G	8594761.89	8594761.97	8594762.10	0.0133	0.0116
Mercury	18819-09-25 20:24 G	8594826.20	8594826.35	8594826.51	0.0133	0.0019
Mercury	18819-12-23 00:43 G	8594914.38	8594914.53	8594914.69	0.0133	0.0003
Mercury	18820-03-20 05:02 G	8595002.56	8595002.71	8595002.86	0.0133	0.0018
Mercury	18820-06-16 09:21 G	8595090.74	8595090.89	8595091.04	0.0133	0.0036
Mercury	18820-09-12 13:26 G	8595178.93	8595179.06	8595179.20	0.0133	0.0055
Mercury	18820-12-09 17:45 G	8595267.11	8595267.24	8595267.37	0.0133	0.0073
Mercury	18821-03-07 21:50 G	8595355.30	8595355.41	8595355.52	0.0133	0.0090
Mercury	18821-06-04 01:40 G	8595443.50	8595443.57	8595443.67	0.0133	0.0109
Mercury	18821-08-31 05:45 G	8595531.71	8595531.74	8595531.80	0.0133	0.0126
Mars	18834-05-02 02:38 G	8600158.40	8600158.61	8600158.86	0.0137	0.0078
Mars	18836-03-31 20:24 G	8600858.09	8600858.35	8600858.62	0.0138	0.0050
Earth	18849-10-05 14:38 G	8605793.97	8605794.11	8605794.28	0.0144	0.0111
Moon	18849-10-05 18:00 G	8605794.11	8605794.25	8605794.42	0.0144	0.0113 *
Moon	18850-10-10 09:21 G	8606163.65	8606163.89	8606164.13	0.0144	0.0041

Earth	18850-10-10 13:12 G	8606163.81	8606164.05	8606164.29	0.0144	0.0048 *
Earth	18851-10-15 11:31 G	8606533.74	8606533.98	8606534.24	0.0144	0.0017
Moon	18851-10-15 15:07 G	8606533.88	8606534.13	8606534.38	0.0144	0.0010 *
Moon	18852-10-19 07:26 G	8606903.61	8606903.81	8606904.01	0.0145	0.0088
Earth	18852-10-19 10:19 G	8606903.74	8606903.93	8606904.15	0.0145	0.0082 *
Moon	18853-10-24 12:28 G	8607273.99	8607274.02	8607274.09	0.0145	0.0142
Venus	18857-12-24 17:02 G	8608796.08	8608796.21	8608796.36	0.0145	0.0110
Venus	18858-08-08 05:45 G	8609022.54	8609022.74	8609022.94	0.0145	0.0061
Venus	18859-03-22 18:14 G	8609249.04	8609249.26	8609249.48	0.0145	0.0013
Venus	18859-11-04 06:43 G	8609475.57	8609475.78	8609475.99	0.0145	0.0035
Mercury	18860-01-15 21:50 G	8609548.37	8609548.41	8609548.46	0.0145	0.0138
Mercury	18860-04-13 03:21 G	8609636.55	8609636.64	8609636.74	0.0145	0.0114
Venus	18860-06-17 18:57 G	8609702.11	8609702.29	8609702.47	0.0145	0.0083
Mercury	18860-07-10 08:52 G	8609724.75	8609724.87	8609724.99	0.0145	0.0090
Mercury	18860-10-06 14:24 G	8609812.96	8609813.10	8609813.24	0.0145	0.0066
Mercury	18861-01-02 19:55 G	8609901.18	8609901.33	8609901.48	0.0145	0.0042
Venus	18861-01-30 07:12 G	8609928.72	8609928.80	8609928.90	0.0145	0.0130
Mercury	18861-04-01 01:26 G	8609989.40	8609989.56	8609989.72	0.0145	0.0017
Mercury	18861-06-28 07:12 G	8610077.64	8610077.80	8610077.96	0.0145	0.0008
Mercury	18861-09-24 12:43 G	8610165.88	8610166.03	8610166.19	0.0145	0.0033
Mercury	18861-12-21 18:28 G	8610254.13	8610254.27	8610254.42	0.0145	0.0058
Mercury	18862-03-20 00:14 G	8610342.38	8610342.51	8610342.65	0.0145	0.0083
Mercury	18862-06-16 06:00 G	8610430.65	8610430.75	8610430.86	0.0145	0.0108
Mercury	18862-09-12 11:45 G	8610518.94	8610518.99	8610519.06	0.0145	0.0134
Mars	18874-11-07 22:48 G	8614958.12	8614958.45	8614958.78	0.0141	0.0024
Earth	18890-04-06 03:21 G	8620586.49	8620586.64	8620586.83	0.0134	0.0100
Moon	18890-04-06 06:28 G	8620586.61	8620586.77	8620586.94	0.0134	0.0104 *
Moon	18891-04-10 10:48 G	8620955.72	8620955.95	8620956.20	0.0134	0.0041
Earth	18891-04-10 13:55 G	8620955.85	8620956.08	8620956.33	0.0134	0.0047 *
Earth	18892-04-13 23:31 G	8621325.23	8621325.48	8621325.74	0.0134	0.0006

Moon	18892-04-14 02:38 G	8621325.35	8621325.61	8621325.88	0.0134	0.0003 *
Moon	18893-04-18 06:00 G	8621694.53	8621694.75	8621694.98	0.0134	0.0062
Earth	18893-04-18 08:52 G	8621694.65	8621694.87	8621695.11	0.0134	0.0057 *
Earth	18894-04-22 18:00 G	8622064.11	8622064.25	8622064.40	0.0134	0.0108
Moon	18894-04-22 21:07 G	8622064.24	8622064.38	8622064.56	0.0134	0.0106 *
Venus	18899-07-04 15:21 G	8623963.05	8623963.14	8623963.25	0.0133	0.0118
Venus	18900-02-15 20:38 G	8624189.20	8624189.36	8624189.54	0.0133	0.0082
Venus	18900-09-30 01:40 G	8624415.38	8624415.57	8624415.79	0.0133	0.0046
Venus	18901-05-14 07:12 G	8624641.58	8624641.80	8624642.02	0.0133	0.0009
Venus	18901-12-26 12:14 G	8624867.80	8624868.01	8624868.23	0.0133	0.0028
Mercury	18902-05-06 01:12 G	8624998.51	8624998.55	8624998.61	0.0133	0.0126
Mercury	18902-08-02 05:45 G	8625086.66	8625086.74	8625086.84	0.0133	0.0107
Venus	18902-08-09 17:16 G	8625094.04	8625094.22	8625094.42	0.0133	0.0064
Mercury	18902-10-29 10:19 G	8625174.82	8625174.93	8625175.05	0.0133	0.0088
Mercury	18903-01-25 14:38 G	8625262.99	8625263.11	8625263.25	0.0133	0.0069
Venus	18903-03-23 22:33 G	8625320.31	8625320.44	8625320.59	0.0133	0.0101
Mercury	18903-04-23 19:12 G	8625351.16	8625351.30	8625351.45	0.0133	0.0050
Mercury	18903-07-20 23:31 G	8625439.33	8625439.48	8625439.64	0.0133	0.0031
Mercury	18903-10-17 03:50 G	8625527.51	8625527.66	8625527.82	0.0133	0.0013
Mercury	18904-01-13 08:09 G	8625615.69	8625615.84	8625616.00	0.0133	0.0007
Mercury	18904-04-10 12:28 G	8625703.87	8625704.02	8625704.17	0.0133	0.0024
Mercury	18904-07-07 16:48 G	8625792.05	8625792.20	8625792.34	0.0133	0.0042
Mercury	18904-10-03 20:52 G	8625880.24	8625880.37	8625880.51	0.0133	0.0061
Mercury	18904-12-31 01:12 G	8625968.43	8625968.55	8625968.67	0.0133	0.0079
Mercury	18905-03-29 05:16 G	8626056.62	8626056.72	8626056.82	0.0133	0.0096
Mercury	18905-06-25 09:07 G	8626144.82	8626144.88	8626144.97	0.0133	0.0115
Mercury	18905-09-21 13:26 G	8626233.04	8626233.06	8626233.08	0.0133	0.0132
Mars	18918-12-26 12:28 G	8631076.75	8631077.02	8631077.30	0.0137	0.0026
Mars	18920-11-25 07:40 G	8631776.66	8631776.82	8631777.02	0.0138	0.0106
Jupiter	18930-05-07 10:33 G	8635226.51	8635226.94	8635227.42	0.0143	0.0063

Earth	18933-10-07 01:55 G	8636475.42	8636475.58	8636475.76	0.0144	0.0107
Moon	18933-10-07 05:16 G	8636475.57	8636475.72	8636475.91	0.0144	0.0106 *
Moon	18934-10-11 20:38 G	8636845.14	8636845.36	8636845.61	0.0144	0.0049
Earth	18934-10-12 00:14 G	8636845.27	8636845.51	8636845.75	0.0144	0.0044 *
Earth	18935-10-16 22:48 G	8637215.20	8637215.45	8637215.70	0.0144	0.0021
Moon	18935-10-17 02:24 G	8637215.35	8637215.60	8637215.85	0.0144	0.0029 *
Moon	18936-10-20 17:45 G	8637585.04	8637585.24	8637585.46	0.0145	0.0078
Earth	18936-10-20 21:21 G	8637585.20	8637585.39	8637585.60	0.0145	0.0086 *
Venus	18941-08-24 23:31 G	8639354.40	8639354.48	8639354.59	0.0145	0.0131
Venus	18942-04-08 12:14 G	8639580.83	8639581.01	8639581.19	0.0145	0.0083
Venus	18942-11-21 00:28 G	8639807.32	8639807.52	8639807.74	0.0145	0.0035
Venus	18943-07-05 12:57 G	8640033.83	8640034.04	8640034.26	0.0145	0.0013
Mercury	18944-02-06 05:16 G	8640249.67	8640249.72	8640249.79	0.0145	0.0132
Venus	18944-02-17 01:12 G	8640260.37	8640260.55	8640260.76	0.0145	0.0062
Mercury	18944-05-04 10:48 G	8640337.85	8640337.95	8640338.06	0.0145	0.0108
Mercury	18944-07-31 16:19 G	8640426.05	8640426.18	8640426.31	0.0145	0.0084
Venus	18944-09-30 13:40 G	8640486.94	8640487.07	8640487.23	0.0145	0.0109
Mercury	18944-10-27 21:50 G	8640514.27	8640514.41	8640514.55	0.0145	0.0059
Mercury	18945-01-24 03:21 G	8640602.49	8640602.64	8640602.80	0.0145	0.0035
Mercury	18945-04-22 08:52 G	8640690.72	8640690.87	8640691.03	0.0145	0.0011
Mercury	18945-07-19 14:38 G	8640778.95	8640779.11	8640779.27	0.0145	0.0014
Mercury	18945-10-15 20:24 G	8640867.19	8640867.35	8640867.50	0.0145	0.0040
Mercury	18946-01-12 01:55 G	8640955.44	8640955.58	8640955.73	0.0145	0.0065
Mercury	18946-04-10 07:40 G	8641043.70	8641043.82	8641043.95	0.0145	0.0090
Mercury	18946-07-07 13:40 G	8641131.97	8641132.07	8641132.17	0.0145	0.0115
Mercury	18946-10-03 19:26 G	8641220.28	8641220.31	8641220.35	0.0145	0.0141
Mars	18957-07-29 21:36 G	8645172.27	8645172.40	8645172.57	0.0141	0.0127
Mars	18959-07-06 06:00 G	8645878.45	8645878.75	8645879.08	0.0140	0.0046
Earth	18974-04-07 15:21 G	8651267.97	8651268.14	8651268.33	0.0134	0.0096
Moon	18974-04-07 18:14 G	8651268.07	8651268.26	8651268.46	0.0134	0.0090 *

Moon	18975-04-11 23:16 G	8651637.24	8651637.47	8651637.71	0.0134	0.0050
Earth	18975-04-12 01:26 G	8651637.33	8651637.56	8651637.81	0.0134	0.0043 *
Earth	18976-04-15 11:16 G	8652006.72	8652006.97	8652007.23	0.0134	0.0009
Moon	18976-04-15 13:55 G	8652006.83	8652007.08	8652007.35	0.0134	0.0016 *
Moon	18977-04-19 17:45 G	8652376.01	8652376.24	8652376.47	0.0134	0.0055
Earth	18977-04-19 20:09 G	8652376.13	8652376.34	8652376.59	0.0134	0.0062 *
Earth	18978-04-24 05:02 G	8652745.59	8652745.71	8652745.87	0.0134	0.0113
Moon	18978-04-24 07:55 G	8652745.72	8652745.83	8652745.98	0.0134	0.0116 *
Venus	18983-10-17 07:26 G	8654747.67	8654747.81	8654747.97	0.0133	0.0097
Venus	18984-05-30 12:28 G	8654973.84	8654974.02	8654974.23	0.0133	0.0061
Venus	18985-01-11 18:00 G	8655200.03	8655200.25	8655200.46	0.0133	0.0024
Venus	18985-08-25 23:02 G	8655426.25	8655426.46	8655426.68	0.0133	0.0012
Venus	18986-04-09 04:04 G	8655652.48	8655652.67	8655652.89	0.0133	0.0049
Mercury	18986-05-26 08:38 G	8655699.81	8655699.86	8655699.94	0.0133	0.0120
Mercury	18986-08-22 13:12 G	8655787.96	8655788.05	8655788.16	0.0133	0.0101
Mercury	18986-11-18 17:45 G	8655876.12	8655876.24	8655876.37	0.0133	0.0082
Venus	18986-11-21 09:21 G	8655878.73	8655878.89	8655879.07	0.0133	0.0085
Mercury	18987-02-14 22:04 G	8655964.29	8655964.42	8655964.57	0.0133	0.0063
Mercury	18987-05-14 02:38 G	8656052.46	8656052.61	8656052.76	0.0133	0.0044
Venus	18987-07-05 14:38 G	8656105.03	8656105.11	8656105.20	0.0133	0.0121
Mercury	18987-08-10 06:57 G	8656140.64	8656140.79	8656140.95	0.0133	0.0026
Mercury	18987-11-06 11:16 G	8656228.82	8656228.97	8656229.13	0.0133	0.0007
Mercury	18988-02-02 15:36 G	8656317.00	8656317.15	8656317.31	0.0133	0.0012
Mercury	18988-04-30 19:55 G	8656405.18	8656405.33	8656405.48	0.0133	0.0030
Mercury	18988-07-28 00:00 G	8656493.36	8656493.50	8656493.65	0.0133	0.0048
Mercury	18988-10-24 04:04 G	8656581.55	8656581.67	8656581.81	0.0133	0.0067
Mercury	18989-01-20 08:24 G	8656669.74	8656669.85	8656669.97	0.0133	0.0084
Mercury	18989-04-18 12:28 G	8656757.93	8656758.02	8656758.12	0.0133	0.0102
Mercury	18989-07-15 16:33 G	8656846.13	8656846.19	8656846.26	0.0133	0.0120

20TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 20th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	19001-09-21 06:43	G	8661295.61	8661295.78	8661295.99	0.0137	0.0100	
Mars	19003-08-21 21:21	G	8661995.11	8661995.39	8661995.67	0.0138	0.0028	
Earth	19017-10-08 12:43	G	8667156.88	8667157.03	8667157.22	0.0144	0.0104	
Moon	19017-10-08 15:50	G	8667156.99	8667157.16	8667157.35	0.0144	0.0104	*
Moon	19018-10-13 07:26	G	8667526.58	8667526.81	8667527.07	0.0144	0.0036	
Earth	19018-10-13 11:02	G	8667526.73	8667526.96	8667527.21	0.0144	0.0040	*
Earth	19019-10-18 09:21	G	8667896.65	8667896.89	8667897.15	0.0145	0.0026	
Moon	19019-10-18 12:57	G	8667896.79	8667897.04	8667897.30	0.0145	0.0018	*
Moon	19020-10-22 05:02	G	8668266.53	8668266.71	8668266.90	0.0145	0.0097	
Earth	19020-10-22 08:24	G	8668266.66	8668266.85	8668267.06	0.0145	0.0090	*
Venus	19025-12-07 18:57	G	8670139.14	8670139.29	8670139.44	0.0145	0.0104	
Venus	19026-07-22 07:26	G	8670365.61	8670365.81	8670366.01	0.0145	0.0056	
Venus	19027-03-05 19:55	G	8670592.11	8670592.33	8670592.55	0.0145	0.0008	
Venus	19027-10-18 08:24	G	8670818.64	8670818.85	8670819.06	0.0145	0.0040	
Mercury	19028-02-27 12:57	G	8670950.97	8670951.04	8670951.13	0.0145	0.0124	
Mercury	19028-05-25 18:28	G	8671039.16	8671039.27	8671039.39	0.0145	0.0100	
Venus	19028-05-31 20:38	G	8671045.20	8671045.36	8671045.54	0.0145	0.0088	
Mercury	19028-08-21 23:45	G	8671127.37	8671127.49	8671127.63	0.0145	0.0077	
Mercury	19028-11-18 05:16	G	8671215.58	8671215.72	8671215.88	0.0145	0.0053	
Venus	19029-01-13 09:07	G	8671271.81	8671271.88	8671271.97	0.0145	0.0136	

Mercury	19029-02-14 11:02 G	8671303.80	8671303.96	8671304.12	0.0145	0.0027
Mercury	19029-05-13 16:33 G	8671392.04	8671392.19	8671392.35	0.0145	0.0005
Mercury	19029-08-09 22:19 G	8671480.27	8671480.43	8671480.59	0.0145	0.0022
Mercury	19029-11-06 03:50 G	8671568.52	8671568.66	8671568.82	0.0145	0.0047
Mercury	19030-02-02 09:36 G	8671656.77	8671656.90	8671657.05	0.0145	0.0072
Mercury	19030-05-01 15:21 G	8671745.03	8671745.14	8671745.27	0.0145	0.0098
Mercury	19030-07-28 21:07 G	8671833.31	8671833.38	8671833.48	0.0145	0.0124
Mars	19042-03-27 11:02 G	8676092.67	8676092.96	8676093.29	0.0141	0.0055
Mars	19044-03-02 14:52 G	8676798.96	8676799.12	8676799.34	0.0140	0.0115
Earth	19058-04-09 03:50 G	8681949.49	8681949.66	8681949.86	0.0134	0.0092
Moon	19058-04-09 05:16 G	8681949.56	8681949.72	8681949.93	0.0134	0.0096 *
Moon	19059-04-13 12:00 G	8682318.76	8682319.00	8682319.24	0.0134	0.0033
Earth	19059-04-13 13:55 G	8682318.85	8682319.08	8682319.34	0.0134	0.0039 *
Earth	19060-04-16 23:31 G	8682688.23	8682688.48	8682688.74	0.0134	0.0014
Moon	19060-04-17 01:55 G	8682688.32	8682688.58	8682688.84	0.0134	0.0006 *
Moon	19061-04-21 06:14 G	8683057.57	8683057.76	8683057.99	0.0134	0.0072
Earth	19061-04-21 08:38 G	8683057.65	8683057.86	8683058.10	0.0134	0.0066 *
Earth	19062-04-25 17:31 G	8683427.12	8683427.23	8683427.36	0.0134	0.0117
Moon	19062-04-25 20:09 G	8683427.22	8683427.34	8683427.50	0.0134	0.0114 *
Venus	19067-06-17 18:57 G	8685306.17	8685306.29	8685306.41	0.0133	0.0111
Venus	19068-01-30 00:00 G	8685532.33	8685532.50	8685532.69	0.0133	0.0075
Venus	19068-09-12 05:16 G	8685758.52	8685758.72	8685758.93	0.0133	0.0039
Venus	19069-04-26 10:33 G	8685984.72	8685984.94	8685985.16	0.0133	0.0002
Venus	19069-12-08 15:36 G	8686210.94	8686211.15	8686211.36	0.0133	0.0034
Mercury	19070-03-20 12:00 G	8686312.99	8686313.00	8686313.01	0.0133	0.0132
Mercury	19070-06-16 16:19 G	8686401.11	8686401.18	8686401.27	0.0133	0.0113
Venus	19070-07-22 20:24 G	8686437.18	8686437.35	8686437.55	0.0133	0.0071
Mercury	19070-09-12 20:52 G	8686489.27	8686489.37	8686489.48	0.0133	0.0094
Mercury	19070-12-10 01:26 G	8686577.43	8686577.56	8686577.69	0.0133	0.0075
Venus	19071-03-06 01:40 G	8686663.46	8686663.57	8686663.72	0.0133	0.0107

Mercury	19071-03-08 05:45 G	8686665.60	8686665.74	8686665.89	0.0133	0.0056
Mercury	19071-06-04 10:04 G	8686753.78	8686753.92	8686754.08	0.0133	0.0038
Mercury	19071-08-31 14:38 G	8686841.96	8686842.11	8686842.26	0.0133	0.0019
Mercury	19071-11-27 18:57 G	8686930.13	8686930.29	8686930.44	0.0133	0.0001
Mercury	19072-02-23 23:16 G	8687018.31	8687018.47	8687018.62	0.0133	0.0018
Mercury	19072-05-22 03:21 G	8687106.50	8687106.64	8687106.79	0.0133	0.0036
Mercury	19072-08-18 07:40 G	8687194.68	8687194.82	8687194.96	0.0133	0.0054
Mercury	19072-11-14 11:45 G	8687282.87	8687282.99	8687283.12	0.0133	0.0072
Mercury	19073-02-10 15:50 G	8687371.06	8687371.16	8687371.28	0.0133	0.0090
Mercury	19073-05-09 19:55 G	8687459.25	8687459.33	8687459.43	0.0133	0.0108
Mercury	19073-08-06 00:14 G	8687547.46	8687547.51	8687547.56	0.0133	0.0126
Mars	19086-05-16 16:19 G	8692213.92	8692214.18	8692214.45	0.0137	0.0047
Mars	19088-04-15 08:52 G	8692913.66	8692913.87	8692914.12	0.0138	0.0083
Earth	19101-10-10 00:57 G	8697838.37	8697838.54	8697838.73	0.0144	0.0100
Moon	19101-10-10 04:04 G	8697838.49	8697838.67	8697838.86	0.0144	0.0099 *
Moon	19102-10-14 20:24 G	8698208.12	8698208.35	8698208.60	0.0144	0.0039
Earth	19102-10-14 23:31 G	8698208.23	8698208.48	8698208.72	0.0144	0.0036 *
Earth	19103-10-19 21:36 G	8698578.17	8698578.40	8698578.66	0.0145	0.0030
Moon	19103-10-20 01:26 G	8698578.31	8698578.56	8698578.81	0.0145	0.0037 *
Moon	19104-10-23 17:02 G	8698948.03	8698948.21	8698948.42	0.0145	0.0087
Earth	19104-10-23 20:24 G	8698948.18	8698948.35	8698948.56	0.0145	0.0095 *
Venus	19109-08-08 02:09 G	8700697.49	8700697.59	8700697.72	0.0145	0.0124
Venus	19110-03-22 14:52 G	8700923.94	8700924.12	8700924.31	0.0145	0.0076
Venus	19110-11-04 03:21 G	8701150.43	8701150.64	8701150.86	0.0145	0.0028
Venus	19111-06-18 15:50 G	8701376.95	8701377.16	8701377.38	0.0145	0.0020
Mercury	19111-12-22 15:21 G	8701564.11	8701564.14	8701564.19	0.0145	0.0140
Venus	19112-01-31 04:19 G	8701603.49	8701603.68	8701603.87	0.0145	0.0068
Mercury	19112-03-19 20:52 G	8701652.28	8701652.37	8701652.47	0.0145	0.0116
Mercury	19112-06-16 02:09 G	8701740.48	8701740.59	8701740.72	0.0145	0.0092
Mercury	19112-09-12 07:55 G	8701828.69	8701828.83	8701828.97	0.0145	0.0068

Venus	19112-09-13 16:48 G	8701830.08	8701830.20	8701830.34	0.0145	0.0115
Mercury	19112-12-09 13:26 G	8701916.91	8701917.06	8701917.21	0.0145	0.0044
Mercury	19113-03-07 18:57 G	8702005.13	8702005.29	8702005.45	0.0145	0.0019
Mercury	19113-06-04 00:28 G	8702093.36	8702093.52	8702093.68	0.0145	0.0006
Mercury	19113-08-31 06:14 G	8702181.60	8702181.76	8702181.91	0.0145	0.0031
Mercury	19113-11-27 11:45 G	8702269.85	8702269.99	8702270.14	0.0145	0.0056
Mercury	19114-02-23 17:31 G	8702358.10	8702358.23	8702358.37	0.0145	0.0081
Mercury	19114-05-22 23:16 G	8702446.37	8702446.47	8702446.58	0.0145	0.0106
Mercury	19114-08-19 05:02 G	8702534.65	8702534.71	8702534.78	0.0145	0.0132
Mars	19126-11-23 00:14 G	8707013.18	8707013.51	8707013.85	0.0141	0.0017
Jupiter	19138-05-08 06:00 G	8711197.26	8711197.75	8711198.27	0.0136	0.0041
Earth	19142-04-10 16:33 G	8712631.01	8712631.19	8712631.39	0.0134	0.0088
Moon	19142-04-10 18:14 G	8712631.06	8712631.26	8712631.48	0.0134	0.0083 *
Moon	19143-04-15 01:26 G	8713000.32	8713000.56	8713000.79	0.0134	0.0041
Earth	19143-04-15 02:38 G	8713000.36	8713000.61	8713000.86	0.0134	0.0035 *
Earth	19144-04-18 12:00 G	8713369.75	8713370.00	8713370.26	0.0134	0.0018
Moon	19144-04-18 13:55 G	8713369.82	8713370.08	8713370.34	0.0134	0.0024 *
Moon	19145-04-22 18:57 G	8713739.09	8713739.29	8713739.53	0.0134	0.0064
Earth	19145-04-22 21:07 G	8713739.17	8713739.38	8713739.61	0.0134	0.0070 *
Earth	19146-04-27 05:16 G	8714108.64	8714108.72	8714108.85	0.0134	0.0122
Moon	19146-04-27 07:40 G	8714108.74	8714108.82	8714108.92	0.0134	0.0125 *
Venus	19151-02-16 06:14 G	8715864.70	8715864.76	8715864.84	0.0133	0.0125
Venus	19151-09-30 11:31 G	8716090.82	8716090.98	8716091.15	0.0133	0.0089
Venus	19152-05-13 16:33 G	8716317.00	8716317.19	8716317.40	0.0133	0.0053
Venus	19152-12-25 21:50 G	8716543.19	8716543.41	8716543.63	0.0133	0.0017
Venus	19153-08-09 02:52 G	8716769.41	8716769.62	8716769.84	0.0133	0.0020
Venus	19154-03-23 07:55 G	8716995.64	8716995.83	8716996.04	0.0133	0.0056
Mercury	19154-04-10 19:12 G	8717014.27	8717014.30	8717014.36	0.0133	0.0126
Mercury	19154-07-07 23:45 G	8717102.41	8717102.49	8717102.59	0.0133	0.0107
Mercury	19154-10-04 04:19 G	8717190.57	8717190.68	8717190.81	0.0133	0.0088

Venus	19154-11-04 12:57 G	8717221.90	8717222.04	8717222.21	0.0133	0.0092
Mercury	19154-12-31 08:52 G	8717278.74	8717278.87	8717279.01	0.0133	0.0069
Mercury	19155-03-29 13:12 G	8717366.91	8717367.05	8717367.20	0.0133	0.0050
Venus	19155-06-18 18:00 G	8717448.21	8717448.25	8717448.32	0.0133	0.0128
Mercury	19155-06-25 17:45 G	8717455.09	8717455.24	8717455.39	0.0133	0.0031
Mercury	19155-09-21 22:04 G	8717543.27	8717543.42	8717543.58	0.0133	0.0013
Mercury	19155-12-19 02:24 G	8717631.45	8717631.60	8717631.76	0.0133	0.0006
Mercury	19156-03-16 06:43 G	8717719.63	8717719.78	8717719.93	0.0133	0.0024
Mercury	19156-06-12 10:48 G	8717807.81	8717807.95	8717808.10	0.0133	0.0042
Mercury	19156-09-08 15:07 G	8717895.99	8717896.13	8717896.27	0.0133	0.0060
Mercury	19156-12-05 19:12 G	8717984.18	8717984.30	8717984.43	0.0133	0.0078
Mercury	19157-03-03 23:16 G	8718072.37	8718072.47	8718072.58	0.0133	0.0096
Mercury	19157-05-31 03:21 G	8718160.57	8718160.64	8718160.73	0.0133	0.0114
Mercury	19157-08-27 07:26 G	8718248.80	8718248.81	8718248.84	0.0133	0.0132
Mars	19169-02-09 12:00 G	8722432.91	8722433.00	8722433.15	0.0137	0.0123
Mars	19171-01-10 00:00 G	8723132.22	8723132.50	8723132.78	0.0137	0.0005
Mars	19172-12-09 18:57 G	8723832.28	8723832.29	8723832.35	0.0138	0.0138
Earth	19185-10-10 11:02 G	8728519.78	8728519.96	8728520.15	0.0144	0.0097
Moon	19185-10-10 12:57 G	8728519.86	8728520.04	8728520.25	0.0144	0.0096 *
Moon	19186-10-15 06:28 G	8728889.54	8728889.77	8728890.02	0.0144	0.0030
Earth	19186-10-15 09:21 G	8728889.65	8728889.89	8728890.14	0.0144	0.0033 *
Earth	19187-10-20 07:55 G	8729259.59	8729259.83	8729260.08	0.0145	0.0033
Moon	19187-10-20 11:02 G	8729259.70	8729259.96	8729260.21	0.0145	0.0026 *
Moon	19188-10-24 03:36 G	8729629.49	8729629.65	8729629.83	0.0145	0.0105
Earth	19188-10-24 06:57 G	8729629.62	8729629.79	8729629.99	0.0145	0.0098 *
Venus	19193-04-07 09:07 G	8731255.85	8731255.88	8731255.91	0.0145	0.0144
Venus	19193-11-19 21:21 G	8731482.24	8731482.39	8731482.56	0.0146	0.0097
Venus	19194-07-04 10:04 G	8731708.72	8731708.92	8731709.13	0.0146	0.0049
Venus	19195-02-15 22:33 G	8731935.22	8731935.44	8731935.66	0.0146	0.0002
Venus	19195-09-30 11:02 G	8732161.76	8732161.96	8732162.17	0.0146	0.0047

Mercury	19196-01-11 23:02 G	8732265.41	8732265.46	8732265.53	0.0146	0.0133
Mercury	19196-04-09 04:33 G	8732353.59	8732353.69	8732353.80	0.0146	0.0109
Venus	19196-05-13 23:31 G	8732388.32	8732388.48	8732388.65	0.0146	0.0095
Mercury	19196-07-06 09:50 G	8732441.79	8732441.91	8732442.05	0.0146	0.0085
Mercury	19196-10-02 15:21 G	8732530.00	8732530.14	8732530.29	0.0145	0.0061
Venus	19196-12-26 11:45 G	8732614.96	8732614.99	8732615.05	0.0145	0.0143
Mercury	19196-12-29 20:52 G	8732618.22	8732618.37	8732618.53	0.0145	0.0036
Mercury	19197-03-28 02:38 G	8732706.45	8732706.61	8732706.77	0.0145	0.0012
Mercury	19197-06-24 08:09 G	8732794.68	8732794.84	8732795.00	0.0145	0.0013
Mercury	19197-09-20 13:40 G	8732882.92	8732883.07	8732883.23	0.0145	0.0039
Mercury	19197-12-17 19:26 G	8732971.17	8732971.31	8732971.46	0.0145	0.0064
Mercury	19198-03-16 01:12 G	8733059.43	8733059.55	8733059.68	0.0145	0.0089
Mercury	19198-06-12 06:57 G	8733147.70	8733147.79	8733147.89	0.0145	0.0114
Mercury	19198-09-08 12:57 G	8733236.00	8733236.04	8733236.08	0.0145	0.0140
Mars	19209-08-13 02:38 G	8737227.35	8737227.61	8737227.89	0.0142	0.0086
Mars	19211-07-20 12:00 G	8737933.76	8737934.00	8737934.28	0.0141	0.0089
Earth	19226-04-11 05:16 G	8743312.54	8743312.72	8743312.94	0.0134	0.0084
Moon	19226-04-11 06:00 G	8743312.56	8743312.75	8743312.96	0.0134	0.0086 *
Moon	19227-04-15 14:24 G	8743681.86	8743682.10	8743682.35	0.0134	0.0025
Earth	19227-04-15 15:36 G	8743681.90	8743682.15	8743682.40	0.0134	0.0030 *
Earth	19228-04-19 00:57 G	8744051.29	8744051.54	8744051.80	0.0134	0.0022
Moon	19228-04-19 02:09 G	8744051.33	8744051.59	8744051.85	0.0134	0.0015 *
Moon	19229-04-23 08:38 G	8744420.68	8744420.86	8744421.07	0.0134	0.0081
Earth	19229-04-23 09:50 G	8744420.71	8744420.91	8744421.14	0.0134	0.0075 *
Earth	19230-04-27 18:43 G	8744790.21	8744790.28	8744790.37	0.0133	0.0126
Moon	19230-04-27 20:09 G	8744790.25	8744790.34	8744790.47	0.0133	0.0122 *
Venus	19235-05-30 23:02 G	8746649.34	8746649.46	8746649.61	0.0133	0.0103
Venus	19236-01-12 04:19 G	8746875.50	8746875.68	8746875.88	0.0133	0.0067
Venus	19236-08-25 09:36 G	8747101.69	8747101.90	8747102.12	0.0133	0.0031
Venus	19237-04-08 14:52 G	8747327.90	8747328.12	8747328.34	0.0133	0.0006

Venus	19237-11-20 19:40 G	8747554.12	8747554.32	8747554.54	0.0133	0.0042
Mercury	19238-05-01 02:52 G	8747715.57	8747715.62	8747715.70	0.0133	0.0119
Venus	19238-07-05 00:43 G	8747780.36	8747780.53	8747780.72	0.0133	0.0078
Mercury	19238-07-28 07:26 G	8747803.72	8747803.81	8747803.93	0.0133	0.0100
Mercury	19238-10-24 12:00 G	8747891.88	8747892.00	8747892.13	0.0133	0.0081
Mercury	19239-01-20 16:33 G	8747980.06	8747980.19	8747980.33	0.0133	0.0062
Venus	19239-02-16 05:45 G	8748006.64	8748006.74	8748006.86	0.0133	0.0114
Mercury	19239-04-18 20:52 G	8748068.23	8748068.37	8748068.52	0.0133	0.0043
Mercury	19239-07-16 01:26 G	8748156.41	8748156.56	8748156.71	0.0133	0.0024
Mercury	19239-10-12 05:45 G	8748244.58	8748244.74	8748244.89	0.0133	0.0006
Mercury	19240-01-08 10:04 G	8748332.76	8748332.92	8748333.07	0.0133	0.0013
Mercury	19240-04-05 14:09 G	8748420.95	8748421.09	8748421.25	0.0133	0.0031
Mercury	19240-07-02 18:28 G	8748509.13	8748509.27	8748509.42	0.0133	0.0049
Mercury	19240-09-28 22:33 G	8748597.32	8748597.44	8748597.58	0.0133	0.0067
Mercury	19240-12-26 02:38 G	8748685.51	8748685.61	8748685.74	0.0133	0.0086
Mercury	19241-03-24 06:43 G	8748773.70	8748773.78	8748773.89	0.0133	0.0104
Mercury	19241-06-20 11:02 G	8748861.90	8748861.96	8748862.03	0.0133	0.0121
Mars	19253-10-04 20:24 G	8753351.13	8753351.35	8753351.61	0.0137	0.0071
Mars	19255-09-04 10:48 G	8754050.70	8754050.95	8754051.21	0.0138	0.0059
Earth	19269-10-10 22:04 G	8759201.25	8759201.42	8759201.63	0.0144	0.0094
Moon	19269-10-11 00:00 G	8759201.32	8759201.50	8759201.71	0.0144	0.0095 *
Moon	19270-10-15 18:57 G	8759571.05	8759571.29	8759571.53	0.0144	0.0031
Earth	19270-10-15 20:38 G	8759571.12	8759571.36	8759571.61	0.0144	0.0029 *
Earth	19271-10-20 19:26 G	8759941.07	8759941.31	8759941.55	0.0145	0.0036
Moon	19271-10-20 22:19 G	8759941.18	8759941.43	8759941.68	0.0145	0.0043 *
Moon	19272-10-24 15:21 G	8760310.97	8760311.14	8760311.34	0.0145	0.0094
Earth	19272-10-24 18:14 G	8760311.09	8760311.26	8760311.45	0.0145	0.0102 *
Venus	19277-07-20 04:19 G	8762040.56	8762040.68	8762040.81	0.0146	0.0117
Venus	19278-03-03 16:33 G	8762267.02	8762267.19	8762267.40	0.0146	0.0070
Venus	19278-10-16 05:31 G	8762493.52	8762493.73	8762493.95	0.0146	0.0021

Venus	19279-05-30 18:00 G	8762720.04	8762720.25	8762720.47	0.0146	0.0027
Venus	19280-01-12 06:14 G	8762946.59	8762946.76	8762946.96	0.0146	0.0075
Mercury	19280-02-01 06:43 G	8762966.71	8762966.78	8762966.87	0.0146	0.0125
Mercury	19280-04-29 12:14 G	8763054.90	8763055.01	8763055.12	0.0146	0.0101
Mercury	19280-07-26 17:45 G	8763143.11	8763143.24	8763143.37	0.0146	0.0077
Venus	19280-08-25 18:57 G	8763173.18	8763173.29	8763173.41	0.0146	0.0122
Mercury	19280-10-22 23:02 G	8763231.32	8763231.46	8763231.61	0.0146	0.0053
Mercury	19281-01-19 04:33 G	8763319.54	8763319.69	8763319.85	0.0146	0.0029
Mercury	19281-04-17 10:19 G	8763407.77	8763407.93	8763408.09	0.0145	0.0004
Mercury	19281-07-14 15:50 G	8763496.00	8763496.16	8763496.32	0.0145	0.0021
Mercury	19281-10-10 21:21 G	8763584.25	8763584.39	8763584.55	0.0145	0.0046
Mercury	19282-01-07 03:07 G	8763672.49	8763672.63	8763672.77	0.0145	0.0071
Mercury	19282-04-05 08:52 G	8763760.75	8763760.87	8763760.99	0.0145	0.0097
Mercury	19282-07-02 14:38 G	8763849.03	8763849.11	8763849.20	0.0145	0.0122
Mars	19294-04-09 17:16 G	8768147.89	8768148.22	8768148.57	0.0141	0.0013
Earth	19309-04-08 08:09 G	8773624.81	8773624.84	8773624.91	0.0135	0.0132
Moon	19309-04-08 08:24 G	8773624.82	8773624.85	8773624.93	0.0135	0.0132 *
Earth	19310-04-12 18:43 G	8773994.08	8773994.28	8773994.49	0.0134	0.0079
Moon	19310-04-12 18:57 G	8773994.09	8773994.29	8773994.53	0.0134	0.0075 *
Earth	19311-04-17 04:19 G	8774363.44	8774363.68	8774363.95	0.0134	0.0027
Moon	19311-04-17 04:19 G	8774363.45	8774363.68	8774363.93	0.0134	0.0031 *
Earth	19312-04-20 13:55 G	8774732.84	8774733.08	8774733.34	0.0134	0.0027
Moon	19312-04-20 14:38 G	8774732.86	8774733.11	8774733.37	0.0134	0.0033 *
Moon	19313-04-24 22:04 G	8775102.23	8775102.42	8775102.64	0.0134	0.0073
Earth	19313-04-24 23:16 G	8775102.26	8775102.47	8775102.67	0.0134	0.0079 *
Earth	19314-04-29 07:26 G	8775471.78	8775471.81	8775471.88	0.0133	0.0131
Venus	19319-01-29 11:02 G	8777207.87	8777207.96	8777208.07	0.0133	0.0116
Venus	19319-09-12 16:19 G	8777434.01	8777434.18	8777434.36	0.0133	0.0080
Venus	19320-04-25 21:36 G	8777660.19	8777660.40	8777660.60	0.0133	0.0044
Venus	19320-12-08 02:24 G	8777886.39	8777886.60	8777886.82	0.0133	0.0009

Venus	19321-07-22 07:26 G	8778112.60	8778112.81	8778113.03	0.0133	0.0028
Mercury	19322-02-23 06:00 G	8778328.74	8778328.75	8778328.79	0.0133	0.0131
Venus	19322-03-05 12:28 G	8778338.84	8778339.02	8778339.22	0.0133	0.0064
Mercury	19322-05-22 10:48 G	8778416.87	8778416.95	8778417.04	0.0133	0.0111
Mercury	19322-08-18 15:21 G	8778505.03	8778505.14	8778505.25	0.0133	0.0092
Venus	19322-10-17 17:16 G	8778565.10	8778565.22	8778565.38	0.0133	0.0100
Mercury	19322-11-14 19:40 G	8778593.20	8778593.32	8778593.46	0.0133	0.0074
Mercury	19323-02-11 00:14 G	8778681.37	8778681.51	8778681.65	0.0133	0.0055
Mercury	19323-05-10 04:33 G	8778769.54	8778769.69	8778769.85	0.0133	0.0036
Mercury	19323-08-06 08:52 G	8778857.72	8778857.87	8778858.03	0.0133	0.0018
Mercury	19323-11-02 13:26 G	8778945.90	8778946.06	8778946.21	0.0133	0.0003
Mercury	19324-01-29 17:31 G	8779034.08	8779034.23	8779034.39	0.0133	0.0020
Mercury	19324-04-26 21:50 G	8779122.27	8779122.41	8779122.56	0.0133	0.0038
Mercury	19324-07-24 01:55 G	8779210.45	8779210.58	8779210.73	0.0133	0.0056
Mercury	19324-10-20 06:14 G	8779298.64	8779298.76	8779298.89	0.0133	0.0074
Mercury	19325-01-16 10:19 G	8779386.83	8779386.93	8779387.05	0.0133	0.0092
Mercury	19325-04-14 14:38 G	8779475.03	8779475.11	8779475.20	0.0133	0.0109
Mercury	19325-07-11 18:28 G	8779563.24	8779563.27	8779563.32	0.0133	0.0127
Mars	19338-05-31 05:45 G	8784269.46	8784269.74	8784270.02	0.0137	0.0019
Mars	19340-04-29 20:24 G	8784969.21	8784969.35	8784969.53	0.0138	0.0113
Earth	19353-10-12 07:55 G	8789882.64	8789882.83	8789883.03	0.0144	0.0091
Moon	19353-10-12 08:38 G	8789882.66	8789882.86	8789883.07	0.0144	0.0088 *
Moon	19354-10-17 04:33 G	8790252.45	8790252.69	8790252.93	0.0144	0.0024
Earth	19354-10-17 06:14 G	8790252.52	8790252.76	8790253.02	0.0144	0.0027 *
Earth	19355-10-22 04:48 G	8790622.47	8790622.70	8790622.95	0.0145	0.0040
Moon	19355-10-22 06:43 G	8790622.54	8790622.78	8790623.04	0.0145	0.0034 *
Moon	19356-10-26 01:26 G	8790992.42	8790992.56	8790992.73	0.0145	0.0112
Earth	19356-10-26 04:04 G	8790992.51	8790992.67	8790992.86	0.0145	0.0105 *
Venus	19361-03-20 10:19 G	8792598.86	8792598.93	8792599.00	0.0146	0.0138
Venus	19361-11-01 22:33 G	8792825.28	8792825.44	8792825.62	0.0146	0.0091

Venus	19362-06-16 11:16 G	8793051.76	8793051.97	8793052.18	0.0146	0.0043
Venus	19363-01-28 23:45 G	8793278.27	8793278.49	8793278.71	0.0146	0.0005
Venus	19363-09-12 12:14 G	8793504.82	8793505.01	8793505.22	0.0146	0.0053
Mercury	19363-11-26 08:38 G	8793579.84	8793579.86	8793579.90	0.0146	0.0143
Mercury	19364-02-22 14:09 G	8793668.00	8793668.09	8793668.18	0.0146	0.0119
Venus	19364-04-26 00:57 G	8793731.38	8793731.54	8793731.70	0.0146	0.0100
Mercury	19364-05-20 19:26 G	8793756.20	8793756.31	8793756.43	0.0146	0.0095
Mercury	19364-08-17 00:57 G	8793844.41	8793844.54	8793844.68	0.0146	0.0071
Mercury	19364-11-13 06:28 G	8793932.62	8793932.77	8793932.92	0.0146	0.0047
Mercury	19365-02-09 12:00 G	8794020.84	8794021.00	8794021.16	0.0146	0.0022
Mercury	19365-05-08 17:31 G	8794109.07	8794109.23	8794109.39	0.0146	0.0003
Mercury	19365-08-04 23:02 G	8794197.31	8794197.46	8794197.62	0.0146	0.0028
Mercury	19365-11-01 04:48 G	8794285.55	8794285.70	8794285.85	0.0145	0.0052
Mercury	19366-01-28 10:33 G	8794373.80	8794373.94	8794374.07	0.0145	0.0078
Mercury	19366-04-26 16:04 G	8794462.07	8794462.17	8794462.29	0.0145	0.0103
Mercury	19366-07-23 21:50 G	8794550.35	8794550.41	8794550.49	0.0145	0.0129
Mars	19376-12-29 13:26 G	8798361.91	8798362.06	8798362.27	0.0142	0.0120
Mars	19378-12-06 04:48 G	8799068.41	8799068.70	8799069.02	0.0141	0.0059
Earth	19393-04-08 21:50 G	8804306.35	8804306.41	8804306.51	0.0135	0.0127
Moon	19393-04-08 22:04 G	8804306.37	8804306.42	8804306.52	0.0135	0.0128 *
Moon	19394-04-13 07:12 G	8804675.60	8804675.80	8804676.03	0.0134	0.0076
Earth	19394-04-13 08:09 G	8804675.64	8804675.84	8804676.06	0.0134	0.0074 *
Moon	19395-04-17 18:14 G	8805045.01	8805045.26	8805045.51	0.0134	0.0016
Earth	19395-04-17 18:00 G	8805045.01	8805045.25	8805045.51	0.0134	0.0021 *
Moon	19396-04-21 03:36 G	8805414.39	8805414.65	8805414.91	0.0134	0.0025
Earth	19396-04-21 03:36 G	8805414.41	8805414.65	8805414.90	0.0134	0.0032 *
Earth	19397-04-25 12:43 G	8805783.83	8805784.03	8805784.23	0.0134	0.0084
Moon	19397-04-25 12:14 G	8805783.85	8805784.01	8805784.21	0.0134	0.0091 *
Moon	19398-04-29 21:36 G	8806153.37	8806153.40	8806153.48	0.0133	0.0131
Venus	19402-09-29 23:31 G	8807766.44	8807766.48	8807766.53	0.0133	0.0129

Venus	19403-05-14 04:19 G	8807992.54	8807992.68	8807992.85	0.0133	0.0094
Venus	19403-12-26 09:36 G	8808218.71	8808218.90	8808219.10	0.0133	0.0058
Venus	19404-08-08 14:38 G	8808444.90	8808445.11	8808445.33	0.0133	0.0022
Venus	19405-03-22 19:55 G	8808671.12	8808671.33	8808671.55	0.0133	0.0014
Venus	19405-11-04 00:57 G	8808897.34	8808897.54	8808897.74	0.0133	0.0050
Mercury	19406-03-16 13:55 G	8809030.04	8809030.08	8809030.15	0.0133	0.0123
Mercury	19406-06-12 18:28 G	8809118.19	8809118.27	8809118.38	0.0133	0.0104
Venus	19406-06-18 05:45 G	8809123.58	8809123.74	8809123.91	0.0133	0.0086
Mercury	19406-09-08 23:02 G	8809206.35	8809206.46	8809206.59	0.0133	0.0085
Mercury	19406-12-06 03:36 G	8809294.52	8809294.65	8809294.79	0.0133	0.0066
Venus	19407-01-30 10:33 G	8809349.87	8809349.94	8809350.04	0.0133	0.0122
Mercury	19407-03-04 08:09 G	8809382.69	8809382.84	8809382.99	0.0133	0.0047
Mercury	19407-05-31 12:28 G	8809470.87	8809471.02	8809471.17	0.0133	0.0028
Mercury	19407-08-27 16:48 G	8809559.05	8809559.20	8809559.36	0.0133	0.0010
Mercury	19407-11-23 21:07 G	8809647.23	8809647.38	8809647.54	0.0133	0.0009
Mercury	19408-02-20 01:26 G	8809735.41	8809735.56	8809735.71	0.0133	0.0027
Mercury	19408-05-18 05:45 G	8809823.60	8809823.74	8809823.88	0.0133	0.0045
Mercury	19408-08-14 09:50 G	8809911.78	8809911.91	8809912.05	0.0133	0.0063
Mercury	19408-11-10 14:09 G	8809999.97	8810000.09	8810000.21	0.0133	0.0081
Mercury	19409-02-06 18:14 G	8810088.16	8810088.26	8810088.37	0.0133	0.0099
Mercury	19409-05-05 22:19 G	8810176.37	8810176.43	8810176.51	0.0133	0.0117
Mars	19421-02-24 07:12 G	8814488.61	8814488.80	8814489.02	0.0136	0.0093
Mars	19423-01-24 17:16 G	8815187.96	8815188.22	8815188.50	0.0137	0.0036
Earth	19437-10-13 20:09 G	8820564.15	8820564.34	8820564.56	0.0144	0.0087
Moon	19437-10-13 20:52 G	8820564.18	8820564.37	8820564.59	0.0144	0.0089 *
Moon	19438-10-18 18:00 G	8820934.01	8820934.25	8820934.50	0.0144	0.0023
Earth	19438-10-18 18:43 G	8820934.03	8820934.28	8820934.53	0.0144	0.0022 *
Earth	19439-10-23 17:31 G	8821303.99	8821304.23	8821304.47	0.0145	0.0044
Moon	19439-10-23 19:12 G	8821304.07	8821304.30	8821304.56	0.0145	0.0050 *
Moon	19440-10-27 14:38 G	8821673.96	8821674.11	8821674.30	0.0145	0.0103

Earth	19440-10-27 16:33 G	8821674.04	8821674.19	8821674.37	0.0145	0.0110	*
Venus	19445-07-03 05:45 G	8823383.61	8823383.74	8823383.89	0.0146	0.0111	
Venus	19446-02-14 18:14 G	8823610.07	8823610.26	8823610.47	0.0146	0.0064	
Venus	19446-09-29 06:57 G	8823836.58	8823836.79	8823837.01	0.0146	0.0016	
Venus	19447-05-13 19:26 G	8824063.10	8824063.31	8824063.53	0.0146	0.0032	
Mercury	19447-12-17 16:19 G	8824281.14	8824281.18	8824281.25	0.0146	0.0135	
Venus	19447-12-26 07:40 G	8824289.65	8824289.82	8824290.02	0.0146	0.0080	
Mercury	19448-03-14 21:50 G	8824369.32	8824369.41	8824369.51	0.0146	0.0111	
Mercury	19448-06-11 03:07 G	8824457.51	8824457.63	8824457.76	0.0146	0.0087	
Venus	19448-08-08 20:24 G	8824516.25	8824516.35	8824516.46	0.0146	0.0127	
Mercury	19448-09-07 08:38 G	8824545.72	8824545.86	8824546.00	0.0146	0.0063	
Mercury	19448-12-04 14:09 G	8824633.94	8824634.09	8824634.24	0.0146	0.0039	
Mercury	19449-03-02 19:40 G	8824722.17	8824722.32	8824722.48	0.0146	0.0014	
Mercury	19449-05-30 01:12 G	8824810.40	8824810.55	8824810.71	0.0146	0.0011	
Mercury	19449-08-26 06:57 G	8824898.63	8824898.79	8824898.94	0.0145	0.0035	
Mercury	19449-11-22 12:28 G	8824986.88	8824987.02	8824987.17	0.0145	0.0061	
Mercury	19450-02-18 18:14 G	8825075.13	8825075.26	8825075.39	0.0145	0.0086	
Mercury	19450-05-17 23:45 G	8825163.40	8825163.49	8825163.60	0.0145	0.0112	
Mercury	19450-08-14 05:45 G	8825251.69	8825251.74	8825251.80	0.0145	0.0137	
Mars	19461-08-27 05:16 G	8829282.41	8829282.72	8829283.05	0.0142	0.0046	
Mars	19463-08-03 15:36 G	8829989.06	8829989.15	8829989.30	0.0141	0.0131	
Earth	19477-04-10 11:16 G	8834987.87	8834987.97	8834988.08	0.0135	0.0122	
Moon	19477-04-10 12:28 G	8834987.93	8834988.02	8834988.15	0.0135	0.0121	*
Moon	19478-04-14 20:38 G	8835357.14	8835357.36	8835357.61	0.0135	0.0067	
Earth	19478-04-14 21:36 G	8835357.19	8835357.40	8835357.63	0.0135	0.0069	*
Earth	19479-04-19 07:40 G	8835726.56	8835726.82	8835727.07	0.0134	0.0016	
Moon	19479-04-19 08:38 G	8835726.62	8835726.86	8835727.11	0.0134	0.0020	*
Moon	19480-04-22 16:33 G	8836095.94	8836096.19	8836096.44	0.0134	0.0043	
Earth	19480-04-22 17:02 G	8836095.97	8836096.21	8836096.46	0.0134	0.0037	*
Earth	19481-04-27 02:09 G	8836465.41	8836465.59	8836465.79	0.0134	0.0090	

Moon	19481-04-27 02:24 G	8836465.42	8836465.60	8836465.81	0.0134	0.0083 *
Venus	19487-01-11 16:33 G	8838551.08	8838551.19	8838551.33	0.0133	0.0107
Venus	19487-08-25 21:50 G	8838777.23	8838777.41	8838777.60	0.0133	0.0071
Venus	19488-04-08 03:07 G	8839003.42	8839003.63	8839003.84	0.0133	0.0035
Venus	19488-11-20 08:09 G	8839229.62	8839229.84	8839230.06	0.0133	0.0001
Venus	19489-07-04 12:57 G	8839455.84	8839456.04	8839456.25	0.0133	0.0037
Venus	19490-02-15 17:45 G	8839682.07	8839682.24	8839682.44	0.0133	0.0073
Mercury	19490-04-05 22:04 G	8839731.35	8839731.42	8839731.50	0.0133	0.0115
Mercury	19490-07-03 02:24 G	8839819.50	8839819.60	8839819.72	0.0133	0.0096
Mercury	19490-09-29 06:57 G	8839907.67	8839907.79	8839907.93	0.0133	0.0077
Venus	19490-09-29 22:48 G	8839908.34	8839908.45	8839908.59	0.0133	0.0108
Mercury	19490-12-26 11:31 G	8839995.84	8839995.98	8839996.12	0.0133	0.0058
Mercury	19491-03-24 16:04 G	8840084.02	8840084.17	8840084.32	0.0133	0.0039
Mercury	19491-06-20 20:24 G	8840172.20	8840172.35	8840172.50	0.0133	0.0021
Mercury	19491-09-17 00:43 G	8840260.38	8840260.53	8840260.69	0.0133	0.0002
Mercury	19491-12-14 05:02 G	8840348.56	8840348.71	8840348.86	0.0133	0.0016
Mercury	19492-03-11 09:07 G	8840436.74	8840436.88	8840437.04	0.0133	0.0035
Mercury	19492-06-07 13:26 G	8840524.93	8840525.06	8840525.21	0.0133	0.0053
Mercury	19492-09-03 17:45 G	8840613.11	8840613.24	8840613.37	0.0133	0.0071
Mercury	19492-11-30 21:50 G	8840701.30	8840701.41	8840701.53	0.0133	0.0089
Mercury	19493-02-27 02:09 G	8840789.50	8840789.59	8840789.68	0.0133	0.0106
Mercury	19493-05-26 06:14 G	8840877.71	8840877.76	8840877.82	0.0133	0.0124
Mars	19505-10-20 16:48 G	8845406.94	8845407.20	8845407.48	0.0137	0.0040
Mars	19507-09-20 04:04 G	8846106.47	8846106.67	8846106.89	0.0137	0.0092
Moon	19521-10-15 07:40 G	8851245.61	8851245.82	8851246.04	0.0144	0.0078
Earth	19521-10-15 08:09 G	8851245.64	8851245.84	8851246.05	0.0144	0.0082 *
Moon	19522-10-20 06:00 G	8851615.51	8851615.75	8851616.00	0.0144	0.0016
Earth	19522-10-20 06:43 G	8851615.53	8851615.78	8851616.03	0.0144	0.0017 *
Earth	19523-10-25 05:16 G	8851985.49	8851985.72	8851985.96	0.0145	0.0048
Moon	19523-10-25 06:00 G	8851985.51	8851985.75	8851986.00	0.0145	0.0044 *

Moon	19524-10-29 02:38 G	8852355.50	8852355.61	8852355.76	0.0145	0.0122
Earth	19524-10-29 04:33 G	8852355.55	8852355.69	8852355.85	0.0145	0.0114 *
Venus	19529-03-03 12:28 G	8853941.94	8853942.02	8853942.12	0.0146	0.0132
Venus	19529-10-16 01:12 G	8854168.38	8854168.55	8854168.73	0.0146	0.0084
Venus	19530-05-30 13:40 G	8854394.86	8854395.07	8854395.28	0.0146	0.0037
Venus	19531-01-12 02:09 G	8854621.37	8854621.59	8854621.81	0.0146	0.0011
Venus	19531-08-26 14:38 G	8854847.92	8854848.11	8854848.31	0.0146	0.0059
Mercury	19532-01-08 00:00 G	8854982.44	8854982.50	8854982.58	0.0146	0.0128
Mercury	19532-04-05 05:31 G	8855070.62	8855070.73	8855070.84	0.0146	0.0104
Venus	19532-04-09 03:07 G	8855074.49	8855074.63	8855074.79	0.0146	0.0106
Mercury	19532-07-02 10:48 G	8855158.82	8855158.95	8855159.08	0.0146	0.0080
Mercury	19532-09-28 16:19 G	8855247.04	8855247.18	8855247.32	0.0146	0.0056
Mercury	19532-12-25 21:50 G	8855335.25	8855335.41	8855335.56	0.0146	0.0031
Mercury	19533-03-24 03:21 G	8855423.48	8855423.64	8855423.80	0.0146	0.0007
Mercury	19533-06-20 08:52 G	8855511.71	8855511.87	8855512.03	0.0146	0.0018
Mercury	19533-09-16 14:24 G	8855599.95	8855600.10	8855600.26	0.0146	0.0043
Mercury	19533-12-13 19:55 G	8855688.20	8855688.33	8855688.48	0.0146	0.0069
Mercury	19534-03-12 01:40 G	8855776.46	8855776.57	8855776.70	0.0145	0.0094
Mercury	19534-06-08 07:40 G	8855864.73	8855864.82	8855864.91	0.0145	0.0119
Mercury	19534-09-04 13:26 G	8855953.05	8855953.06	8855953.08	0.0145	0.0145
Mars	19546-04-24 19:40 G	8860202.99	8860203.32	8860203.65	0.0141	0.0028
Earth	19561-04-12 01:26 G	8865669.44	8865669.56	8865669.69	0.0135	0.0117
Moon	19561-04-12 02:38 G	8865669.51	8865669.61	8865669.74	0.0135	0.0119 *
Moon	19562-04-16 09:36 G	8866038.68	8866038.90	8866039.14	0.0135	0.0064
Earth	19562-04-16 11:31 G	8866038.77	8866038.98	8866039.22	0.0135	0.0064 *
Earth	19563-04-20 21:50 G	8866408.15	8866408.41	8866408.66	0.0134	0.0010
Moon	19563-04-20 22:48 G	8866408.21	8866408.45	8866408.70	0.0134	0.0006 *
Moon	19564-04-24 06:00 G	8866777.50	8866777.75	8866778.01	0.0134	0.0036
Earth	19564-04-24 07:12 G	8866777.57	8866777.80	8866778.05	0.0134	0.0043 *
Earth	19565-04-28 16:33 G	8867147.01	8867147.19	8867147.37	0.0134	0.0095

Moon	19565-04-28 17:16 G	8867147.08	8867147.22	8867147.40	0.0134	0.0102 *
Venus	19570-09-12 05:02 G	8869109.64	8869109.71	8869109.82	0.0133	0.0120
Venus	19571-04-26 10:19 G	8869335.77	8869335.93	8869336.11	0.0133	0.0084
Venus	19571-12-08 15:21 G	8869561.94	8869562.14	8869562.35	0.0133	0.0049
Venus	19572-07-21 20:24 G	8869788.14	8869788.35	8869788.57	0.0133	0.0013
Venus	19573-03-05 01:40 G	8870014.35	8870014.57	8870014.78	0.0133	0.0023
Venus	19573-10-17 06:28 G	8870240.58	8870240.77	8870240.97	0.0133	0.0059
Mercury	19574-01-29 01:26 G	8870344.52	8870344.56	8870344.61	0.0133	0.0126
Mercury	19574-04-27 06:00 G	8870432.66	8870432.75	8870432.85	0.0133	0.0107
Venus	19574-05-31 11:16 G	8870466.83	8870466.97	8870467.13	0.0133	0.0095
Mercury	19574-07-24 10:33 G	8870520.83	8870520.94	8870521.06	0.0133	0.0088
Mercury	19574-10-20 15:07 G	8870609.00	8870609.13	8870609.26	0.0133	0.0069
Venus	19575-01-12 16:19 G	8870693.15	8870693.18	8870693.22	0.0133	0.0130
Mercury	19575-01-16 19:26 G	8870697.17	8870697.31	8870697.46	0.0133	0.0050
Mercury	19575-04-15 00:00 G	8870785.35	8870785.50	8870785.65	0.0133	0.0031
Mercury	19575-07-12 04:19 G	8870873.53	8870873.68	8870873.84	0.0133	0.0013
Mercury	19575-10-08 08:38 G	8870961.71	8870961.86	8870962.02	0.0133	0.0006
Mercury	19576-01-04 12:57 G	8871049.89	8871050.04	8871050.20	0.0133	0.0024
Mercury	19576-04-01 17:02 G	8871138.07	8871138.21	8871138.37	0.0133	0.0043
Mercury	19576-06-28 21:21 G	8871226.26	8871226.39	8871226.53	0.0133	0.0061
Mercury	19576-09-25 01:40 G	8871314.45	8871314.57	8871314.70	0.0133	0.0079
Mercury	19576-12-22 05:45 G	8871402.65	8871402.74	8871402.85	0.0133	0.0097
Mercury	19577-03-20 10:04 G	8871490.85	8871490.92	8871491.00	0.0133	0.0114
Mercury	19577-06-16 13:55 G	8871579.08	8871579.08	8871579.11	0.0133	0.0133
Saturn	19586-09-08 18:57 G	8874949.79	8874950.29	8874950.88	0.0135	0.0073
Mars	19588-07-15 22:04 G	8875626.28	8875626.42	8875626.59	0.0136	0.0113
Mars	19590-06-15 05:16 G	8876325.44	8876325.72	8876326.00	0.0137	0.0016
Earth	19604-10-11 00:57 G	8881557.51	8881557.54	8881557.60	0.0143	0.0141
Moon	19604-10-11 02:24 G	8881557.53	8881557.60	8881557.69	0.0143	0.0135 *
Moon	19605-10-15 22:33 G	8881927.22	8881927.44	8881927.66	0.0144	0.0080

Earth	19605-10-15 22:48 G	8881927.25	8881927.45	8881927.68	0.0144	0.0077 *
Earth	19606-10-20 21:21 G	8882297.14	8882297.39	8882297.65	0.0144	0.0012
Moon	19606-10-20 21:50 G	8882297.17	8882297.41	8882297.66	0.0144	0.0011 *
Earth	19607-10-25 20:09 G	8882667.11	8882667.34	8882667.58	0.0145	0.0054
Moon	19607-10-25 20:52 G	8882667.14	8882667.37	8882667.62	0.0145	0.0059 *
Moon	19608-10-29 18:28 G	8883037.14	8883037.27	8883037.44	0.0145	0.0114
Earth	19608-10-29 19:12 G	8883037.18	8883037.30	8883037.46	0.0145	0.0121 *
Venus	19613-06-15 09:36 G	8884726.75	8884726.90	8884727.06	0.0146	0.0103
Venus	19614-01-27 22:04 G	8884953.22	8884953.42	8884953.62	0.0146	0.0056
Venus	19614-09-11 10:48 G	8885179.73	8885179.95	8885180.17	0.0146	0.0008
Venus	19615-04-25 23:02 G	8885406.26	8885406.46	8885406.68	0.0146	0.0040
Mercury	19615-11-01 02:52 G	8885595.60	8885595.62	8885595.66	0.0146	0.0142
Venus	19615-12-08 11:31 G	8885632.81	8885632.98	8885633.16	0.0146	0.0087
Mercury	19616-01-28 08:24 G	8885683.76	8885683.85	8885683.94	0.0146	0.0118
Mercury	19616-04-25 13:26 G	8885771.96	8885772.06	8885772.19	0.0146	0.0095
Venus	19616-07-21 23:45 G	8885859.43	8885859.49	8885859.59	0.0146	0.0135
Mercury	19616-07-22 18:57 G	8885860.16	8885860.29	8885860.43	0.0146	0.0071
Mercury	19616-10-19 00:28 G	8885948.37	8885948.52	8885948.67	0.0146	0.0046
Mercury	19617-01-15 06:00 G	8886036.60	8886036.75	8886036.91	0.0146	0.0022
Mercury	19617-04-13 11:31 G	8886124.82	8886124.98	8886125.14	0.0146	0.0003
Mercury	19617-07-10 17:02 G	8886213.06	8886213.21	8886213.37	0.0146	0.0028
Mercury	19617-10-06 22:48 G	8886301.30	8886301.45	8886301.60	0.0146	0.0053
Mercury	19618-01-03 04:19 G	8886389.55	8886389.68	8886389.82	0.0145	0.0078
Mercury	19618-04-01 10:04 G	8886477.81	8886477.92	8886478.04	0.0145	0.0104
Mercury	19618-06-28 15:36 G	8886566.09	8886566.15	8886566.24	0.0145	0.0130
Mars	19629-01-12 19:12 G	8890417.03	8890417.30	8890417.59	0.0142	0.0078
Mars	19630-12-20 12:00 G	8891123.78	8891124.00	8891124.24	0.0141	0.0103
Earth	19645-04-12 15:07 G	8896351.01	8896351.13	8896351.29	0.0135	0.0113
Moon	19645-04-12 17:45 G	8896351.11	8896351.24	8896351.39	0.0135	0.0110 *
Moon	19646-04-17 00:00 G	8896720.27	8896720.50	8896720.75	0.0135	0.0057

Earth	19646-04-17 01:55 G	8896720.36	8896720.58	8896720.82	0.0135	0.0059 *
Earth	19647-04-21 12:00 G	8897089.75	8897090.00	8897090.26	0.0134	0.0006
Moon	19647-04-21 14:09 G	8897089.84	8897090.09	8897090.34	0.0134	0.0009 *
Moon	19648-04-24 19:40 G	8897459.09	8897459.32	8897459.58	0.0134	0.0054
Earth	19648-04-24 21:36 G	8897459.17	8897459.40	8897459.64	0.0134	0.0048 *
Earth	19649-04-29 06:43 G	8897828.63	8897828.78	8897828.96	0.0134	0.0101
Moon	19649-04-29 08:09 G	8897828.68	8897828.84	8897829.03	0.0134	0.0094 *
Venus	19654-05-12 17:45 G	8899668.24	8899668.24	8899668.25	0.0133	0.0133
Venus	19654-12-24 22:48 G	8899894.31	8899894.45	8899894.60	0.0133	0.0097
Venus	19655-08-08 03:36 G	8900120.47	8900120.65	8900120.86	0.0133	0.0062
Venus	19656-03-21 09:07 G	8900346.67	8900346.88	8900347.10	0.0133	0.0026
Venus	19656-11-02 14:09 G	8900572.87	8900573.09	8900573.31	0.0133	0.0010
Venus	19657-06-16 18:57 G	8900799.09	8900799.29	8900799.50	0.0133	0.0046
Venus	19658-01-28 23:31 G	8901025.33	8901025.48	8901025.67	0.0133	0.0082
Mercury	19658-02-18 09:21 G	8901045.83	8901045.89	8901045.97	0.0133	0.0118
Mercury	19658-05-17 13:55 G	8901133.98	8901134.08	8901134.19	0.0133	0.0099
Mercury	19658-08-13 18:28 G	8901222.15	8901222.27	8901222.40	0.0133	0.0080
Venus	19658-09-12 04:48 G	8901251.61	8901251.70	8901251.81	0.0133	0.0117
Mercury	19658-11-09 23:02 G	8901310.32	8901310.46	8901310.60	0.0133	0.0061
Mercury	19659-02-06 03:36 G	8901398.50	8901398.65	8901398.80	0.0133	0.0042
Mercury	19659-05-05 07:55 G	8901486.68	8901486.83	8901486.99	0.0133	0.0023
Mercury	19659-08-01 12:14 G	8901574.86	8901575.01	8901575.17	0.0133	0.0006
Mercury	19659-10-28 16:48 G	8901663.04	8901663.20	8901663.35	0.0133	0.0014
Mercury	19660-01-24 20:52 G	8901751.22	8901751.37	8901751.53	0.0133	0.0032
Mercury	19660-04-22 01:12 G	8901839.41	8901839.55	8901839.70	0.0133	0.0050
Mercury	19660-07-19 05:16 G	8901927.60	8901927.72	8901927.86	0.0133	0.0069
Mercury	19660-10-15 09:36 G	8902015.79	8902015.90	8902016.02	0.0133	0.0087
Mercury	19661-01-11 13:55 G	8902103.99	8902104.08	8902104.17	0.0133	0.0104
Mercury	19661-04-09 18:00 G	8902192.20	8902192.25	8902192.31	0.0133	0.0122
Mars	19673-03-10 06:28 G	8906544.53	8906544.77	8906545.03	0.0136	0.0060

Mars	19675-02-07 15:36 G	8907243.92	8907244.15	8907244.40	0.0137	0.0072
Earth	19688-10-11 13:26 G	8912239.00	8912239.06	8912239.14	0.0143	0.0137
Moon	19689-10-16 09:36 G	8912608.68	8912608.90	8912609.14	0.0144	0.0068
Earth	19689-10-16 11:16 G	8912608.77	8912608.97	8912609.20	0.0144	0.0073 *
Earth	19690-10-21 10:04 G	8912978.67	8912978.92	8912979.17	0.0144	0.0007
Moon	19690-10-21 10:33 G	8912978.69	8912978.94	8912979.18	0.0144	0.0007 *
Moon	19691-10-26 08:09 G	8913348.61	8913348.84	8913349.09	0.0144	0.0055
Earth	19691-10-26 08:52 G	8913348.64	8913348.87	8913349.10	0.0144	0.0059 *
Earth	19692-10-30 07:55 G	8913718.71	8913718.83	8913718.96	0.0145	0.0125
Moon	19692-10-30 07:12 G	8913718.72	8913718.80	8913718.91	0.0145	0.0132 *
Venus	19697-02-12 16:48 G	8915285.09	8915285.20	8915285.32	0.0146	0.0123
Venus	19697-09-27 05:16 G	8915511.55	8915511.72	8915511.92	0.0146	0.0076
Venus	19698-05-11 18:00 G	8915738.04	8915738.25	8915738.46	0.0146	0.0028
Venus	19698-12-24 06:14 G	8915964.55	8915964.76	8915964.98	0.0146	0.0020
Venus	19699-08-07 18:57 G	8916191.10	8916191.29	8916191.48	0.0146	0.0067
Mercury	19699-11-21 10:48 G	8916296.90	8916296.95	8916297.01	0.0146	0.0134
Mercury	19700-02-17 16:04 G	8916385.08	8916385.17	8916385.28	0.0146	0.0110
Venus	19700-03-22 07:12 G	8916417.68	8916417.80	8916417.95	0.0146	0.0115
Mercury	19700-05-16 21:36 G	8916473.27	8916473.40	8916473.52	0.0146	0.0086
Mercury	19700-08-13 02:52 G	8916561.48	8916561.62	8916561.76	0.0146	0.0062
Mercury	19700-11-09 08:24 G	8916649.70	8916649.85	8916650.00	0.0146	0.0038
Mercury	19701-02-05 13:55 G	8916737.92	8916738.08	8916738.24	0.0146	0.0013
Mercury	19701-05-04 19:26 G	8916826.15	8916826.31	8916826.47	0.0146	0.0012
Mercury	19701-08-01 00:57 G	8916914.39	8916914.54	8916914.70	0.0146	0.0037
Mercury	19701-10-28 06:43 G	8917002.63	8917002.78	8917002.92	0.0146	0.0062
Mercury	19702-01-24 12:14 G	8917090.89	8917091.01	8917091.14	0.0146	0.0087
Mercury	19702-04-22 18:00 G	8917179.16	8917179.25	8917179.36	0.0145	0.0112
Mercury	19702-07-19 23:31 G	8917267.45	8917267.48	8917267.54	0.0145	0.0139
Mars	19713-09-10 13:26 G	8921337.72	8921338.06	8921338.40	0.0142	0.0003
Earth	19729-04-14 05:31 G	8927032.60	8927032.73	8927032.90	0.0135	0.0108

Moon	19729-04-14 08:09 G	8927032.71	8927032.84	8927033.00	0.0135	0.0110	*
Moon	19730-04-18 13:26 G	8927401.83	8927402.06	8927402.31	0.0134	0.0054	
Earth	19730-04-18 16:33 G	8927401.96	8927402.19	8927402.43	0.0134	0.0054	*
Earth	19731-04-23 02:38 G	8927771.35	8927771.61	8927771.87	0.0134	0.0000	
Moon	19731-04-23 04:48 G	8927771.45	8927771.70	8927771.95	0.0134	0.0004	*
Moon	19732-04-26 09:50 G	8928140.67	8928140.91	8928141.17	0.0134	0.0047	
Earth	19732-04-26 12:28 G	8928140.78	8928141.02	8928141.25	0.0134	0.0053	*
Earth	19733-04-30 21:21 G	8928510.25	8928510.39	8928510.56	0.0134	0.0106	
Moon	19733-04-30 23:16 G	8928510.36	8928510.47	8928510.62	0.0134	0.0113	*
Venus	19738-08-25 11:16 G	8930452.87	8930452.97	8930453.11	0.0133	0.0110	
Venus	19739-04-08 16:48 G	8930679.02	8930679.20	8930679.38	0.0133	0.0074	
Venus	19739-11-20 21:36 G	8930905.20	8930905.40	8930905.62	0.0133	0.0039	
Venus	19740-07-04 02:52 G	8931131.40	8931131.62	8931131.83	0.0133	0.0004	
Venus	19741-02-15 07:40 G	8931357.61	8931357.82	8931358.04	0.0133	0.0033	
Venus	19741-09-29 12:28 G	8931583.85	8931584.02	8931584.22	0.0133	0.0069	
Mercury	19741-12-13 12:43 G	8931659.01	8931659.03	8931659.08	0.0133	0.0129	
Mercury	19742-03-11 17:31 G	8931747.15	8931747.23	8931747.32	0.0133	0.0109	
Venus	19742-05-13 17:45 G	8931810.11	8931810.24	8931810.37	0.0133	0.0104	
Mercury	19742-06-07 22:04 G	8931835.31	8931835.42	8931835.54	0.0133	0.0090	
Mercury	19742-09-04 02:38 G	8931923.48	8931923.61	8931923.74	0.0133	0.0071	
Mercury	19742-12-01 07:12 G	8932011.65	8932011.80	8932011.94	0.0133	0.0052	
Mercury	19743-02-27 11:31 G	8932099.83	8932099.98	8932100.14	0.0133	0.0034	
Mercury	19743-05-26 16:04 G	8932188.01	8932188.17	8932188.32	0.0133	0.0015	
Mercury	19743-08-22 20:24 G	8932276.19	8932276.35	8932276.50	0.0133	0.0004	
Mercury	19743-11-19 00:43 G	8932364.38	8932364.53	8932364.68	0.0133	0.0022	
Mercury	19744-02-15 05:02 G	8932452.56	8932452.71	8932452.86	0.0133	0.0041	
Mercury	19744-05-13 09:07 G	8932540.75	8932540.88	8932541.03	0.0133	0.0059	
Mercury	19744-08-09 13:26 G	8932628.94	8932629.06	8932629.19	0.0133	0.0077	
Mercury	19744-11-05 17:31 G	8932717.13	8932717.23	8932717.35	0.0133	0.0095	
Mercury	19745-02-01 21:36 G	8932805.34	8932805.40	8932805.49	0.0133	0.0113	

Mercury	19745-05-01 01:55 G	8932893.56	8932893.58	8932893.62	0.0133	0.0130
Mars	19755-12-05 11:31 G	8936763.98	8936763.98	8936764.05	0.0136	0.0135
Mars	19757-11-03 16:33 G	8937462.91	8937463.19	8937463.48	0.0137	0.0006
Mars	19759-10-04 05:02 G	8938162.63	8938162.71	8938162.82	0.0137	0.0129
Earth	19772-10-13 02:52 G	8942920.55	8942920.62	8942920.74	0.0143	0.0133
Moon	19772-10-13 05:31 G	8942920.63	8942920.73	8942920.86	0.0143	0.0126 *
Moon	19773-10-17 23:16 G	8943290.26	8943290.47	8943290.71	0.0144	0.0073
Earth	19773-10-18 01:12 G	8943290.34	8943290.55	8943290.78	0.0144	0.0068 *
Earth	19774-10-22 23:45 G	8943660.23	8943660.49	8943660.74	0.0144	0.0003
Moon	19774-10-23 01:12 G	8943660.31	8943660.55	8943660.80	0.0144	0.0003 *
Moon	19775-10-27 21:50 G	8944030.19	8944030.41	8944030.65	0.0145	0.0067
Earth	19775-10-27 22:33 G	8944030.22	8944030.44	8944030.67	0.0145	0.0064 *
Earth	19776-10-31 21:50 G	8944400.30	8944400.41	8944400.52	0.0145	0.0130
Moon	19776-10-31 21:50 G	8944400.30	8944400.41	8944400.55	0.0145	0.0124 *
Venus	19780-10-14 01:12 G	8945843.50	8945843.55	8945843.60	0.0146	0.0141
Venus	19781-05-28 13:40 G	8946069.90	8946070.07	8946070.23	0.0146	0.0094
Venus	19782-01-10 01:55 G	8946296.38	8946296.58	8946296.79	0.0146	0.0047
Venus	19782-08-24 14:38 G	8946522.90	8946523.11	8946523.33	0.0146	0.0002
Venus	19783-04-08 03:21 G	8946749.43	8946749.64	8946749.84	0.0146	0.0048
Venus	19783-11-20 15:36 G	8946976.00	8946976.15	8946976.32	0.0146	0.0096
Mercury	19783-12-12 18:57 G	8946998.22	8946998.29	8946998.37	0.0146	0.0124
Mercury	19784-03-10 00:14 G	8947086.41	8947086.51	8947086.63	0.0146	0.0100
Mercury	19784-06-06 05:31 G	8947174.61	8947174.73	8947174.87	0.0146	0.0077
Venus	19784-07-04 04:04 G	8947202.64	8947202.67	8947202.72	0.0146	0.0143
Mercury	19784-09-02 11:02 G	8947262.82	8947262.96	8947263.11	0.0146	0.0052
Mercury	19784-11-29 16:33 G	8947351.04	8947351.19	8947351.35	0.0146	0.0028
Mercury	19785-02-25 22:04 G	8947439.27	8947439.42	8947439.58	0.0146	0.0004
Mercury	19785-05-25 03:36 G	8947527.50	8947527.65	8947527.81	0.0146	0.0022
Mercury	19785-08-21 09:21 G	8947615.74	8947615.89	8947616.04	0.0146	0.0047
Mercury	19785-11-17 14:52 G	8947703.98	8947704.12	8947704.26	0.0146	0.0072

Mercury	19786-02-13 20:24 G	8947792.24	8947792.35	8947792.48	0.0146	0.0098
Mercury	19786-05-13 02:24 G	8947880.52	8947880.60	8947880.69	0.0145	0.0123
Mars	19796-05-31 09:21 G	8951551.71	8951551.89	8951552.12	0.0142	0.0113
Mars	19798-05-08 07:55 G	8952258.55	8952258.83	8952259.13	0.0142	0.0074
Earth	19813-04-15 20:09 G	8957714.19	8957714.34	8957714.52	0.0135	0.0103
Moon	19813-04-15 23:31 G	8957714.32	8957714.48	8957714.66	0.0135	0.0099 *
Moon	19814-04-20 04:19 G	8958083.44	8958083.68	8958083.93	0.0134	0.0048
Earth	19814-04-20 06:57 G	8958083.56	8958083.79	8958084.04	0.0134	0.0049 *
Earth	19815-04-24 17:16 G	8958452.96	8958453.22	8958453.48	0.0134	0.0005
Moon	19815-04-24 20:09 G	8958453.09	8958453.34	8958453.59	0.0134	0.0002 *
Moon	19816-04-28 00:00 G	8958822.28	8958822.50	8958822.75	0.0134	0.0064
Earth	19816-04-28 02:38 G	8958822.39	8958822.61	8958822.85	0.0134	0.0059 *
Earth	19817-05-02 11:45 G	8959191.87	8959191.99	8959192.15	0.0134	0.0112
Moon	19817-05-02 14:09 G	8959191.95	8959192.09	8959192.26	0.0134	0.0105 *
Venus	19822-04-25 23:45 G	8961011.43	8961011.49	8961011.59	0.0133	0.0123
Venus	19822-12-08 05:02 G	8961237.56	8961237.71	8961237.89	0.0133	0.0087
Venus	19823-07-22 10:19 G	8961463.73	8961463.93	8961464.13	0.0133	0.0051
Venus	19824-03-04 15:21 G	8961689.93	8961690.14	8961690.36	0.0133	0.0016
Venus	19824-10-16 20:24 G	8961916.14	8961916.35	8961916.57	0.0133	0.0020
Venus	19825-05-31 01:12 G	8962142.36	8962142.55	8962142.76	0.0133	0.0056
Mercury	19826-01-03 20:52 G	8962360.31	8962360.37	8962360.45	0.0133	0.0120
Venus	19826-01-12 06:00 G	8962368.61	8962368.75	8962368.92	0.0133	0.0092
Mercury	19826-04-02 01:26 G	8962448.47	8962448.56	8962448.67	0.0133	0.0101
Mercury	19826-06-29 06:00 G	8962536.64	8962536.75	8962536.88	0.0133	0.0082
Venus	19826-08-26 11:02 G	8962594.91	8962594.96	8962595.03	0.0133	0.0127
Mercury	19826-09-25 10:33 G	8962624.81	8962624.94	8962625.09	0.0133	0.0063
Mercury	19826-12-22 15:07 G	8962712.98	8962713.13	8962713.28	0.0133	0.0044
Mercury	19827-03-20 19:40 G	8962801.16	8962801.32	8962801.47	0.0133	0.0025
Mercury	19827-06-17 00:00 G	8962889.35	8962889.50	8962889.66	0.0133	0.0006
Mercury	19827-09-13 04:19 G	8962977.53	8962977.68	8962977.84	0.0133	0.0013

Mercury	19827-12-10 08:38 G	8963065.71	8963065.86	8963066.02	0.0133	0.0031
Mercury	19828-03-07 12:57 G	8963153.90	8963154.04	8963154.19	0.0133	0.0049
Mercury	19828-06-03 17:16 G	8963242.09	8963242.22	8963242.36	0.0133	0.0067
Mercury	19828-08-30 21:36 G	8963330.28	8963330.40	8963330.52	0.0133	0.0085
Mercury	19828-11-27 01:40 G	8963418.48	8963418.57	8963418.67	0.0133	0.0103
Mercury	19829-02-23 05:45 G	8963506.69	8963506.74	8963506.81	0.0133	0.0121
Mars	19840-07-30 19:55 G	8967682.13	8967682.33	8967682.58	0.0136	0.0082
Mars	19842-06-30 03:50 G	8968381.41	8968381.66	8968381.94	0.0137	0.0050
Earth	19856-10-14 14:24 G	8973602.01	8973602.10	8973602.22	0.0143	0.0129
Moon	19856-10-14 17:02 G	8973602.16	8973602.21	8973602.30	0.0143	0.0137 *
Moon	19857-10-19 09:36 G	8973971.67	8973971.90	8973972.14	0.0144	0.0058
Earth	19857-10-19 12:28 G	8973971.80	8973972.02	8973972.25	0.0144	0.0064 *
Earth	19858-10-24 10:48 G	8974341.69	8974341.95	8974342.20	0.0144	0.0002
Moon	19858-10-24 12:14 G	8974341.77	8974342.01	8974342.26	0.0144	0.0003 *
Moon	19859-10-29 07:26 G	8974711.59	8974711.81	8974712.06	0.0144	0.0066
Earth	19859-10-29 09:21 G	8974711.67	8974711.89	8974712.12	0.0144	0.0068 *
Earth	19860-11-02 08:24 G	8975081.76	8975081.85	8975081.95	0.0145	0.0134
Moon	19860-11-02 09:07 G	8975081.82	8975081.88	8975081.94	0.0145	0.0140 *
Venus	19865-01-26 19:40 G	8976628.19	8976628.32	8976628.45	0.0146	0.0115
Venus	19865-09-10 08:09 G	8976854.65	8976854.84	8976855.04	0.0146	0.0068
Venus	19866-04-24 20:52 G	8977081.15	8977081.37	8977081.58	0.0146	0.0021
Venus	19866-12-07 09:21 G	8977307.68	8977307.89	8977308.11	0.0146	0.0027
Venus	19867-07-21 21:50 G	8977534.23	8977534.41	8977534.60	0.0146	0.0075
Mercury	19867-10-06 21:07 G	8977611.35	8977611.38	8977611.42	0.0146	0.0141
Mercury	19868-01-03 02:09 G	8977699.52	8977699.59	8977699.69	0.0146	0.0118
Venus	19868-03-04 10:19 G	8977760.83	8977760.93	8977761.06	0.0146	0.0122
Mercury	19868-03-31 07:40 G	8977787.71	8977787.82	8977787.94	0.0146	0.0094
Mercury	19868-06-27 12:57 G	8977875.91	8977876.04	8977876.19	0.0146	0.0070
Mercury	19868-09-23 18:28 G	8977964.13	8977964.27	8977964.43	0.0146	0.0046
Mercury	19868-12-21 00:00 G	8978052.35	8978052.50	8978052.66	0.0146	0.0021

Mercury	19869-03-19 05:31 G	8978140.58	8978140.73	8978140.89	0.0146	0.0006
Mercury	19869-06-15 11:16 G	8978228.81	8978228.97	8978229.12	0.0146	0.0029
Mercury	19869-09-11 16:48 G	8978317.05	8978317.20	8978317.35	0.0146	0.0054
Mercury	19869-12-08 22:19 G	8978405.30	8978405.43	8978405.57	0.0146	0.0079
Mercury	19870-03-07 04:04 G	8978493.56	8978493.67	8978493.78	0.0146	0.0105
Mercury	19870-06-03 09:36 G	8978581.85	8978581.90	8978581.98	0.0146	0.0131
Mars	19881-01-27 02:24 G	8982472.28	8982472.60	8982472.94	0.0142	0.0037
Earth	19897-04-16 10:48 G	8988395.78	8988395.95	8988396.13	0.0135	0.0097
Moon	19897-04-16 13:40 G	8988395.92	8988396.07	8988396.25	0.0135	0.0100 *
Moon	19898-04-20 18:14 G	8988765.01	8988765.26	8988765.50	0.0135	0.0042
Earth	19898-04-20 21:21 G	8988765.16	8988765.39	8988765.64	0.0135	0.0044 *
Earth	19899-04-25 07:26 G	8989134.56	8989134.81	8989135.07	0.0134	0.0012
Moon	19899-04-25 10:19 G	8989134.69	8989134.93	8989135.19	0.0134	0.0015 *
Moon	19900-04-29 14:09 G	8989503.86	8989504.09	8989504.33	0.0134	0.0058
Earth	19900-04-29 17:16 G	8989504.00	8989504.22	8989504.45	0.0134	0.0064 *
Earth	19901-05-04 02:24 G	8989873.49	8989873.60	8989873.73	0.0134	0.0117
Moon	19901-05-04 05:02 G	8989873.63	8989873.71	8989873.82	0.0134	0.0124 *
Venus	19906-08-08 17:31 G	8991796.11	8991796.23	8991796.39	0.0133	0.0100
Venus	19907-03-22 23:02 G	8992022.27	8992022.46	8992022.66	0.0133	0.0064
Venus	19907-11-04 04:04 G	8992248.46	8992248.67	8992248.89	0.0133	0.0029
Venus	19908-06-17 09:07 G	8992474.66	8992474.88	8992475.10	0.0133	0.0007
Venus	19909-01-29 14:09 G	8992700.88	8992701.09	8992701.30	0.0133	0.0043
Venus	19909-09-12 18:57 G	8992927.13	8992927.29	8992927.47	0.0133	0.0079
Mercury	19909-10-29 00:14 G	8992973.50	8992973.51	8992973.55	0.0133	0.0131
Mercury	19910-01-25 05:02 G	8993061.63	8993061.71	8993061.80	0.0133	0.0111
Mercury	19910-04-23 09:36 G	8993149.79	8993149.90	8993150.02	0.0133	0.0092
Venus	19910-04-27 00:14 G	8993153.40	8993153.51	8993153.62	0.0133	0.0114
Mercury	19910-07-20 14:09 G	8993237.97	8993238.09	8993238.23	0.0133	0.0073
Mercury	19910-10-16 18:43 G	8993326.14	8993326.28	8993326.43	0.0133	0.0054
Mercury	19911-01-12 23:16 G	8993414.32	8993414.47	8993414.62	0.0133	0.0035

Mercury	19911-04-11 03:36 G	8993502.50	8993502.65	8993502.81	0.0133	0.0017
Mercury	19911-07-08 08:09 G	8993590.68	8993590.84	8993590.99	0.0133	0.0003
Mercury	19911-10-04 12:28 G	8993678.87	8993679.02	8993679.17	0.0133	0.0021
Mercury	19911-12-31 16:48 G	8993767.05	8993767.20	8993767.35	0.0133	0.0039
Mercury	19912-03-28 20:52 G	8993855.24	8993855.37	8993855.52	0.0133	0.0058
Mercury	19912-06-25 01:12 G	8993943.43	8993943.55	8993943.68	0.0133	0.0076
Mercury	19912-09-21 05:16 G	8994031.63	8994031.72	8994031.84	0.0133	0.0094
Mercury	19912-12-18 09:50 G	8994119.83	8994119.91	8994119.99	0.0133	0.0111
Mercury	19913-03-16 13:55 G	8994208.05	8994208.08	8994208.12	0.0133	0.0129
Mars	19925-03-26 06:57 G	8998600.52	8998600.79	8998601.08	0.0136	0.0027
Mars	19927-02-23 15:07 G	8999299.98	8999300.13	8999300.33	0.0137	0.0107
Earth	19940-10-16 03:07 G	9004283.53	9004283.63	9004283.78	0.0143	0.0125
Moon	19940-10-16 06:14 G	9004283.64	9004283.76	9004283.93	0.0143	0.0118 *
Moon	19941-10-20 22:33 G	9004653.22	9004653.44	9004653.68	0.0144	0.0065
Earth	19941-10-21 01:12 G	9004653.33	9004653.55	9004653.79	0.0144	0.0060 *
Earth	19942-10-25 23:31 G	9005023.23	9005023.48	9005023.73	0.0144	0.0006
Moon	19942-10-26 02:09 G	9005023.35	9005023.59	9005023.84	0.0144	0.0009 *
Moon	19943-10-30 20:24 G	9005393.13	9005393.35	9005393.58	0.0144	0.0075
Earth	19943-10-30 22:04 G	9005393.21	9005393.42	9005393.64	0.0144	0.0073 *
Earth	19944-11-03 21:07 G	9005763.32	9005763.38	9005763.45	0.0145	0.0139
Moon	19944-11-03 22:19 G	9005763.36	9005763.43	9005763.54	0.0145	0.0134 *
Venus	19948-09-27 02:52 G	9007186.56	9007186.62	9007186.72	0.0146	0.0135
Venus	19949-05-11 15:21 G	9007412.98	9007413.14	9007413.33	0.0146	0.0088
Venus	19949-12-24 04:04 G	9007639.47	9007639.67	9007639.88	0.0146	0.0040
Venus	19950-08-07 16:48 G	9007865.98	9007866.20	9007866.42	0.0146	0.0007
Venus	19951-03-22 05:16 G	9008092.53	9008092.72	9008092.93	0.0146	0.0055
Mercury	19951-10-28 04:48 G	9008312.65	9008312.70	9008312.77	0.0146	0.0133
Venus	19951-11-03 18:14 G	9008319.10	9008319.26	9008319.41	0.0146	0.0102
Mercury	19952-01-24 10:19 G	9008400.83	9008400.93	9008401.03	0.0146	0.0109
Mercury	19952-04-21 15:36 G	9008489.03	9008489.15	9008489.28	0.0146	0.0085

Mercury	19952-07-18 21:07 G	9008577.24	9008577.38	9008577.52	0.0146	0.0061
Mercury	19952-10-15 02:24 G	9008665.45	9008665.60	9008665.76	0.0146	0.0037
Mercury	19953-01-11 07:55 G	9008753.68	9008753.83	9008753.99	0.0146	0.0013
Mercury	19953-04-09 13:26 G	9008841.91	9008842.06	9008842.22	0.0146	0.0013
Mercury	19953-07-06 18:57 G	9008930.14	9008930.29	9008930.45	0.0146	0.0038
Mercury	19953-10-03 00:43 G	9009018.39	9009018.53	9009018.67	0.0146	0.0063
Mercury	19953-12-30 06:28 G	9009106.64	9009106.77	9009106.89	0.0146	0.0088
Mercury	19954-03-28 12:00 G	9009194.91	9009195.00	9009195.10	0.0146	0.0113
Mercury	19954-06-24 17:45 G	9009283.20	9009283.24	9009283.29	0.0145	0.0139
Mars	19965-09-24 20:24 G	9013393.03	9013393.35	9013393.68	0.0142	0.0040
Earth	19981-04-18 00:57 G	9019077.36	9019077.54	9019077.73	0.0135	0.0092
Moon	19981-04-18 04:19 G	9019077.50	9019077.68	9019077.89	0.0135	0.0088 *
Moon	19982-04-22 08:24 G	9019446.61	9019446.85	9019447.11	0.0135	0.0038
Earth	19982-04-22 11:45 G	9019446.75	9019446.99	9019447.24	0.0135	0.0038 *
Earth	19983-04-26 21:50 G	9019816.16	9019816.41	9019816.67	0.0134	0.0016
Moon	19983-04-27 01:26 G	9019816.31	9019816.56	9019816.81	0.0134	0.0014 *
Moon	19984-04-30 04:04 G	9020185.47	9020185.67	9020185.90	0.0134	0.0075
Earth	19984-04-30 07:12 G	9020185.60	9020185.80	9020186.03	0.0134	0.0070 *
Earth	19985-05-04 16:33 G	9020555.10	9020555.19	9020555.30	0.0134	0.0123
Moon	19985-05-04 19:26 G	9020555.21	9020555.31	9020555.45	0.0134	0.0116 *
Venus	19990-04-08 06:43 G	9022354.67	9022354.78	9022354.89	0.0133	0.0112
Venus	19990-11-20 11:31 G	9022580.82	9022580.98	9022581.17	0.0133	0.0077
Venus	19991-07-04 16:48 G	9022807.00	9022807.20	9022807.41	0.0133	0.0041
Venus	19992-02-15 22:04 G	9023033.20	9023033.42	9023033.63	0.0133	0.0006
Venus	19992-09-29 02:52 G	9023259.42	9023259.62	9023259.84	0.0133	0.0031
Venus	19993-05-13 08:09 G	9023485.65	9023485.84	9023486.03	0.0133	0.0066
Mercury	19993-11-18 08:24 G	9023674.80	9023674.85	9023674.93	0.0133	0.0122
Venus	19993-12-25 12:43 G	9023711.91	9023712.03	9023712.19	0.0133	0.0102
Mercury	19994-02-14 13:26 G	9023762.96	9023763.06	9023763.16	0.0133	0.0102
Mercury	19994-05-13 18:00 G	9023851.13	9023851.25	9023851.37	0.0133	0.0083

Mercury	19994-08-09 22:19 G	9023939.30	9023939.43	9023939.58	0.0133	0.0064
Mercury	19994-11-06 02:52 G	9024027.48	9024027.62	9024027.77	0.0133	0.0045
Mercury	19995-02-02 07:26 G	9024115.66	9024115.81	9024115.96	0.0133	0.0026
Mercury	19995-05-01 11:45 G	9024203.84	9024203.99	9024204.15	0.0133	0.0009
Mercury	19995-07-28 16:19 G	9024292.02	9024292.18	9024292.33	0.0133	0.0011
Mercury	19995-10-24 20:38 G	9024380.21	9024380.36	9024380.51	0.0133	0.0029
Mercury	19996-01-21 00:57 G	9024468.40	9024468.54	9024468.68	0.0133	0.0048
Mercury	19996-04-18 05:02 G	9024556.59	9024556.71	9024556.85	0.0133	0.0066
Mercury	19996-07-15 09:21 G	9024644.78	9024644.89	9024645.01	0.0133	0.0084
Mercury	19996-10-11 13:26 G	9024732.98	9024733.06	9024733.17	0.0133	0.0102
Mercury	19997-01-07 17:45 G	9024821.18	9024821.24	9024821.31	0.0133	0.0120

21ST MILLENNIUM CE

This is a list of transits visible from Uranus in the 21st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	20007-12-20 13:26 G	9028819.90	9028820.06	9028820.27	0.0136	0.0103		
Mars	20009-11-18 18:14 G	9029518.99	9029519.26	9029519.54	0.0136	0.0029		
Earth	20024-10-16 15:36 G	9034965.03	9034965.15	9034965.30	0.0143	0.0119		
Moon	20024-10-16 18:57 G	9034965.19	9034965.29	9034965.42	0.0143	0.0127	*	
Moon	20025-10-21 09:50 G	9035334.68	9035334.91	9035335.16	0.0144	0.0048		
Earth	20025-10-21 13:12 G	9035334.82	9035335.05	9035335.29	0.0144	0.0055	*	
Earth	20026-10-26 11:16 G	9035704.72	9035704.97	9035705.22	0.0144	0.0011		
Moon	20026-10-26 13:55 G	9035704.83	9035705.08	9035705.33	0.0144	0.0009	*	

Moon	20027-10-31 06:57 G	9036074.58	9036074.79	9036075.01	0.0144	0.0077
Earth	20027-10-31 09:36 G	9036074.70	9036074.90	9036075.12	0.0144	0.0078 *
Earth	20028-11-04 08:09 G	9036444.84	9036444.84	9036444.88	0.0145	0.0144
Venus	20033-01-08 21:50 G	9037971.28	9037971.41	9037971.57	0.0145	0.0108
Venus	20033-08-23 10:19 G	9038197.75	9038197.93	9038198.14	0.0146	0.0062
Venus	20034-04-06 23:16 G	9038424.25	9038424.47	9038424.69	0.0146	0.0014
Venus	20034-11-19 11:45 G	9038650.78	9038650.99	9038651.21	0.0146	0.0034
Venus	20035-07-04 00:28 G	9038877.34	9038877.52	9038877.70	0.0146	0.0081
Mercury	20035-11-17 12:28 G	9039013.95	9039014.02	9039014.10	0.0146	0.0126
Mercury	20036-02-13 18:00 G	9039102.14	9039102.25	9039102.35	0.0146	0.0102
Venus	20036-02-15 12:57 G	9039103.94	9039104.04	9039104.15	0.0146	0.0128
Mercury	20036-05-11 23:02 G	9039190.34	9039190.46	9039190.60	0.0146	0.0078
Mercury	20036-08-08 04:33 G	9039278.55	9039278.69	9039278.84	0.0146	0.0054
Mercury	20036-11-04 10:04 G	9039366.76	9039366.92	9039367.07	0.0146	0.0030
Mercury	20037-01-31 15:36 G	9039454.99	9039455.15	9039455.30	0.0146	0.0007
Mercury	20037-04-29 21:07 G	9039543.22	9039543.38	9039543.53	0.0146	0.0020
Mercury	20037-07-27 02:24 G	9039631.46	9039631.60	9039631.76	0.0146	0.0045
Mercury	20037-10-23 08:09 G	9039719.70	9039719.84	9039719.98	0.0146	0.0070
Mercury	20038-01-19 13:55 G	9039807.96	9039808.08	9039808.20	0.0146	0.0095
Mercury	20038-04-17 19:26 G	9039896.23	9039896.31	9039896.40	0.0146	0.0120
Mars	20048-06-14 07:55 G	9043606.56	9043606.83	9043607.14	0.0143	0.0075
Mars	20050-05-22 08:24 G	9044313.67	9044313.85	9044314.06	0.0142	0.0115
Moon	20064-04-13 23:45 G	9049389.49	9049389.49	9049389.51	0.0135	0.0135
Earth	20065-04-18 14:24 G	9049758.92	9049759.10	9049759.31	0.0135	0.0087
Moon	20065-04-18 18:00 G	9049759.07	9049759.25	9049759.45	0.0135	0.0090 *
Moon	20066-04-22 21:36 G	9050128.16	9050128.40	9050128.66	0.0135	0.0031
Earth	20066-04-23 01:12 G	9050128.31	9050128.55	9050128.81	0.0135	0.0033 *
Earth	20067-04-27 11:16 G	9050497.72	9050497.97	9050498.23	0.0134	0.0022
Moon	20067-04-27 14:38 G	9050497.87	9050498.11	9050498.36	0.0134	0.0025 *
Moon	20068-04-30 17:31 G	9050867.01	9050867.23	9050867.45	0.0134	0.0070

Earth	20068-04-30 20:52 G	9050867.17	9050867.37	9050867.60	0.0134	0.0076 *
Earth	20069-05-05 06:00 G	9051236.70	9051236.75	9051236.84	0.0134	0.0129
Venus	20073-12-06 18:28 G	9052913.23	9052913.27	9052913.36	0.0133	0.0126
Venus	20074-07-21 00:00 G	9053139.35	9053139.50	9053139.67	0.0133	0.0090
Venus	20075-03-04 05:31 G	9053365.53	9053365.73	9053365.93	0.0133	0.0054
Venus	20075-10-16 10:33 G	9053591.73	9053591.94	9053592.16	0.0133	0.0019
Venus	20076-05-29 15:36 G	9053817.94	9053818.15	9053818.37	0.0133	0.0018
Venus	20077-01-10 20:38 G	9054044.17	9054044.36	9054044.56	0.0133	0.0053
Venus	20077-08-25 01:26 G	9054270.42	9054270.56	9054270.74	0.0133	0.0089
Mercury	20077-09-11 12:14 G	9054288.00	9054288.01	9054288.02	0.0133	0.0132
Mercury	20077-12-08 16:48 G	9054376.12	9054376.20	9054376.29	0.0133	0.0113
Mercury	20078-03-06 21:21 G	9054464.28	9054464.39	9054464.51	0.0133	0.0094
Venus	20078-04-08 06:43 G	9054496.72	9054496.78	9054496.87	0.0133	0.0124
Mercury	20078-06-03 01:55 G	9054552.46	9054552.58	9054552.72	0.0133	0.0075
Mercury	20078-08-30 06:28 G	9054640.63	9054640.77	9054640.92	0.0133	0.0056
Mercury	20078-11-26 11:02 G	9054728.81	9054728.96	9054729.11	0.0133	0.0037
Mercury	20079-02-22 15:36 G	9054816.99	9054817.15	9054817.30	0.0133	0.0018
Mercury	20079-05-21 19:55 G	9054905.18	9054905.33	9054905.49	0.0133	0.0002
Mercury	20079-08-18 00:14 G	9054993.36	9054993.51	9054993.67	0.0133	0.0020
Mercury	20079-11-14 04:33 G	9055081.55	9055081.69	9055081.85	0.0133	0.0038
Mercury	20080-02-10 08:52 G	9055169.74	9055169.87	9055170.02	0.0133	0.0056
Mercury	20080-05-08 13:12 G	9055257.93	9055258.05	9055258.18	0.0133	0.0074
Mercury	20080-08-04 17:31 G	9055346.12	9055346.23	9055346.34	0.0133	0.0092
Mercury	20080-10-31 21:36 G	9055434.32	9055434.40	9055434.49	0.0133	0.0110
Mercury	20081-01-28 01:40 G	9055522.54	9055522.57	9055522.62	0.0133	0.0128
Mars	20092-08-14 00:57 G	9059738.28	9059738.54	9059738.81	0.0136	0.0047
Mars	20094-07-14 06:14 G	9060437.55	9060437.76	9060437.98	0.0137	0.0087
Earth	20108-10-18 06:00 G	9065646.62	9065646.75	9065646.92	0.0143	0.0114
Moon	20108-10-18 09:36 G	9065646.75	9065646.90	9065647.08	0.0143	0.0107 *
Moon	20109-10-23 00:28 G	9066016.29	9066016.52	9066016.76	0.0144	0.0055

Earth	20109-10-23 03:50 G	9066016.43	9066016.66	9066016.90	0.0144	0.0049 *
Earth	20110-10-28 01:40 G	9066386.32	9066386.57	9066386.82	0.0144	0.0017
Moon	20110-10-28 05:02 G	9066386.47	9066386.71	9066386.96	0.0144	0.0021 *
Moon	20111-11-01 21:21 G	9066756.19	9066756.39	9066756.60	0.0144	0.0085
Earth	20111-11-02 00:00 G	9066756.30	9066756.50	9066756.71	0.0144	0.0084 *
Venus	20116-09-09 06:28 G	9068529.67	9068529.77	9068529.88	0.0145	0.0127
Venus	20117-04-23 18:57 G	9068756.12	9068756.29	9068756.48	0.0145	0.0080
Venus	20117-12-06 07:26 G	9068982.60	9068982.81	9068983.03	0.0146	0.0033
Venus	20118-07-20 20:09 G	9069209.12	9069209.34	9069209.56	0.0146	0.0015
Venus	20119-03-04 08:38 G	9069435.67	9069435.86	9069436.06	0.0146	0.0062
Mercury	20119-09-11 15:21 G	9069627.11	9069627.14	9069627.19	0.0146	0.0140
Venus	20119-10-16 21:21 G	9069662.25	9069662.39	9069662.54	0.0146	0.0109
Mercury	20119-12-08 20:24 G	9069715.27	9069715.35	9069715.46	0.0146	0.0117
Mercury	20120-03-06 01:55 G	9069803.47	9069803.58	9069803.70	0.0146	0.0093
Mercury	20120-06-02 07:12 G	9069891.67	9069891.80	9069891.94	0.0146	0.0069
Mercury	20120-08-29 12:43 G	9069979.88	9069980.03	9069980.18	0.0146	0.0045
Mercury	20120-11-25 18:14 G	9070068.10	9070068.26	9070068.41	0.0146	0.0020
Mercury	20121-02-21 23:31 G	9070156.33	9070156.48	9070156.64	0.0146	0.0006
Mercury	20121-05-21 05:02 G	9070244.56	9070244.71	9070244.87	0.0146	0.0030
Mercury	20121-08-17 10:33 G	9070332.80	9070332.94	9070333.09	0.0146	0.0055
Mercury	20121-11-13 16:04 G	9070421.05	9070421.17	9070421.31	0.0146	0.0080
Mercury	20122-02-09 21:50 G	9070509.31	9070509.41	9070509.53	0.0146	0.0105
Mercury	20122-05-09 03:21 G	9070597.59	9070597.64	9070597.73	0.0146	0.0131
Mars	20133-02-10 04:19 G	9074527.35	9074527.68	9074528.03	0.0142	0.0006
Earth	20149-04-20 04:33 G	9080440.50	9080440.69	9080440.90	0.0135	0.0082
Moon	20149-04-20 08:09 G	9080440.64	9080440.84	9080441.06	0.0135	0.0077 *
Moon	20150-04-24 11:45 G	9080809.74	9080809.99	9080810.24	0.0135	0.0028
Earth	20150-04-24 15:07 G	9080809.89	9080810.13	9080810.39	0.0135	0.0028 *
Earth	20151-04-29 01:12 G	9081179.31	9081179.55	9081179.81	0.0134	0.0027
Moon	20151-04-29 05:02 G	9081179.47	9081179.71	9081179.97	0.0134	0.0025 *

Moon	20152-05-02 07:26 G	9081548.62	9081548.81	9081549.02	0.0134	0.0086
Earth	20152-05-02 10:48 G	9081548.76	9081548.95	9081549.17	0.0134	0.0081 *
Moon	20153-05-06 23:45 G	9081918.42	9081918.49	9081918.57	0.0134	0.0127
Venus	20158-03-21 12:28 G	9083697.90	9083698.02	9083698.17	0.0133	0.0103
Venus	20158-11-02 18:00 G	9083924.06	9083924.25	9083924.44	0.0133	0.0067
Venus	20159-06-16 23:02 G	9084150.25	9084150.46	9084150.68	0.0133	0.0032
Venus	20160-01-29 04:19 G	9084376.46	9084376.68	9084376.90	0.0133	0.0004
Venus	20160-09-11 09:21 G	9084602.68	9084602.89	9084603.10	0.0133	0.0040
Venus	20161-04-25 14:24 G	9084828.93	9084829.10	9084829.29	0.0133	0.0076
Mercury	20161-10-02 20:09 G	9084989.29	9084989.34	9084989.40	0.0133	0.0124
Venus	20161-12-07 19:26 G	9085055.20	9085055.31	9085055.44	0.0133	0.0111
Mercury	20161-12-30 00:43 G	9085077.44	9085077.53	9085077.64	0.0133	0.0105
Mercury	20162-03-28 05:31 G	9085165.61	9085165.73	9085165.85	0.0133	0.0085
Mercury	20162-06-24 10:04 G	9085253.78	9085253.92	9085254.06	0.0133	0.0066
Mercury	20162-09-20 14:38 G	9085341.96	9085342.11	9085342.26	0.0133	0.0047
Mercury	20162-12-17 18:57 G	9085430.14	9085430.29	9085430.45	0.0133	0.0029
Mercury	20163-03-15 23:31 G	9085518.33	9085518.48	9085518.64	0.0133	0.0010
Mercury	20163-06-12 04:04 G	9085606.51	9085606.67	9085606.82	0.0133	0.0009
Mercury	20163-09-08 08:24 G	9085694.70	9085694.85	9085695.00	0.0133	0.0028
Mercury	20163-12-05 12:43 G	9085782.88	9085783.03	9085783.18	0.0133	0.0046
Mercury	20164-03-02 17:02 G	9085871.07	9085871.21	9085871.35	0.0133	0.0064
Mercury	20164-05-29 21:07 G	9085959.27	9085959.38	9085959.51	0.0133	0.0082
Mercury	20164-08-26 01:26 G	9086047.47	9086047.56	9086047.66	0.0133	0.0100
Mercury	20164-11-22 05:31 G	9086135.67	9086135.73	9086135.81	0.0133	0.0118
Mars	20175-05-11 09:21 G	9089957.79	9089957.89	9089958.03	0.0135	0.0122
Mars	20177-04-09 11:02 G	9090656.68	9090656.96	9090657.24	0.0136	0.0009
Earth	20192-10-18 19:55 G	9096328.18	9096328.33	9096328.50	0.0143	0.0108
Moon	20192-10-18 23:31 G	9096328.35	9096328.48	9096328.64	0.0143	0.0117 *
Moon	20193-10-23 13:55 G	9096697.83	9096698.08	9096698.32	0.0144	0.0036
Earth	20193-10-23 17:16 G	9096697.99	9096698.22	9096698.47	0.0144	0.0044 *

Earth	20194-10-28 15:07 G	9097067.88	9097068.13	9097068.38	0.0144	0.0023
Moon	20194-10-28 18:14 G	9097068.02	9097068.26	9097068.51	0.0144	0.0020 *
Moon	20195-11-02 09:50 G	9097437.72	9097437.91	9097438.12	0.0144	0.0090
Earth	20195-11-02 13:12 G	9097437.87	9097438.05	9097438.26	0.0144	0.0090 *
Venus	20200-12-23 02:24 G	9099314.46	9099314.60	9099314.77	0.0145	0.0100
Venus	20201-08-06 15:07 G	9099540.93	9099541.13	9099541.34	0.0145	0.0052
Venus	20202-03-21 03:50 G	9099767.44	9099767.66	9099767.87	0.0146	0.0006
Venus	20202-11-02 16:19 G	9099993.97	9099994.18	9099994.39	0.0146	0.0042
Venus	20203-06-17 04:48 G	9100220.53	9100220.70	9100220.87	0.0146	0.0089
Mercury	20203-10-02 23:16 G	9100328.41	9100328.47	9100328.54	0.0146	0.0132
Mercury	20203-12-30 04:19 G	9100416.59	9100416.68	9100416.79	0.0146	0.0109
Venus	20204-01-29 17:02 G	9100447.15	9100447.21	9100447.30	0.0146	0.0136
Mercury	20204-03-27 09:50 G	9100504.79	9100504.91	9100505.04	0.0146	0.0084
Mercury	20204-06-23 15:07 G	9100592.99	9100593.13	9100593.27	0.0146	0.0061
Mercury	20204-09-19 20:38 G	9100681.21	9100681.36	9100681.51	0.0146	0.0036
Mercury	20204-12-17 01:55 G	9100769.43	9100769.58	9100769.74	0.0146	0.0012
Mercury	20205-03-15 07:26 G	9100857.65	9100857.81	9100857.97	0.0146	0.0013
Mercury	20205-06-11 12:57 G	9100945.89	9100946.04	9100946.19	0.0146	0.0037
Mercury	20205-09-07 18:28 G	9101034.13	9101034.27	9101034.42	0.0146	0.0062
Mercury	20205-12-05 00:00 G	9101122.38	9101122.50	9101122.63	0.0146	0.0088
Mercury	20206-03-03 05:45 G	9101210.64	9101210.74	9101210.84	0.0146	0.0113
Mercury	20206-05-30 11:16 G	9101298.93	9101298.97	9101299.03	0.0146	0.0138
Mars	20215-11-01 14:38 G	9104740.93	9104741.11	9104741.35	0.0143	0.0112
Mars	20217-10-08 20:09 G	9105448.08	9105448.34	9105448.63	0.0142	0.0082
Jupiter	20229-07-26 05:16 G	9109756.39	9109756.72	9109757.13	0.0137	0.0098
Moon	20232-04-17 02:52 G	9110752.55	9110752.62	9110752.73	0.0135	0.0127
Earth	20232-04-17 06:28 G	9110752.73	9110752.77	9110752.82	0.0135	0.0133 *
Earth	20233-04-21 17:31 G	9111122.03	9111122.23	9111122.45	0.0135	0.0078
Moon	20233-04-21 21:21 G	9111122.19	9111122.39	9111122.60	0.0135	0.0081 *
Moon	20234-04-26 00:43 G	9111491.28	9111491.53	9111491.79	0.0135	0.0020

Earth	20234-04-26 04:19 G	9111491.43	9111491.68	9111491.94	0.0135	0.0023 *
Earth	20235-04-30 14:09 G	9111860.85	9111861.09	9111861.35	0.0135	0.0033
Moon	20235-04-30 17:45 G	9111861.00	9111861.24	9111861.50	0.0135	0.0035 *
Moon	20236-05-03 20:24 G	9112230.15	9112230.35	9112230.56	0.0134	0.0082
Earth	20236-05-04 00:00 G	9112230.32	9112230.50	9112230.71	0.0134	0.0087 *
Venus	20241-11-20 00:43 G	9114256.44	9114256.53	9114256.65	0.0133	0.0116
Venus	20242-07-04 06:14 G	9114482.59	9114482.76	9114482.93	0.0133	0.0080
Venus	20243-02-15 11:16 G	9114708.78	9114708.97	9114709.19	0.0133	0.0045
Venus	20243-09-29 16:48 G	9114934.98	9114935.20	9114935.41	0.0133	0.0009
Venus	20244-05-12 21:50 G	9115161.20	9115161.41	9115161.62	0.0133	0.0027
Venus	20244-12-25 02:52 G	9115387.43	9115387.62	9115387.81	0.0133	0.0062
Venus	20245-08-08 07:40 G	9115613.69	9115613.82	9115613.98	0.0133	0.0098
Mercury	20245-10-24 04:04 G	9115690.60	9115690.67	9115690.75	0.0133	0.0116
Mercury	20246-01-20 08:38 G	9115778.76	9115778.86	9115778.98	0.0133	0.0097
Venus	20246-03-22 12:57 G	9115840.04	9115840.04	9115840.05	0.0133	0.0133
Mercury	20246-04-18 13:26 G	9115866.93	9115867.06	9115867.19	0.0133	0.0077
Mercury	20246-07-15 18:00 G	9115955.11	9115955.25	9115955.39	0.0133	0.0058
Mercury	20246-10-11 22:33 G	9116043.29	9116043.44	9116043.59	0.0133	0.0039
Mercury	20247-01-08 02:52 G	9116131.47	9116131.62	9116131.78	0.0133	0.0021
Mercury	20247-04-06 07:26 G	9116219.66	9116219.81	9116219.97	0.0133	0.0003
Mercury	20247-07-03 11:45 G	9116307.84	9116307.99	9116308.15	0.0133	0.0017
Mercury	20247-09-29 16:19 G	9116396.03	9116396.18	9116396.33	0.0133	0.0035
Mercury	20247-12-26 20:24 G	9116484.22	9116484.35	9116484.50	0.0133	0.0054
Mercury	20248-03-24 00:43 G	9116572.41	9116572.53	9116572.67	0.0133	0.0072
Mercury	20248-06-20 05:02 G	9116660.60	9116660.71	9116660.83	0.0133	0.0090
Mercury	20248-09-16 09:07 G	9116748.80	9116748.88	9116748.98	0.0133	0.0108
Mercury	20248-12-13 13:40 G	9116837.02	9116837.07	9116837.12	0.0133	0.0125
Mars	20260-01-04 16:48 G	9120875.98	9120876.20	9120876.46	0.0136	0.0068
Mars	20261-12-03 20:09 G	9121575.11	9121575.34	9121575.60	0.0136	0.0067
Earth	20276-10-20 09:50 G	9127009.74	9127009.91	9127010.08	0.0143	0.0104

Moon	20276-10-20 12:57 G	9127009.87	9127010.04	9127010.24	0.0143	0.0096 *
Moon	20277-10-25 03:21 G	9127379.41	9127379.64	9127379.89	0.0144	0.0046
Earth	20277-10-25 06:57 G	9127379.56	9127379.79	9127380.05	0.0144	0.0039 *
Earth	20278-10-30 04:48 G	9127749.46	9127749.70	9127749.96	0.0144	0.0028
Moon	20278-10-30 08:24 G	9127749.62	9127749.85	9127750.11	0.0144	0.0033 *
Moon	20279-11-04 00:00 G	9128119.31	9128119.50	9128119.70	0.0144	0.0095
Earth	20279-11-04 03:07 G	9128119.45	9128119.63	9128119.83	0.0144	0.0095 *
Venus	20284-08-22 11:02 G	9129872.85	9129872.96	9129873.10	0.0145	0.0117
Venus	20285-04-05 23:31 G	9130099.30	9130099.48	9130099.68	0.0145	0.0071
Venus	20285-11-18 12:14 G	9130325.80	9130326.01	9130326.22	0.0146	0.0024
Venus	20286-07-03 00:43 G	9130552.31	9130552.53	9130552.74	0.0146	0.0023
Venus	20287-02-14 12:57 G	9130778.86	9130779.04	9130779.24	0.0146	0.0071
Mercury	20287-07-27 02:24 G	9130941.60	9130941.60	9130941.60	0.0146	0.0145
Venus	20287-09-29 01:26 G	9131005.45	9131005.56	9131005.70	0.0146	0.0118
Mercury	20287-10-23 07:12 G	9131029.73	9131029.80	9131029.90	0.0146	0.0123
Mercury	20288-01-19 12:43 G	9131117.92	9131118.03	9131118.15	0.0146	0.0099
Mercury	20288-04-16 18:00 G	9131206.12	9131206.25	9131206.39	0.0146	0.0075
Mercury	20288-07-13 23:16 G	9131294.33	9131294.47	9131294.62	0.0146	0.0051
Mercury	20288-10-10 04:48 G	9131382.55	9131382.70	9131382.85	0.0146	0.0027
Mercury	20289-01-06 10:19 G	9131470.77	9131470.93	9131471.08	0.0146	0.0004
Mercury	20289-04-04 15:36 G	9131559.00	9131559.15	9131559.31	0.0146	0.0023
Mercury	20289-07-01 21:07 G	9131647.23	9131647.38	9131647.53	0.0146	0.0047
Mercury	20289-09-28 02:38 G	9131735.48	9131735.61	9131735.75	0.0146	0.0072
Mercury	20289-12-25 08:09 G	9131823.73	9131823.84	9131823.97	0.0146	0.0098
Mercury	20290-03-23 13:55 G	9131912.00	9131912.08	9131912.17	0.0146	0.0123
Mars	20300-06-29 13:26 G	9135661.74	9135662.06	9135662.41	0.0143	0.0032
Moon	20316-04-18 16:33 G	9141434.19	9141434.19	9141434.21	0.0135	0.0135
Earth	20316-04-18 19:40 G	9141434.27	9141434.32	9141434.43	0.0135	0.0129
Earth	20317-04-23 06:57 G	9141803.59	9141803.79	9141804.02	0.0135	0.0074
Moon	20317-04-23 10:33 G	9141803.72	9141803.94	9141804.17	0.0135	0.0067 *

Moon	20318-04-27 14:24 G	9142172.85	9142173.10	9142173.35	0.0135	0.0019
Earth	20318-04-27 17:45 G	9142172.99	9142173.24	9142173.50	0.0135	0.0018 *
Earth	20319-05-02 03:50 G	9142542.42	9142542.66	9142542.91	0.0134	0.0037
Moon	20319-05-02 07:40 G	9142542.57	9142542.82	9142543.07	0.0134	0.0036 *
Moon	20320-05-05 09:50 G	9142911.76	9142911.91	9142912.11	0.0134	0.0096
Earth	20320-05-05 13:26 G	9142911.89	9142912.06	9142912.26	0.0134	0.0091 *
Venus	20325-07-21 12:43 G	9144815.00	9144815.03	9144815.10	0.0133	0.0129
Venus	20326-03-04 18:28 G	9145041.12	9145041.27	9145041.43	0.0133	0.0093
Venus	20326-10-16 23:31 G	9145267.30	9145267.48	9145267.69	0.0133	0.0058
Venus	20327-05-31 05:02 G	9145493.49	9145493.71	9145493.92	0.0133	0.0022
Venus	20328-01-12 10:04 G	9145719.70	9145719.92	9145720.14	0.0133	0.0014
Venus	20328-08-25 15:07 G	9145945.93	9145946.13	9145946.34	0.0133	0.0049
Venus	20329-04-08 19:55 G	9146172.18	9146172.33	9146172.52	0.0133	0.0085
Mercury	20329-08-18 07:26 G	9146303.77	9146303.81	9146303.86	0.0133	0.0127
Mercury	20329-11-14 12:00 G	9146391.92	9146392.00	9146392.10	0.0133	0.0108
Venus	20329-11-21 00:57 G	9146398.47	9146398.54	9146398.65	0.0133	0.0120
Mercury	20330-02-10 16:33 G	9146480.08	9146480.19	9146480.32	0.0133	0.0089
Mercury	20330-05-09 21:21 G	9146568.26	9146568.39	9146568.53	0.0133	0.0069
Mercury	20330-08-06 01:55 G	9146656.43	9146656.58	9146656.73	0.0133	0.0050
Mercury	20330-11-02 06:14 G	9146744.62	9146744.76	9146744.92	0.0133	0.0032
Mercury	20331-01-29 10:48 G	9146832.80	9146832.95	9146833.11	0.0133	0.0013
Mercury	20331-04-27 15:21 G	9146920.98	9146921.14	9146921.30	0.0133	0.0006
Mercury	20331-07-24 19:40 G	9147009.17	9147009.32	9147009.48	0.0133	0.0025
Mercury	20331-10-21 00:00 G	9147097.36	9147097.50	9147097.65	0.0133	0.0043
Mercury	20332-01-17 04:19 G	9147185.55	9147185.68	9147185.82	0.0133	0.0061
Mercury	20332-04-14 08:38 G	9147273.74	9147273.86	9147273.99	0.0133	0.0079
Mercury	20332-07-11 12:57 G	9147361.94	9147362.04	9147362.15	0.0133	0.0097
Mercury	20332-10-07 17:02 G	9147450.14	9147450.21	9147450.29	0.0133	0.0115
Mercury	20333-01-03 21:21 G	9147538.39	9147538.39	9147538.40	0.0133	0.0133
Mars	20344-08-30 01:12 G	9151794.27	9151794.55	9151794.83	0.0136	0.0012

Mars	20346-07-30 06:57 G	9152493.69	9152493.79	9152493.93	0.0137	0.0123
Earth	20360-10-21 21:36 G	9157691.23	9157691.40	9157691.59	0.0143	0.0099
Moon	20360-10-22 00:57 G	9157691.39	9157691.54	9157691.73	0.0143	0.0108 *
Moon	20361-10-26 15:36 G	9158060.91	9158061.15	9158061.40	0.0143	0.0027
Earth	20361-10-26 18:57 G	9158061.05	9158061.29	9158061.54	0.0143	0.0034 *
Earth	20362-10-31 16:48 G	9158430.95	9158431.20	9158431.45	0.0144	0.0032
Moon	20362-10-31 20:09 G	9158431.10	9158431.34	9158431.59	0.0144	0.0029 *
Moon	20363-11-05 11:02 G	9158800.80	9158800.96	9158801.16	0.0144	0.0100
Earth	20363-11-05 14:38 G	9158800.95	9158801.11	9158801.32	0.0144	0.0100 *
Venus	20368-04-22 17:45 G	9160431.19	9160431.24	9160431.33	0.0145	0.0137
Venus	20368-12-05 06:28 G	9160657.60	9160657.77	9160657.94	0.0145	0.0091
Venus	20369-07-19 18:57 G	9160884.08	9160884.29	9160884.50	0.0145	0.0044
Venus	20370-03-03 07:26 G	9161110.59	9161110.81	9161111.02	0.0145	0.0004
Venus	20370-10-15 19:55 G	9161337.13	9161337.33	9161337.54	0.0146	0.0050
Venus	20371-05-30 08:09 G	9161563.69	9161563.84	9161564.01	0.0146	0.0097
Mercury	20371-08-17 09:36 G	9161642.87	9161642.90	9161642.96	0.0146	0.0139
Mercury	20371-11-13 14:52 G	9161731.04	9161731.12	9161731.22	0.0146	0.0116
Venus	20372-01-11 20:52 G	9161790.33	9161790.37	9161790.41	0.0146	0.0143
Mercury	20372-02-09 20:09 G	9161819.23	9161819.34	9161819.47	0.0146	0.0092
Mercury	20372-05-08 01:40 G	9161907.43	9161907.57	9161907.70	0.0146	0.0068
Mercury	20372-08-04 06:57 G	9161995.64	9161995.79	9161995.94	0.0146	0.0044
Mercury	20372-10-31 12:14 G	9162083.86	9162084.01	9162084.17	0.0146	0.0020
Mercury	20373-01-27 17:45 G	9162172.08	9162172.24	9162172.40	0.0146	0.0005
Mercury	20373-04-25 23:16 G	9162260.31	9162260.47	9162260.62	0.0146	0.0030
Mercury	20373-07-23 04:33 G	9162348.55	9162348.69	9162348.84	0.0146	0.0055
Mercury	20373-10-19 10:04 G	9162436.80	9162436.92	9162437.06	0.0146	0.0080
Mercury	20374-01-15 15:36 G	9162525.05	9162525.15	9162525.27	0.0146	0.0105
Mercury	20374-04-13 21:21 G	9162613.33	9162613.39	9162613.47	0.0146	0.0130
Mars	20385-02-24 05:02 G	9166582.39	9166582.71	9166583.03	0.0142	0.0047
Moon	20400-04-19 05:16 G	9172115.62	9172115.72	9172115.86	0.0136	0.0118

Earth	20400-04-19 07:55 G	9172115.75	9172115.83	9172115.95	0.0136	0.0125 *
Earth	20401-04-23 19:12 G	9172485.09	9172485.30	9172485.53	0.0135	0.0069
Moon	20401-04-23 22:33 G	9172485.23	9172485.44	9172485.67	0.0135	0.0073 *
Moon	20402-04-28 02:52 G	9172854.37	9172854.62	9172854.88	0.0135	0.0010
Earth	20402-04-28 06:00 G	9172854.50	9172854.75	9172855.01	0.0135	0.0014 *
Earth	20403-05-02 16:04 G	9173223.93	9173224.17	9173224.42	0.0135	0.0042
Moon	20403-05-02 19:26 G	9173224.07	9173224.31	9173224.56	0.0135	0.0043 *
Moon	20404-05-05 22:04 G	9173593.26	9173593.42	9173593.62	0.0134	0.0093
Earth	20404-05-06 01:40 G	9173593.41	9173593.57	9173593.77	0.0134	0.0096 *
Venus	20409-11-02 06:00 G	9175599.63	9175599.75	9175599.89	0.0133	0.0107
Venus	20410-06-16 11:31 G	9175825.80	9175825.98	9175826.16	0.0133	0.0071
Venus	20411-01-28 16:33 G	9176051.99	9176052.19	9176052.41	0.0133	0.0036
Venus	20411-09-11 21:50 G	9176278.19	9176278.41	9176278.63	0.0133	0.0001
Venus	20412-04-25 02:52 G	9176504.42	9176504.62	9176504.84	0.0133	0.0036
Venus	20412-12-07 07:55 G	9176730.66	9176730.83	9176731.02	0.0133	0.0071
Venus	20413-07-21 12:43 G	9176956.92	9176957.03	9176957.18	0.0133	0.0106
Mercury	20413-09-07 15:07 G	9177005.07	9177005.13	9177005.21	0.0133	0.0120
Mercury	20413-12-04 19:40 G	9177093.23	9177093.32	9177093.44	0.0133	0.0101
Mercury	20414-03-03 00:28 G	9177181.40	9177181.52	9177181.65	0.0133	0.0081
Mercury	20414-05-30 05:02 G	9177269.57	9177269.71	9177269.85	0.0133	0.0062
Mercury	20414-08-26 09:36 G	9177357.75	9177357.90	9177358.05	0.0133	0.0043
Mercury	20414-11-22 14:09 G	9177445.94	9177446.09	9177446.25	0.0133	0.0024
Mercury	20415-02-18 18:43 G	9177534.12	9177534.28	9177534.43	0.0133	0.0006
Mercury	20415-05-17 23:02 G	9177622.30	9177622.46	9177622.62	0.0133	0.0013
Mercury	20415-08-14 03:21 G	9177710.49	9177710.64	9177710.80	0.0133	0.0032
Mercury	20415-11-10 07:40 G	9177798.68	9177798.82	9177798.97	0.0133	0.0050
Mercury	20416-02-06 12:00 G	9177886.87	9177887.00	9177887.14	0.0133	0.0068
Mercury	20416-05-04 16:19 G	9177975.07	9177975.18	9177975.30	0.0133	0.0086
Mercury	20416-07-31 20:38 G	9178063.27	9178063.36	9178063.46	0.0133	0.0104
Mercury	20416-10-28 00:43 G	9178151.48	9178151.53	9178151.60	0.0133	0.0122

Mars	20427-05-26 07:26 G	9182013.62	9182013.81	9182014.04	0.0135	0.0090
Mars	20429-04-24 09:21 G	9182712.63	9182712.89	9182713.16	0.0136	0.0043
Earth	20444-10-22 09:21 G	9188372.70	9188372.89	9188373.08	0.0143	0.0096
Moon	20444-10-22 12:14 G	9188372.81	9188373.01	9188373.22	0.0143	0.0088 *
Moon	20445-10-27 03:07 G	9188742.39	9188742.63	9188742.88	0.0143	0.0037
Earth	20445-10-27 06:43 G	9188742.53	9188742.78	9188743.03	0.0143	0.0030 *
Earth	20446-11-01 04:19 G	9189112.44	9189112.68	9189112.93	0.0144	0.0036
Moon	20446-11-01 07:55 G	9189112.59	9189112.83	9189113.08	0.0144	0.0042 *
Moon	20447-11-05 23:02 G	9189482.29	9189482.46	9189482.65	0.0144	0.0102
Earth	20447-11-06 02:24 G	9189482.44	9189482.60	9189482.79	0.0144	0.0103 *
Venus	20452-08-04 13:12 G	9191215.92	9191216.05	9191216.20	0.0145	0.0110
Venus	20453-03-19 01:26 G	9191442.38	9191442.56	9191442.77	0.0145	0.0064
Venus	20453-10-31 14:09 G	9191668.88	9191669.09	9191669.31	0.0145	0.0017
Venus	20454-06-15 02:24 G	9191895.39	9191895.60	9191895.82	0.0146	0.0030
Venus	20455-01-27 14:38 G	9192121.94	9192122.11	9192122.31	0.0146	0.0077
Mercury	20455-09-06 17:16 G	9192344.17	9192344.22	9192344.29	0.0146	0.0132
Venus	20455-09-11 03:21 G	9192348.53	9192348.64	9192348.76	0.0146	0.0123
Mercury	20455-12-03 22:19 G	9192432.34	9192432.43	9192432.55	0.0146	0.0109
Mercury	20456-03-01 03:50 G	9192520.54	9192520.66	9192520.79	0.0146	0.0084
Mercury	20456-05-28 09:07 G	9192608.74	9192608.88	9192609.02	0.0146	0.0061
Mercury	20456-08-24 14:24 G	9192696.95	9192697.10	9192697.26	0.0146	0.0037
Mercury	20456-11-20 19:55 G	9192785.17	9192785.33	9192785.48	0.0146	0.0012
Mercury	20457-02-17 01:12 G	9192873.40	9192873.55	9192873.71	0.0146	0.0013
Mercury	20457-05-16 06:43 G	9192961.63	9192961.78	9192961.93	0.0146	0.0037
Mercury	20457-08-12 12:14 G	9193049.87	9193050.01	9193050.16	0.0146	0.0062
Mercury	20457-11-08 17:45 G	9193138.12	9193138.24	9193138.37	0.0146	0.0087
Mercury	20458-02-04 23:31 G	9193226.38	9193226.48	9193226.58	0.0146	0.0112
Mercury	20458-05-04 04:48 G	9193314.66	9193314.70	9193314.76	0.0145	0.0138
Mars	20467-11-14 15:50 G	9196795.87	9196796.16	9196796.46	0.0143	0.0071
Mars	20469-10-21 20:52 G	9197503.23	9197503.37	9197503.55	0.0142	0.0125

Moon	20484-04-19 18:14 G	9202797.18	9202797.26	9202797.35	0.0136	0.0127
Earth	20484-04-19 20:52 G	9202797.26	9202797.37	9202797.50	0.0136	0.0120 *
Earth	20485-04-24 07:55 G	9203166.62	9203166.83	9203167.06	0.0135	0.0064
Moon	20485-04-24 10:19 G	9203166.71	9203166.93	9203167.18	0.0135	0.0059 *
Moon	20486-04-28 15:50 G	9203535.91	9203536.16	9203536.41	0.0135	0.0011
Earth	20486-04-28 18:43 G	9203536.03	9203536.28	9203536.54	0.0135	0.0009 *
Earth	20487-05-03 04:48 G	9203905.47	9203905.70	9203905.95	0.0135	0.0047
Moon	20487-05-03 07:55 G	9203905.60	9203905.83	9203906.09	0.0135	0.0047 *
Moon	20488-05-06 12:00 G	9204274.84	9204275.00	9204275.16	0.0134	0.0104
Earth	20488-05-06 14:52 G	9204274.96	9204275.12	9204275.29	0.0134	0.0101 *
Venus	20493-07-02 17:45 G	9206158.16	9206158.24	9206158.34	0.0133	0.0120
Venus	20494-02-13 23:02 G	9206384.31	9206384.46	9206384.64	0.0133	0.0085
Venus	20494-09-28 04:33 G	9206610.49	9206610.69	9206610.90	0.0133	0.0049
Venus	20495-05-12 09:36 G	9206836.69	9206836.90	9206837.13	0.0133	0.0014
Venus	20495-12-24 14:52 G	9207062.90	9207063.12	9207063.34	0.0133	0.0022
Venus	20496-08-06 19:55 G	9207289.13	9207289.33	9207289.53	0.0133	0.0057
Venus	20497-03-21 00:43 G	9207515.39	9207515.53	9207515.70	0.0133	0.0093
Mercury	20497-07-01 18:00 G	9207618.25	9207618.25	9207618.28	0.0133	0.0132
Mercury	20497-09-27 23:02 G	9207706.38	9207706.46	9207706.55	0.0133	0.0112
Venus	20497-11-02 06:00 G	9207741.70	9207741.75	9207741.81	0.0133	0.0127
Mercury	20497-12-25 03:36 G	9207794.54	9207794.65	9207794.77	0.0133	0.0093
Mercury	20498-03-23 08:09 G	9207882.72	9207882.84	9207882.98	0.0133	0.0074
Mercury	20498-06-19 12:43 G	9207970.89	9207971.03	9207971.18	0.0133	0.0055
Mercury	20498-09-15 17:16 G	9208059.07	9208059.22	9208059.38	0.0133	0.0036
Mercury	20498-12-12 21:50 G	9208147.26	9208147.41	9208147.57	0.0133	0.0017
Mercury	20499-03-11 02:24 G	9208235.44	9208235.60	9208235.76	0.0133	0.0002
Mercury	20499-06-07 06:43 G	9208323.63	9208323.78	9208323.94	0.0133	0.0021
Mercury	20499-09-03 11:02 G	9208411.82	9208411.96	9208412.12	0.0133	0.0039
Mercury	20499-11-30 15:36 G	9208500.01	9208500.15	9208500.29	0.0133	0.0057
Mercury	20500-02-26 19:40 G	9208588.20	9208588.32	9208588.46	0.0133	0.0076

Mercury	20500-05-26 00:00 G	9208676.40	9208676.50	9208676.62	0.0133	0.0094
Mercury	20500-08-22 04:04 G	9208764.60	9208764.67	9208764.77	0.0133	0.0112
Mercury	20500-11-18 08:38 G	9208852.83	9208852.86	9208852.89	0.0133	0.0129
Mars	20512-01-19 15:21 G	9212931.88	9212932.14	9212932.42	0.0136	0.0036
Mars	20513-12-18 18:00 G	9213631.08	9213631.25	9213631.46	0.0136	0.0100
Earth	20528-10-23 20:24 G	9219054.17	9219054.35	9219054.55	0.0143	0.0091
Moon	20528-10-23 23:45 G	9219054.30	9219054.49	9219054.68	0.0143	0.0098 *
Moon	20529-10-28 14:52 G	9219423.88	9219424.12	9219424.37	0.0143	0.0019
Earth	20529-10-28 17:45 G	9219424.00	9219424.24	9219424.50	0.0143	0.0026 *
Earth	20530-11-02 15:21 G	9219793.91	9219794.14	9219794.39	0.0144	0.0041
Moon	20530-11-02 18:57 G	9219794.04	9219794.29	9219794.54	0.0144	0.0036 *
Moon	20531-11-07 09:50 G	9220163.77	9220163.91	9220164.09	0.0144	0.0110
Earth	20531-11-07 13:40 G	9220163.92	9220164.07	9220164.25	0.0144	0.0107 *
Venus	20536-04-04 19:12 G	9221774.23	9221774.30	9221774.41	0.0145	0.0131
Venus	20536-11-17 07:26 G	9222000.65	9222000.81	9222001.00	0.0145	0.0086
Venus	20537-07-01 19:55 G	9222227.13	9222227.33	9222227.55	0.0145	0.0039
Venus	20538-02-13 08:24 G	9222453.63	9222453.85	9222454.07	0.0145	0.0008
Venus	20538-09-27 20:38 G	9222680.17	9222680.36	9222680.57	0.0145	0.0055
Venus	20539-05-12 09:07 G	9222906.73	9222906.88	9222907.04	0.0145	0.0101
Mercury	20539-09-28 00:43 G	9223045.45	9223045.53	9223045.60	0.0145	0.0126
Mercury	20539-12-25 05:45 G	9223133.64	9223133.74	9223133.85	0.0145	0.0103
Mercury	20540-03-22 11:02 G	9223221.83	9223221.96	9223222.09	0.0145	0.0079
Mercury	20540-06-18 16:19 G	9223310.04	9223310.18	9223310.32	0.0145	0.0055
Mercury	20540-09-14 21:36 G	9223398.25	9223398.40	9223398.55	0.0145	0.0031
Mercury	20540-12-12 03:07 G	9223486.47	9223486.63	9223486.78	0.0145	0.0008
Mercury	20541-03-10 08:24 G	9223574.70	9223574.85	9223575.01	0.0145	0.0018
Mercury	20541-06-06 13:55 G	9223662.93	9223663.08	9223663.23	0.0145	0.0042
Mercury	20541-09-02 19:12 G	9223751.17	9223751.30	9223751.45	0.0145	0.0068
Mercury	20541-11-30 00:43 G	9223839.42	9223839.53	9223839.66	0.0145	0.0093
Mercury	20542-02-26 06:28 G	9223927.68	9223927.77	9223927.87	0.0145	0.0117

Mercury	20542-05-25 12:14 G	9224015.98	9224016.01	9224016.04	0.0145	0.0143
Mars	20552-07-12 03:36 G	9227716.31	9227716.65	9227716.99	0.0143	0.0006
Moon	20568-04-21 05:45 G	9233478.61	9233478.74	9233478.90	0.0136	0.0110
Earth	20568-04-21 07:12 G	9233478.70	9233478.80	9233478.95	0.0136	0.0117 *
Earth	20569-04-25 18:28 G	9233848.06	9233848.27	9233848.51	0.0135	0.0061
Moon	20569-04-25 21:07 G	9233848.17	9233848.38	9233848.62	0.0135	0.0066 *
Moon	20570-04-30 03:21 G	9234217.40	9234217.64	9234217.89	0.0135	0.0003
Earth	20570-04-30 05:45 G	9234217.48	9234217.74	9234218.00	0.0135	0.0005 *
Earth	20571-05-04 16:04 G	9234586.94	9234587.17	9234587.41	0.0135	0.0051
Moon	20571-05-04 18:43 G	9234587.04	9234587.28	9234587.53	0.0135	0.0051 *
Moon	20572-05-07 23:02 G	9234956.31	9234956.46	9234956.63	0.0134	0.0103
Earth	20572-05-08 01:40 G	9234956.43	9234956.57	9234956.75	0.0134	0.0106 *
Venus	20577-10-15 10:04 G	9236942.79	9236942.92	9236943.08	0.0133	0.0100
Venus	20578-05-29 15:50 G	9237168.96	9237169.16	9237169.35	0.0133	0.0064
Venus	20579-01-10 20:52 G	9237395.16	9237395.37	9237395.58	0.0133	0.0028
Venus	20579-08-25 01:55 G	9237621.37	9237621.58	9237621.80	0.0133	0.0008
Venus	20580-04-07 07:12 G	9237847.60	9237847.80	9237848.01	0.0133	0.0043
Venus	20580-11-19 12:14 G	9238073.84	9238074.01	9238074.19	0.0133	0.0078
Venus	20581-07-03 17:02 G	9238300.11	9238300.21	9238300.34	0.0133	0.0113
Mercury	20581-07-23 01:55 G	9238319.53	9238319.58	9238319.63	0.0133	0.0125
Mercury	20581-10-19 06:28 G	9238407.68	9238407.77	9238407.87	0.0133	0.0106
Mercury	20582-01-15 11:02 G	9238495.85	9238495.96	9238496.09	0.0133	0.0087
Mercury	20582-04-13 15:50 G	9238584.03	9238584.16	9238584.30	0.0133	0.0067
Mercury	20582-07-10 20:24 G	9238672.21	9238672.35	9238672.50	0.0133	0.0048
Mercury	20582-10-07 00:57 G	9238760.39	9238760.54	9238760.70	0.0133	0.0029
Mercury	20583-01-03 05:31 G	9238848.57	9238848.73	9238848.89	0.0133	0.0010
Mercury	20583-04-01 10:04 G	9238936.76	9238936.92	9238937.07	0.0133	0.0009
Mercury	20583-06-28 14:24 G	9239024.95	9239025.10	9239025.25	0.0133	0.0027
Mercury	20583-09-24 18:43 G	9239113.14	9239113.28	9239113.43	0.0133	0.0046
Mercury	20583-12-21 23:02 G	9239201.33	9239201.46	9239201.60	0.0133	0.0064

Mercury	20584-03-19 03:21 G	9239289.53	9239289.64	9239289.77	0.0133	0.0082
Mercury	20584-06-15 07:40 G	9239377.73	9239377.82	9239377.93	0.0133	0.0100
Mercury	20584-09-11 12:00 G	9239465.94	9239466.00	9239466.07	0.0133	0.0118
Mars	20594-10-14 23:02 G	9243151.33	9243151.46	9243151.63	0.0135	0.0113
Mars	20596-09-12 23:16 G	9243850.20	9243850.47	9243850.75	0.0136	0.0020
Earth	20612-10-25 08:38 G	9249735.67	9249735.86	9249736.07	0.0143	0.0087
Moon	20612-10-25 10:33 G	9249735.75	9249735.94	9249736.17	0.0143	0.0081 *
Moon	20613-10-30 03:07 G	9250105.39	9250105.63	9250105.87	0.0143	0.0029
Earth	20613-10-30 06:00 G	9250105.50	9250105.75	9250106.00	0.0143	0.0021 *
Earth	20614-11-04 03:36 G	9250475.42	9250475.65	9250475.90	0.0144	0.0045
Moon	20614-11-04 06:28 G	9250475.54	9250475.77	9250476.02	0.0144	0.0052 *
Moon	20615-11-08 22:19 G	9250845.29	9250845.43	9250845.61	0.0144	0.0110
Earth	20615-11-09 01:40 G	9250845.43	9250845.57	9250845.74	0.0144	0.0112 *
Venus	20620-07-18 14:09 G	9252558.96	9252559.09	9252559.26	0.0145	0.0106
Venus	20621-03-02 02:38 G	9252785.42	9252785.61	9252785.82	0.0145	0.0059
Venus	20621-10-14 15:07 G	9253011.92	9253012.13	9253012.35	0.0145	0.0013
Venus	20622-05-29 03:21 G	9253238.43	9253238.64	9253238.86	0.0145	0.0034
Venus	20623-01-10 15:36 G	9253464.98	9253465.15	9253465.34	0.0145	0.0081
Mercury	20623-07-23 02:52 G	9253658.60	9253658.62	9253658.66	0.0145	0.0142
Venus	20623-08-25 04:04 G	9253691.57	9253691.67	9253691.78	0.0145	0.0127
Mercury	20623-10-19 07:55 G	9253746.76	9253746.83	9253746.93	0.0145	0.0120
Mercury	20624-01-15 13:12 G	9253834.94	9253835.05	9253835.17	0.0145	0.0096
Mercury	20624-04-12 18:28 G	9253923.14	9253923.27	9253923.41	0.0145	0.0072
Mercury	20624-07-09 23:45 G	9254011.35	9254011.49	9254011.64	0.0145	0.0048
Mercury	20624-10-06 05:02 G	9254099.56	9254099.71	9254099.87	0.0145	0.0025
Mercury	20625-01-02 10:33 G	9254187.78	9254187.94	9254188.10	0.0145	0.0001
Mercury	20625-03-31 15:50 G	9254276.01	9254276.16	9254276.32	0.0145	0.0025
Mercury	20625-06-27 21:21 G	9254364.25	9254364.39	9254364.54	0.0145	0.0050
Mercury	20625-09-24 02:52 G	9254452.49	9254452.62	9254452.76	0.0145	0.0074
Mercury	20625-12-21 08:24 G	9254540.74	9254540.85	9254540.97	0.0145	0.0099

Mercury	20626-03-19 13:55 G	9254629.01	9254629.08	9254629.17	0.0145	0.0125
Mars	20635-04-02 09:07 G	9257929.69	9257929.88	9257930.09	0.0143	0.0116
Mars	20637-03-09 17:45 G	9258636.98	9258637.24	9258637.53	0.0142	0.0085
Moon	20652-04-22 17:16 G	9264160.12	9264160.22	9264160.35	0.0136	0.0120
Earth	20652-04-22 18:57 G	9264160.17	9264160.29	9264160.45	0.0136	0.0113 *
Earth	20653-04-27 06:28 G	9264529.55	9264529.77	9264530.01	0.0135	0.0057
Moon	20653-04-27 08:09 G	9264529.60	9264529.84	9264530.09	0.0135	0.0050 *
Moon	20654-05-01 15:36 G	9264898.90	9264899.15	9264899.40	0.0135	0.0004
Earth	20654-05-01 17:31 G	9264898.98	9264899.23	9264899.49	0.0135	0.0003 *
Earth	20655-05-06 04:04 G	9265268.44	9265268.67	9265268.90	0.0135	0.0055
Moon	20655-05-06 06:14 G	9265268.53	9265268.76	9265269.00	0.0135	0.0056 *
Moon	20656-05-09 12:00 G	9265637.87	9265638.00	9265638.14	0.0134	0.0112
Earth	20656-05-09 13:55 G	9265637.95	9265638.08	9265638.24	0.0134	0.0110 *
Venus	20661-06-15 21:21 G	9267501.29	9267501.39	9267501.51	0.0133	0.0113
Venus	20662-01-28 02:38 G	9267727.45	9267727.61	9267727.80	0.0133	0.0078
Venus	20662-09-11 08:09 G	9267953.63	9267953.84	9267954.05	0.0133	0.0042
Venus	20663-04-25 13:26 G	9268179.84	9268180.06	9268180.28	0.0133	0.0007
Venus	20663-12-07 18:28 G	9268406.06	9268406.27	9268406.49	0.0133	0.0029
Venus	20664-07-20 23:16 G	9268632.30	9268632.47	9268632.68	0.0133	0.0065
Venus	20665-03-04 04:33 G	9268858.56	9268858.69	9268858.84	0.0133	0.0099
Mercury	20665-08-13 09:36 G	9269020.83	9269020.90	9269020.97	0.0133	0.0118
Mercury	20665-11-09 14:09 G	9269108.99	9269109.09	9269109.20	0.0133	0.0099
Mercury	20666-02-05 18:43 G	9269197.16	9269197.28	9269197.41	0.0133	0.0080
Mercury	20666-05-04 23:31 G	9269285.34	9269285.48	9269285.62	0.0133	0.0060
Mercury	20666-08-01 04:04 G	9269373.52	9269373.67	9269373.82	0.0133	0.0041
Mercury	20666-10-28 08:38 G	9269461.70	9269461.86	9269462.02	0.0133	0.0022
Mercury	20667-01-24 13:12 G	9269549.89	9269550.05	9269550.20	0.0133	0.0004
Mercury	20667-04-22 17:31 G	9269638.08	9269638.23	9269638.39	0.0133	0.0016
Mercury	20667-07-19 22:04 G	9269726.27	9269726.42	9269726.57	0.0133	0.0034
Mercury	20667-10-16 02:24 G	9269814.46	9269814.60	9269814.75	0.0133	0.0052

Mercury	20668-01-12 06:43 G	9269902.65	9269902.78	9269902.92	0.0133	0.0071
Mercury	20668-04-09 11:02 G	9269990.85	9269990.96	9269991.08	0.0133	0.0089
Mercury	20668-07-06 15:21 G	9270079.06	9270079.14	9270079.23	0.0133	0.0107
Mercury	20668-10-02 19:40 G	9270167.27	9270167.32	9270167.37	0.0133	0.0125
Mars	20679-06-10 07:26 G	9274069.57	9274069.81	9274070.07	0.0135	0.0059
Mars	20681-05-09 07:40 G	9274768.61	9274768.82	9274769.07	0.0136	0.0077
Earth	20696-10-25 21:50 G	9280417.21	9280417.41	9280417.63	0.0143	0.0082
Moon	20696-10-26 00:14 G	9280417.31	9280417.51	9280417.72	0.0143	0.0088 *
Moon	20697-10-30 17:16 G	9280786.97	9280787.22	9280787.46	0.0143	0.0009
Earth	20697-10-30 19:12 G	9280787.05	9280787.30	9280787.55	0.0143	0.0016 *
Earth	20698-11-04 16:33 G	9281156.96	9281157.19	9281157.43	0.0144	0.0051
Moon	20698-11-04 19:26 G	9281157.08	9281157.31	9281157.57	0.0144	0.0046 *
Moon	20699-11-09 11:31 G	9281526.86	9281526.98	9281527.13	0.0144	0.0121
Earth	20699-11-09 14:38 G	9281526.98	9281527.11	9281527.27	0.0144	0.0117 *
Venus	20704-03-18 21:50 G	9283117.30	9283117.41	9283117.52	0.0145	0.0124
Venus	20704-10-31 09:36 G	9283343.74	9283343.90	9283344.10	0.0145	0.0080
Venus	20705-06-14 21:50 G	9283570.21	9283570.41	9283570.63	0.0145	0.0034
Venus	20706-01-27 10:19 G	9283796.71	9283796.93	9283797.15	0.0145	0.0013
Venus	20706-09-10 22:19 G	9284023.25	9284023.43	9284023.64	0.0145	0.0061
Venus	20707-04-25 10:33 G	9284249.81	9284249.94	9284250.11	0.0145	0.0107
Mercury	20707-08-13 10:33 G	9284359.89	9284359.94	9284360.00	0.0145	0.0135
Mercury	20707-11-09 15:36 G	9284448.06	9284448.15	9284448.25	0.0145	0.0112
Mercury	20708-02-05 20:52 G	9284536.25	9284536.37	9284536.49	0.0145	0.0089
Mercury	20708-05-04 01:55 G	9284624.45	9284624.58	9284624.73	0.0145	0.0066
Mercury	20708-07-31 07:26 G	9284712.66	9284712.81	9284712.96	0.0145	0.0041
Mercury	20708-10-27 12:43 G	9284800.88	9284801.03	9284801.19	0.0145	0.0017
Mercury	20709-01-23 18:00 G	9284889.10	9284889.25	9284889.41	0.0145	0.0008
Mercury	20709-04-21 23:31 G	9284977.33	9284977.48	9284977.63	0.0145	0.0032
Mercury	20709-07-19 05:02 G	9285065.56	9285065.71	9285065.85	0.0145	0.0057
Mercury	20709-10-15 10:19 G	9285153.81	9285153.93	9285154.07	0.0145	0.0082

Mercury	20710-01-11 15:50 G	9285242.06	9285242.16	9285242.28	0.0145	0.0107
Mercury	20710-04-09 21:36 G	9285330.34	9285330.40	9285330.47	0.0145	0.0132
Mars	20719-11-28 23:02 G	9288850.14	9288850.46	9288850.80	0.0143	0.0037
Moon	20736-04-24 04:33 G	9294841.55	9294841.69	9294841.87	0.0136	0.0104
Earth	20736-04-24 05:02 G	9294841.58	9294841.71	9294841.88	0.0136	0.0110 *
Earth	20737-04-28 16:33 G	9295210.97	9295211.19	9295211.44	0.0135	0.0054
Moon	20737-04-28 18:00 G	9295211.03	9295211.25	9295211.50	0.0135	0.0059 *
Moon	20738-05-03 02:52 G	9295580.37	9295580.62	9295580.87	0.0135	0.0008
Earth	20738-05-03 04:04 G	9295580.41	9295580.67	9295580.93	0.0135	0.0003 *
Earth	20739-05-07 14:24 G	9295949.88	9295950.10	9295950.34	0.0135	0.0059
Moon	20739-05-07 16:19 G	9295949.94	9295950.18	9295950.42	0.0135	0.0057 *
Moon	20740-05-10 23:02 G	9296319.32	9296319.46	9296319.59	0.0134	0.0112
Earth	20740-05-11 00:28 G	9296319.40	9296319.52	9296319.67	0.0134	0.0114 *
Venus	20745-02-14 07:40 G	9298059.78	9298059.82	9298059.89	0.0133	0.0129
Venus	20745-09-28 13:26 G	9298285.90	9298286.06	9298286.22	0.0133	0.0093
Venus	20746-05-12 18:28 G	9298512.08	9298512.27	9298512.48	0.0133	0.0058
Venus	20746-12-24 23:45 G	9298738.28	9298738.49	9298738.71	0.0133	0.0022
Venus	20747-08-08 05:02 G	9298964.50	9298964.71	9298964.93	0.0133	0.0014
Venus	20748-03-21 10:04 G	9299190.73	9299190.92	9299191.14	0.0133	0.0050
Venus	20748-11-02 15:21 G	9299416.98	9299417.14	9299417.32	0.0133	0.0084
Mercury	20749-06-07 12:00 G	9299633.99	9299634.00	9299634.02	0.0133	0.0132
Venus	20749-06-16 20:24 G	9299643.26	9299643.35	9299643.45	0.0133	0.0119
Mercury	20749-09-03 16:33 G	9299722.12	9299722.19	9299722.29	0.0133	0.0113
Mercury	20749-11-30 21:21 G	9299810.29	9299810.39	9299810.51	0.0133	0.0093
Mercury	20750-02-27 02:09 G	9299898.46	9299898.59	9299898.73	0.0133	0.0074
Mercury	20750-05-26 06:43 G	9299986.64	9299986.78	9299986.93	0.0133	0.0055
Mercury	20750-08-22 11:31 G	9300074.82	9300074.98	9300075.13	0.0133	0.0035
Mercury	20750-11-18 16:04 G	9300163.01	9300163.17	9300163.32	0.0133	0.0016
Mercury	20751-02-14 20:38 G	9300251.20	9300251.36	9300251.51	0.0133	0.0004
Mercury	20751-05-14 00:57 G	9300339.39	9300339.54	9300339.70	0.0133	0.0021

Mercury	20751-08-10 05:16 G	9300427.58	9300427.72	9300427.88	0.0133	0.0040
Mercury	20751-11-06 09:50 G	9300515.77	9300515.91	9300516.05	0.0133	0.0058
Mercury	20752-02-02 14:09 G	9300603.97	9300604.09	9300604.22	0.0133	0.0077
Mercury	20752-04-30 18:28 G	9300692.17	9300692.27	9300692.38	0.0133	0.0095
Mercury	20752-07-27 22:48 G	9300780.38	9300780.45	9300780.53	0.0133	0.0113
Mercury	20752-10-24 02:52 G	9300868.61	9300868.62	9300868.66	0.0133	0.0132
Mars	20764-02-03 13:12 G	9304987.77	9304988.05	9304988.33	0.0136	0.0003
Mars	20766-01-02 15:21 G	9305687.11	9305687.14	9305687.19	0.0136	0.0135
Earth	20779-10-23 14:09 G	9310729.09	9310729.09	9310729.11	0.0142	0.0142
Earth	20780-10-27 10:48 G	9311098.75	9311098.95	9311099.17	0.0143	0.0078
Moon	20780-10-27 11:45 G	9311098.78	9311098.99	9311099.23	0.0143	0.0072 *
Moon	20781-11-01 06:00 G	9311468.51	9311468.75	9311469.00	0.0143	0.0019
Earth	20781-11-01 08:09 G	9311468.59	9311468.84	9311469.09	0.0143	0.0012 *
Earth	20782-11-06 05:45 G	9311838.51	9311838.74	9311838.97	0.0144	0.0055
Moon	20782-11-06 07:40 G	9311838.60	9311838.82	9311839.07	0.0144	0.0062 *
Moon	20783-11-11 01:12 G	9312208.41	9312208.55	9312208.68	0.0144	0.0119
Earth	20783-11-11 03:36 G	9312208.53	9312208.65	9312208.79	0.0144	0.0122 *
Venus	20787-11-17 05:16 G	9313675.70	9313675.72	9313675.76	0.0145	0.0143
Venus	20788-06-30 17:16 G	9313902.07	9313902.22	9313902.39	0.0145	0.0098
Venus	20789-02-12 05:31 G	9314128.53	9314128.73	9314128.94	0.0145	0.0052
Venus	20789-09-26 17:45 G	9314355.03	9314355.24	9314355.46	0.0145	0.0007
Venus	20790-05-11 06:00 G	9314581.55	9314581.75	9314581.96	0.0145	0.0040
Venus	20790-12-23 18:14 G	9314808.09	9314808.26	9314808.44	0.0145	0.0086
Venus	20791-08-07 06:28 G	9315034.69	9315034.77	9315034.86	0.0145	0.0133
Mercury	20791-09-02 18:14 G	9315061.20	9315061.26	9315061.34	0.0145	0.0128
Mercury	20791-11-29 23:16 G	9315149.38	9315149.47	9315149.59	0.0145	0.0105
Mercury	20792-02-26 04:48 G	9315237.57	9315237.70	9315237.82	0.0145	0.0081
Mercury	20792-05-24 09:50 G	9315325.77	9315325.91	9315326.06	0.0145	0.0057
Mercury	20792-08-20 15:07 G	9315413.98	9315414.13	9315414.29	0.0145	0.0033
Mercury	20792-11-16 20:38 G	9315502.20	9315502.36	9315502.51	0.0145	0.0009

Mercury	20793-02-13 01:55 G	9315590.43	9315590.58	9315590.74	0.0145	0.0016
Mercury	20793-05-12 07:12 G	9315678.66	9315678.80	9315678.96	0.0145	0.0040
Mercury	20793-08-08 12:43 G	9315766.89	9315767.03	9315767.17	0.0145	0.0065
Mercury	20793-11-04 18:14 G	9315855.14	9315855.26	9315855.39	0.0145	0.0090
Mercury	20794-02-01 00:00 G	9315943.40	9315943.50	9315943.59	0.0145	0.0115
Mercury	20794-04-30 05:16 G	9316031.69	9316031.72	9316031.77	0.0145	0.0140
Mars	20804-07-25 17:02 G	9319770.90	9319771.21	9319771.55	0.0143	0.0044
Moon	20820-04-24 16:33 G	9325523.05	9325523.19	9325523.32	0.0136	0.0113
Earth	20820-04-24 16:48 G	9325523.05	9325523.20	9325523.36	0.0136	0.0106 *
Earth	20821-04-29 04:33 G	9325892.45	9325892.69	9325892.93	0.0135	0.0050
Moon	20821-04-29 04:33 G	9325892.45	9325892.69	9325892.95	0.0135	0.0043 *
Moon	20822-05-03 14:52 G	9326261.87	9326262.12	9326262.37	0.0135	0.0002
Earth	20822-05-03 15:36 G	9326261.90	9326262.15	9326262.41	0.0135	0.0007 *
Earth	20823-05-08 01:55 G	9326631.37	9326631.58	9326631.82	0.0135	0.0063
Moon	20823-05-08 03:07 G	9326631.41	9326631.63	9326631.87	0.0135	0.0065 *
Moon	20824-05-11 11:45 G	9327000.87	9327000.99	9327001.10	0.0134	0.0118
Earth	20824-05-11 12:14 G	9327000.90	9327001.01	9327001.15	0.0134	0.0117 *
Venus	20829-05-28 23:45 G	9328844.38	9328844.49	9328844.64	0.0133	0.0108
Venus	20830-01-10 05:31 G	9329070.54	9329070.73	9329070.91	0.0133	0.0072
Venus	20830-08-24 10:33 G	9329296.74	9329296.94	9329297.16	0.0133	0.0037
Venus	20831-04-07 16:04 G	9329522.95	9329523.17	9329523.39	0.0133	0.0001
Venus	20831-11-19 21:21 G	9329749.18	9329749.39	9329749.60	0.0133	0.0035
Venus	20832-07-03 02:09 G	9329975.42	9329975.59	9329975.79	0.0133	0.0070
Venus	20833-02-14 07:12 G	9330201.68	9330201.80	9330201.95	0.0133	0.0105
Mercury	20833-06-27 19:26 G	9330335.27	9330335.31	9330335.37	0.0133	0.0126
Mercury	20833-09-24 00:14 G	9330423.42	9330423.51	9330423.61	0.0133	0.0106
Mercury	20833-12-21 04:48 G	9330511.59	9330511.70	9330511.83	0.0133	0.0087
Mercury	20834-03-19 09:36 G	9330599.77	9330599.90	9330600.04	0.0133	0.0067
Mercury	20834-06-15 14:09 G	9330687.95	9330688.09	9330688.25	0.0133	0.0049
Mercury	20834-09-11 18:57 G	9330776.13	9330776.29	9330776.44	0.0133	0.0029

Mercury	20834-12-08 23:31 G	9330864.32	9330864.48	9330864.64	0.0133	0.0010
Mercury	20835-03-07 04:04 G	9330952.51	9330952.67	9330952.82	0.0133	0.0009
Mercury	20835-06-03 08:24 G	9331040.70	9331040.85	9331041.01	0.0133	0.0028
Mercury	20835-08-30 12:57 G	9331128.89	9331129.04	9331129.19	0.0133	0.0046
Mercury	20835-11-26 17:16 G	9331217.09	9331217.22	9331217.36	0.0133	0.0065
Mercury	20836-02-22 21:36 G	9331305.29	9331305.40	9331305.53	0.0133	0.0083
Mercury	20836-05-21 02:09 G	9331393.49	9331393.59	9331393.69	0.0133	0.0101
Mercury	20836-08-17 06:28 G	9331481.70	9331481.77	9331481.83	0.0133	0.0119
Mars	20846-10-29 19:12 G	9335207.09	9335207.30	9335207.53	0.0135	0.0083
Mars	20848-09-27 18:14 G	9335906.01	9335906.26	9335906.53	0.0136	0.0053
Moon	20863-10-24 02:24 G	9341410.55	9341410.60	9341410.67	0.0142	0.0138
Earth	20863-10-24 02:09 G	9341410.55	9341410.59	9341410.66	0.0142	0.0139 *
Earth	20864-10-27 22:48 G	9341780.25	9341780.45	9341780.68	0.0143	0.0074
Moon	20864-10-28 00:14 G	9341780.29	9341780.51	9341780.73	0.0143	0.0079 *
Moon	20865-11-01 19:26 G	9342150.06	9342150.31	9342150.55	0.0143	0.0002
Earth	20865-11-01 20:09 G	9342150.09	9342150.34	9342150.60	0.0143	0.0008 *
Earth	20866-11-06 17:31 G	9342520.01	9342520.23	9342520.47	0.0144	0.0060
Moon	20866-11-06 19:26 G	9342520.08	9342520.31	9342520.57	0.0144	0.0054 *
Moon	20867-11-11 13:12 G	9342889.97	9342890.05	9342890.17	0.0144	0.0131
Earth	20867-11-11 15:50 G	9342890.04	9342890.16	9342890.28	0.0144	0.0126 *
Venus	20872-02-29 00:28 G	9344460.40	9344460.52	9344460.65	0.0145	0.0117
Venus	20872-10-12 12:28 G	9344686.84	9344687.02	9344687.22	0.0145	0.0072
Venus	20873-05-27 00:43 G	9344913.32	9344913.53	9344913.75	0.0145	0.0026
Venus	20874-01-08 12:57 G	9345139.82	9345140.04	9345140.26	0.0145	0.0020
Venus	20874-08-23 01:12 G	9345366.36	9345366.55	9345366.74	0.0145	0.0066
Venus	20875-04-06 13:26 G	9345592.93	9345593.06	9345593.20	0.0145	0.0113
Mercury	20875-06-26 20:38 G	9345674.35	9345674.36	9345674.39	0.0145	0.0144
Mercury	20875-09-23 01:40 G	9345762.50	9345762.57	9345762.67	0.0145	0.0121
Mercury	20875-12-20 06:57 G	9345850.69	9345850.79	9345850.91	0.0145	0.0097
Mercury	20876-03-17 12:14 G	9345938.88	9345939.01	9345939.15	0.0145	0.0073

Mercury	20876-06-13 17:31 G	9346027.09	9346027.23	9346027.38	0.0145	0.0050
Mercury	20876-09-09 22:48 G	9346115.30	9346115.45	9346115.60	0.0145	0.0026
Mercury	20876-12-07 04:04 G	9346203.52	9346203.67	9346203.83	0.0145	0.0004
Mercury	20877-03-05 09:36 G	9346291.74	9346291.90	9346292.05	0.0145	0.0023
Mercury	20877-06-01 14:52 G	9346379.98	9346380.12	9346380.27	0.0145	0.0048
Mercury	20877-08-28 20:24 G	9346468.22	9346468.35	9346468.49	0.0145	0.0072
Mercury	20877-11-25 01:40 G	9346556.47	9346556.57	9346556.70	0.0145	0.0098
Mercury	20878-02-21 07:26 G	9346644.73	9346644.81	9346644.90	0.0145	0.0122
Mars	20887-04-14 21:07 G	9349984.11	9349984.38	9349984.68	0.0143	0.0080
Mars	20889-03-22 06:00 G	9350691.62	9350691.75	9350691.96	0.0142	0.0124
Earth	20904-04-26 02:38 G	9356204.46	9356204.61	9356204.79	0.0136	0.0104
Moon	20904-04-26 03:36 G	9356204.49	9356204.65	9356204.83	0.0136	0.0098 *
Moon	20905-04-30 14:24 G	9356573.86	9356574.10	9356574.35	0.0135	0.0053
Earth	20905-04-30 14:38 G	9356573.87	9356574.11	9356574.35	0.0135	0.0047 *
Earth	20906-05-05 01:40 G	9356943.32	9356943.57	9356943.83	0.0135	0.0010
Moon	20906-05-05 01:40 G	9356943.33	9356943.57	9356943.83	0.0135	0.0016 *
Moon	20907-05-09 12:14 G	9357312.79	9357313.01	9357313.26	0.0135	0.0063
Earth	20907-05-09 12:14 G	9357312.80	9357313.01	9357313.24	0.0135	0.0066 *
Moon	20908-05-12 21:36 G	9357682.31	9357682.40	9357682.53	0.0134	0.0121
Earth	20908-05-12 22:19 G	9357682.34	9357682.43	9357682.56	0.0134	0.0121 *
Venus	20913-01-27 09:36 G	9359402.83	9359402.90	9359403.00	0.0133	0.0123
Venus	20913-09-10 15:07 G	9359628.98	9359629.13	9359629.31	0.0133	0.0087
Venus	20914-04-24 20:38 G	9359855.17	9359855.36	9359855.57	0.0133	0.0052
Venus	20914-12-07 02:09 G	9360081.37	9360081.59	9360081.81	0.0133	0.0016
Venus	20915-07-21 07:26 G	9360307.59	9360307.81	9360308.02	0.0133	0.0019
Venus	20916-03-03 12:28 G	9360533.83	9360534.02	9360534.23	0.0133	0.0055
Venus	20916-10-15 17:31 G	9360760.08	9360760.23	9360760.40	0.0133	0.0090
Venus	20917-05-29 22:33 G	9360986.39	9360986.44	9360986.53	0.0133	0.0125
Mercury	20917-07-19 02:38 G	9361036.55	9361036.61	9361036.69	0.0133	0.0120
Mercury	20917-10-15 07:12 G	9361124.71	9361124.80	9361124.92	0.0133	0.0102

Mercury	20918-01-11 12:14 G	9361212.89	9361213.01	9361213.14	0.0133	0.0081
Mercury	20918-04-09 16:48 G	9361301.07	9361301.20	9361301.35	0.0133	0.0062
Mercury	20918-07-06 21:36 G	9361389.25	9361389.40	9361389.55	0.0133	0.0043
Mercury	20918-10-03 02:09 G	9361477.43	9361477.59	9361477.75	0.0133	0.0023
Mercury	20918-12-30 06:43 G	9361565.62	9361565.78	9361565.94	0.0133	0.0004
Mercury	20919-03-28 11:16 G	9361653.81	9361653.97	9361654.13	0.0133	0.0015
Mercury	20919-06-24 15:50 G	9361742.00	9361742.16	9361742.31	0.0133	0.0033
Mercury	20919-09-20 20:09 G	9361830.20	9361830.34	9361830.49	0.0133	0.0052
Mercury	20919-12-18 00:28 G	9361918.39	9361918.52	9361918.66	0.0133	0.0070
Mercury	20920-03-15 04:48 G	9362006.59	9362006.70	9362006.82	0.0133	0.0089
Mercury	20920-06-11 09:07 G	9362094.80	9362094.88	9362094.98	0.0133	0.0107
Mercury	20920-09-07 13:26 G	9362183.02	9362183.06	9362183.12	0.0133	0.0125
Mars	20931-06-24 22:48 G	9366125.19	9366125.45	9366125.74	0.0135	0.0030
Mars	20933-05-24 00:43 G	9366824.37	9366824.53	9366824.70	0.0136	0.0109
Earth	20947-10-25 12:43 G	9372091.97	9372092.03	9372092.12	0.0142	0.0136
Moon	20947-10-25 12:57 G	9372091.99	9372092.04	9372092.11	0.0142	0.0138 *
Moon	20948-10-29 09:07 G	9372461.66	9372461.88	9372462.12	0.0143	0.0066
Earth	20948-10-29 09:21 G	9372461.68	9372461.89	9372462.12	0.0143	0.0071 *
Moon	20949-11-03 05:45 G	9372831.49	9372831.74	9372831.98	0.0143	0.0011
Earth	20949-11-03 06:28 G	9372831.52	9372831.77	9372832.02	0.0143	0.0004 *
Earth	20950-11-08 03:50 G	9373201.44	9373201.66	9373201.89	0.0144	0.0063
Moon	20950-11-08 04:48 G	9373201.48	9373201.70	9373201.94	0.0144	0.0070 *
Moon	20951-11-13 00:00 G	9373571.40	9373571.50	9373571.63	0.0144	0.0126
Earth	20951-11-13 01:26 G	9373571.48	9373571.56	9373571.69	0.0144	0.0130 *
Venus	20955-10-30 06:28 G	9375018.72	9375018.77	9375018.85	0.0145	0.0137
Venus	20956-06-12 18:28 G	9375245.12	9375245.27	9375245.45	0.0145	0.0092
Venus	20957-01-25 06:43 G	9375471.58	9375471.78	9375471.99	0.0145	0.0046
Venus	20957-09-08 19:12 G	9375698.08	9375698.30	9375698.52	0.0145	0.0001
Venus	20958-04-23 07:12 G	9375924.60	9375924.80	9375925.02	0.0145	0.0046
Venus	20958-12-05 19:26 G	9376151.15	9376151.31	9376151.49	0.0145	0.0092

Mercury	20959-07-18 04:19 G	9376375.63	9376375.68	9376375.73	0.0145	0.0137
Venus	20959-07-20 07:40 G	9376377.77	9376377.82	9376377.90	0.0145	0.0138
Mercury	20959-10-14 09:21 G	9376463.80	9376463.89	9376463.98	0.0145	0.0114
Mercury	20960-01-10 14:24 G	9376551.99	9376552.10	9376552.22	0.0145	0.0090
Mercury	20960-04-07 19:40 G	9376640.19	9376640.32	9376640.46	0.0145	0.0067
Mercury	20960-07-05 00:57 G	9376728.39	9376728.54	9376728.69	0.0145	0.0043
Mercury	20960-10-01 06:14 G	9376816.61	9376816.76	9376816.91	0.0145	0.0019
Mercury	20960-12-28 11:31 G	9376904.83	9376904.98	9376905.14	0.0145	0.0006
Mercury	20961-03-26 16:48 G	9376993.05	9376993.20	9376993.36	0.0145	0.0030
Mercury	20961-06-22 22:19 G	9377081.29	9377081.43	9377081.58	0.0145	0.0054
Mercury	20961-09-19 03:36 G	9377169.53	9377169.65	9377169.79	0.0145	0.0080
Mercury	20961-12-16 09:07 G	9377257.78	9377257.88	9377258.00	0.0145	0.0104
Mercury	20962-03-14 14:38 G	9377346.05	9377346.11	9377346.19	0.0145	0.0129
Mars	20971-12-11 13:55 G	9380904.74	9380905.08	9380905.43	0.0143	0.0001
Earth	20988-04-26 13:26 G	9386885.91	9386886.06	9386886.25	0.0136	0.0101
Moon	20988-04-26 14:38 G	9386885.96	9386886.11	9386886.26	0.0136	0.0107 *
Moon	20989-05-01 00:14 G	9387255.26	9387255.51	9387255.77	0.0135	0.0036
Earth	20989-05-01 01:26 G	9387255.33	9387255.56	9387255.81	0.0135	0.0044 *
Earth	20990-05-05 12:43 G	9387624.78	9387625.03	9387625.29	0.0135	0.0013
Moon	20990-05-05 13:12 G	9387624.81	9387625.05	9387625.30	0.0135	0.0008 *
Moon	20991-05-09 22:33 G	9387994.23	9387994.44	9387994.68	0.0135	0.0073
Earth	20991-05-09 23:02 G	9387994.25	9387994.46	9387994.69	0.0135	0.0069 *
Earth	20992-05-13 08:52 G	9388363.80	9388363.87	9388363.99	0.0134	0.0125
Moon	20992-05-13 09:21 G	9388363.82	9388363.89	9388364.01	0.0134	0.0124 *
Venus	20997-05-11 01:26 G	9390187.43	9390187.56	9390187.71	0.0133	0.0102
Venus	20997-12-23 06:43 G	9390413.61	9390413.78	9390413.98	0.0133	0.0067
Venus	20998-08-06 12:28 G	9390639.81	9390640.02	9390640.23	0.0133	0.0031
Venus	20999-03-20 17:45 G	9390866.03	9390866.24	9390866.46	0.0133	0.0005
Venus	20999-11-01 23:02 G	9391092.26	9391092.46	9391092.67	0.0133	0.0040
Venus	21000-06-16 04:04 G	9391318.50	9391318.67	9391318.86	0.0133	0.0076

22ND MILLENNIUM CE

This is a list of transits visible from Uranus in the 22nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	21001-01-28 09:21	G	9391544.78	9391544.89	9391545.01	0.0133	0.0110	
Mercury	21001-08-09 10:04	G	9391737.84	9391737.92	9391738.00	0.0133	0.0114	
Mercury	21001-11-05 14:38	G	9391826.01	9391826.11	9391826.23	0.0133	0.0095	
Mercury	21002-02-01 19:26	G	9391914.19	9391914.31	9391914.45	0.0133	0.0075	
Mercury	21002-05-01 00:14	G	9392002.37	9392002.51	9392002.66	0.0133	0.0056	
Mercury	21002-07-28 04:48	G	9392090.55	9392090.70	9392090.86	0.0133	0.0037	
Mercury	21002-10-24 09:21	G	9392178.74	9392178.89	9392179.05	0.0133	0.0018	
Mercury	21003-01-20 14:09	G	9392266.93	9392267.09	9392267.24	0.0133	0.0004	
Mercury	21003-04-18 18:28	G	9392355.12	9392355.27	9392355.43	0.0133	0.0021	
Mercury	21003-07-15 23:02	G	9392443.31	9392443.46	9392443.61	0.0133	0.0039	
Mercury	21003-10-12 03:21	G	9392531.51	9392531.64	9392531.79	0.0133	0.0058	
Mercury	21004-01-08 07:55	G	9392619.70	9392619.83	9392619.96	0.0133	0.0076	
Mercury	21004-04-05 12:14	G	9392707.91	9392708.01	9392708.12	0.0133	0.0094	
Mercury	21004-07-02 16:19	G	9392796.11	9392796.18	9392796.27	0.0133	0.0113	
Mercury	21004-09-28 20:38	G	9392884.35	9392884.36	9392884.40	0.0133	0.0131	
Mars	21014-03-21 04:33	G	9396344.53	9396344.69	9396344.85	0.0135	0.0110	
Mars	21016-02-18 03:07	G	9397043.36	9397043.63	9397043.91	0.0136	0.0026	
Jupiter	21029-11-20 11:02	G	9402067.49	9402067.96	9402068.46	0.0141	0.0035	
Earth	21031-10-26 23:02	G	9402773.38	9402773.46	9402773.56	0.0142	0.0133	

Moon	21031-10-27 00:14 G	9402773.44	9402773.51	9402773.61	0.0142	0.0134 *
Moon	21032-10-30 18:57 G	9403143.07	9403143.29	9403143.52	0.0143	0.0072
Earth	21032-10-30 19:12 G	9403143.09	9403143.30	9403143.54	0.0143	0.0068 *
Earth	21033-11-04 16:33 G	9403512.93	9403513.19	9403513.44	0.0143	0.0002
Moon	21033-11-04 16:48 G	9403512.96	9403513.20	9403513.45	0.0143	0.0006 *
Earth	21034-11-09 13:40 G	9403882.85	9403883.07	9403883.30	0.0143	0.0066
Moon	21034-11-09 14:09 G	9403882.87	9403883.09	9403883.34	0.0143	0.0060 *
Moon	21035-11-14 10:19 G	9404252.88	9404252.93	9404253.01	0.0144	0.0139
Earth	21035-11-14 11:16 G	9404252.89	9404252.97	9404253.08	0.0144	0.0133 *
Venus	21040-02-12 00:00 G	9405803.38	9405803.50	9405803.65	0.0145	0.0113
Venus	21040-09-25 12:28 G	9406029.83	9406030.02	9406030.22	0.0145	0.0067
Venus	21041-05-10 00:43 G	9406256.31	9406256.53	9406256.74	0.0145	0.0021
Venus	21041-12-22 12:43 G	9406482.82	9406483.03	9406483.25	0.0145	0.0025
Venus	21042-08-06 00:43 G	9406709.36	9406709.53	9406709.74	0.0145	0.0071
Venus	21043-03-20 13:26 G	9406935.93	9406936.06	9406936.19	0.0145	0.0116
Mercury	21043-08-08 11:16 G	9407076.91	9407076.97	9407077.04	0.0145	0.0131
Mercury	21043-11-04 16:19 G	9407165.09	9407165.18	9407165.29	0.0145	0.0109
Mercury	21044-01-31 21:21 G	9407253.28	9407253.39	9407253.52	0.0145	0.0086
Mercury	21044-04-29 02:52 G	9407341.48	9407341.62	9407341.76	0.0145	0.0061
Mercury	21044-07-26 07:55 G	9407429.69	9407429.83	9407429.98	0.0145	0.0038
Mercury	21044-10-22 13:12 G	9407517.90	9407518.05	9407518.21	0.0145	0.0014
Mercury	21045-01-18 18:43 G	9407606.12	9407606.28	9407606.43	0.0145	0.0011
Mercury	21045-04-17 00:00 G	9407694.35	9407694.50	9407694.65	0.0145	0.0035
Mercury	21045-07-14 05:31 G	9407782.58	9407782.73	9407782.87	0.0145	0.0060
Mercury	21045-10-10 10:48 G	9407870.83	9407870.95	9407871.08	0.0145	0.0084
Mercury	21046-01-06 16:19 G	9407959.08	9407959.18	9407959.29	0.0145	0.0109
Mercury	21046-04-04 21:50 G	9408047.36	9408047.41	9408047.47	0.0145	0.0134
Mars	21054-08-31 12:43 G	9411117.88	9411118.03	9411118.18	0.0143	0.0128
Mars	21056-08-08 00:43 G	9411825.26	9411825.53	9411825.83	0.0143	0.0080
Earth	21072-04-27 22:48 G	9417567.28	9417567.45	9417567.63	0.0136	0.0098

Moon	21072-04-28 00:43 G	9417567.37	9417567.53	9417567.73	0.0136	0.0093 *
Moon	21073-05-02 09:07 G	9417936.64	9417936.88	9417937.14	0.0135	0.0048
Earth	21073-05-02 10:48 G	9417936.71	9417936.95	9417937.19	0.0135	0.0041 *
Earth	21074-05-06 21:36 G	9418306.16	9418306.40	9418306.66	0.0135	0.0017
Moon	21074-05-06 23:16 G	9418306.23	9418306.47	9418306.72	0.0135	0.0022 *
Moon	21075-05-11 07:12 G	9418675.57	9418675.80	9418676.03	0.0135	0.0067
Earth	21075-05-11 08:24 G	9418675.64	9418675.85	9418676.07	0.0135	0.0072 *
Earth	21076-05-14 18:00 G	9419045.20	9419045.25	9419045.36	0.0135	0.0128
Moon	21076-05-14 18:57 G	9419045.24	9419045.29	9419045.38	0.0135	0.0129 *
Venus	21081-01-09 10:33 G	9420745.86	9420745.94	9420746.07	0.0133	0.0118
Venus	21081-08-23 16:33 G	9420972.02	9420972.19	9420972.36	0.0133	0.0082
Venus	21082-04-06 22:04 G	9421198.22	9421198.42	9421198.63	0.0133	0.0046
Venus	21082-11-19 03:21 G	9421424.43	9421424.64	9421424.86	0.0133	0.0011
Venus	21083-07-03 08:38 G	9421650.65	9421650.86	9421651.08	0.0133	0.0025
Venus	21084-02-14 13:55 G	9421876.89	9421877.08	9421877.28	0.0133	0.0060
Venus	21084-09-27 19:12 G	9422103.16	9422103.30	9422103.46	0.0133	0.0095
Venus	21085-05-12 00:28 G	9422329.49	9422329.52	9422329.57	0.0133	0.0130
Mercury	21085-06-02 12:14 G	9422350.98	9422351.01	9422351.05	0.0133	0.0129
Mercury	21085-08-29 17:02 G	9422439.13	9422439.21	9422439.31	0.0133	0.0109
Mercury	21085-11-25 21:36 G	9422527.30	9422527.40	9422527.53	0.0133	0.0090
Mercury	21086-02-22 02:38 G	9422615.48	9422615.61	9422615.75	0.0133	0.0070
Mercury	21086-05-21 07:12 G	9422703.66	9422703.80	9422703.95	0.0133	0.0051
Mercury	21086-08-17 11:45 G	9422791.84	9422791.99	9422792.15	0.0133	0.0032
Mercury	21086-11-13 16:33 G	9422880.03	9422880.19	9422880.35	0.0133	0.0012
Mercury	21087-02-09 21:07 G	9422968.22	9422968.38	9422968.54	0.0133	0.0007
Mercury	21087-05-09 01:40 G	9423056.42	9423056.57	9423056.73	0.0133	0.0025
Mercury	21087-08-05 06:14 G	9423144.61	9423144.76	9423144.91	0.0133	0.0044
Mercury	21087-11-01 10:33 G	9423232.81	9423232.94	9423233.08	0.0133	0.0063
Mercury	21088-01-28 14:52 G	9423321.00	9423321.12	9423321.25	0.0133	0.0081
Mercury	21088-04-25 19:26 G	9423409.21	9423409.31	9423409.41	0.0133	0.0099

Mercury	21088-07-22 23:45 G	9423497.42	9423497.49	9423497.56	0.0133	0.0118
Mars	21098-11-13 07:26 G	9427262.57	9427262.81	9427263.07	0.0135	0.0056
Mars	21100-10-13 07:26 G	9427961.60	9427961.81	9427962.05	0.0136	0.0083
Earth	21115-10-28 08:09 G	9433454.76	9433454.84	9433454.97	0.0142	0.0131
Moon	21115-10-28 10:04 G	9433454.83	9433454.92	9433455.03	0.0142	0.0131 *
Moon	21116-11-01 03:07 G	9433824.40	9433824.63	9433824.88	0.0143	0.0062
Earth	21116-11-01 04:48 G	9433824.49	9433824.70	9433824.94	0.0143	0.0065 *
Earth	21117-11-06 01:40 G	9434194.32	9434194.57	9434194.83	0.0143	0.0002
Moon	21117-11-06 02:24 G	9434194.35	9434194.60	9434194.84	0.0143	0.0005 *
Moon	21118-11-10 22:19 G	9434564.22	9434564.43	9434564.66	0.0143	0.0076
Earth	21118-11-10 22:48 G	9434564.24	9434564.45	9434564.68	0.0143	0.0069 *
Moon	21119-11-15 20:24 G	9434934.25	9434934.35	9434934.45	0.0144	0.0131
Earth	21119-11-15 20:24 G	9434934.29	9434934.35	9434934.45	0.0144	0.0136 *
Venus	21123-10-13 05:31 G	9436361.67	9436361.73	9436361.83	0.0145	0.0134
Venus	21124-05-26 18:00 G	9436588.08	9436588.25	9436588.42	0.0145	0.0088
Venus	21125-01-08 05:45 G	9436814.54	9436814.74	9436814.96	0.0145	0.0043
Venus	21125-08-22 18:14 G	9437041.04	9437041.26	9437041.48	0.0145	0.0003
Venus	21126-04-06 06:28 G	9437267.57	9437267.77	9437267.98	0.0145	0.0049
Venus	21126-11-18 18:28 G	9437494.12	9437494.27	9437494.45	0.0145	0.0096
Venus	21127-07-03 06:43 G	9437720.75	9437720.78	9437720.85	0.0145	0.0141
Mercury	21127-08-29 18:28 G	9437778.20	9437778.27	9437778.34	0.0145	0.0126
Mercury	21127-11-25 23:31 G	9437866.38	9437866.48	9437866.59	0.0145	0.0103
Mercury	21128-02-22 04:33 G	9437954.57	9437954.69	9437954.82	0.0145	0.0080
Mercury	21128-05-20 09:50 G	9438042.77	9438042.91	9438043.05	0.0145	0.0056
Mercury	21128-08-16 15:07 G	9438130.98	9438131.13	9438131.28	0.0145	0.0033
Mercury	21128-11-12 20:24 G	9438219.19	9438219.35	9438219.50	0.0145	0.0009
Mercury	21129-02-09 01:40 G	9438307.41	9438307.57	9438307.72	0.0145	0.0016
Mercury	21129-05-08 06:57 G	9438395.64	9438395.79	9438395.94	0.0145	0.0040
Mercury	21129-08-04 12:28 G	9438483.88	9438484.02	9438484.16	0.0145	0.0065
Mercury	21129-10-31 17:45 G	9438572.12	9438572.24	9438572.37	0.0145	0.0089

Mercury	21130-01-27 23:16 G	9438660.38	9438660.47	9438660.57	0.0145	0.0114
Mercury	21130-04-26 04:48 G	9438748.67	9438748.70	9438748.75	0.0145	0.0139
Mars	21139-04-29 00:43 G	9442038.22	9442038.53	9442038.87	0.0143	0.0048
Earth	21156-04-29 08:38 G	9448248.69	9448248.86	9448249.05	0.0136	0.0095
Moon	21156-04-29 10:48 G	9448248.80	9448248.95	9448249.12	0.0136	0.0101 *
Moon	21157-05-03 17:45 G	9448618.00	9448618.24	9448618.51	0.0135	0.0032
Earth	21157-05-03 20:24 G	9448618.12	9448618.35	9448618.61	0.0135	0.0038 *
Earth	21158-05-08 07:40 G	9448987.57	9448987.82	9448988.07	0.0135	0.0019
Moon	21158-05-08 09:21 G	9448987.65	9448987.89	9448988.15	0.0135	0.0014 *
Moon	21159-05-12 16:19 G	9449356.98	9449357.18	9449357.40	0.0135	0.0080
Earth	21159-05-12 18:00 G	9449357.05	9449357.25	9449357.47	0.0135	0.0075 *
Earth	21160-05-16 04:04 G	9449726.63	9449726.67	9449726.75	0.0135	0.0131
Moon	21160-05-16 05:45 G	9449726.69	9449726.74	9449726.83	0.0135	0.0129 *
Venus	21164-09-09 20:24 G	9451304.35	9451304.35	9451304.40	0.0134	0.0133
Venus	21165-04-24 02:24 G	9451530.46	9451530.60	9451530.76	0.0133	0.0097
Venus	21165-12-06 07:55 G	9451756.64	9451756.83	9451757.03	0.0133	0.0061
Venus	21166-07-20 13:12 G	9451982.85	9451983.05	9451983.27	0.0133	0.0027
Venus	21167-03-03 18:57 G	9452209.07	9452209.29	9452209.51	0.0133	0.0010
Venus	21167-10-16 00:00 G	9452435.31	9452435.50	9452435.72	0.0133	0.0045
Venus	21168-05-29 05:16 G	9452661.56	9452661.72	9452661.91	0.0133	0.0081
Venus	21169-01-10 10:33 G	9452887.85	9452887.94	9452888.06	0.0133	0.0115
Mercury	21169-06-23 19:40 G	9453052.26	9453052.32	9453052.37	0.0133	0.0124
Mercury	21169-09-20 00:14 G	9453140.42	9453140.51	9453140.62	0.0133	0.0104
Mercury	21169-12-17 05:02 G	9453228.59	9453228.71	9453228.84	0.0133	0.0084
Mercury	21170-03-15 09:36 G	9453316.77	9453316.90	9453317.05	0.0133	0.0065
Mercury	21170-06-11 14:38 G	9453404.96	9453405.11	9453405.26	0.0133	0.0045
Mercury	21170-09-07 19:12 G	9453493.14	9453493.30	9453493.46	0.0133	0.0026
Mercury	21170-12-04 23:45 G	9453581.33	9453581.49	9453581.65	0.0133	0.0007
Mercury	21171-03-03 04:19 G	9453669.52	9453669.68	9453669.84	0.0133	0.0012
Mercury	21171-05-30 08:52 G	9453757.72	9453757.87	9453758.02	0.0133	0.0031

Mercury	21171-08-26 13:26 G	9453845.91	9453846.06	9453846.20	0.0133	0.0050
Mercury	21171-11-22 17:45 G	9453934.11	9453934.24	9453934.38	0.0133	0.0068
Mercury	21172-02-18 22:19 G	9454022.31	9454022.43	9454022.55	0.0133	0.0086
Mercury	21172-05-17 02:24 G	9454110.52	9454110.60	9454110.70	0.0133	0.0105
Mercury	21172-08-13 06:43 G	9454198.74	9454198.78	9454198.85	0.0133	0.0123
Mars	21183-07-09 12:57 G	9458180.76	9458181.04	9458181.32	0.0135	0.0001
Earth	21199-10-28 19:12 G	9464136.20	9464136.30	9464136.43	0.0142	0.0127
Moon	21199-10-28 21:50 G	9464136.32	9464136.41	9464136.53	0.0142	0.0129 *
Moon	21200-11-01 13:55 G	9464505.85	9464506.08	9464506.31	0.0143	0.0064
Earth	21200-11-01 15:36 G	9464505.92	9464506.15	9464506.38	0.0143	0.0061 *
Earth	21201-11-06 12:14 G	9464875.76	9464876.01	9464876.27	0.0143	0.0006
Moon	21201-11-06 13:55 G	9464875.84	9464876.08	9464876.33	0.0143	0.0012 *
Moon	21202-11-11 08:24 G	9465245.63	9465245.85	9465246.10	0.0143	0.0066
Earth	21202-11-11 09:21 G	9465245.68	9465245.89	9465246.11	0.0143	0.0073 *
Earth	21203-11-16 06:43 G	9465615.74	9465615.78	9465615.85	0.0144	0.0140
Venus	21208-01-24 23:45 G	9467146.36	9467146.49	9467146.65	0.0145	0.0109
Venus	21208-09-07 12:14 G	9467372.82	9467373.01	9467373.21	0.0145	0.0063
Venus	21209-04-22 00:14 G	9467599.30	9467599.51	9467599.73	0.0145	0.0018
Venus	21209-12-04 12:28 G	9467825.81	9467826.02	9467826.24	0.0145	0.0028
Venus	21210-07-19 00:28 G	9468052.34	9468052.52	9468052.72	0.0145	0.0074
Venus	21211-03-02 12:57 G	9468278.92	9468279.04	9468279.16	0.0145	0.0120
Mercury	21211-06-22 20:38 G	9468391.35	9468391.36	9468391.38	0.0145	0.0144
Mercury	21211-09-19 01:26 G	9468479.49	9468479.56	9468479.65	0.0145	0.0121
Mercury	21211-12-16 06:43 G	9468567.67	9468567.78	9468567.89	0.0145	0.0098
Mercury	21212-03-13 11:45 G	9468655.87	9468655.99	9468656.13	0.0145	0.0074
Mercury	21212-06-09 17:02 G	9468744.07	9468744.21	9468744.36	0.0145	0.0051
Mercury	21212-09-05 22:19 G	9468832.28	9468832.43	9468832.58	0.0145	0.0027
Mercury	21212-12-03 03:36 G	9468920.49	9468920.65	9468920.80	0.0145	0.0004
Mercury	21213-03-01 08:52 G	9469008.71	9469008.87	9469009.02	0.0145	0.0021
Mercury	21213-05-28 14:09 G	9469096.94	9469097.09	9469097.24	0.0145	0.0046

Mercury	21213-08-24 19:26 G	9469185.18	9469185.31	9469185.45	0.0145	0.0070
Mercury	21213-11-21 00:57 G	9469273.43	9469273.54	9469273.66	0.0145	0.0095
Mercury	21214-02-17 06:14 G	9469361.69	9469361.76	9469361.86	0.0145	0.0120
Mercury	21214-05-16 12:00 G	9469450.00	9469450.00	9469450.01	0.0145	0.0145
Mars	21223-12-24 12:14 G	9472958.68	9472959.01	9472959.35	0.0143	0.0032
Jupiter	21237-11-04 16:04 G	9478022.78	9478023.17	9478023.62	0.0137	0.0084
Earth	21240-04-29 17:16 G	9478930.04	9478930.22	9478930.41	0.0136	0.0093
Moon	21240-04-29 20:09 G	9478930.17	9478930.34	9478930.54	0.0136	0.0089 *
Moon	21241-05-04 02:09 G	9479299.35	9479299.59	9479299.85	0.0136	0.0043
Earth	21241-05-04 05:02 G	9479299.46	9479299.71	9479299.96	0.0136	0.0036 *
Earth	21242-05-08 15:50 G	9479668.91	9479669.16	9479669.42	0.0135	0.0021
Moon	21242-05-08 18:28 G	9479669.03	9479669.27	9479669.52	0.0135	0.0029 *
Moon	21243-05-12 23:45 G	9480038.28	9480038.49	9480038.73	0.0135	0.0072
Earth	21243-05-13 02:09 G	9480038.40	9480038.59	9480038.82	0.0135	0.0078 *
Earth	21244-05-16 12:43 G	9480408.00	9480408.03	9480408.07	0.0135	0.0133
Venus	21248-12-22 11:16 G	9482088.87	9482088.97	9482089.10	0.0134	0.0113
Venus	21249-08-05 16:48 G	9482315.03	9482315.20	9482315.39	0.0134	0.0078
Venus	21250-03-19 22:48 G	9482541.24	9482541.45	9482541.65	0.0133	0.0042
Venus	21250-11-01 04:04 G	9482767.46	9482767.67	9482767.89	0.0133	0.0007
Venus	21251-06-15 09:21 G	9482993.69	9482993.89	9482994.11	0.0133	0.0029
Venus	21252-01-27 14:38 G	9483219.93	9483220.11	9483220.31	0.0133	0.0064
Venus	21252-09-09 19:55 G	9483446.20	9483446.33	9483446.49	0.0133	0.0100
Mercury	21253-07-14 02:24 G	9483753.54	9483753.60	9483753.67	0.0133	0.0119
Mercury	21253-10-10 07:12 G	9483841.70	9483841.80	9483841.91	0.0133	0.0100
Mercury	21254-01-06 11:45 G	9483929.87	9483929.99	9483930.13	0.0133	0.0081
Mercury	21254-04-04 16:48 G	9484018.06	9484018.20	9484018.34	0.0133	0.0060
Mercury	21254-07-01 21:21 G	9484106.24	9484106.39	9484106.55	0.0133	0.0041
Mercury	21254-09-28 02:09 G	9484194.43	9484194.59	9484194.75	0.0133	0.0022
Mercury	21254-12-25 06:43 G	9484282.62	9484282.78	9484282.94	0.0133	0.0003
Mercury	21255-03-23 11:16 G	9484370.81	9484370.97	9484371.13	0.0133	0.0016

Mercury	21255-06-19 15:50 G	9484459.01	9484459.16	9484459.31	0.0133	0.0035
Mercury	21255-09-15 20:09 G	9484547.20	9484547.34	9484547.49	0.0133	0.0054
Mercury	21255-12-13 00:43 G	9484635.40	9484635.53	9484635.66	0.0133	0.0072
Mercury	21256-03-10 04:48 G	9484723.60	9484723.70	9484723.83	0.0133	0.0092
Mercury	21256-06-06 09:21 G	9484811.81	9484811.89	9484811.99	0.0133	0.0109
Mercury	21256-09-02 13:40 G	9484900.04	9484900.07	9484900.12	0.0133	0.0127
Mars	21266-04-03 17:16 G	9488400.02	9488400.22	9488400.46	0.0135	0.0084
Mars	21268-03-02 15:21 G	9489098.89	9489099.14	9489099.40	0.0136	0.0056
Earth	21283-10-29 06:00 G	9494817.65	9494817.75	9494817.90	0.0142	0.0124
Moon	21283-10-29 08:52 G	9494817.76	9494817.87	9494818.01	0.0142	0.0122 *
Moon	21284-11-01 23:31 G	9495187.26	9495187.48	9495187.73	0.0143	0.0057
Earth	21284-11-02 02:24 G	9495187.38	9495187.60	9495187.84	0.0143	0.0058 *
Earth	21285-11-06 23:16 G	9495557.22	9495557.47	9495557.72	0.0143	0.0009
Moon	21285-11-07 00:57 G	9495557.30	9495557.54	9495557.79	0.0143	0.0004 *
Moon	21286-11-11 18:28 G	9495927.07	9495927.27	9495927.49	0.0143	0.0084
Earth	21286-11-11 20:09 G	9495927.14	9495927.34	9495927.56	0.0143	0.0076 *
Moon	21287-11-16 18:43 G	9496297.23	9496297.28	9496297.36	0.0144	0.0138
Earth	21287-11-16 18:00 G	9496297.25	9496297.25	9496297.26	0.0144	0.0144 *
Venus	21291-09-24 06:43 G	9497704.69	9497704.78	9497704.88	0.0145	0.0128
Venus	21292-05-07 18:43 G	9497931.11	9497931.28	9497931.46	0.0145	0.0083
Venus	21292-12-20 06:43 G	9498157.57	9498157.78	9498157.99	0.0145	0.0038
Venus	21293-08-03 18:57 G	9498384.07	9498384.29	9498384.50	0.0145	0.0008
Venus	21294-03-18 06:57 G	9498610.59	9498610.79	9498610.99	0.0145	0.0053
Venus	21294-10-30 18:57 G	9498837.15	9498837.29	9498837.46	0.0145	0.0099
Venus	21295-06-14 07:26 G	9499063.80	9499063.81	9499063.83	0.0145	0.0144
Mercury	21295-07-13 04:04 G	9499092.62	9499092.67	9499092.71	0.0145	0.0137
Mercury	21295-10-09 09:07 G	9499180.79	9499180.88	9499180.97	0.0145	0.0115
Mercury	21296-01-05 14:09 G	9499268.97	9499269.09	9499269.21	0.0145	0.0091
Mercury	21296-04-02 19:12 G	9499357.17	9499357.30	9499357.44	0.0145	0.0068
Mercury	21296-06-30 00:14 G	9499445.37	9499445.51	9499445.66	0.0145	0.0045

Mercury	21296-09-26 05:31 G	9499533.58	9499533.73	9499533.89	0.0145	0.0021
Mercury	21296-12-23 10:48 G	9499621.80	9499621.95	9499622.11	0.0145	0.0004
Mercury	21297-03-21 16:04 G	9499710.02	9499710.17	9499710.33	0.0145	0.0027
Mercury	21297-06-17 21:21 G	9499798.25	9499798.39	9499798.54	0.0145	0.0052
Mercury	21297-09-14 02:52 G	9499886.49	9499886.62	9499886.75	0.0145	0.0076
Mercury	21297-12-11 08:09 G	9499974.74	9499974.84	9499974.96	0.0145	0.0101
Mercury	21298-03-09 13:26 G	9500063.00	9500063.06	9500063.15	0.0145	0.0126
Mars	21306-09-13 12:14 G	9503171.79	9503172.01	9503172.29	0.0143	0.0097
Mars	21308-08-21 00:43 G	9503879.35	9503879.53	9503879.76	0.0142	0.0114
Earth	21324-05-01 02:38 G	9509611.43	9509611.61	9509611.81	0.0136	0.0091
Moon	21324-05-01 05:45 G	9509611.57	9509611.74	9509611.92	0.0136	0.0096 *
Moon	21325-05-05 10:48 G	9509980.70	9509980.95	9509981.21	0.0136	0.0027
Earth	21325-05-05 14:09 G	9509980.85	9509981.09	9509981.35	0.0136	0.0034 *
Earth	21326-05-10 01:12 G	9510350.31	9510350.55	9510350.81	0.0135	0.0024
Moon	21326-05-10 04:04 G	9510350.43	9510350.67	9510350.93	0.0135	0.0018 *
Moon	21327-05-14 08:52 G	9510719.68	9510719.87	9510720.08	0.0135	0.0086
Earth	21327-05-14 11:45 G	9510719.80	9510719.99	9510720.21	0.0135	0.0080 *
Moon	21328-05-18 00:57 G	9511089.50	9511089.54	9511089.59	0.0135	0.0132
Venus	21332-08-22 20:52 G	9512647.32	9512647.37	9512647.44	0.0134	0.0128
Venus	21333-04-06 02:38 G	9512873.46	9512873.61	9512873.77	0.0134	0.0093
Venus	21333-11-18 08:09 G	9513099.65	9513099.84	9513100.04	0.0133	0.0057
Venus	21334-07-02 13:40 G	9513325.86	9513326.07	9513326.29	0.0133	0.0022
Venus	21335-02-13 19:12 G	9513552.09	9513552.30	9513552.52	0.0133	0.0014
Venus	21335-09-28 00:43 G	9513778.33	9513778.53	9513778.73	0.0133	0.0049
Venus	21336-05-11 05:45 G	9514004.59	9514004.74	9514004.92	0.0133	0.0084
Venus	21336-12-23 10:48 G	9514230.88	9514230.95	9514231.07	0.0133	0.0120
Mercury	21337-08-04 09:21 G	9514454.82	9514454.89	9514454.98	0.0133	0.0115
Mercury	21337-10-31 14:09 G	9514542.98	9514543.09	9514543.21	0.0133	0.0095
Mercury	21338-01-27 18:57 G	9514631.16	9514631.29	9514631.43	0.0133	0.0075
Mercury	21338-04-25 23:31 G	9514719.35	9514719.48	9514719.64	0.0133	0.0057

Mercury	21338-07-23 04:19 G	9514807.53	9514807.68	9514807.84	0.0133	0.0037
Mercury	21338-10-19 09:07 G	9514895.72	9514895.88	9514896.04	0.0133	0.0017
Mercury	21339-01-15 13:40 G	9514983.91	9514984.07	9514984.23	0.0133	0.0002
Mercury	21339-04-13 18:14 G	9515072.10	9515072.26	9515072.42	0.0133	0.0021
Mercury	21339-07-10 22:48 G	9515160.30	9515160.45	9515160.60	0.0133	0.0040
Mercury	21339-10-07 03:07 G	9515248.50	9515248.63	9515248.78	0.0133	0.0059
Mercury	21340-01-03 07:26 G	9515336.70	9515336.81	9515336.95	0.0133	0.0078
Mercury	21340-03-31 12:00 G	9515424.90	9515425.00	9515425.11	0.0133	0.0095
Mercury	21340-06-27 16:33 G	9515513.11	9515513.19	9515513.27	0.0133	0.0114
Mercury	21340-09-23 20:52 G	9515601.35	9515601.37	9515601.39	0.0133	0.0132
Mars	21350-11-27 18:57 G	9519318.02	9519318.29	9519318.57	0.0135	0.0029
Mars	21352-10-26 17:45 G	9520017.10	9520017.24	9520017.41	0.0136	0.0113
Earth	21367-10-30 17:02 G	9525499.09	9525499.21	9525499.36	0.0142	0.0120
Moon	21367-10-30 20:24 G	9525499.24	9525499.35	9525499.49	0.0142	0.0124 *
Moon	21368-11-03 10:48 G	9525868.71	9525868.95	9525869.19	0.0143	0.0056
Earth	21368-11-03 13:12 G	9525868.83	9525869.05	9525869.30	0.0143	0.0055 *
Earth	21369-11-08 10:04 G	9526238.67	9526238.92	9526239.18	0.0143	0.0013
Moon	21369-11-08 12:57 G	9526238.80	9526239.04	9526239.29	0.0143	0.0018 *
Moon	21370-11-13 05:02 G	9526608.50	9526608.71	9526608.95	0.0143	0.0074
Earth	21370-11-13 07:12 G	9526608.60	9526608.80	9526609.02	0.0143	0.0080 *
Venus	21376-01-07 01:12 G	9528489.42	9528489.55	9528489.72	0.0145	0.0103
Venus	21376-08-20 13:40 G	9528715.87	9528716.07	9528716.27	0.0145	0.0057
Venus	21377-04-04 01:40 G	9528942.36	9528942.57	9528942.79	0.0145	0.0012
Venus	21377-11-16 13:40 G	9529168.87	9529169.07	9529169.29	0.0145	0.0034
Venus	21378-07-01 01:40 G	9529395.40	9529395.57	9529395.76	0.0145	0.0079
Venus	21379-02-12 13:55 G	9529621.98	9529622.08	9529622.20	0.0145	0.0124
Mercury	21379-08-03 11:16 G	9529793.92	9529793.97	9529794.04	0.0145	0.0131
Mercury	21379-10-30 16:19 G	9529882.09	9529882.18	9529882.29	0.0145	0.0108
Mercury	21380-01-26 21:21 G	9529970.28	9529970.39	9529970.52	0.0145	0.0085
Mercury	21380-04-24 02:38 G	9530058.48	9530058.61	9530058.75	0.0145	0.0061

Mercury	21380-07-21 07:40 G	9530146.68	9530146.82	9530146.98	0.0145	0.0039
Mercury	21380-10-17 12:57 G	9530234.89	9530235.04	9530235.20	0.0145	0.0015
Mercury	21381-01-13 18:14 G	9530323.11	9530323.26	9530323.42	0.0145	0.0010
Mercury	21381-04-11 23:31 G	9530411.33	9530411.48	9530411.63	0.0145	0.0034
Mercury	21381-07-09 04:48 G	9530499.56	9530499.70	9530499.85	0.0145	0.0059
Mercury	21381-10-05 10:04 G	9530587.80	9530587.92	9530588.06	0.0145	0.0083
Mercury	21382-01-01 15:50 G	9530676.05	9530676.16	9530676.26	0.0145	0.0107
Mercury	21382-03-30 21:07 G	9530764.32	9530764.38	9530764.45	0.0145	0.0132
Mars	21391-05-11 03:50 G	9534092.32	9534092.66	9534093.01	0.0143	0.0015
Earth	21408-05-02 11:16 G	9540292.78	9540292.97	9540293.16	0.0136	0.0089
Moon	21408-05-02 14:38 G	9540292.93	9540293.11	9540293.32	0.0136	0.0086 *
Moon	21409-05-06 19:26 G	9540662.07	9540662.31	9540662.56	0.0136	0.0038
Earth	21409-05-06 22:48 G	9540662.20	9540662.45	9540662.70	0.0136	0.0032 *
Earth	21410-05-11 09:36 G	9541031.65	9541031.90	9541032.16	0.0135	0.0026
Moon	21410-05-11 12:57 G	9541031.81	9541032.04	9541032.29	0.0135	0.0034 *
Moon	21411-05-15 16:33 G	9541401.00	9541401.19	9541401.43	0.0135	0.0076
Earth	21411-05-15 20:24 G	9541401.15	9541401.35	9541401.55	0.0135	0.0082 *
Venus	21416-12-05 11:16 G	9543431.86	9543431.97	9543432.11	0.0134	0.0109
Venus	21417-07-19 16:48 G	9543658.04	9543658.20	9543658.40	0.0134	0.0074
Venus	21418-03-02 22:48 G	9543884.24	9543884.45	9543884.66	0.0133	0.0038
Venus	21418-10-15 04:19 G	9544110.46	9544110.68	9544110.90	0.0133	0.0002
Venus	21419-05-29 09:36 G	9544336.70	9544336.90	9544337.12	0.0133	0.0033
Venus	21420-01-10 14:52 G	9544562.94	9544563.12	9544563.31	0.0133	0.0068
Venus	21420-08-23 19:55 G	9544789.21	9544789.33	9544789.49	0.0133	0.0104
Mercury	21421-05-29 11:16 G	9545067.95	9545067.97	9545068.01	0.0133	0.0131
Mercury	21421-08-25 16:19 G	9545156.09	9545156.18	9545156.27	0.0133	0.0111
Mercury	21421-11-21 20:52 G	9545244.26	9545244.37	9545244.49	0.0133	0.0091
Mercury	21422-02-18 01:40 G	9545332.44	9545332.57	9545332.71	0.0133	0.0072
Mercury	21422-05-17 06:28 G	9545420.62	9545420.77	9545420.92	0.0133	0.0052
Mercury	21422-08-13 11:16 G	9545508.81	9545508.97	9545509.12	0.0133	0.0033

Mercury	21422-11-09 15:50 G	9545597.00	9545597.16	9545597.32	0.0133	0.0013
Mercury	21423-02-05 20:24 G	9545685.19	9545685.35	9545685.51	0.0133	0.0006
Mercury	21423-05-05 00:57 G	9545773.39	9545773.54	9545773.70	0.0133	0.0025
Mercury	21423-08-01 05:31 G	9545861.58	9545861.73	9545861.88	0.0133	0.0043
Mercury	21423-10-28 09:50 G	9545949.78	9545949.91	9545950.06	0.0133	0.0062
Mercury	21424-01-24 14:24 G	9546037.98	9546038.10	9546038.23	0.0133	0.0081
Mercury	21424-04-21 18:43 G	9546126.18	9546126.28	9546126.39	0.0133	0.0099
Mercury	21424-07-18 23:02 G	9546214.40	9546214.46	9546214.54	0.0133	0.0118
Mars	21433-08-23 21:50 G	9549537.29	9549537.41	9549537.58	0.0135	0.0114
Mars	21435-07-23 19:40 G	9550236.05	9550236.32	9550236.60	0.0136	0.0027
Earth	21451-11-01 02:38 G	9556180.47	9556180.61	9556180.75	0.0142	0.0118
Moon	21451-11-01 05:45 G	9556180.60	9556180.74	9556180.89	0.0142	0.0116 *
Moon	21452-11-04 19:26 G	9556550.07	9556550.31	9556550.55	0.0143	0.0052
Earth	21452-11-04 22:48 G	9556550.22	9556550.45	9556550.69	0.0143	0.0052 *
Earth	21453-11-09 19:40 G	9556920.07	9556920.32	9556920.57	0.0143	0.0015
Moon	21453-11-09 22:19 G	9556920.19	9556920.43	9556920.68	0.0143	0.0011 *
Moon	21454-11-14 13:55 G	9557289.89	9557290.08	9557290.29	0.0143	0.0090
Earth	21454-11-14 16:48 G	9557290.00	9557290.20	9557290.41	0.0143	0.0083 *
Moon	21455-11-19 16:48 G	9557660.20	9557660.20	9557660.21	0.0144	0.0144
Venus	21459-09-07 07:40 G	9559047.71	9559047.82	9559047.94	0.0145	0.0122
Venus	21460-04-20 19:40 G	9559274.14	9559274.32	9559274.51	0.0145	0.0077
Venus	21460-12-03 07:40 G	9559500.61	9559500.82	9559501.03	0.0145	0.0032
Venus	21461-07-17 19:40 G	9559727.11	9559727.32	9559727.54	0.0145	0.0013
Venus	21462-03-01 07:26 G	9559953.63	9559953.81	9559954.02	0.0145	0.0059
Venus	21462-10-13 19:40 G	9560180.19	9560180.32	9560180.49	0.0145	0.0104
Mercury	21463-08-24 18:28 G	9560495.21	9560495.27	9560495.35	0.0145	0.0126
Mercury	21463-11-20 23:31 G	9560583.38	9560583.48	9560583.60	0.0145	0.0103
Mercury	21464-02-17 04:48 G	9560671.57	9560671.70	9560671.83	0.0145	0.0079
Mercury	21464-05-15 09:50 G	9560759.77	9560759.91	9560760.05	0.0145	0.0056
Mercury	21464-08-11 15:07 G	9560847.98	9560848.13	9560848.28	0.0145	0.0032

Mercury	21464-11-07 20:09 G	9560936.19	9560936.34	9560936.50	0.0145	0.0009
Mercury	21465-02-04 01:26 G	9561024.41	9561024.56	9561024.72	0.0145	0.0016
Mercury	21465-05-03 06:43 G	9561112.63	9561112.78	9561112.93	0.0145	0.0040
Mercury	21465-07-30 12:00 G	9561200.87	9561201.00	9561201.15	0.0145	0.0064
Mercury	21465-10-26 17:16 G	9561289.11	9561289.22	9561289.35	0.0145	0.0089
Mercury	21466-01-22 22:48 G	9561377.36	9561377.45	9561377.55	0.0145	0.0113
Mercury	21466-04-21 04:19 G	9561465.64	9561465.68	9561465.73	0.0145	0.0138
Mars	21476-01-06 17:02 G	9565012.93	9565013.21	9565013.53	0.0143	0.0068
Earth	21492-05-02 20:24 G	9570974.16	9570974.35	9570974.55	0.0136	0.0087
Moon	21492-05-02 23:45 G	9570974.32	9570974.49	9570974.69	0.0136	0.0091 *
Moon	21493-05-07 04:04 G	9571343.42	9571343.67	9571343.93	0.0136	0.0024
Earth	21493-05-07 07:40 G	9571343.58	9571343.82	9571344.08	0.0136	0.0030 *
Earth	21494-05-11 18:43 G	9571713.04	9571713.28	9571713.54	0.0135	0.0028
Moon	21494-05-11 22:19 G	9571713.18	9571713.43	9571713.68	0.0135	0.0021 *
Moon	21495-05-16 01:26 G	9572082.39	9572082.56	9572082.77	0.0135	0.0092
Earth	21495-05-16 05:02 G	9572082.53	9572082.71	9572082.93	0.0135	0.0085 *
Venus	21500-08-05 20:38 G	9573990.29	9573990.36	9573990.45	0.0134	0.0124
Venus	21501-03-20 02:24 G	9574216.45	9574216.60	9574216.77	0.0134	0.0089
Venus	21501-11-01 07:55 G	9574442.64	9574442.83	9574443.04	0.0133	0.0054
Venus	21502-06-15 13:40 G	9574668.85	9574669.07	9574669.29	0.0133	0.0018
Venus	21503-01-27 18:57 G	9574895.08	9574895.29	9574895.51	0.0133	0.0018
Venus	21503-09-11 00:14 G	9575121.32	9575121.51	9575121.72	0.0133	0.0053
Venus	21504-04-24 05:31 G	9575347.58	9575347.73	9575347.91	0.0133	0.0088
Venus	21504-12-06 10:33 G	9575573.88	9575573.94	9575574.05	0.0133	0.0123
Mercury	21505-06-19 18:00 G	9575769.21	9575769.25	9575769.31	0.0133	0.0127
Mercury	21505-09-15 23:02 G	9575857.37	9575857.46	9575857.56	0.0133	0.0106
Mercury	21505-12-13 03:36 G	9575945.54	9575945.65	9575945.78	0.0133	0.0087
Mercury	21506-03-11 08:24 G	9576033.72	9576033.85	9576034.00	0.0133	0.0068
Mercury	21506-06-07 13:12 G	9576121.91	9576122.05	9576122.21	0.0133	0.0048
Mercury	21506-09-03 18:00 G	9576210.10	9576210.25	9576210.41	0.0133	0.0028

Mercury	21506-11-30 22:33 G	9576298.29	9576298.44	9576298.60	0.0133	0.0010
Mercury	21507-02-27 03:21 G	9576386.48	9576386.64	9576386.80	0.0133	0.0010
Mercury	21507-05-26 07:40 G	9576474.67	9576474.82	9576474.98	0.0133	0.0029
Mercury	21507-08-22 12:28 G	9576562.87	9576563.02	9576563.16	0.0133	0.0048
Mercury	21507-11-18 16:48 G	9576651.07	9576651.20	9576651.34	0.0133	0.0066
Mercury	21508-02-14 21:07 G	9576739.27	9576739.38	9576739.51	0.0133	0.0085
Mercury	21508-05-13 01:26 G	9576827.48	9576827.56	9576827.67	0.0133	0.0104
Mercury	21508-08-09 06:00 G	9576915.70	9576915.75	9576915.82	0.0133	0.0122
Mars	21518-04-18 21:50 G	9580455.16	9580455.41	9580455.66	0.0135	0.0060
Mars	21520-03-17 20:24 G	9581154.13	9581154.35	9581154.57	0.0136	0.0082
Earth	21535-11-02 10:33 G	9586861.82	9586861.94	9586862.11	0.0142	0.0117
Moon	21535-11-02 14:38 G	9586861.98	9586862.11	9586862.25	0.0142	0.0121 *
Moon	21536-11-06 03:50 G	9587231.43	9587231.66	9587231.91	0.0143	0.0051
Earth	21536-11-06 07:26 G	9587231.57	9587231.81	9587232.05	0.0143	0.0050 *
Earth	21537-11-11 04:04 G	9587601.42	9587601.67	9587601.92	0.0143	0.0017
Moon	21537-11-11 07:40 G	9587601.57	9587601.82	9587602.07	0.0143	0.0021 *
Moon	21538-11-15 22:19 G	9587971.23	9587971.43	9587971.66	0.0143	0.0078
Earth	21538-11-16 01:12 G	9587971.36	9587971.55	9587971.77	0.0143	0.0085 *
Venus	21543-05-08 12:43 G	9589606.02	9589606.03	9589606.08	0.0145	0.0143
Venus	21543-12-21 00:57 G	9589832.39	9589832.54	9589832.70	0.0145	0.0098
Venus	21544-08-03 12:57 G	9590058.84	9590059.04	9590059.24	0.0145	0.0053
Venus	21545-03-18 00:57 G	9590285.32	9590285.54	9590285.76	0.0145	0.0008
Venus	21545-10-30 13:12 G	9590511.84	9590512.05	9590512.26	0.0145	0.0037
Venus	21546-06-14 01:12 G	9590738.37	9590738.55	9590738.73	0.0145	0.0082
Venus	21547-01-26 13:12 G	9590964.95	9590965.05	9590965.16	0.0145	0.0128
Mercury	21547-06-18 20:38 G	9591108.34	9591108.36	9591108.38	0.0145	0.0143
Mercury	21547-09-15 01:40 G	9591196.49	9591196.57	9591196.65	0.0145	0.0120
Mercury	21547-12-12 06:43 G	9591284.67	9591284.78	9591284.89	0.0145	0.0097
Mercury	21548-03-09 11:45 G	9591372.86	9591372.99	9591373.12	0.0145	0.0074
Mercury	21548-06-05 16:48 G	9591461.06	9591461.20	9591461.35	0.0145	0.0051

Mercury	21548-09-01 22:04 G	9591549.27	9591549.42	9591549.57	0.0145	0.0027
Mercury	21548-11-29 03:07 G	9591637.48	9591637.63	9591637.79	0.0145	0.0006
Mercury	21549-02-25 08:24 G	9591725.70	9591725.85	9591726.01	0.0145	0.0021
Mercury	21549-05-24 13:40 G	9591813.93	9591814.07	9591814.22	0.0145	0.0045
Mercury	21549-08-20 18:57 G	9591902.16	9591902.29	9591902.43	0.0145	0.0069
Mercury	21549-11-17 00:14 G	9591990.40	9591990.51	9591990.64	0.0145	0.0094
Mercury	21550-02-13 05:45 G	9592078.66	9592078.74	9592078.84	0.0145	0.0118
Mercury	21550-05-12 11:16 G	9592166.95	9592166.97	9592167.00	0.0145	0.0143
Mars	21558-09-26 16:33 G	9595225.89	9595226.19	9595226.51	0.0143	0.0064
Earth	21576-05-04 04:33 G	9601655.49	9601655.69	9601655.89	0.0136	0.0085
Moon	21576-05-04 08:09 G	9601655.64	9601655.84	9601656.05	0.0136	0.0083 *
Moon	21577-05-08 12:28 G	9602024.78	9602025.02	9602025.27	0.0136	0.0033
Earth	21577-05-08 16:04 G	9602024.92	9602025.17	9602025.42	0.0136	0.0027 *
Earth	21578-05-13 02:52 G	9602394.38	9602394.62	9602394.87	0.0135	0.0030
Moon	21578-05-13 06:43 G	9602394.54	9602394.78	9602395.03	0.0135	0.0037 *
Moon	21579-05-17 09:50 G	9602763.72	9602763.91	9602764.13	0.0135	0.0080
Earth	21579-05-17 13:26 G	9602763.88	9602764.06	9602764.27	0.0135	0.0087 *
Venus	21584-11-17 10:48 G	9604774.84	9604774.95	9604775.11	0.0134	0.0105
Venus	21585-07-01 16:33 G	9605001.02	9605001.19	9605001.39	0.0133	0.0069
Venus	21586-02-12 22:19 G	9605227.22	9605227.43	9605227.64	0.0133	0.0034
Venus	21586-09-27 03:50 G	9605453.44	9605453.66	9605453.87	0.0133	0.0003
Venus	21587-05-11 09:07 G	9605679.67	9605679.88	9605680.09	0.0133	0.0036
Venus	21587-12-23 14:09 G	9605905.92	9605906.09	9605906.29	0.0133	0.0072
Venus	21588-08-05 19:12 G	9606132.19	9606132.30	9606132.45	0.0133	0.0107
Mercury	21589-07-10 00:28 G	9606470.48	9606470.52	9606470.60	0.0133	0.0123
Mercury	21589-10-06 05:31 G	9606558.64	9606558.73	9606558.84	0.0133	0.0103
Mercury	21590-01-02 10:19 G	9606646.81	9606646.93	9606647.06	0.0133	0.0084
Mercury	21590-03-31 15:07 G	9606734.99	9606735.13	9606735.28	0.0133	0.0064
Mercury	21590-06-27 19:55 G	9606823.18	9606823.33	9606823.48	0.0133	0.0044
Mercury	21590-09-24 00:28 G	9606911.37	9606911.52	9606911.68	0.0133	0.0026

Mercury	21590-12-21 05:16 G	9606999.56	9606999.72	9606999.88	0.0133	0.0006
Mercury	21591-03-19 09:50 G	9607087.76	9607087.91	9607088.07	0.0133	0.0014
Mercury	21591-06-15 14:24 G	9607175.95	9607176.10	9607176.26	0.0133	0.0032
Mercury	21591-09-11 18:57 G	9607264.15	9607264.29	9607264.44	0.0133	0.0051
Mercury	21591-12-08 23:16 G	9607352.35	9607352.47	9607352.61	0.0133	0.0070
Mercury	21592-03-06 03:50 G	9607440.55	9607440.66	9607440.78	0.0133	0.0088
Mercury	21592-06-02 08:24 G	9607528.76	9607528.85	9607528.94	0.0133	0.0107
Mercury	21592-08-29 12:28 G	9607616.98	9607617.02	9607617.09	0.0133	0.0126
Mars	21602-12-11 20:52 G	9611373.09	9611373.37	9611373.65	0.0135	0.0006
Earth	21619-11-02 18:28 G	9617543.13	9617543.27	9617543.43	0.0142	0.0115
Moon	21619-11-02 22:04 G	9617543.27	9617543.42	9617543.59	0.0142	0.0111 *
Moon	21620-11-06 11:02 G	9617912.74	9617912.96	9617913.21	0.0143	0.0051
Earth	21620-11-06 14:52 G	9617912.89	9617913.12	9617913.37	0.0143	0.0049 *
Earth	21621-11-11 12:00 G	9618282.75	9618283.00	9618283.25	0.0143	0.0019
Moon	21621-11-11 15:21 G	9618282.89	9618283.14	9618283.39	0.0143	0.0015 *
Moon	21622-11-16 05:31 G	9618652.55	9618652.73	9618652.93	0.0143	0.0093
Earth	21622-11-16 09:07 G	9618652.69	9618652.88	9618653.09	0.0143	0.0087 *
Venus	21627-08-20 05:16 G	9620390.62	9620390.72	9620390.86	0.0145	0.0120
Venus	21628-04-02 17:31 G	9620617.05	9620617.23	9620617.42	0.0145	0.0075
Venus	21628-11-15 05:31 G	9620843.52	9620843.73	9620843.94	0.0145	0.0030
Venus	21629-06-29 17:31 G	9621070.01	9621070.23	9621070.44	0.0145	0.0015
Venus	21630-02-11 05:31 G	9621296.53	9621296.73	9621296.93	0.0145	0.0060
Venus	21630-09-25 17:31 G	9621523.09	9621523.23	9621523.39	0.0145	0.0105
Mercury	21631-07-09 03:07 G	9621809.61	9621809.63	9621809.68	0.0145	0.0140
Mercury	21631-10-05 08:09 G	9621897.76	9621897.84	9621897.94	0.0145	0.0117
Mercury	21632-01-01 13:12 G	9621985.94	9621986.05	9621986.17	0.0145	0.0094
Mercury	21632-03-29 18:14 G	9622074.14	9622074.26	9622074.40	0.0145	0.0071
Mercury	21632-06-25 23:31 G	9622162.34	9622162.48	9622162.62	0.0145	0.0047
Mercury	21632-09-22 04:33 G	9622250.54	9622250.69	9622250.85	0.0145	0.0024
Mercury	21632-12-19 09:50 G	9622338.76	9622338.91	9622339.07	0.0145	0.0001

Mercury	21633-03-17 15:07 G	9622426.98	9622427.13	9622427.28	0.0145	0.0024
Mercury	21633-06-13 20:24 G	9622515.20	9622515.35	9622515.50	0.0145	0.0048
Mercury	21633-09-10 01:26 G	9622603.44	9622603.56	9622603.71	0.0145	0.0073
Mercury	21633-12-07 06:57 G	9622691.68	9622691.79	9622691.91	0.0145	0.0097
Mercury	21634-03-05 12:14 G	9622779.94	9622780.01	9622780.11	0.0145	0.0122
Mars	21643-05-24 02:09 G	9626146.25	9626146.59	9626146.93	0.0143	0.0017
Earth	21660-05-04 12:57 G	9632336.85	9632337.04	9632337.25	0.0136	0.0083
Moon	21660-05-04 16:04 G	9632336.99	9632337.17	9632337.39	0.0136	0.0086 *
Moon	21661-05-08 20:52 G	9632706.13	9632706.37	9632706.63	0.0136	0.0021
Earth	21661-05-09 00:28 G	9632706.28	9632706.52	9632706.78	0.0136	0.0025 *
Earth	21662-05-13 11:31 G	9633075.74	9633075.98	9633076.23	0.0135	0.0033
Moon	21662-05-13 14:52 G	9633075.87	9633076.12	9633076.38	0.0135	0.0026 *
Moon	21663-05-17 18:14 G	9633445.11	9633445.26	9633445.46	0.0135	0.0097
Earth	21663-05-17 22:19 G	9633445.25	9633445.43	9633445.63	0.0135	0.0089 *
Venus	21668-07-17 20:09 G	9635333.25	9635333.34	9635333.44	0.0134	0.0120
Venus	21669-03-01 01:40 G	9635559.41	9635559.57	9635559.75	0.0134	0.0085
Venus	21669-10-13 07:26 G	9635785.61	9635785.81	9635786.01	0.0134	0.0050
Venus	21670-05-27 12:57 G	9636011.82	9636012.04	9636012.25	0.0133	0.0015
Venus	21671-01-08 18:14 G	9636238.04	9636238.26	9636238.47	0.0133	0.0020
Venus	21671-08-22 23:16 G	9636464.28	9636464.47	9636464.68	0.0133	0.0056
Venus	21672-04-05 04:33 G	9636690.55	9636690.69	9636690.87	0.0133	0.0091
Venus	21672-11-17 10:04 G	9636916.85	9636916.92	9636917.00	0.0133	0.0125
Mercury	21673-07-30 07:12 G	9637171.75	9637171.80	9637171.89	0.0133	0.0120
Mercury	21673-10-26 12:14 G	9637259.91	9637260.01	9637260.13	0.0133	0.0099
Mercury	21674-01-22 17:02 G	9637348.09	9637348.21	9637348.35	0.0133	0.0080
Mercury	21674-04-20 21:50 G	9637436.27	9637436.41	9637436.56	0.0133	0.0060
Mercury	21674-07-18 02:38 G	9637524.46	9637524.61	9637524.77	0.0133	0.0040
Mercury	21674-10-14 07:26 G	9637612.65	9637612.81	9637612.97	0.0133	0.0021
Mercury	21675-01-10 12:00 G	9637700.84	9637701.00	9637701.16	0.0133	0.0004
Mercury	21675-04-08 16:48 G	9637789.04	9637789.20	9637789.36	0.0133	0.0018

Mercury	21675-07-05 21:21 G	9637877.24	9637877.39	9637877.54	0.0133	0.0036
Mercury	21675-10-02 01:40 G	9637965.43	9637965.57	9637965.72	0.0133	0.0056
Mercury	21675-12-29 06:14 G	9638053.64	9638053.76	9638053.90	0.0133	0.0074
Mercury	21676-03-26 10:48 G	9638141.84	9638141.95	9638142.06	0.0133	0.0092
Mercury	21676-06-22 15:07 G	9638230.05	9638230.13	9638230.22	0.0133	0.0111
Mercury	21676-09-18 19:26 G	9638318.29	9638318.31	9638318.36	0.0133	0.0129
Mars	21685-09-05 23:45 G	9641592.30	9641592.49	9641592.70	0.0135	0.0092
Mars	21687-08-05 22:04 G	9642291.17	9642291.42	9642291.69	0.0135	0.0050
Earth	21703-11-04 02:38 G	9648224.47	9648224.61	9648224.77	0.0142	0.0113
Moon	21703-11-04 05:45 G	9648224.62	9648224.74	9648224.90	0.0142	0.0119 *
Moon	21704-11-07 19:26 G	9648594.09	9648594.31	9648594.56	0.0143	0.0046
Earth	21704-11-07 23:02 G	9648594.23	9648594.46	9648594.71	0.0143	0.0047 *
Earth	21705-11-12 19:55 G	9648964.09	9648964.33	9648964.59	0.0143	0.0021
Moon	21705-11-12 23:45 G	9648964.24	9648964.49	9648964.74	0.0143	0.0024 *
Moon	21706-11-17 13:55 G	9649333.89	9649334.08	9649334.30	0.0143	0.0083
Earth	21706-11-17 17:16 G	9649334.04	9649334.22	9649334.43	0.0143	0.0089 *
Venus	21711-04-20 10:19 G	9650948.90	9650948.93	9650948.99	0.0145	0.0141
Venus	21711-12-02 22:04 G	9651175.27	9651175.42	9651175.59	0.0145	0.0097
Venus	21712-07-16 10:04 G	9651401.72	9651401.92	9651402.13	0.0145	0.0052
Venus	21713-02-27 22:04 G	9651628.21	9651628.42	9651628.64	0.0145	0.0007
Venus	21713-10-12 10:19 G	9651854.72	9651854.93	9651855.14	0.0145	0.0038
Venus	21714-05-26 22:04 G	9652081.25	9652081.42	9652081.61	0.0145	0.0083
Venus	21715-01-08 10:04 G	9652307.83	9652307.92	9652308.03	0.0145	0.0128
Mercury	21715-07-30 10:04 G	9652510.88	9652510.92	9652510.98	0.0145	0.0136
Mercury	21715-10-26 15:07 G	9652599.04	9652599.13	9652599.23	0.0145	0.0113
Mercury	21716-01-22 20:09 G	9652687.22	9652687.34	9652687.46	0.0145	0.0090
Mercury	21716-04-20 01:12 G	9652775.42	9652775.55	9652775.69	0.0145	0.0067
Mercury	21716-07-17 06:14 G	9652863.62	9652863.76	9652863.91	0.0145	0.0044
Mercury	21716-10-13 11:31 G	9652951.83	9652951.98	9652952.13	0.0145	0.0020
Mercury	21717-01-09 16:33 G	9653040.04	9653040.19	9653040.35	0.0145	0.0005

Mercury	21717-04-07 21:50 G	9653128.26	9653128.41	9653128.56	0.0145	0.0028
Mercury	21717-07-05 03:07 G	9653216.49	9653216.63	9653216.78	0.0145	0.0052
Mercury	21717-10-01 08:24 G	9653304.72	9653304.85	9653304.99	0.0145	0.0077
Mercury	21717-12-28 13:55 G	9653392.97	9653393.08	9653393.19	0.0145	0.0101
Mercury	21718-03-26 19:12 G	9653481.23	9653481.30	9653481.38	0.0145	0.0126
Mars	21726-02-10 19:26 G	9656359.15	9656359.31	9656359.53	0.0143	0.0120
Mars	21728-01-19 09:07 G	9657066.65	9657066.88	9657067.15	0.0143	0.0098
Earth	21744-05-05 20:09 G	9663018.16	9663018.34	9663018.57	0.0136	0.0082
Moon	21744-05-05 23:16 G	9663018.28	9663018.47	9663018.70	0.0136	0.0081 *
Moon	21745-05-10 05:16 G	9663387.48	9663387.72	9663387.97	0.0136	0.0027
Earth	21745-05-10 08:09 G	9663387.60	9663387.84	9663388.10	0.0136	0.0024 *
Earth	21746-05-14 19:12 G	9663757.06	9663757.30	9663757.56	0.0135	0.0035
Moon	21746-05-14 22:48 G	9663757.21	9663757.45	9663757.70	0.0135	0.0041 *
Moon	21747-05-19 02:38 G	9664126.43	9664126.61	9664126.82	0.0135	0.0085
Earth	21747-05-19 06:14 G	9664126.57	9664126.76	9664126.94	0.0135	0.0091 *
Venus	21752-10-30 09:50 G	9666117.79	9666117.91	9666118.07	0.0134	0.0102
Venus	21753-06-13 15:36 G	9666343.97	9666344.15	9666344.35	0.0134	0.0066
Venus	21754-01-25 21:07 G	9666570.17	9666570.38	9666570.60	0.0134	0.0031
Venus	21754-09-09 02:38 G	9666796.39	9666796.61	9666796.83	0.0133	0.0004
Venus	21755-04-23 08:09 G	9667022.63	9667022.84	9667023.05	0.0133	0.0039
Venus	21755-12-05 13:26 G	9667248.88	9667249.06	9667249.24	0.0133	0.0074
Venus	21756-07-18 18:28 G	9667475.15	9667475.27	9667475.41	0.0133	0.0108
Mercury	21757-08-20 14:09 G	9667873.01	9667873.09	9667873.17	0.0133	0.0116
Mercury	21757-11-16 18:43 G	9667961.18	9667961.28	9667961.40	0.0133	0.0096
Mercury	21758-02-12 23:45 G	9668049.36	9668049.49	9668049.63	0.0133	0.0076
Mercury	21758-05-12 04:33 G	9668137.55	9668137.69	9668137.84	0.0133	0.0056
Mercury	21758-08-08 09:21 G	9668225.74	9668225.89	9668226.04	0.0133	0.0037
Mercury	21758-11-04 14:09 G	9668313.93	9668314.09	9668314.25	0.0133	0.0018
Mercury	21759-01-31 18:43 G	9668402.12	9668402.28	9668402.44	0.0133	0.0002
Mercury	21759-04-29 23:16 G	9668490.32	9668490.47	9668490.63	0.0133	0.0021

Mercury	21759-07-27 03:50 G	9668578.51	9668578.66	9668578.82	0.0133	0.0040
Mercury	21759-10-23 08:24 G	9668666.71	9668666.85	9668667.00	0.0133	0.0059
Mercury	21760-01-19 12:57 G	9668754.92	9668755.04	9668755.17	0.0133	0.0078
Mercury	21760-04-16 17:16 G	9668843.12	9668843.22	9668843.34	0.0133	0.0096
Mercury	21760-07-13 21:50 G	9668931.34	9668931.41	9668931.49	0.0133	0.0115
Mercury	21760-10-10 02:09 G	9669019.59	9669019.59	9669019.61	0.0133	0.0133
Mars	21770-05-02 00:00 G	9672510.24	9672510.50	9672510.78	0.0135	0.0038
Mars	21772-03-30 22:04 G	9673209.25	9673209.42	9673209.60	0.0136	0.0106
Earth	21787-11-04 11:45 G	9678905.85	9678905.99	9678906.17	0.0142	0.0111
Moon	21787-11-04 15:07 G	9678905.97	9678906.13	9678906.32	0.0142	0.0105 *
Moon	21788-11-08 05:16 G	9679275.49	9679275.72	9679275.96	0.0143	0.0047
Earth	21788-11-08 08:24 G	9679275.62	9679275.85	9679276.10	0.0143	0.0044 *
Earth	21789-11-13 05:31 G	9679645.48	9679645.73	9679645.98	0.0143	0.0024
Moon	21789-11-13 08:52 G	9679645.62	9679645.87	9679646.13	0.0143	0.0022 *
Moon	21790-11-17 23:02 G	9680015.28	9680015.46	9680015.65	0.0143	0.0098
Earth	21790-11-18 02:52 G	9680015.43	9680015.62	9680015.82	0.0143	0.0092 *
Venus	21795-08-02 03:21 G	9681733.53	9681733.64	9681733.78	0.0145	0.0117
Venus	21796-03-15 15:21 G	9681959.96	9681960.14	9681960.33	0.0145	0.0073
Venus	21796-10-28 03:21 G	9682186.43	9682186.64	9682186.86	0.0145	0.0028
Venus	21797-06-11 15:21 G	9682412.92	9682413.14	9682413.36	0.0145	0.0017
Venus	21798-01-24 03:07 G	9682639.44	9682639.63	9682639.83	0.0145	0.0062
Venus	21798-09-07 15:07 G	9682866.00	9682866.13	9682866.29	0.0145	0.0107
Mercury	21799-08-19 17:02 G	9683212.15	9683212.21	9683212.28	0.0145	0.0131
Mercury	21799-11-15 21:50 G	9683300.32	9683300.41	9683300.52	0.0145	0.0109
Mercury	21800-02-12 02:52 G	9683388.51	9683388.62	9683388.75	0.0145	0.0086
Mercury	21800-05-11 08:09 G	9683476.70	9683476.84	9683476.98	0.0145	0.0062
Mercury	21800-08-07 13:12 G	9683564.91	9683565.05	9683565.20	0.0145	0.0039
Mercury	21800-11-03 18:28 G	9683653.11	9683653.27	9683653.42	0.0145	0.0015
Mercury	21801-01-30 23:31 G	9683741.33	9683741.48	9683741.64	0.0145	0.0009
Mercury	21801-04-29 04:48 G	9683829.55	9683829.70	9683829.85	0.0145	0.0033

Mercury	21801-07-26 10:04 G	9683917.78	9683917.92	9683918.06	0.0145	0.0057
Mercury	21801-10-22 15:07 G	9684006.02	9684006.13	9684006.27	0.0145	0.0082
Mercury	21802-01-18 20:38 G	9684094.26	9684094.36	9684094.47	0.0145	0.0106
Mercury	21802-04-17 01:55 G	9684182.53	9684182.58	9684182.66	0.0145	0.0131
Mars	21810-10-09 06:00 G	9687279.43	9687279.75	9687280.09	0.0143	0.0037
Earth	21828-05-07 04:33 G	9693699.50	9693699.69	9693699.91	0.0136	0.0080
Moon	21828-05-07 07:40 G	9693699.61	9693699.82	9693700.03	0.0136	0.0080 *
Moon	21829-05-11 13:55 G	9694068.83	9694069.08	9694069.33	0.0136	0.0018
Earth	21829-05-11 16:33 G	9694068.94	9694069.19	9694069.45	0.0136	0.0022 *
Earth	21830-05-16 03:50 G	9694438.41	9694438.66	9694438.91	0.0135	0.0036
Moon	21830-05-16 06:14 G	9694438.52	9694438.76	9694439.03	0.0135	0.0031 *
Moon	21831-05-20 11:02 G	9694807.82	9694807.96	9694808.15	0.0135	0.0101
Earth	21831-05-20 14:09 G	9694807.93	9694808.09	9694808.30	0.0135	0.0094 *
Venus	21836-06-30 18:28 G	9696676.19	9696676.27	9696676.39	0.0134	0.0118
Venus	21837-02-12 00:14 G	9696902.35	9696902.51	9696902.69	0.0134	0.0083
Venus	21837-09-26 05:45 G	9697128.55	9697128.74	9697128.96	0.0134	0.0048
Venus	21838-05-10 11:31 G	9697354.77	9697354.98	9697355.20	0.0134	0.0012
Venus	21838-12-22 17:02 G	9697580.99	9697581.21	9697581.42	0.0133	0.0023
Venus	21839-08-05 22:04 G	9697807.23	9697807.42	9697807.63	0.0133	0.0058
Venus	21840-03-19 03:21 G	9698033.50	9698033.64	9698033.81	0.0133	0.0093
Venus	21840-10-31 08:52 G	9698259.81	9698259.87	9698259.94	0.0133	0.0127
Mercury	21841-06-14 15:36 G	9698486.15	9698486.15	9698486.19	0.0133	0.0132
Mercury	21841-09-10 20:38 G	9698574.28	9698574.36	9698574.46	0.0133	0.0112
Mercury	21841-12-08 01:26 G	9698662.46	9698662.56	9698662.69	0.0133	0.0093
Mercury	21842-03-06 06:28 G	9698750.64	9698750.77	9698750.91	0.0133	0.0072
Mercury	21842-06-02 11:16 G	9698838.83	9698838.97	9698839.12	0.0133	0.0053
Mercury	21842-08-29 16:04 G	9698927.02	9698927.17	9698927.33	0.0133	0.0033
Mercury	21842-11-25 20:52 G	9699015.21	9699015.37	9699015.53	0.0133	0.0014
Mercury	21843-02-22 01:26 G	9699103.40	9699103.56	9699103.72	0.0133	0.0006
Mercury	21843-05-21 06:00 G	9699191.60	9699191.75	9699191.91	0.0133	0.0025

Mercury	21843-08-17 10:33 G	9699279.80	9699279.94	9699280.10	0.0133	0.0044
Mercury	21843-11-13 15:07 G	9699368.00	9699368.13	9699368.28	0.0133	0.0063
Mercury	21844-02-09 19:40 G	9699456.20	9699456.32	9699456.45	0.0133	0.0082
Mercury	21844-05-08 00:14 G	9699544.41	9699544.51	9699544.62	0.0133	0.0100
Mercury	21844-08-04 04:48 G	9699632.63	9699632.70	9699632.77	0.0133	0.0119
Mars	21853-01-26 03:07 G	9702729.55	9702729.63	9702729.76	0.0135	0.0125
Mars	21854-12-26 00:14 G	9703428.24	9703428.51	9703428.79	0.0135	0.0018
Earth	21871-11-05 22:04 G	9709587.27	9709587.42	9709587.60	0.0142	0.0107
Moon	21871-11-06 00:57 G	9709587.38	9709587.54	9709587.69	0.0142	0.0114 *
Moon	21872-11-09 15:36 G	9709956.92	9709957.15	9709957.40	0.0143	0.0039
Earth	21872-11-09 18:43 G	9709957.04	9709957.28	9709957.53	0.0143	0.0041 *
Earth	21873-11-14 15:36 G	9710326.90	9710327.15	9710327.40	0.0143	0.0027
Moon	21873-11-14 18:57 G	9710327.04	9710327.29	9710327.55	0.0143	0.0028 *
Moon	21874-11-19 09:36 G	9710696.72	9710696.90	9710697.10	0.0143	0.0091
Earth	21874-11-19 12:43 G	9710696.86	9710697.03	9710697.23	0.0143	0.0095 *
Venus	21879-04-02 09:36 G	9712291.85	9712291.90	9712291.98	0.0145	0.0137
Venus	21879-11-14 21:21 G	9712518.23	9712518.39	9712518.57	0.0145	0.0093
Venus	21880-06-28 09:07 G	9712744.69	9712744.88	9712745.10	0.0145	0.0049
Venus	21881-02-09 21:07 G	9712971.17	9712971.38	9712971.60	0.0145	0.0005
Venus	21881-09-24 09:21 G	9713197.68	9713197.89	9713198.10	0.0145	0.0041
Venus	21882-05-08 21:07 G	9713424.22	9713424.38	9713424.56	0.0145	0.0086
Venus	21882-12-21 09:07 G	9713650.80	9713650.88	9713650.98	0.0145	0.0131
Mercury	21883-09-10 00:14 G	9713913.44	9713913.51	9713913.59	0.0145	0.0126
Mercury	21883-12-07 05:16 G	9714001.62	9714001.72	9714001.83	0.0145	0.0103
Mercury	21884-03-04 10:04 G	9714089.80	9714089.92	9714090.06	0.0145	0.0080
Mercury	21884-05-31 15:21 G	9714178.00	9714178.14	9714178.28	0.0145	0.0057
Mercury	21884-08-27 20:24 G	9714266.20	9714266.35	9714266.50	0.0145	0.0033
Mercury	21884-11-24 01:40 G	9714354.41	9714354.57	9714354.72	0.0145	0.0010
Mercury	21885-02-20 06:43 G	9714442.63	9714442.78	9714442.94	0.0145	0.0015
Mercury	21885-05-19 12:00 G	9714530.85	9714531.00	9714531.15	0.0145	0.0039

Mercury	21885-08-15 17:16 G	9714619.08	9714619.22	9714619.36	0.0145	0.0063
Mercury	21885-11-11 22:33 G	9714707.32	9714707.44	9714707.57	0.0145	0.0087
Mercury	21886-02-08 03:50 G	9714795.57	9714795.66	9714795.77	0.0145	0.0112
Mercury	21886-05-07 09:07 G	9714883.85	9714883.88	9714883.94	0.0145	0.0137
Mars	21895-06-05 18:14 G	9718199.95	9718200.26	9718200.60	0.0143	0.0046
Moon	21911-05-04 23:16 G	9724011.43	9724011.47	9724011.52	0.0136	0.0134
Earth	21912-05-08 12:57 G	9724380.84	9724381.04	9724381.26	0.0136	0.0078
Moon	21912-05-08 14:52 G	9724380.92	9724381.12	9724381.34	0.0136	0.0079 *
Moon	21913-05-12 23:02 G	9724750.21	9724750.46	9724750.70	0.0136	0.0022
Earth	21913-05-13 00:57 G	9724750.29	9724750.54	9724750.79	0.0136	0.0020 *
Earth	21914-05-17 12:00 G	9725119.76	9725120.00	9725120.25	0.0135	0.0038
Moon	21914-05-17 14:24 G	9725119.87	9725120.10	9725120.36	0.0135	0.0045 *
Moon	21915-05-21 20:38 G	9725489.18	9725489.36	9725489.55	0.0135	0.0089
Earth	21915-05-21 22:19 G	9725489.27	9725489.43	9725489.63	0.0135	0.0096 *
Venus	21920-03-01 03:07 G	9727234.63	9727234.63	9727234.65	0.0134	0.0134
Venus	21920-10-13 08:38 G	9727460.73	9727460.86	9727461.02	0.0134	0.0099
Venus	21921-05-27 14:24 G	9727686.91	9727687.10	9727687.30	0.0134	0.0064
Venus	21922-01-08 19:55 G	9727913.12	9727913.33	9727913.54	0.0134	0.0029
Venus	21922-08-23 01:26 G	9728139.34	9728139.56	9728139.78	0.0134	0.0006
Venus	21923-04-06 06:43 G	9728365.58	9728365.78	9728366.00	0.0133	0.0042
Venus	21923-11-18 12:00 G	9728591.83	9728592.00	9728592.19	0.0133	0.0076
Venus	21924-07-01 17:16 G	9728818.11	9728818.22	9728818.35	0.0133	0.0111
Mercury	21925-07-05 22:19 G	9729187.40	9729187.43	9729187.48	0.0133	0.0129
Mercury	21925-10-02 03:21 G	9729275.55	9729275.64	9729275.74	0.0133	0.0108
Mercury	21925-12-29 08:09 G	9729363.73	9729363.84	9729363.97	0.0133	0.0089
Mercury	21926-03-27 13:12 G	9729451.91	9729452.05	9729452.19	0.0133	0.0069
Mercury	21926-06-23 17:45 G	9729540.10	9729540.24	9729540.40	0.0133	0.0050
Mercury	21926-09-19 22:48 G	9729628.29	9729628.45	9729628.60	0.0133	0.0030
Mercury	21926-12-17 03:21 G	9729716.48	9729716.64	9729716.80	0.0133	0.0010
Mercury	21927-03-15 08:09 G	9729804.68	9729804.84	9729805.00	0.0133	0.0009

Mercury	21927-06-11 12:43 G	9729892.88	9729893.03	9729893.19	0.0133	0.0028
Mercury	21927-09-07 17:16 G	9729981.08	9729981.22	9729981.37	0.0133	0.0048
Mercury	21927-12-04 21:50 G	9730069.28	9730069.41	9730069.55	0.0133	0.0066
Mercury	21928-03-02 02:09 G	9730157.48	9730157.59	9730157.72	0.0133	0.0086
Mercury	21928-05-29 06:57 G	9730245.69	9730245.79	9730245.89	0.0133	0.0104
Mercury	21928-08-25 11:16 G	9730333.92	9730333.97	9730334.04	0.0133	0.0122
Mars	21937-09-21 01:12 G	9733647.33	9733647.55	9733647.81	0.0135	0.0071
Mars	21939-08-20 22:48 G	9734346.23	9734346.45	9734346.70	0.0136	0.0075
Earth	21955-11-07 07:40 G	9740268.67	9740268.82	9740269.01	0.0142	0.0105
Moon	21955-11-07 10:04 G	9740268.75	9740268.92	9740269.12	0.0142	0.0099 *
Moon	21956-11-11 01:55 G	9740638.35	9740638.58	9740638.82	0.0143	0.0043
Earth	21956-11-11 04:33 G	9740638.44	9740638.69	9740638.93	0.0143	0.0038 *
Earth	21957-11-16 01:12 G	9741008.31	9741008.55	9741008.81	0.0143	0.0030
Moon	21957-11-16 04:04 G	9741008.43	9741008.67	9741008.93	0.0143	0.0029 *
Moon	21958-11-20 19:26 G	9741378.14	9741378.31	9741378.48	0.0143	0.0103
Earth	21958-11-20 22:19 G	9741378.27	9741378.43	9741378.64	0.0143	0.0099 *
Venus	21963-07-16 03:21 G	9743076.52	9743076.64	9743076.79	0.0145	0.0113
Venus	21964-02-27 15:07 G	9743302.95	9743303.13	9743303.33	0.0145	0.0069
Venus	21964-10-11 03:21 G	9743529.43	9743529.64	9743529.86	0.0145	0.0024
Venus	21965-05-25 15:21 G	9743755.93	9743756.14	9743756.36	0.0145	0.0021
Venus	21966-01-07 03:07 G	9743982.45	9743982.63	9743982.83	0.0145	0.0066
Venus	21966-08-21 15:07 G	9744209.00	9744209.13	9744209.28	0.0145	0.0111
Mercury	21967-07-05 02:24 G	9744526.59	9744526.60	9744526.64	0.0145	0.0143
Mercury	21967-10-01 07:26 G	9744614.74	9744614.81	9744614.90	0.0145	0.0120
Mercury	21967-12-28 12:28 G	9744702.91	9744703.02	9744703.14	0.0145	0.0097
Mercury	21968-03-25 17:31 G	9744791.10	9744791.23	9744791.36	0.0145	0.0074
Mercury	21968-06-21 22:33 G	9744879.30	9744879.44	9744879.59	0.0145	0.0051
Mercury	21968-09-18 03:50 G	9744967.51	9744967.66	9744967.81	0.0145	0.0027
Mercury	21968-12-15 08:52 G	9745055.72	9745055.87	9745056.03	0.0145	0.0004
Mercury	21969-03-13 14:09 G	9745143.94	9745144.09	9745144.24	0.0145	0.0021

Mercury	21969-06-09 19:12 G	9745232.16	9745232.30	9745232.45	0.0145	0.0045
Mercury	21969-09-06 00:28 G	9745320.39	9745320.52	9745320.66	0.0145	0.0069
Mercury	21969-12-03 05:45 G	9745408.63	9745408.74	9745408.87	0.0145	0.0094
Mercury	21970-03-01 11:16 G	9745496.88	9745496.97	9745497.06	0.0145	0.0118
Mercury	21970-05-28 16:33 G	9745585.18	9745585.19	9745585.22	0.0145	0.0143
Mars	21978-02-23 17:16 G	9748412.97	9748413.22	9748413.50	0.0143	0.0090
Mars	21980-02-01 06:57 G	9749120.67	9749120.79	9749120.94	0.0143	0.0130
Earth	21995-05-05 09:36 G	9754692.89	9754692.90	9754692.96	0.0136	0.0135
Earth	21996-05-08 22:04 G	9755062.22	9755062.42	9755062.64	0.0136	0.0076
Moon	21996-05-08 23:16 G	9755062.26	9755062.47	9755062.70	0.0136	0.0075 *
Moon	21997-05-13 08:24 G	9755431.61	9755431.85	9755432.10	0.0135	0.0016
Earth	21997-05-13 09:50 G	9755431.66	9755431.91	9755432.17	0.0135	0.0018 *
Earth	21998-05-17 20:52 G	9755801.13	9755801.37	9755801.62	0.0135	0.0041
Moon	21998-05-17 22:19 G	9755801.18	9755801.43	9755801.69	0.0135	0.0036 *
Moon	21999-05-22 05:16 G	9756170.58	9756170.72	9756170.89	0.0135	0.0105
Earth	21999-05-22 07:26 G	9756170.65	9756170.81	9756171.00	0.0135	0.0098 *

23RD MILLENNIUM CE

This is a list of transits visible from Uranus in the 23rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	22004-06-12 17:45 G		9758019.13	9758019.24	9758019.35	0.0134	0.0114	
Venus	22005-01-24 23:02 G		9758245.30	9758245.46	9758245.65	0.0134	0.0080	
Venus	22005-09-08 04:33 G		9758471.50	9758471.69	9758471.91	0.0134	0.0045	

Venus	22006-04-22 10:19 G	9758697.72	9758697.93	9758698.15	0.0134	0.0010
Venus	22006-12-04 15:50 G	9758923.95	9758924.16	9758924.37	0.0133	0.0025
Venus	22007-07-18 20:52 G	9759150.19	9759150.37	9759150.58	0.0133	0.0061
Venus	22008-03-01 02:09 G	9759376.46	9759376.59	9759376.76	0.0133	0.0095
Venus	22008-10-13 07:40 G	9759602.78	9759602.82	9759602.88	0.0133	0.0129
Mercury	22009-07-26 05:02 G	9759888.67	9759888.71	9759888.78	0.0133	0.0125
Mercury	22009-10-22 10:04 G	9759976.83	9759976.92	9759977.03	0.0133	0.0104
Mercury	22010-01-18 15:07 G	9760065.01	9760065.13	9760065.26	0.0133	0.0084
Mercury	22010-04-16 19:55 G	9760153.19	9760153.33	9760153.47	0.0133	0.0065
Mercury	22010-07-14 00:43 G	9760241.38	9760241.53	9760241.68	0.0133	0.0045
Mercury	22010-10-10 05:31 G	9760329.57	9760329.73	9760329.89	0.0133	0.0025
Mercury	22011-01-06 10:19 G	9760417.77	9760417.93	9760418.09	0.0133	0.0006
Mercury	22011-04-04 14:52 G	9760505.96	9760506.12	9760506.28	0.0133	0.0013
Mercury	22011-07-01 19:26 G	9760594.16	9760594.31	9760594.47	0.0133	0.0033
Mercury	22011-09-28 00:14 G	9760682.36	9760682.51	9760682.65	0.0133	0.0051
Mercury	22011-12-25 04:33 G	9760770.56	9760770.69	9760770.83	0.0133	0.0071
Mercury	22012-03-22 09:07 G	9760858.77	9760858.88	9760859.00	0.0133	0.0089
Mercury	22012-06-18 13:40 G	9760946.98	9760947.07	9760947.17	0.0133	0.0108
Mercury	22012-09-14 18:00 G	9761035.21	9761035.25	9761035.31	0.0133	0.0126
Mars	22022-05-16 00:28 G	9764565.24	9764565.52	9764565.80	0.0135	0.0015
Mars	22024-04-13 22:48 G	9765264.40	9765264.45	9765264.54	0.0136	0.0132
Earth	22039-11-07 16:19 G	9770950.02	9770950.18	9770950.36	0.0142	0.0103
Moon	22039-11-07 17:31 G	9770950.08	9770950.23	9770950.40	0.0142	0.0110 *
Moon	22040-11-11 11:02 G	9771319.72	9771319.96	9771320.20	0.0143	0.0033
Earth	22040-11-11 12:57 G	9771319.80	9771320.04	9771320.29	0.0143	0.0036 *
Earth	22041-11-16 09:36 G	9771689.66	9771689.90	9771690.16	0.0143	0.0032
Moon	22041-11-16 12:14 G	9771689.76	9771690.01	9771690.27	0.0143	0.0031 *
Moon	22042-11-21 04:19 G	9772059.52	9772059.68	9772059.88	0.0143	0.0098
Earth	22042-11-21 06:57 G	9772059.63	9772059.79	9772059.98	0.0143	0.0100 *
Venus	22047-03-15 08:52 G	9773634.80	9773634.87	9773634.96	0.0145	0.0133

Venus	22047-10-27 20:52 G	9773861.20	9773861.37	9773861.55	0.0145	0.0089
Venus	22048-06-10 08:38 G	9774087.66	9774087.86	9774088.08	0.0145	0.0045
Venus	22049-01-22 20:52 G	9774314.15	9774314.37	9774314.58	0.0145	0.0003
Venus	22049-09-06 08:52 G	9774540.66	9774540.87	9774541.08	0.0145	0.0045
Venus	22050-04-20 20:52 G	9774767.21	9774767.37	9774767.55	0.0145	0.0090
Venus	22050-12-03 08:52 G	9774993.81	9774993.87	9774993.96	0.0145	0.0135
Mercury	22051-07-25 09:50 G	9775227.87	9775227.91	9775227.96	0.0145	0.0137
Mercury	22051-10-21 14:52 G	9775316.03	9775316.12	9775316.21	0.0145	0.0114
Mercury	22052-01-17 19:26 G	9775404.21	9775404.31	9775404.44	0.0145	0.0092
Mercury	22052-04-15 00:43 G	9775492.40	9775492.53	9775492.66	0.0145	0.0068
Mercury	22052-07-12 05:45 G	9775580.60	9775580.74	9775580.89	0.0145	0.0045
Mercury	22052-10-08 10:48 G	9775668.80	9775668.95	9775669.11	0.0145	0.0022
Mercury	22053-01-04 16:04 G	9775757.02	9775757.17	9775757.32	0.0145	0.0002
Mercury	22053-04-02 21:07 G	9775845.23	9775845.38	9775845.54	0.0145	0.0027
Mercury	22053-06-30 02:24 G	9775933.46	9775933.60	9775933.75	0.0145	0.0051
Mercury	22053-09-26 07:40 G	9776021.69	9776021.82	9776021.96	0.0145	0.0075
Mercury	22053-12-23 12:57 G	9776109.93	9776110.04	9776110.16	0.0145	0.0099
Mercury	22054-03-21 18:14 G	9776198.19	9776198.26	9776198.35	0.0145	0.0124
Mars	22062-10-21 07:40 G	9779333.48	9779333.82	9779334.16	0.0143	0.0005
Moon	22079-05-05 18:28 G	9785374.20	9785374.27	9785374.36	0.0136	0.0128
Earth	22079-05-05 18:28 G	9785374.24	9785374.27	9785374.35	0.0136	0.0133 *
Earth	22080-05-09 06:57 G	9785743.58	9785743.79	9785744.01	0.0136	0.0074
Moon	22080-05-09 07:12 G	9785743.59	9785743.80	9785744.03	0.0136	0.0077 *
Moon	22081-05-13 18:00 G	9786113.01	9786113.25	9786113.50	0.0135	0.0016
Earth	22081-05-13 18:43 G	9786113.02	9786113.28	9786113.53	0.0135	0.0016 *
Earth	22082-05-18 05:31 G	9786482.49	9786482.73	9786482.98	0.0135	0.0043
Moon	22082-05-18 06:43 G	9786482.54	9786482.78	9786483.04	0.0135	0.0047 *
Moon	22083-05-22 14:52 G	9786851.96	9786852.12	9786852.31	0.0135	0.0095
Earth	22083-05-22 15:50 G	9786852.01	9786852.16	9786852.35	0.0135	0.0100 *
Venus	22088-02-11 02:09 G	9788577.54	9788577.59	9788577.64	0.0134	0.0130

Venus	22088-09-24 07:26 G	9788803.67	9788803.81	9788803.98	0.0134	0.0096
Venus	22089-05-08 13:12 G	9789029.86	9789030.05	9789030.25	0.0134	0.0061
Venus	22089-12-20 18:43 G	9789256.07	9789256.28	9789256.50	0.0133	0.0026
Venus	22090-08-04 00:14 G	9789482.30	9789482.51	9789482.73	0.0133	0.0010
Venus	22091-03-18 05:45 G	9789708.54	9789708.74	9789708.95	0.0133	0.0044
Venus	22091-10-30 10:48 G	9789934.79	9789934.95	9789935.14	0.0133	0.0080
Venus	22092-06-12 16:19 G	9790161.08	9790161.18	9790161.30	0.0133	0.0113
Mercury	22093-08-15 11:31 G	9790589.93	9790589.98	9790590.06	0.0133	0.0121
Mercury	22093-11-11 16:33 G	9790678.10	9790678.19	9790678.31	0.0133	0.0101
Mercury	22094-02-07 21:36 G	9790766.28	9790766.40	9790766.53	0.0133	0.0081
Mercury	22094-05-07 02:24 G	9790854.46	9790854.60	9790854.75	0.0133	0.0061
Mercury	22094-08-03 07:26 G	9790942.65	9790942.81	9790942.96	0.0133	0.0042
Mercury	22094-10-30 12:00 G	9791030.85	9791031.00	9791031.16	0.0133	0.0022
Mercury	22095-01-26 16:48 G	9791119.04	9791119.20	9791119.36	0.0133	0.0003
Mercury	22095-04-24 21:36 G	9791207.24	9791207.40	9791207.56	0.0133	0.0017
Mercury	22095-07-22 02:09 G	9791295.44	9791295.59	9791295.74	0.0133	0.0036
Mercury	22095-10-18 06:43 G	9791383.64	9791383.78	9791383.93	0.0133	0.0055
Mercury	22096-01-14 11:16 G	9791471.84	9791471.97	9791472.11	0.0133	0.0074
Mercury	22096-04-11 15:50 G	9791560.05	9791560.16	9791560.28	0.0133	0.0092
Mercury	22096-07-08 20:09 G	9791648.27	9791648.34	9791648.44	0.0133	0.0111
Mercury	22096-10-05 00:43 G	9791736.50	9791736.53	9791736.57	0.0133	0.0129
Mars	22105-02-09 00:43 G	9794784.37	9794784.53	9794784.72	0.0135	0.0106
Mars	22107-01-08 22:04 G	9795483.16	9795483.42	9795483.69	0.0135	0.0040
Earth	22123-11-08 23:45 G	9801631.33	9801631.49	9801631.68	0.0142	0.0102
Moon	22123-11-09 00:43 G	9801631.35	9801631.53	9801631.74	0.0142	0.0095 *
Moon	22124-11-12 19:12 G	9802001.07	9802001.30	9802001.54	0.0143	0.0041
Earth	22124-11-12 20:24 G	9802001.11	9802001.35	9802001.60	0.0143	0.0035 *
Earth	22125-11-17 17:16 G	9802370.98	9802371.22	9802371.47	0.0143	0.0033
Moon	22125-11-17 18:43 G	9802371.04	9802371.28	9802371.55	0.0143	0.0035 *
Moon	22126-11-22 12:00 G	9802740.85	9802741.00	9802741.18	0.0143	0.0106

Earth	22126-11-22 14:24 G	9802740.94	9802741.10	9802741.29	0.0143	0.0102 *
Venus	22131-06-28 01:26 G	9804419.43	9804419.56	9804419.71	0.0145	0.0110
Venus	22132-02-09 13:12 G	9804645.87	9804646.05	9804646.26	0.0145	0.0066
Venus	22132-09-23 01:40 G	9804872.35	9804872.57	9804872.78	0.0145	0.0021
Venus	22133-05-07 13:40 G	9805098.86	9805099.07	9805099.28	0.0145	0.0024
Venus	22133-12-20 01:26 G	9805325.38	9805325.56	9805325.76	0.0145	0.0069
Venus	22134-08-03 13:55 G	9805551.95	9805552.08	9805552.21	0.0145	0.0113
Mercury	22135-08-15 16:33 G	9805929.14	9805929.19	9805929.26	0.0145	0.0133
Mercury	22135-11-11 21:36 G	9806017.31	9806017.40	9806017.50	0.0145	0.0110
Mercury	22136-02-08 02:38 G	9806105.49	9806105.61	9806105.73	0.0145	0.0087
Mercury	22136-05-06 07:26 G	9806193.68	9806193.81	9806193.95	0.0145	0.0064
Mercury	22136-08-02 12:28 G	9806281.88	9806282.02	9806282.17	0.0145	0.0041
Mercury	22136-10-29 17:45 G	9806370.09	9806370.24	9806370.39	0.0145	0.0017
Mercury	22137-01-25 23:02 G	9806458.30	9806458.46	9806458.61	0.0145	0.0008
Mercury	22137-04-24 04:04 G	9806546.52	9806546.67	9806546.82	0.0145	0.0031
Mercury	22137-07-21 09:21 G	9806634.75	9806634.89	9806635.03	0.0145	0.0055
Mercury	22137-10-17 14:38 G	9806722.98	9806723.11	9806723.24	0.0145	0.0079
Mercury	22138-01-13 19:40 G	9806811.23	9806811.32	9806811.44	0.0145	0.0104
Mercury	22138-04-12 01:12 G	9806899.49	9806899.55	9806899.63	0.0145	0.0128
Mars	22147-06-18 19:40 G	9810254.04	9810254.32	9810254.60	0.0143	0.0079
Earth	22163-05-07 03:50 G	9816055.60	9816055.66	9816055.74	0.0136	0.0131
Moon	22164-05-10 15:36 G	9816424.93	9816425.15	9816425.39	0.0136	0.0069
Earth	22164-05-10 15:50 G	9816424.96	9816425.16	9816425.39	0.0136	0.0072 *
Moon	22165-05-15 03:36 G	9816794.40	9816794.65	9816794.90	0.0135	0.0013
Earth	22165-05-15 03:36 G	9816794.40	9816794.65	9816794.91	0.0135	0.0013 *
Moon	22166-05-19 14:24 G	9817163.85	9817164.10	9817164.36	0.0135	0.0042
Earth	22166-05-19 14:24 G	9817163.87	9817164.10	9817164.35	0.0135	0.0045 *
Moon	22167-05-23 23:45 G	9817533.37	9817533.49	9817533.66	0.0135	0.0109
Earth	22167-05-24 00:57 G	9817533.38	9817533.54	9817533.71	0.0135	0.0102 *
Venus	22172-05-25 16:33 G	9819362.08	9819362.19	9819362.32	0.0134	0.0111

Venus	22173-01-06 22:04 G	9819588.25	9819588.42	9819588.61	0.0134	0.0076
Venus	22173-08-21 03:36 G	9819814.45	9819814.65	9819814.87	0.0133	0.0041
Venus	22174-04-04 09:21 G	9820040.68	9820040.89	9820041.11	0.0133	0.0007
Venus	22174-11-16 14:52 G	9820266.91	9820267.12	9820267.33	0.0133	0.0029
Venus	22175-06-30 20:09 G	9820493.15	9820493.34	9820493.54	0.0133	0.0063
Venus	22176-02-12 01:12 G	9820719.42	9820719.55	9820719.71	0.0133	0.0098
Venus	22176-09-25 06:28 G	9820945.77	9820945.77	9820945.82	0.0133	0.0133
Mercury	22177-09-05 18:43 G	9821291.20	9821291.28	9821291.36	0.0133	0.0117
Mercury	22177-12-02 23:31 G	9821379.37	9821379.48	9821379.59	0.0133	0.0097
Mercury	22178-03-01 04:19 G	9821467.55	9821467.68	9821467.82	0.0133	0.0077
Mercury	22178-05-28 09:07 G	9821555.74	9821555.88	9821556.04	0.0133	0.0057
Mercury	22178-08-24 14:09 G	9821643.93	9821644.09	9821644.24	0.0133	0.0037
Mercury	22178-11-20 18:57 G	9821732.13	9821732.29	9821732.45	0.0133	0.0018
Mercury	22179-02-16 23:31 G	9821820.32	9821820.48	9821820.65	0.0133	0.0004
Mercury	22179-05-16 04:19 G	9821908.52	9821908.68	9821908.84	0.0133	0.0021
Mercury	22179-08-12 08:52 G	9821996.72	9821996.87	9821997.03	0.0133	0.0040
Mercury	22179-11-08 13:26 G	9822084.92	9822085.06	9822085.21	0.0133	0.0059
Mercury	22180-02-04 18:00 G	9822173.13	9822173.25	9822173.38	0.0133	0.0078
Mercury	22180-05-02 22:33 G	9822261.34	9822261.44	9822261.55	0.0133	0.0096
Mercury	22180-07-30 03:07 G	9822349.56	9822349.63	9822349.71	0.0133	0.0115
Mercury	22180-10-26 07:26 G	9822437.81	9822437.81	9822437.82	0.0133	0.0133
Mars	22189-10-03 23:31 G	9825702.23	9825702.48	9825702.74	0.0135	0.0050
Mars	22191-09-02 22:04 G	9826401.25	9826401.42	9826401.63	0.0135	0.0098
Moon	22207-11-10 06:14 G	9832312.61	9832312.76	9832312.95	0.0142	0.0108
Earth	22207-11-10 06:28 G	9832312.62	9832312.77	9832312.97	0.0142	0.0102 *
Moon	22208-11-14 02:38 G	9832682.38	9832682.61	9832682.86	0.0143	0.0029
Earth	22208-11-14 03:21 G	9832682.39	9832682.64	9832682.89	0.0143	0.0034 *
Earth	22209-11-19 00:00 G	9833052.26	9833052.50	9833052.75	0.0143	0.0035
Moon	22209-11-19 01:12 G	9833052.30	9833052.55	9833052.81	0.0143	0.0032 *
Moon	22210-11-23 20:09 G	9833422.18	9833422.34	9833422.52	0.0143	0.0102

Earth	22210-11-23 21:21 G	9833422.23	9833422.39	9833422.57	0.0143	0.0104 *
Venus	22215-02-26 06:00 G	9834977.66	9834977.75	9834977.84	0.0144	0.0131
Venus	22215-10-10 18:00 G	9835204.08	9835204.25	9835204.42	0.0145	0.0087
Venus	22216-05-24 05:45 G	9835430.54	9835430.74	9835430.96	0.0145	0.0043
Venus	22217-01-05 18:00 G	9835657.03	9835657.25	9835657.46	0.0145	0.0003
Venus	22217-08-20 05:45 G	9835883.54	9835883.74	9835883.96	0.0145	0.0047
Venus	22218-04-03 18:14 G	9836110.09	9836110.26	9836110.43	0.0145	0.0091
Venus	22218-11-16 06:14 G	9836336.70	9836336.76	9836336.84	0.0145	0.0136
Mercury	22219-09-05 23:31 G	9836630.41	9836630.48	9836630.54	0.0145	0.0129
Mercury	22219-12-03 04:04 G	9836718.58	9836718.67	9836718.78	0.0145	0.0107
Mercury	22220-02-29 09:07 G	9836806.77	9836806.88	9836807.01	0.0145	0.0084
Mercury	22220-05-27 14:24 G	9836894.96	9836895.10	9836895.24	0.0145	0.0060
Mercury	22220-08-23 19:26 G	9836983.16	9836983.31	9836983.45	0.0145	0.0037
Mercury	22220-11-20 00:28 G	9837071.37	9837071.52	9837071.67	0.0145	0.0013
Mercury	22221-02-16 05:31 G	9837159.58	9837159.73	9837159.89	0.0145	0.0011
Mercury	22221-05-15 10:48 G	9837247.80	9837247.95	9837248.10	0.0145	0.0034
Mercury	22221-08-11 16:04 G	9837336.03	9837336.17	9837336.31	0.0145	0.0058
Mercury	22221-11-07 21:07 G	9837424.26	9837424.38	9837424.51	0.0145	0.0083
Mercury	22222-02-04 02:24 G	9837512.50	9837512.60	9837512.71	0.0145	0.0107
Mercury	22222-05-03 07:40 G	9837600.77	9837600.82	9837600.89	0.0145	0.0132
Mars	22230-03-08 14:24 G	9840466.80	9840467.10	9840467.42	0.0143	0.0061
Earth	22247-05-08 12:43 G	9846736.95	9846737.03	9846737.11	0.0136	0.0129
Moon	22247-05-08 13:26 G	9846736.97	9846737.06	9846737.18	0.0136	0.0123 *
Moon	22248-05-11 23:16 G	9847106.27	9847106.47	9847106.71	0.0136	0.0074
Earth	22248-05-12 00:28 G	9847106.31	9847106.52	9847106.75	0.0136	0.0070 *
Earth	22249-05-16 12:00 G	9847475.75	9847476.00	9847476.26	0.0136	0.0011
Moon	22249-05-16 12:57 G	9847475.79	9847476.04	9847476.29	0.0136	0.0010 *
Moon	22250-05-20 22:33 G	9847845.20	9847845.44	9847845.69	0.0135	0.0050
Earth	22250-05-20 22:48 G	9847845.22	9847845.45	9847845.70	0.0135	0.0048 *
Earth	22251-05-25 09:07 G	9848214.73	9848214.88	9848215.05	0.0135	0.0105

Moon	22251-05-25 09:36 G	9848214.75	9848214.90	9848215.08	0.0135	0.0101 *
Venus	22256-01-25 00:57 G	9849920.49	9849920.54	9849920.62	0.0134	0.0127
Venus	22256-09-07 06:43 G	9850146.63	9850146.78	9850146.95	0.0134	0.0092
Venus	22257-04-21 12:43 G	9850372.83	9850373.03	9850373.23	0.0134	0.0057
Venus	22257-12-03 18:00 G	9850599.04	9850599.25	9850599.47	0.0133	0.0023
Venus	22258-07-17 23:45 G	9850825.27	9850825.49	9850825.70	0.0133	0.0013
Venus	22259-03-01 05:02 G	9851051.51	9851051.71	9851051.92	0.0133	0.0047
Venus	22259-10-13 10:04 G	9851277.77	9851277.92	9851278.11	0.0133	0.0083
Venus	22260-05-26 15:36 G	9851504.06	9851504.15	9851504.27	0.0133	0.0117
Mercury	22261-06-30 20:24 G	9851904.35	9851904.35	9851904.36	0.0133	0.0133
Mercury	22261-09-27 01:12 G	9851992.47	9851992.55	9851992.64	0.0133	0.0113
Mercury	22261-12-24 06:00 G	9852080.65	9852080.75	9852080.88	0.0133	0.0093
Mercury	22262-03-22 11:02 G	9852168.83	9852168.96	9852169.10	0.0133	0.0073
Mercury	22262-06-18 15:50 G	9852257.02	9852257.16	9852257.32	0.0133	0.0054
Mercury	22262-09-14 20:38 G	9852345.21	9852345.36	9852345.52	0.0133	0.0034
Mercury	22262-12-12 01:26 G	9852433.41	9852433.56	9852433.73	0.0133	0.0015
Mercury	22263-03-10 06:14 G	9852521.60	9852521.76	9852521.92	0.0133	0.0005
Mercury	22263-06-06 11:02 G	9852609.80	9852609.96	9852610.12	0.0133	0.0024
Mercury	22263-09-02 15:36 G	9852698.00	9852698.15	9852698.30	0.0133	0.0043
Mercury	22263-11-29 20:09 G	9852786.20	9852786.34	9852786.48	0.0133	0.0062
Mercury	22264-02-26 00:43 G	9852874.41	9852874.53	9852874.66	0.0133	0.0081
Mercury	22264-05-24 05:16 G	9852962.62	9852962.72	9852962.83	0.0133	0.0100
Mercury	22264-08-20 09:36 G	9853050.84	9853050.90	9853050.98	0.0133	0.0118
Mars	22274-05-30 00:14 G	9856620.24	9856620.51	9856620.79	0.0135	0.0007
Moon	22291-11-10 13:40 G	9862993.89	9862994.07	9862994.29	0.0142	0.0092
Earth	22291-11-10 14:24 G	9862993.94	9862994.10	9862994.30	0.0142	0.0100 *
Earth	22292-11-14 10:48 G	9863363.71	9863363.95	9863364.21	0.0143	0.0032
Moon	22292-11-14 11:16 G	9863363.74	9863363.97	9863364.21	0.0143	0.0038 *
Moon	22293-11-19 07:55 G	9863733.58	9863733.83	9863734.09	0.0143	0.0040
Earth	22293-11-19 07:40 G	9863733.59	9863733.82	9863734.07	0.0143	0.0037 *

Moon	22294-11-24 03:50 G	9864103.52	9864103.66	9864103.84	0.0143	0.0108
Earth	22294-11-24 05:02 G	9864103.55	9864103.71	9864103.89	0.0143	0.0106 *
Venus	22299-06-09 22:19 G	9865762.31	9865762.43	9865762.60	0.0145	0.0109
Venus	22300-01-22 10:33 G	9865988.75	9865988.94	9865989.14	0.0145	0.0064
Venus	22300-09-05 22:48 G	9866215.23	9866215.45	9866215.67	0.0145	0.0019
Venus	22301-04-20 10:48 G	9866441.74	9866441.95	9866442.17	0.0145	0.0025
Venus	22301-12-02 22:48 G	9866668.27	9866668.45	9866668.65	0.0145	0.0070
Venus	22302-07-17 11:02 G	9866894.83	9866894.96	9866895.10	0.0145	0.0114
Mercury	22303-09-27 06:14 G	9867331.69	9867331.76	9867331.84	0.0145	0.0125
Mercury	22303-12-24 11:02 G	9867419.86	9867419.96	9867420.07	0.0145	0.0103
Mercury	22304-03-21 16:04 G	9867508.05	9867508.17	9867508.30	0.0145	0.0080
Mercury	22304-06-17 21:07 G	9867596.24	9867596.38	9867596.52	0.0145	0.0057
Mercury	22304-09-14 02:09 G	9867684.44	9867684.59	9867684.74	0.0145	0.0033
Mercury	22304-12-11 07:12 G	9867772.65	9867772.80	9867772.96	0.0145	0.0010
Mercury	22305-03-09 12:28 G	9867860.87	9867861.02	9867861.17	0.0145	0.0014
Mercury	22305-06-05 17:31 G	9867949.09	9867949.23	9867949.38	0.0145	0.0038
Mercury	22305-09-01 22:48 G	9868037.31	9868037.45	9868037.59	0.0145	0.0062
Mercury	22305-11-29 03:50 G	9868125.55	9868125.66	9868125.79	0.0145	0.0087
Mercury	22306-02-25 09:21 G	9868213.79	9868213.89	9868213.99	0.0145	0.0111
Mercury	22306-05-24 14:24 G	9868302.06	9868302.10	9868302.17	0.0145	0.0136
Mars	22314-11-04 00:43 G	9871387.20	9871387.53	9871387.88	0.0143	0.0024
Earth	22331-05-09 21:21 G	9877418.30	9877418.39	9877418.48	0.0136	0.0127
Moon	22331-05-09 23:02 G	9877418.44	9877418.46	9877418.52	0.0136	0.0134 *
Moon	22332-05-13 07:12 G	9877787.58	9877787.80	9877788.05	0.0136	0.0063
Earth	22332-05-13 08:52 G	9877787.67	9877787.87	9877788.11	0.0136	0.0068 *
Earth	22333-05-17 20:38 G	9878157.11	9878157.36	9878157.62	0.0136	0.0009
Moon	22333-05-17 21:50 G	9878157.17	9878157.41	9878157.66	0.0136	0.0011 *
Moon	22334-05-22 05:31 G	9878526.50	9878526.73	9878526.99	0.0135	0.0050
Earth	22334-05-22 07:12 G	9878526.57	9878526.80	9878527.05	0.0135	0.0050 *
Earth	22335-05-26 17:45 G	9878896.09	9878896.24	9878896.40	0.0135	0.0107

Moon	22335-05-26 18:00 G	9878896.14	9878896.25	9878896.41	0.0135	0.0113 *
Venus	22340-05-08 15:36 G	9880705.04	9880705.15	9880705.30	0.0134	0.0108
Venus	22340-12-20 21:21 G	9880931.22	9880931.39	9880931.58	0.0134	0.0073
Venus	22341-08-04 03:07 G	9881157.43	9881157.63	9881157.84	0.0134	0.0038
Venus	22342-03-18 08:52 G	9881383.65	9881383.87	9881384.09	0.0133	0.0003
Venus	22342-10-30 14:24 G	9881609.89	9881610.10	9881610.31	0.0133	0.0032
Venus	22343-06-13 19:40 G	9881836.14	9881836.32	9881836.51	0.0133	0.0067
Venus	22344-01-26 00:43 G	9882062.41	9882062.53	9882062.69	0.0133	0.0101
Mercury	22345-07-22 02:52 G	9882605.60	9882605.62	9882605.67	0.0133	0.0129
Mercury	22345-10-18 08:09 G	9882693.75	9882693.84	9882693.94	0.0133	0.0109
Mercury	22346-01-14 12:57 G	9882781.93	9882782.04	9882782.17	0.0133	0.0089
Mercury	22346-04-12 17:45 G	9882870.11	9882870.24	9882870.39	0.0133	0.0069
Mercury	22346-07-09 22:48 G	9882958.30	9882958.45	9882958.60	0.0133	0.0049
Mercury	22346-10-06 03:36 G	9883046.49	9883046.65	9883046.81	0.0133	0.0030
Mercury	22347-01-02 08:24 G	9883134.69	9883134.85	9883135.01	0.0133	0.0010
Mercury	22347-03-31 13:12 G	9883222.89	9883223.05	9883223.21	0.0133	0.0010
Mercury	22347-06-27 17:45 G	9883311.08	9883311.24	9883311.40	0.0133	0.0028
Mercury	22347-09-23 22:19 G	9883399.29	9883399.43	9883399.58	0.0133	0.0048
Mercury	22347-12-21 02:52 G	9883487.49	9883487.62	9883487.76	0.0133	0.0067
Mercury	22348-03-18 07:26 G	9883575.70	9883575.81	9883575.94	0.0133	0.0085
Mercury	22348-06-14 12:14 G	9883663.91	9883664.01	9883664.10	0.0133	0.0104
Mercury	22348-09-10 16:19 G	9883752.13	9883752.18	9883752.25	0.0133	0.0123
Mars	22357-02-23 03:50 G	9886839.45	9886839.66	9886839.88	0.0135	0.0084
Mars	22359-01-23 00:43 G	9887538.29	9887538.53	9887538.78	0.0135	0.0065
Moon	22375-11-11 22:04 G	9893675.25	9893675.42	9893675.60	0.0142	0.0104
Earth	22375-11-11 23:45 G	9893675.32	9893675.49	9893675.69	0.0142	0.0097 *
Earth	22376-11-15 20:09 G	9894045.10	9894045.34	9894045.59	0.0143	0.0029
Moon	22376-11-15 21:07 G	9894045.15	9894045.38	9894045.63	0.0143	0.0023 *
Moon	22377-11-20 16:48 G	9894414.95	9894415.20	9894415.45	0.0143	0.0035
Earth	22377-11-20 17:02 G	9894414.97	9894415.21	9894415.46	0.0143	0.0040 *

Earth	22378-11-25 14:09 G	9894784.94	9894785.09	9894785.27	0.0143	0.0109
Moon	22378-11-25 14:24 G	9894784.95	9894785.10	9894785.27	0.0143	0.0110 *
Venus	22383-02-08 04:33 G	9896320.59	9896320.69	9896320.79	0.0144	0.0128
Venus	22383-09-22 16:04 G	9896547.01	9896547.17	9896547.36	0.0145	0.0085
Venus	22384-05-06 04:19 G	9896773.48	9896773.68	9896773.89	0.0145	0.0040
Venus	22384-12-18 16:19 G	9896999.97	9897000.18	9897000.40	0.0145	0.0005
Venus	22385-08-02 04:19 G	9897226.48	9897226.68	9897226.89	0.0145	0.0049
Venus	22386-03-16 16:04 G	9897453.02	9897453.17	9897453.35	0.0145	0.0094
Venus	22386-10-29 04:19 G	9897679.64	9897679.68	9897679.76	0.0145	0.0138
Mercury	22387-07-21 08:24 G	9897944.83	9897944.85	9897944.87	0.0145	0.0143
Mercury	22387-10-17 12:57 G	9898032.97	9898033.04	9898033.14	0.0145	0.0122
Mercury	22388-01-13 18:00 G	9898121.15	9898121.25	9898121.37	0.0145	0.0098
Mercury	22388-04-10 23:02 G	9898209.34	9898209.46	9898209.60	0.0145	0.0075
Mercury	22388-07-08 04:04 G	9898297.53	9898297.67	9898297.82	0.0145	0.0052
Mercury	22388-10-04 09:07 G	9898385.74	9898385.88	9898386.03	0.0145	0.0029
Mercury	22388-12-31 14:24 G	9898473.94	9898474.10	9898474.25	0.0145	0.0005
Mercury	22389-03-29 19:26 G	9898562.16	9898562.31	9898562.46	0.0145	0.0019
Mercury	22389-06-26 00:28 G	9898650.38	9898650.52	9898650.67	0.0145	0.0043
Mercury	22389-09-22 05:45 G	9898738.61	9898738.74	9898738.88	0.0145	0.0067
Mercury	22389-12-19 10:48 G	9898826.84	9898826.95	9898827.08	0.0145	0.0092
Mercury	22390-03-17 16:19 G	9898915.09	9898915.18	9898915.27	0.0145	0.0116
Mercury	22390-06-13 21:21 G	9899003.37	9899003.39	9899003.44	0.0145	0.0141
Mars	22397-07-23 21:50 G	9901600.23	9901600.41	9901600.63	0.0143	0.0117
Mars	22399-07-01 13:26 G	9902307.85	9902308.06	9902308.29	0.0143	0.0110
Earth	22415-05-10 06:14 G	9908099.66	9908099.76	9908099.86	0.0136	0.0125
Moon	22415-05-10 08:09 G	9908099.74	9908099.84	9908099.98	0.0136	0.0119 *
Moon	22416-05-13 15:21 G	9908468.93	9908469.14	9908469.38	0.0136	0.0071
Earth	22416-05-13 18:00 G	9908469.03	9908469.25	9908469.48	0.0136	0.0065 *
Earth	22417-05-18 05:16 G	9908838.46	9908838.72	9908838.97	0.0136	0.0006
Moon	22417-05-18 07:26 G	9908838.56	9908838.81	9908839.06	0.0136	0.0003 *

Moon	22418-05-22 14:09 G	9909207.86	9909208.09	9909208.34	0.0135	0.0053
Earth	22418-05-22 15:50 G	9909207.94	9909208.16	9909208.41	0.0135	0.0053 *
Earth	22419-05-27 02:09 G	9909577.46	9909577.59	9909577.75	0.0135	0.0110
Moon	22419-05-27 04:04 G	9909577.54	9909577.67	9909577.84	0.0135	0.0107 *
Venus	22424-01-07 00:28 G	9911263.45	9911263.52	9911263.62	0.0134	0.0123
Venus	22424-08-20 06:00 G	9911489.61	9911489.75	9911489.93	0.0134	0.0089
Venus	22425-04-03 12:00 G	9911715.81	9911716.00	9911716.21	0.0134	0.0054
Venus	22425-11-15 17:45 G	9911942.03	9911942.24	9911942.46	0.0134	0.0019
Venus	22426-06-29 23:16 G	9912168.26	9912168.47	9912168.69	0.0133	0.0016
Venus	22427-02-11 04:33 G	9912394.50	9912394.69	9912394.90	0.0133	0.0051
Venus	22427-09-25 09:50 G	9912620.76	9912620.91	9912621.09	0.0133	0.0085
Venus	22428-05-08 15:21 G	9912847.06	9912847.14	9912847.25	0.0133	0.0119
Mercury	22429-08-11 09:36 G	9913306.86	9913306.90	9913306.97	0.0133	0.0126
Mercury	22429-11-07 14:38 G	9913395.02	9913395.11	9913395.22	0.0133	0.0105
Mercury	22430-02-03 19:40 G	9913483.20	9913483.32	9913483.45	0.0133	0.0085
Mercury	22430-05-03 00:28 G	9913571.39	9913571.52	9913571.67	0.0133	0.0066
Mercury	22430-07-30 05:31 G	9913659.58	9913659.73	9913659.88	0.0133	0.0046
Mercury	22430-10-26 10:19 G	9913747.77	9913747.93	9913748.09	0.0133	0.0026
Mercury	22431-01-22 15:07 G	9913835.97	9913836.13	9913836.29	0.0133	0.0007
Mercury	22431-04-20 19:40 G	9913924.16	9913924.32	9913924.49	0.0133	0.0013
Mercury	22431-07-18 00:28 G	9914012.36	9914012.52	9914012.68	0.0133	0.0032
Mercury	22431-10-14 05:02 G	9914100.57	9914100.71	9914100.86	0.0133	0.0051
Mercury	22432-01-10 09:36 G	9914188.77	9914188.90	9914189.04	0.0133	0.0070
Mercury	22432-04-07 14:24 G	9914276.98	9914277.10	9914277.21	0.0133	0.0089
Mercury	22432-07-04 18:43 G	9914365.19	9914365.28	9914365.38	0.0133	0.0107
Mercury	22432-09-30 23:16 G	9914453.42	9914453.47	9914453.52	0.0133	0.0126
Mars	22441-10-18 03:07 G	9917757.36	9917757.63	9917757.91	0.0135	0.0027
Mars	22443-09-17 00:00 G	9918456.41	9918456.50	9918456.64	0.0136	0.0124
Moon	22459-11-12 07:55 G	9924356.62	9924356.83	9924357.04	0.0142	0.0087
Earth	22459-11-12 09:50 G	9924356.73	9924356.91	9924357.11	0.0142	0.0094 *

Earth	22460-11-16 06:14 G	9924726.51	9924726.76	9924727.01	0.0143	0.0026
Moon	22460-11-16 07:55 G	9924726.59	9924726.83	9924727.07	0.0143	0.0033 *
Moon	22461-11-21 01:40 G	9925096.33	9925096.57	9925096.82	0.0143	0.0048
Earth	22461-11-21 03:07 G	9925096.39	9925096.63	9925096.88	0.0143	0.0043 *
Earth	22462-11-26 00:14 G	9925466.37	9925466.51	9925466.68	0.0143	0.0112
Moon	22462-11-26 00:28 G	9925466.39	9925466.52	9925466.69	0.0143	0.0113 *
Venus	22467-05-22 22:48 G	9927105.31	9927105.45	9927105.61	0.0145	0.0104
Venus	22468-01-04 10:48 G	9927331.76	9927331.95	9927332.15	0.0145	0.0060
Venus	22468-08-17 22:48 G	9927558.24	9927558.45	9927558.67	0.0145	0.0015
Venus	22469-04-01 10:48 G	9927784.74	9927784.95	9927785.17	0.0145	0.0029
Venus	22469-11-13 22:48 G	9928011.27	9928011.45	9928011.65	0.0145	0.0074
Venus	22470-06-28 10:48 G	9928237.84	9928237.95	9928238.09	0.0145	0.0118
Mercury	22471-08-10 15:36 G	9928646.11	9928646.15	9928646.20	0.0145	0.0137
Mercury	22471-11-06 20:24 G	9928734.27	9928734.35	9928734.45	0.0145	0.0115
Mercury	22472-02-03 01:26 G	9928822.45	9928822.56	9928822.68	0.0145	0.0092
Mercury	22472-05-01 06:28 G	9928910.64	9928910.77	9928910.91	0.0145	0.0069
Mercury	22472-07-28 11:31 G	9928998.84	9928998.98	9928999.12	0.0145	0.0046
Mercury	22472-10-24 16:33 G	9929087.04	9929087.19	9929087.34	0.0145	0.0022
Mercury	22473-01-20 21:36 G	9929175.25	9929175.40	9929175.55	0.0145	0.0002
Mercury	22473-04-19 02:52 G	9929263.47	9929263.62	9929263.77	0.0145	0.0026
Mercury	22473-07-16 07:55 G	9929351.69	9929351.83	9929351.98	0.0145	0.0049
Mercury	22473-10-12 13:12 G	9929439.92	9929440.05	9929440.18	0.0145	0.0073
Mercury	22474-01-08 18:14 G	9929528.15	9929528.26	9929528.38	0.0145	0.0098
Mercury	22474-04-06 23:31 G	9929616.41	9929616.48	9929616.57	0.0145	0.0122
Mars	22482-03-20 14:52 G	9932520.79	9932521.12	9932521.46	0.0143	0.0029
Earth	22499-05-10 15:36 G	9938781.05	9938781.15	9938781.27	0.0136	0.0122
Moon	22499-05-10 18:28 G	9938781.22	9938781.27	9938781.36	0.0136	0.0130 *
Moon	22500-05-15 00:28 G	9939150.29	9939150.52	9939150.77	0.0136	0.0057
Earth	22500-05-15 03:21 G	9939150.42	9939150.64	9939150.88	0.0136	0.0063 *
Earth	22501-05-19 14:38 G	9939519.86	9939520.11	9939520.37	0.0136	0.0005

Moon	22501-05-19 17:16 G	9939519.97	9939520.22	9939520.47	0.0136	0.0007 *
Moon	22502-05-23 22:19 G	9939889.21	9939889.43	9939889.69	0.0135	0.0057
Earth	22502-05-24 01:12 G	9939889.33	9939889.55	9939889.80	0.0135	0.0055 *
Earth	22503-05-28 11:31 G	9940258.86	9940258.98	9940259.14	0.0135	0.0113
Moon	22503-05-28 13:26 G	9940258.96	9940259.06	9940259.20	0.0135	0.0117 *
Venus	22508-04-20 16:04 G	9942048.03	9942048.17	9942048.31	0.0134	0.0103
Venus	22508-12-02 21:21 G	9942274.22	9942274.39	9942274.59	0.0134	0.0069
Venus	22509-07-17 03:07 G	9942500.43	9942500.63	9942500.85	0.0134	0.0034
Venus	22510-02-28 08:52 G	9942726.65	9942726.87	9942727.09	0.0133	0.0002
Venus	22510-10-12 14:09 G	9942952.89	9942953.09	9942953.31	0.0133	0.0036
Venus	22511-05-26 19:26 G	9943179.14	9943179.31	9943179.51	0.0133	0.0070
Venus	22512-01-08 00:43 G	9943405.41	9943405.53	9943405.68	0.0133	0.0104
Mercury	22513-09-01 16:48 G	9944008.13	9944008.20	9944008.27	0.0133	0.0121
Mercury	22513-11-28 21:50 G	9944096.30	9944096.41	9944096.51	0.0133	0.0101
Mercury	22514-02-25 02:38 G	9944184.48	9944184.61	9944184.74	0.0133	0.0081
Mercury	22514-05-24 07:26 G	9944272.67	9944272.81	9944272.96	0.0133	0.0061
Mercury	22514-08-20 12:14 G	9944360.86	9944361.01	9944361.17	0.0133	0.0042
Mercury	22514-11-16 17:02 G	9944449.06	9944449.21	9944449.38	0.0133	0.0022
Mercury	22515-02-12 21:50 G	9944537.25	9944537.41	9944537.58	0.0133	0.0004
Mercury	22515-05-12 02:38 G	9944625.45	9944625.61	9944625.77	0.0133	0.0017
Mercury	22515-08-08 07:12 G	9944713.65	9944713.80	9944713.96	0.0133	0.0037
Mercury	22515-11-04 12:00 G	9944801.86	9944802.00	9944802.15	0.0133	0.0055
Mercury	22516-01-31 16:33 G	9944890.06	9944890.19	9944890.32	0.0133	0.0074
Mercury	22516-04-28 20:52 G	9944978.27	9944978.37	9944978.50	0.0133	0.0094
Mercury	22516-07-26 01:40 G	9945066.49	9945066.57	9945066.66	0.0133	0.0112
Mercury	22516-10-22 06:00 G	9945154.73	9945154.75	9945154.79	0.0133	0.0130
Mars	22524-07-14 07:55 G	9947976.70	9947976.83	9947976.96	0.0135	0.0118
Mars	22526-06-13 03:36 G	9948675.39	9948675.65	9948675.94	0.0135	0.0032
Moon	22543-11-13 15:50 G	9955038.00	9955038.16	9955038.37	0.0142	0.0099
Earth	22543-11-13 18:57 G	9955038.11	9955038.29	9955038.50	0.0142	0.0092 *

Earth	22544-11-17 15:50 G	9955407.91	9955408.16	9955408.41	0.0143	0.0023
Moon	22544-11-17 18:00 G	9955408.01	9955408.25	9955408.50	0.0143	0.0016 *
Moon	22545-11-22 11:02 G	9955777.72	9955777.96	9955778.22	0.0143	0.0040
Earth	22545-11-22 12:43 G	9955777.80	9955778.03	9955778.28	0.0143	0.0046 *
Earth	22546-11-27 10:04 G	9956147.79	9956147.92	9956148.09	0.0143	0.0115
Moon	22546-11-27 11:45 G	9956147.86	9956147.99	9956148.14	0.0143	0.0118 *
Venus	22551-01-21 05:02 G	9957663.61	9957663.71	9957663.84	0.0144	0.0123
Venus	22551-09-04 17:02 G	9957890.04	9957890.21	9957890.41	0.0145	0.0079
Venus	22552-04-18 05:02 G	9958116.51	9958116.71	9958116.93	0.0145	0.0035
Venus	22552-11-30 17:16 G	9958343.00	9958343.22	9958343.44	0.0145	0.0010
Venus	22553-07-15 05:02 G	9958569.52	9958569.71	9958569.92	0.0145	0.0054
Venus	22554-02-26 17:16 G	9958796.06	9958796.22	9958796.38	0.0145	0.0098
Venus	22554-10-11 05:31 G	9959022.69	9959022.73	9959022.77	0.0145	0.0142
Mercury	22555-08-31 23:02 G	9959347.41	9959347.46	9959347.53	0.0145	0.0131
Mercury	22555-11-28 04:04 G	9959435.57	9959435.67	9959435.77	0.0145	0.0109
Mercury	22556-02-24 08:38 G	9959523.75	9959523.86	9959523.99	0.0145	0.0086
Mercury	22556-05-22 13:55 G	9959611.94	9959612.08	9959612.21	0.0145	0.0063
Mercury	22556-08-18 18:57 G	9959700.14	9959700.29	9959700.43	0.0145	0.0039
Mercury	22556-11-15 00:00 G	9959788.35	9959788.50	9959788.65	0.0145	0.0016
Mercury	22557-02-11 05:02 G	9959876.56	9959876.71	9959876.86	0.0145	0.0008
Mercury	22557-05-10 10:04 G	9959964.77	9959964.92	9959965.07	0.0145	0.0032
Mercury	22557-08-06 15:07 G	9960053.00	9960053.13	9960053.28	0.0145	0.0056
Mercury	22557-11-02 20:24 G	9960141.23	9960141.35	9960141.48	0.0145	0.0080
Mercury	22558-01-30 01:40 G	9960229.47	9960229.57	9960229.68	0.0145	0.0104
Mercury	22558-04-28 06:43 G	9960317.73	9960317.78	9960317.86	0.0145	0.0129
Mars	22566-11-16 07:40 G	9963441.52	9963441.82	9963442.14	0.0143	0.0060
Earth	22583-05-12 01:40 G	9969462.45	9969462.57	9969462.69	0.0136	0.0120
Moon	22583-05-12 04:19 G	9969462.56	9969462.68	9969462.84	0.0136	0.0113 *
Moon	22584-05-15 09:50 G	9969831.69	9969831.91	9969832.14	0.0136	0.0067
Earth	22584-05-15 13:12 G	9969831.83	9969832.05	9969832.29	0.0136	0.0060 *

Earth	22585-05-20 00:14 G	9970201.26	9970201.51	9970201.77	0.0135	0.0003
Moon	22585-05-20 03:21 G	9970201.39	9970201.64	9970201.90	0.0135	0.0005 *
Moon	22586-05-24 08:09 G	9970570.61	9970570.84	9970571.08	0.0135	0.0057
Earth	22586-05-24 10:48 G	9970570.74	9970570.95	9970571.20	0.0135	0.0058 *
Earth	22587-05-28 20:52 G	9970940.27	9970940.37	9970940.53	0.0135	0.0116
Moon	22587-05-29 00:00 G	9970940.39	9970940.50	9970940.66	0.0135	0.0114 *
Venus	22591-12-20 01:12 G	9972606.45	9972606.55	9972606.65	0.0134	0.0118
Venus	22592-08-02 06:43 G	9972832.62	9972832.78	9972832.96	0.0134	0.0084
Venus	22593-03-16 12:43 G	9973058.82	9973059.03	9973059.23	0.0134	0.0049
Venus	22593-10-28 18:14 G	9973285.04	9973285.26	9973285.48	0.0133	0.0014
Venus	22594-06-11 23:31 G	9973511.27	9973511.48	9973511.70	0.0133	0.0020
Venus	22595-01-24 04:48 G	9973737.51	9973737.70	9973737.90	0.0133	0.0055
Venus	22595-09-07 10:04 G	9973963.77	9973963.92	9973964.09	0.0133	0.0089
Venus	22596-04-20 15:36 G	9974190.07	9974190.15	9974190.24	0.0133	0.0123
Mercury	22597-09-21 23:31 G	9974709.40	9974709.48	9974709.56	0.0133	0.0117
Mercury	22597-12-19 04:33 G	9974797.58	9974797.69	9974797.80	0.0133	0.0097
Mercury	22598-03-17 09:07 G	9974885.76	9974885.88	9974886.03	0.0133	0.0077
Mercury	22598-06-13 14:09 G	9974973.95	9974974.09	9974974.24	0.0133	0.0057
Mercury	22598-09-09 19:12 G	9975062.14	9975062.30	9975062.45	0.0133	0.0037
Mercury	22598-12-07 00:00 G	9975150.34	9975150.50	9975150.66	0.0133	0.0018
Mercury	22599-03-05 04:48 G	9975238.53	9975238.70	9975238.86	0.0133	0.0004
Mercury	22599-06-01 09:21 G	9975326.73	9975326.89	9975327.05	0.0133	0.0021
Mercury	22599-08-28 14:09 G	9975414.94	9975415.09	9975415.24	0.0133	0.0040
Mercury	22599-11-24 18:43 G	9975503.14	9975503.28	9975503.43	0.0133	0.0059
Mercury	22600-02-20 23:16 G	9975591.35	9975591.47	9975591.60	0.0133	0.0078
Mercury	22600-05-20 03:36 G	9975679.56	9975679.65	9975679.77	0.0133	0.0098
Mercury	22600-08-16 08:24 G	9975767.78	9975767.85	9975767.93	0.0133	0.0115
Mars	22609-03-09 06:00 G	9978894.50	9978894.75	9978895.00	0.0135	0.0061
Mars	22611-02-06 02:52 G	9979593.42	9979593.62	9979593.84	0.0135	0.0090
Moon	22627-11-15 00:14 G	9985719.32	9985719.51	9985719.74	0.0142	0.0084

Earth	22627-11-15 03:21 G	9985719.46	9985719.64	9985719.85	0.0142	0.0090 *
Earth	22628-11-19 00:28 G	9986089.27	9986089.52	9986089.77	0.0143	0.0021
Moon	22628-11-19 03:07 G	9986089.39	9986089.63	9986089.88	0.0143	0.0029 *
Moon	22629-11-23 18:57 G	9986459.05	9986459.29	9986459.53	0.0143	0.0054
Earth	22629-11-23 21:21 G	9986459.16	9986459.39	9986459.64	0.0143	0.0048 *
Earth	22630-11-28 19:12 G	9986829.17	9986829.30	9986829.45	0.0143	0.0118
Moon	22630-11-28 21:07 G	9986829.24	9986829.38	9986829.52	0.0143	0.0116 *
Venus	22634-09-21 11:16 G	9988221.94	9988221.97	9988222.01	0.0144	0.0142
Venus	22635-05-05 22:48 G	9988448.31	9988448.45	9988448.63	0.0145	0.0099
Venus	22635-12-18 10:48 G	9988674.76	9988674.95	9988675.16	0.0145	0.0055
Venus	22636-07-31 23:02 G	9988901.24	9988901.46	9988901.68	0.0145	0.0011
Venus	22637-03-15 10:48 G	9989127.75	9989127.95	9989128.17	0.0145	0.0034
Venus	22637-10-27 23:02 G	9989354.28	9989354.46	9989354.65	0.0145	0.0078
Venus	22638-06-11 11:02 G	9989580.86	9989580.96	9989581.09	0.0145	0.0122
Mercury	22639-09-22 06:14 G	9990048.70	9990048.76	9990048.84	0.0145	0.0126
Mercury	22639-12-19 11:02 G	9990136.87	9990136.96	9990137.07	0.0145	0.0103
Mercury	22640-03-16 16:04 G	9990225.05	9990225.17	9990225.30	0.0145	0.0080
Mercury	22640-06-12 21:07 G	9990313.24	9990313.38	9990313.52	0.0145	0.0057
Mercury	22640-09-09 02:09 G	9990401.44	9990401.59	9990401.74	0.0145	0.0034
Mercury	22640-12-06 07:12 G	9990489.65	9990489.80	9990489.95	0.0145	0.0010
Mercury	22641-03-04 12:14 G	9990577.86	9990578.01	9990578.16	0.0145	0.0014
Mercury	22641-05-31 17:16 G	9990666.08	9990666.22	9990666.37	0.0145	0.0038
Mercury	22641-08-27 22:19 G	9990754.30	9990754.43	9990754.58	0.0145	0.0062
Mercury	22641-11-24 03:36 G	9990842.53	9990842.65	9990842.78	0.0145	0.0086
Mercury	22642-02-20 08:52 G	9990930.78	9990930.87	9990930.98	0.0145	0.0111
Mercury	22642-05-19 14:09 G	9991019.04	9991019.09	9991019.15	0.0145	0.0135
Mars	22649-08-06 09:50 G	9993654.64	9993654.91	9993655.21	0.0144	0.0081
Earth	22667-05-13 11:16 G	10000143.87	10000143.97	10000144.13	0.0136	0.0118
Moon	22667-05-13 15:21 G	10000144.05	10000144.14	10000144.25	0.0136	0.0125 *
Moon	22668-05-16 19:40 G	10000513.10	10000513.32	10000513.57	0.0136	0.0051

Earth	22668-05-16 23:02 G	10000513.25	10000513.46	10000513.71	0.0136	0.0058	*
Earth	22669-05-21 10:33 G	10000882.68	10000882.94	10000883.20	0.0135	0.0002	
Moon	22669-05-21 13:55 G	10000882.83	10000883.08	10000883.33	0.0135	0.0002	*
Moon	22670-05-25 17:45 G	10001252.02	10001252.24	10001252.47	0.0135	0.0063	
Earth	22670-05-25 21:21 G	10001252.16	10001252.39	10001252.62	0.0135	0.0061	*
Earth	22671-05-30 06:57 G	10001621.70	10001621.79	10001621.94	0.0135	0.0119	
Moon	22671-05-30 10:19 G	10001621.83	10001621.93	10001622.05	0.0135	0.0121	*
Venus	22675-08-20 10:33 G	10003164.93	10003164.94	10003164.98	0.0134	0.0133	
Venus	22676-04-02 16:33 G	10003391.05	10003391.19	10003391.35	0.0134	0.0098	
Venus	22676-11-14 22:04 G	10003617.24	10003617.42	10003617.62	0.0134	0.0064	
Venus	22677-06-29 03:36 G	10003843.45	10003843.65	10003843.87	0.0133	0.0030	
Venus	22678-02-10 09:07 G	10004069.67	10004069.88	10004070.10	0.0133	0.0006	
Venus	22678-09-24 14:38 G	10004295.90	10004296.11	10004296.32	0.0133	0.0040	
Venus	22679-05-08 19:40 G	10004522.15	10004522.32	10004522.52	0.0133	0.0074	
Venus	22679-12-21 01:12 G	10004748.43	10004748.55	10004748.68	0.0133	0.0108	
Mercury	22681-07-17 01:12 G	10005322.54	10005322.55	10005322.58	0.0133	0.0132	
Mercury	22681-10-13 06:14 G	10005410.68	10005410.76	10005410.86	0.0133	0.0112	
Mercury	22682-01-09 11:16 G	10005498.86	10005498.97	10005499.09	0.0133	0.0092	
Mercury	22682-04-07 16:04 G	10005587.04	10005587.17	10005587.32	0.0133	0.0072	
Mercury	22682-07-04 21:07 G	10005675.23	10005675.38	10005675.53	0.0133	0.0052	
Mercury	22682-10-01 02:09 G	10005763.43	10005763.59	10005763.74	0.0133	0.0033	
Mercury	22682-12-28 06:57 G	10005851.63	10005851.79	10005851.95	0.0133	0.0013	
Mercury	22683-03-26 11:45 G	10005939.82	10005939.99	10005940.15	0.0133	0.0007	
Mercury	22683-06-22 16:19 G	10006028.02	10006028.18	10006028.34	0.0133	0.0026	
Mercury	22683-09-18 20:52 G	10006116.23	10006116.37	10006116.53	0.0133	0.0045	
Mercury	22683-12-16 01:40 G	10006204.43	10006204.57	10006204.71	0.0133	0.0064	
Mercury	22684-03-13 06:14 G	10006292.64	10006292.76	10006292.89	0.0133	0.0083	
Mercury	22684-06-09 10:48 G	10006380.86	10006380.95	10006381.06	0.0133	0.0102	
Mercury	22684-09-05 15:21 G	10006469.08	10006469.14	10006469.21	0.0133	0.0120	
Mars	22693-11-01 05:45 G	10009812.47	10009812.74	10009813.02	0.0135	0.0004	

Moon	22711-11-16 07:55 G	10016400.65	10016400.83	10016401.03	0.0142	0.0094
Earth	22711-11-16 11:31 G	10016400.79	10016400.98	10016401.19	0.0142	0.0088 *
Earth	22712-11-20 08:09 G	10016770.60	10016770.84	10016771.10	0.0143	0.0020
Moon	22712-11-20 11:31 G	10016770.73	10016770.98	10016771.23	0.0143	0.0012 *
Moon	22713-11-25 02:38 G	10017140.37	10017140.61	10017140.87	0.0143	0.0044
Earth	22713-11-25 05:31 G	10017140.50	10017140.73	10017140.98	0.0143	0.0050 *
Earth	22714-11-30 03:07 G	10017510.51	10017510.63	10017510.78	0.0143	0.0120
Moon	22714-11-30 06:14 G	10017510.64	10017510.76	10017510.88	0.0143	0.0124 *
Venus	22719-01-04 04:04 G	10019006.55	10019006.67	10019006.80	0.0145	0.0119
Venus	22719-08-18 15:36 G	10019232.98	10019233.15	10019233.35	0.0145	0.0076
Venus	22720-04-01 03:50 G	10019459.45	10019459.66	10019459.88	0.0145	0.0032
Venus	22720-11-13 15:50 G	10019685.95	10019686.16	10019686.38	0.0145	0.0013
Venus	22721-06-28 03:50 G	10019912.47	10019912.66	10019912.87	0.0145	0.0057
Venus	22722-02-09 15:50 G	10020139.02	10020139.16	10020139.33	0.0145	0.0101
Venus	22722-09-24 04:19 G	10020365.68	10020365.68	10020365.68	0.0145	0.0145
Mercury	22723-07-17 08:09 G	10020661.84	10020661.84	10020661.87	0.0145	0.0145
Mercury	22723-10-13 13:12 G	10020749.97	10020750.05	10020750.13	0.0145	0.0122
Mercury	22724-01-09 18:00 G	10020838.15	10020838.25	10020838.37	0.0145	0.0099
Mercury	22724-04-06 22:48 G	10020926.33	10020926.45	10020926.59	0.0145	0.0077
Mercury	22724-07-04 04:04 G	10021014.53	10021014.67	10021014.81	0.0145	0.0053
Mercury	22724-09-30 08:52 G	10021102.73	10021102.87	10021103.02	0.0145	0.0030
Mercury	22724-12-27 14:09 G	10021190.93	10021191.09	10021191.24	0.0145	0.0006
Mercury	22725-03-25 19:12 G	10021279.15	10021279.30	10021279.45	0.0145	0.0018
Mercury	22725-06-22 00:14 G	10021367.37	10021367.51	10021367.66	0.0145	0.0042
Mercury	22725-09-18 05:31 G	10021455.59	10021455.73	10021455.86	0.0145	0.0066
Mercury	22725-12-15 10:33 G	10021543.83	10021543.94	10021544.07	0.0145	0.0091
Mercury	22726-03-13 15:50 G	10021632.07	10021632.16	10021632.26	0.0145	0.0115
Mercury	22726-06-09 21:07 G	10021720.35	10021720.38	10021720.43	0.0145	0.0140
Mars	22734-04-04 00:57 G	10024575.20	10024575.54	10024575.89	0.0143	0.0008
Earth	22751-05-14 21:21 G	10030825.28	10030825.39	10030825.56	0.0136	0.0115

Moon	22751-05-15 00:57 G	10030825.41	10030825.54	10030825.72	0.0136	0.0107	*
Moon	22752-05-18 06:00 G	10031194.52	10031194.75	10031194.97	0.0136	0.0061	
Earth	22752-05-18 09:36 G	10031194.67	10031194.90	10031195.14	0.0136	0.0054	*
Earth	22753-05-22 20:38 G	10031564.11	10031564.36	10031564.62	0.0135	0.0005	
Moon	22753-05-23 00:14 G	10031564.26	10031564.51	10031564.76	0.0135	0.0011	*
Moon	22754-05-27 03:50 G	10031933.44	10031933.66	10031933.90	0.0135	0.0062	
Earth	22754-05-27 07:12 G	10031933.59	10031933.80	10031934.04	0.0135	0.0064	*
Earth	22755-05-31 17:31 G	10032303.13	10032303.23	10032303.35	0.0135	0.0122	
Moon	22755-05-31 20:52 G	10032303.29	10032303.37	10032303.50	0.0135	0.0122	*
Venus	22759-12-03 02:09 G	10033949.48	10033949.59	10033949.71	0.0134	0.0113	
Venus	22760-07-16 07:40 G	10034175.65	10034175.82	10034176.00	0.0134	0.0079	
Venus	22761-02-27 13:12 G	10034401.85	10034402.05	10034402.26	0.0133	0.0044	
Venus	22761-10-11 18:43 G	10034628.07	10034628.28	10034628.50	0.0133	0.0010	
Venus	22762-05-26 00:14 G	10034854.30	10034854.51	10034854.72	0.0133	0.0025	
Venus	22763-01-07 05:31 G	10035080.53	10035080.73	10035080.93	0.0133	0.0059	
Venus	22763-08-21 10:33 G	10035306.79	10035306.94	10035307.10	0.0133	0.0093	
Venus	22764-04-03 15:50 G	10035533.10	10035533.16	10035533.23	0.0133	0.0126	
Mercury	22765-08-07 08:24 G	10036023.80	10036023.85	10036023.89	0.0133	0.0127	
Mercury	22765-11-03 13:12 G	10036111.96	10036112.05	10036112.15	0.0133	0.0107	
Mercury	22766-01-30 18:14 G	10036200.14	10036200.26	10036200.39	0.0133	0.0087	
Mercury	22766-04-28 23:16 G	10036288.33	10036288.47	10036288.61	0.0133	0.0067	
Mercury	22766-07-26 03:50 G	10036376.52	10036376.66	10036376.82	0.0133	0.0048	
Mercury	22766-10-22 08:52 G	10036464.71	10036464.87	10036465.03	0.0133	0.0028	
Mercury	22767-01-18 13:40 G	10036552.91	10036553.07	10036553.24	0.0133	0.0009	
Mercury	22767-04-16 18:28 G	10036641.11	10036641.27	10036641.43	0.0133	0.0011	
Mercury	22767-07-13 23:16 G	10036729.31	10036729.47	10036729.63	0.0133	0.0030	
Mercury	22767-10-10 03:50 G	10036817.52	10036817.66	10036817.81	0.0133	0.0050	
Mercury	22768-01-06 08:38 G	10036905.72	10036905.86	10036906.00	0.0133	0.0068	
Mercury	22768-04-03 13:12 G	10036993.93	10036994.05	10036994.17	0.0133	0.0087	
Mercury	22768-06-30 17:31 G	10037082.15	10037082.23	10037082.34	0.0133	0.0106	

Mercury	22768-09-26 22:19 G	10037170.38	10037170.43	10037170.49	0.0133	0.0124
Mars	22776-07-28 09:07 G	10040031.71	10040031.88	10040032.10	0.0134	0.0097
Mars	22778-06-27 06:43 G	10040730.52	10040730.78	10040731.03	0.0135	0.0054
Moon	22795-11-16 15:21 G	10047081.95	10047082.14	10047082.36	0.0142	0.0081
Earth	22795-11-16 18:43 G	10047082.10	10047082.28	10047082.50	0.0142	0.0087 *
Earth	22796-11-20 15:50 G	10047451.91	10047452.16	10047452.42	0.0143	0.0018
Moon	22796-11-20 19:26 G	10047452.07	10047452.31	10047452.56	0.0143	0.0025 *
Moon	22797-11-25 09:50 G	10047821.68	10047821.91	10047822.15	0.0143	0.0059
Earth	22797-11-25 13:12 G	10047821.82	10047822.05	10047822.29	0.0143	0.0052 *
Earth	22798-11-30 11:02 G	10048191.84	10048191.96	10048192.10	0.0143	0.0122
Moon	22798-11-30 13:40 G	10048191.95	10048192.07	10048192.22	0.0143	0.0119 *
Venus	22802-09-03 08:38 G	10049564.82	10049564.86	10049564.93	0.0145	0.0140
Venus	22803-04-17 20:24 G	10049791.21	10049791.35	10049791.53	0.0145	0.0097
Venus	22803-11-30 08:38 G	10050017.66	10050017.86	10050018.07	0.0145	0.0053
Venus	22804-07-13 20:38 G	10050244.14	10050244.36	10050244.58	0.0145	0.0009
Venus	22805-02-25 08:38 G	10050470.65	10050470.86	10050471.07	0.0145	0.0035
Venus	22805-10-09 20:52 G	10050697.19	10050697.37	10050697.55	0.0145	0.0080
Venus	22806-05-24 09:07 G	10050923.77	10050923.88	10050923.99	0.0145	0.0124
Mercury	22807-08-06 15:07 G	10051363.10	10051363.13	10051363.18	0.0145	0.0140
Mercury	22807-11-02 20:09 G	10051451.25	10051451.34	10051451.43	0.0145	0.0117
Mercury	22808-01-30 00:57 G	10051539.43	10051539.54	10051539.66	0.0145	0.0095
Mercury	22808-04-27 06:00 G	10051627.62	10051627.75	10051627.88	0.0145	0.0071
Mercury	22808-07-24 10:48 G	10051715.81	10051715.95	10051716.10	0.0145	0.0048
Mercury	22808-10-20 15:50 G	10051804.01	10051804.16	10051804.31	0.0145	0.0025
Mercury	22809-01-16 20:52 G	10051892.22	10051892.37	10051892.53	0.0145	0.0004
Mercury	22809-04-15 01:55 G	10051980.44	10051980.58	10051980.74	0.0145	0.0024
Mercury	22809-07-12 07:12 G	10052068.66	10052068.80	10052068.95	0.0145	0.0047
Mercury	22809-10-08 12:14 G	10052156.88	10052157.01	10052157.15	0.0145	0.0071
Mercury	22810-01-04 17:31 G	10052245.12	10052245.23	10052245.35	0.0145	0.0095
Mercury	22810-04-02 22:33 G	10052333.37	10052333.44	10052333.54	0.0145	0.0121

Mercury	22810-06-30 04:19 G	10052421.67	10052421.68	10052421.69	0.0145	0.0145
Mars	22816-12-21 21:36 G	10054788.34	10054788.40	10054788.53	0.0144	0.0138
Mars	22818-11-29 13:26 G	10055495.83	10055496.06	10055496.33	0.0143	0.0097
Earth	22835-05-15 08:09 G	10061506.70	10061506.84	10061506.99	0.0136	0.0111
Moon	22835-05-15 11:31 G	10061506.87	10061506.98	10061507.12	0.0136	0.0118 *
Moon	22836-05-18 16:19 G	10061875.94	10061876.18	10061876.42	0.0136	0.0044
Earth	22836-05-18 19:40 G	10061876.09	10061876.32	10061876.56	0.0136	0.0051 *
Earth	22837-05-23 06:57 G	10062245.54	10062245.79	10062246.05	0.0135	0.0009
Moon	22837-05-23 10:48 G	10062245.69	10062245.95	10062246.20	0.0135	0.0004 *
Moon	22838-05-27 14:09 G	10062614.88	10062615.09	10062615.31	0.0135	0.0071
Earth	22838-05-27 17:45 G	10062615.03	10062615.24	10062615.47	0.0135	0.0067 *
Earth	22839-06-01 04:04 G	10062984.58	10062984.67	10062984.76	0.0135	0.0125
Moon	22839-06-01 06:57 G	10062984.73	10062984.79	10062984.90	0.0135	0.0127 *
Venus	22843-08-02 12:00 G	10064507.94	10064508.00	10064508.07	0.0134	0.0127
Venus	22844-03-15 17:45 G	10064734.09	10064734.24	10064734.40	0.0134	0.0093
Venus	22844-10-27 23:16 G	10064960.28	10064960.47	10064960.67	0.0134	0.0059
Venus	22845-06-11 04:48 G	10065186.49	10065186.70	10065186.92	0.0133	0.0024
Venus	22846-01-23 10:04 G	10065412.71	10065412.92	10065413.14	0.0133	0.0010
Venus	22846-09-06 15:21 G	10065638.94	10065639.14	10065639.35	0.0133	0.0044
Venus	22847-04-20 20:38 G	10065865.20	10065865.36	10065865.55	0.0133	0.0078
Venus	22847-12-03 01:40 G	10066091.47	10066091.57	10066091.71	0.0133	0.0112
Mercury	22849-08-27 15:21 G	10066725.08	10066725.14	10066725.21	0.0133	0.0122
Mercury	22849-11-23 20:09 G	10066813.25	10066813.34	10066813.46	0.0133	0.0102
Mercury	22850-02-20 01:12 G	10066901.43	10066901.55	10066901.69	0.0133	0.0082
Mercury	22850-05-19 06:14 G	10066989.62	10066989.76	10066989.91	0.0133	0.0062
Mercury	22850-08-15 11:16 G	10067077.82	10067077.97	10067078.12	0.0133	0.0042
Mercury	22850-11-11 16:04 G	10067166.01	10067166.17	10067166.33	0.0133	0.0023
Mercury	22851-02-07 20:52 G	10067254.21	10067254.37	10067254.53	0.0133	0.0003
Mercury	22851-05-07 01:40 G	10067342.41	10067342.57	10067342.73	0.0133	0.0016
Mercury	22851-08-03 06:14 G	10067430.61	10067430.76	10067430.92	0.0133	0.0036

Mercury	22851-10-30 11:02 G	10067518.82	10067518.96	10067519.11	0.0133	0.0055
Mercury	22852-01-26 15:36 G	10067607.03	10067607.15	10067607.29	0.0133	0.0074
Mercury	22852-04-23 20:09 G	10067695.24	10067695.34	10067695.46	0.0133	0.0093
Mercury	22852-07-21 00:57 G	10067783.46	10067783.54	10067783.63	0.0133	0.0111
Mercury	22852-10-17 05:16 G	10067871.70	10067871.72	10067871.76	0.0133	0.0130
Mars	22861-03-22 12:00 G	10070949.73	10070950.00	10070950.27	0.0135	0.0038
Mars	22863-02-19 08:38 G	10071648.72	10071648.86	10071649.01	0.0135	0.0115
Moon	22879-11-17 00:28 G	10077763.34	10077763.52	10077763.73	0.0142	0.0089
Earth	22879-11-17 04:19 G	10077763.49	10077763.68	10077763.89	0.0142	0.0084 *
Earth	22880-11-21 01:12 G	10078133.30	10078133.55	10078133.80	0.0143	0.0015
Moon	22880-11-21 04:48 G	10078133.44	10078133.70	10078133.95	0.0143	0.0008 *
Moon	22881-11-25 18:57 G	10078503.05	10078503.29	10078503.54	0.0143	0.0047
Earth	22881-11-25 22:19 G	10078503.21	10078503.43	10078503.68	0.0143	0.0055 *
Earth	22882-11-30 20:09 G	10078873.23	10078873.34	10078873.47	0.0143	0.0125
Moon	22882-11-30 23:31 G	10078873.39	10078873.48	10078873.60	0.0143	0.0130 *
Venus	22886-12-16 01:55 G	10080349.47	10080349.58	10080349.72	0.0145	0.0117
Venus	22887-07-30 13:55 G	10080575.90	10080576.08	10080576.27	0.0145	0.0073
Venus	22888-03-13 01:40 G	10080802.37	10080802.57	10080802.79	0.0145	0.0030
Venus	22888-10-25 13:55 G	10081028.87	10081029.08	10081029.30	0.0145	0.0015
Venus	22889-06-09 01:55 G	10081255.39	10081255.58	10081255.78	0.0145	0.0059
Venus	22890-01-21 13:40 G	10081481.94	10081482.07	10081482.24	0.0145	0.0104
Mercury	22891-08-26 22:04 G	10082064.38	10082064.42	10082064.48	0.0145	0.0136
Mercury	22891-11-23 03:07 G	10082152.54	10082152.63	10082152.73	0.0145	0.0113
Mercury	22892-02-19 07:55 G	10082240.72	10082240.83	10082240.95	0.0145	0.0090
Mercury	22892-05-17 12:57 G	10082328.91	10082329.04	10082329.17	0.0145	0.0067
Mercury	22892-08-13 18:00 G	10082417.10	10082417.25	10082417.39	0.0145	0.0043
Mercury	22892-11-09 23:02 G	10082505.31	10082505.46	10082505.61	0.0145	0.0020
Mercury	22893-02-06 04:04 G	10082593.52	10082593.67	10082593.82	0.0145	0.0004
Mercury	22893-05-05 09:07 G	10082681.73	10082681.88	10082682.03	0.0145	0.0028
Mercury	22893-08-01 14:09 G	10082769.95	10082770.09	10082770.24	0.0145	0.0052

Mercury	22893-10-28 19:26 G	10082858.18	10082858.31	10082858.44	0.0145	0.0076
Mercury	22894-01-25 00:43 G	10082946.42	10082946.53	10082946.64	0.0145	0.0101
Mercury	22894-04-23 05:45 G	10083034.67	10083034.74	10083034.83	0.0145	0.0125
Mars	22901-08-19 11:45 G	10085708.68	10085708.99	10085709.32	0.0144	0.0049
Earth	22919-05-16 17:45 G	10092188.11	10092188.24	10092188.41	0.0136	0.0108
Moon	22919-05-16 21:07 G	10092188.23	10092188.38	10092188.57	0.0136	0.0102 *
Moon	22920-05-20 02:24 G	10092557.37	10092557.60	10092557.83	0.0136	0.0055
Earth	22920-05-20 05:45 G	10092557.52	10092557.74	10092557.99	0.0136	0.0048 *
Earth	22921-05-24 17:16 G	10092926.97	10092927.22	10092927.48	0.0135	0.0012
Moon	22921-05-24 20:38 G	10092927.11	10092927.36	10092927.62	0.0135	0.0018 *
Moon	22922-05-29 00:14 G	10093296.31	10093296.51	10093296.74	0.0135	0.0068
Earth	22922-05-29 03:50 G	10093296.46	10093296.66	10093296.89	0.0135	0.0071 *
Earth	22923-06-02 14:09 G	10093666.03	10093666.09	10093666.18	0.0135	0.0129
Moon	22923-06-02 17:45 G	10093666.20	10093666.24	10093666.33	0.0135	0.0130
Venus	22927-11-15 03:21 G	10095292.52	10095292.64	10095292.78	0.0134	0.0108
Venus	22928-06-28 08:52 G	10095518.70	10095518.87	10095519.06	0.0134	0.0074
Venus	22929-02-09 14:24 G	10095744.90	10095745.10	10095745.31	0.0134	0.0039
Venus	22929-09-23 19:55 G	10095971.11	10095971.33	10095971.55	0.0133	0.0005
Venus	22930-05-08 01:12 G	10096197.35	10096197.55	10096197.77	0.0133	0.0030
Venus	22930-12-20 06:28 G	10096423.59	10096423.77	10096423.97	0.0133	0.0063
Venus	22931-08-03 11:31 G	10096649.85	10096649.98	10096650.15	0.0133	0.0097
Venus	22932-03-16 17:02 G	10096876.18	10096876.21	10096876.26	0.0133	0.0131
Mercury	22933-09-17 22:19 G	10097426.36	10097426.43	10097426.52	0.0133	0.0117
Mercury	22933-12-15 03:21 G	10097514.54	10097514.64	10097514.76	0.0133	0.0097
Mercury	22934-03-13 08:24 G	10097602.72	10097602.85	10097602.99	0.0133	0.0077
Mercury	22934-06-09 13:12 G	10097690.91	10097691.05	10097691.21	0.0133	0.0058
Mercury	22934-09-05 18:14 G	10097779.11	10097779.26	10097779.42	0.0133	0.0037
Mercury	22934-12-02 23:16 G	10097867.31	10097867.47	10097867.63	0.0133	0.0017
Mercury	22935-03-01 04:04 G	10097955.51	10097955.67	10097955.83	0.0133	0.0003
Mercury	22935-05-28 08:38 G	10098043.71	10098043.86	10098044.03	0.0133	0.0022

Mercury	22935-08-24 13:26 G	10098131.91	10098132.06	10098132.22	0.0133	0.0041
Mercury	22935-11-20 18:00 G	10098220.12	10098220.25	10098220.40	0.0133	0.0060
Mercury	22936-02-16 22:48 G	10098308.33	10098308.45	10098308.58	0.0133	0.0079
Mercury	22936-05-15 03:21 G	10098396.54	10098396.64	10098396.75	0.0133	0.0098
Mercury	22936-08-11 07:55 G	10098484.76	10098484.83	10098484.91	0.0133	0.0117
Mars	22943-12-17 16:33 G	10101169.15	10101169.19	10101169.28	0.0134	0.0130
Mars	22945-11-15 13:12 G	10101867.78	10101868.05	10101868.33	0.0135	0.0022
Moon	22963-11-18 11:31 G	10108444.78	10108444.98	10108445.20	0.0142	0.0076
Earth	22963-11-18 14:38 G	10108444.91	10108445.11	10108445.33	0.0142	0.0080 *
Earth	22964-11-22 11:31 G	10108814.73	10108814.98	10108815.24	0.0143	0.0012
Moon	22964-11-22 15:21 G	10108814.89	10108815.14	10108815.39	0.0143	0.0019 *
Moon	22965-11-27 05:02 G	10109184.50	10109184.71	10109184.95	0.0143	0.0066
Earth	22965-11-27 08:52 G	10109184.64	10109184.87	10109185.10	0.0143	0.0058 *
Earth	22966-12-02 06:14 G	10109554.67	10109554.76	10109554.89	0.0143	0.0129
Moon	22966-12-02 09:50 G	10109554.80	10109554.91	10109555.05	0.0143	0.0124 *
Venus	22970-08-16 08:24 G	10110907.78	10110907.85	10110907.93	0.0145	0.0136
Venus	22971-03-30 20:09 G	10111134.18	10111134.34	10111134.51	0.0145	0.0093
Venus	22971-11-12 08:09 G	10111360.64	10111360.84	10111361.05	0.0145	0.0049
Venus	22972-06-25 20:09 G	10111587.12	10111587.34	10111587.56	0.0145	0.0005
Venus	22973-02-07 07:55 G	10111813.63	10111813.83	10111814.05	0.0145	0.0039
Venus	22973-09-21 20:09 G	10112040.17	10112040.34	10112040.53	0.0145	0.0083
Venus	22974-05-06 08:09 G	10112266.76	10112266.84	10112266.96	0.0145	0.0128
Mercury	22975-09-17 05:31 G	10112765.67	10112765.73	10112765.80	0.0145	0.0129
Mercury	22975-12-14 10:33 G	10112853.84	10112853.94	10112854.04	0.0145	0.0106
Mercury	22976-03-11 15:21 G	10112942.02	10112942.14	10112942.27	0.0145	0.0084
Mercury	22976-06-07 20:24 G	10113030.21	10113030.35	10113030.49	0.0145	0.0060
Mercury	22976-09-04 01:12 G	10113118.41	10113118.55	10113118.70	0.0145	0.0037
Mercury	22976-12-01 06:14 G	10113206.62	10113206.76	10113206.92	0.0145	0.0014
Mercury	22977-02-27 11:31 G	10113294.83	10113294.98	10113295.13	0.0145	0.0011
Mercury	22977-05-26 16:33 G	10113383.04	10113383.19	10113383.34	0.0145	0.0034

Mercury	22977-08-22 21:36 G	10113471.26	10113471.40	10113471.54	0.0145	0.0059
Mercury	22977-11-19 02:52 G	10113559.50	10113559.62	10113559.75	0.0145	0.0083
Mercury	22978-02-15 07:55 G	10113647.74	10113647.83	10113647.94	0.0145	0.0107
Mercury	22978-05-14 13:12 G	10113736.00	10113736.05	10113736.12	0.0145	0.0132
Mars	22986-04-16 05:02 G	10116629.39	10116629.71	10116630.05	0.0144	0.0043

24TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 24th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	23003-05-18 05:16 G		10122869.56	10122869.72	10122869.89	0.0136	0.0105	
Moon	23003-05-18 08:24 G		10122869.71	10122869.85	10122870.01	0.0136	0.0111	*
Moon	23004-05-21 14:09 G		10123238.86	10123239.09	10123239.34	0.0136	0.0038	
Earth	23004-05-21 17:02 G		10123238.98	10123239.21	10123239.46	0.0136	0.0045	*
Earth	23005-05-26 04:33 G		10123608.44	10123608.69	10123608.94	0.0135	0.0015	
Moon	23005-05-26 08:09 G		10123608.58	10123608.84	10123609.09	0.0135	0.0010	*
Moon	23006-05-30 12:00 G		10123977.81	10123978.00	10123978.21	0.0135	0.0079	
Earth	23006-05-30 15:21 G		10123977.93	10123978.14	10123978.36	0.0135	0.0074	*
Earth	23007-06-04 01:12 G		10124347.53	10124347.55	10124347.61	0.0135	0.0133	
Moon	23007-06-04 04:33 G		10124347.67	10124347.69	10124347.76	0.0135	0.0133	
Venus	23011-07-16 13:26 G		10125850.99	10125851.06	10125851.16	0.0134	0.0122	
Venus	23012-02-27 18:57 G		10126077.14	10126077.29	10126077.47	0.0134	0.0088	
Venus	23012-10-11 00:43 G		10126303.34	10126303.53	10126303.74	0.0134	0.0054	
Venus	23013-05-25 06:14 G		10126529.55	10126529.76	10126529.98	0.0134	0.0019	

Venus	23014-01-06 11:31 G	10126755.77	10126755.98	10126756.21	0.0133	0.0016
Venus	23014-08-20 16:48 G	10126982.01	10126982.20	10126982.41	0.0133	0.0049
Venus	23015-04-03 22:04 G	10127208.27	10127208.42	10127208.61	0.0133	0.0083
Venus	23015-11-16 03:36 G	10127434.55	10127434.65	10127434.76	0.0133	0.0117
Mercury	23017-07-13 00:43 G	10128039.51	10128039.53	10128039.56	0.0133	0.0131
Mercury	23017-10-09 05:31 G	10128127.66	10128127.73	10128127.84	0.0133	0.0111
Mercury	23018-01-05 10:33 G	10128215.83	10128215.94	10128216.07	0.0133	0.0091
Mercury	23018-04-03 15:36 G	10128304.02	10128304.15	10128304.30	0.0133	0.0071
Mercury	23018-06-30 20:38 G	10128392.22	10128392.36	10128392.52	0.0133	0.0051
Mercury	23018-09-27 01:40 G	10128480.41	10128480.57	10128480.73	0.0133	0.0031
Mercury	23018-12-24 06:28 G	10128568.61	10128568.77	10128568.93	0.0133	0.0011
Mercury	23019-03-22 11:16 G	10128656.81	10128656.97	10128657.13	0.0133	0.0009
Mercury	23019-06-18 16:04 G	10128745.01	10128745.17	10128745.33	0.0133	0.0028
Mercury	23019-09-14 20:38 G	10128833.22	10128833.36	10128833.52	0.0133	0.0047
Mercury	23019-12-12 01:26 G	10128921.43	10128921.56	10128921.70	0.0133	0.0066
Mercury	23020-03-09 06:00 G	10129009.64	10129009.75	10129009.88	0.0133	0.0085
Mercury	23020-06-05 10:48 G	10129097.85	10129097.95	10129098.05	0.0133	0.0104
Mercury	23020-09-01 15:21 G	10129186.08	10129186.14	10129186.20	0.0133	0.0122
Mars	23028-08-11 20:24 G	10132087.12	10132087.35	10132087.60	0.0134	0.0071
Mars	23030-07-11 16:33 G	10132785.98	10132786.19	10132786.42	0.0135	0.0083
Moon	23047-11-19 23:02 G	10139126.27	10139126.46	10139126.68	0.0142	0.0081
Earth	23047-11-20 02:24 G	10139126.40	10139126.60	10139126.83	0.0142	0.0077 *
Earth	23048-11-23 23:16 G	10139496.22	10139496.47	10139496.73	0.0143	0.0008
Moon	23048-11-24 02:38 G	10139496.35	10139496.61	10139496.86	0.0143	0.0001 *
Moon	23049-11-28 16:48 G	10139865.98	10139866.20	10139866.44	0.0143	0.0055
Earth	23049-11-28 20:38 G	10139866.14	10139866.36	10139866.59	0.0143	0.0063 *
Earth	23050-12-03 18:00 G	10140236.17	10140236.25	10140236.36	0.0144	0.0133
Moon	23050-12-03 21:36 G	10140236.36	10140236.40	10140236.48	0.0144	0.0140 *
Venus	23054-11-29 03:21 G	10141692.51	10141692.64	10141692.79	0.0145	0.0111
Venus	23055-07-13 15:07 G	10141918.95	10141919.13	10141919.34	0.0145	0.0068

Venus	23056-02-25 03:21 G	10142145.42	10142145.64	10142145.85	0.0145	0.0024
Venus	23056-10-08 15:36 G	10142371.93	10142372.15	10142372.36	0.0145	0.0020
Venus	23057-05-23 03:36 G	10142598.46	10142598.65	10142598.84	0.0145	0.0064
Venus	23058-01-04 15:36 G	10142825.01	10142825.15	10142825.30	0.0145	0.0108
Mercury	23059-07-12 08:24 G	10143378.85	10143378.85	10143378.87	0.0145	0.0144
Mercury	23059-10-08 13:26 G	10143466.98	10143467.06	10143467.14	0.0145	0.0122
Mercury	23060-01-04 18:00 G	10143555.15	10143555.25	10143555.37	0.0145	0.0099
Mercury	23060-04-01 23:02 G	10143643.34	10143643.46	10143643.59	0.0145	0.0076
Mercury	23060-06-29 04:04 G	10143731.53	10143731.67	10143731.81	0.0145	0.0053
Mercury	23060-09-25 09:07 G	10143819.73	10143819.88	10143820.02	0.0145	0.0029
Mercury	23060-12-22 14:09 G	10143907.93	10143908.09	10143908.24	0.0145	0.0007
Mercury	23061-03-20 19:12 G	10143996.15	10143996.30	10143996.45	0.0145	0.0018
Mercury	23061-06-17 00:14 G	10144084.36	10144084.51	10144084.66	0.0145	0.0042
Mercury	23061-09-13 05:16 G	10144172.59	10144172.72	10144172.86	0.0145	0.0066
Mercury	23061-12-10 10:33 G	10144260.82	10144260.94	10144261.06	0.0145	0.0090
Mercury	23062-03-08 15:36 G	10144349.07	10144349.15	10144349.25	0.0145	0.0115
Mercury	23062-06-04 21:07 G	10144437.34	10144437.38	10144437.42	0.0145	0.0140
Mars	23069-01-04 09:21 G	10146842.65	10146842.89	10146843.13	0.0144	0.0102
Mars	23070-12-13 00:00 G	10147550.42	10147550.50	10147550.64	0.0143	0.0135
Earth	23087-05-18 16:33 G	10153551.04	10153551.19	10153551.38	0.0136	0.0102
Moon	23087-05-18 19:12 G	10153551.13	10153551.30	10153551.50	0.0136	0.0095 *
Moon	23088-05-22 01:55 G	10153920.35	10153920.58	10153920.81	0.0136	0.0048
Earth	23088-05-22 04:48 G	10153920.46	10153920.70	10153920.95	0.0136	0.0041 *
Earth	23089-05-26 16:04 G	10154289.92	10154290.17	10154290.43	0.0135	0.0019
Moon	23089-05-26 18:57 G	10154290.04	10154290.29	10154290.55	0.0135	0.0026 *
Moon	23090-05-30 23:31 G	10154659.28	10154659.48	10154659.70	0.0135	0.0074
Earth	23090-05-31 02:38 G	10154659.42	10154659.61	10154659.83	0.0135	0.0078 *
Venus	23095-10-28 05:16 G	10156635.60	10156635.72	10156635.88	0.0134	0.0102
Venus	23096-06-10 11:02 G	10156861.78	10156861.96	10156862.16	0.0134	0.0068
Venus	23097-01-22 16:33 G	10157087.98	10157088.19	10157088.41	0.0134	0.0033

Venus	23097-09-05 22:04 G	10157314.20	10157314.42	10157314.64	0.0133	0.0001
Venus	23098-04-20 03:21 G	10157540.44	10157540.64	10157540.86	0.0133	0.0035
Venus	23098-12-02 08:38 G	10157766.69	10157766.86	10157767.06	0.0133	0.0069
Venus	23099-07-16 14:09 G	10157992.95	10157993.09	10157993.23	0.0133	0.0103
Mercury	23101-08-03 07:55 G	10158740.79	10158740.83	10158740.89	0.0133	0.0125
Mercury	23101-10-30 12:57 G	10158828.95	10158829.04	10158829.15	0.0133	0.0105
Mercury	23102-01-26 18:00 G	10158917.13	10158917.25	10158917.38	0.0133	0.0085
Mercury	23102-04-24 23:02 G	10159005.32	10159005.46	10159005.61	0.0133	0.0065
Mercury	23102-07-22 04:04 G	10159093.52	10159093.67	10159093.82	0.0133	0.0045
Mercury	23102-10-18 08:52 G	10159181.71	10159181.87	10159182.03	0.0133	0.0025
Mercury	23103-01-14 13:55 G	10159269.91	10159270.08	10159270.24	0.0133	0.0006
Mercury	23103-04-12 18:43 G	10159358.11	10159358.28	10159358.44	0.0133	0.0014
Mercury	23103-07-09 23:16 G	10159446.32	10159446.47	10159446.63	0.0133	0.0033
Mercury	23103-10-06 04:04 G	10159534.53	10159534.67	10159534.82	0.0133	0.0052
Mercury	23104-01-02 08:52 G	10159622.73	10159622.87	10159623.00	0.0133	0.0071
Mercury	23104-03-30 13:26 G	10159710.95	10159711.06	10159711.18	0.0133	0.0090
Mercury	23104-06-26 18:00 G	10159799.16	10159799.25	10159799.34	0.0133	0.0109
Mercury	23104-09-22 22:19 G	10159887.40	10159887.43	10159887.49	0.0133	0.0128
Mars	23113-04-06 21:21 G	10163005.11	10163005.39	10163005.67	0.0135	0.0011
Jupiter	23129-04-28 00:14 G	10168870.49	10168870.51	10168870.58	0.0141	0.0141
Earth	23130-11-16 16:19 G	10169438.18	10169438.18	10169438.19	0.0142	0.0142
Moon	23130-11-16 18:43 G	10169438.25	10169438.28	10169438.33	0.0142	0.0140
Moon	23131-11-21 09:50 G	10169807.71	10169807.91	10169808.14	0.0142	0.0072
Earth	23131-11-21 12:43 G	10169807.82	10169808.03	10169808.25	0.0142	0.0074 *
Earth	23132-11-25 09:36 G	10170177.65	10170177.90	10170178.15	0.0143	0.0004
Moon	23132-11-25 12:57 G	10170177.78	10170178.04	10170178.30	0.0143	0.0011 *
Moon	23133-11-30 03:36 G	10170547.45	10170547.65	10170547.87	0.0143	0.0074
Earth	23133-11-30 06:43 G	10170547.57	10170547.78	10170548.02	0.0143	0.0066 *
Earth	23134-12-05 04:19 G	10170917.62	10170917.68	10170917.78	0.0144	0.0137
Moon	23134-12-05 08:09 G	10170917.75	10170917.84	10170917.95	0.0144	0.0131 *

Venus	23138-07-30 09:50 G	10172250.84	10172250.91	10172251.03	0.0145	0.0130
Venus	23139-03-13 22:04 G	10172477.25	10172477.42	10172477.60	0.0145	0.0086
Venus	23139-10-26 10:04 G	10172703.72	10172703.92	10172704.14	0.0145	0.0043
Venus	23140-06-08 22:19 G	10172930.21	10172930.43	10172930.65	0.0145	0.0002
Venus	23141-01-21 10:33 G	10173156.73	10173156.94	10173157.14	0.0145	0.0046
Venus	23141-09-04 22:48 G	10173383.28	10173383.45	10173383.62	0.0145	0.0090
Venus	23142-04-19 10:48 G	10173609.88	10173609.95	10173610.04	0.0145	0.0134
Mercury	23143-08-02 16:04 G	10174080.13	10174080.17	10174080.23	0.0145	0.0137
Mercury	23143-10-29 20:52 G	10174168.29	10174168.37	10174168.47	0.0145	0.0115
Mercury	23144-01-26 01:55 G	10174256.47	10174256.58	10174256.70	0.0145	0.0091
Mercury	23144-04-23 06:43 G	10174344.65	10174344.78	10174344.92	0.0145	0.0069
Mercury	23144-07-20 11:45 G	10174432.85	10174432.99	10174433.13	0.0145	0.0045
Mercury	23144-10-16 16:48 G	10174521.05	10174521.20	10174521.35	0.0145	0.0022
Mercury	23145-01-12 21:50 G	10174609.26	10174609.41	10174609.56	0.0145	0.0003
Mercury	23145-04-11 02:52 G	10174697.47	10174697.62	10174697.77	0.0145	0.0026
Mercury	23145-07-08 07:55 G	10174785.69	10174785.83	10174785.97	0.0145	0.0050
Mercury	23145-10-04 12:57 G	10174873.92	10174874.04	10174874.18	0.0145	0.0074
Mercury	23145-12-31 18:14 G	10174962.15	10174962.26	10174962.38	0.0145	0.0099
Mercury	23146-03-29 23:16 G	10175050.40	10175050.47	10175050.56	0.0145	0.0123
Mars	23153-09-02 06:57 G	10177763.45	10177763.79	10177764.13	0.0144	0.0009
Earth	23171-05-20 05:16 G	10184232.56	10184232.72	10184232.91	0.0136	0.0097
Moon	23171-05-20 07:26 G	10184232.66	10184232.81	10184233.00	0.0136	0.0104 *
Moon	23172-05-23 15:07 G	10184601.90	10184602.13	10184602.38	0.0136	0.0031
Earth	23172-05-23 17:16 G	10184601.98	10184602.22	10184602.47	0.0136	0.0037 *
Earth	23173-05-28 04:19 G	10184971.44	10184971.68	10184971.94	0.0135	0.0024
Moon	23173-05-28 07:26 G	10184971.55	10184971.81	10184972.07	0.0135	0.0017 *
Moon	23174-06-01 12:28 G	10185340.84	10185341.02	10185341.22	0.0135	0.0088
Earth	23174-06-01 15:07 G	10185340.93	10185341.13	10185341.34	0.0135	0.0082 *
Venus	23179-06-28 16:04 G	10187194.08	10187194.17	10187194.30	0.0134	0.0115
Venus	23180-02-09 21:50 G	10187420.24	10187420.41	10187420.59	0.0134	0.0081

Venus	23180-09-23 03:21 G	10187646.44	10187646.64	10187646.85	0.0133	0.0047
Venus	23181-05-07 09:07 G	10187872.66	10187872.88	10187873.10	0.0133	0.0012
Venus	23181-12-19 14:24 G	10188098.89	10188099.10	10188099.32	0.0133	0.0022
Venus	23182-08-02 19:40 G	10188325.13	10188325.32	10188325.52	0.0133	0.0056
Venus	23183-03-17 00:57 G	10188551.39	10188551.54	10188551.71	0.0133	0.0089
Venus	23183-10-29 06:00 G	10188777.69	10188777.75	10188777.85	0.0133	0.0123
Mercury	23185-08-23 15:36 G	10189442.08	10189442.15	10189442.22	0.0133	0.0118
Mercury	23185-11-19 20:24 G	10189530.25	10189530.35	10189530.47	0.0133	0.0098
Mercury	23186-02-16 01:26 G	10189618.44	10189618.56	10189618.70	0.0133	0.0078
Mercury	23186-05-15 06:28 G	10189706.63	10189706.77	10189706.92	0.0133	0.0058
Mercury	23186-08-11 11:31 G	10189794.82	10189794.98	10189795.14	0.0133	0.0038
Mercury	23186-11-07 16:19 G	10189883.02	10189883.18	10189883.35	0.0133	0.0019
Mercury	23187-02-03 21:21 G	10189971.22	10189971.39	10189971.55	0.0133	0.0003
Mercury	23187-05-03 01:55 G	10190059.43	10190059.58	10190059.75	0.0133	0.0021
Mercury	23187-07-30 06:43 G	10190147.63	10190147.78	10190147.94	0.0133	0.0040
Mercury	23187-10-26 11:31 G	10190235.84	10190235.98	10190236.13	0.0133	0.0059
Mercury	23188-01-22 16:04 G	10190324.05	10190324.17	10190324.31	0.0133	0.0078
Mercury	23188-04-19 20:38 G	10190412.26	10190412.36	10190412.48	0.0133	0.0097
Mercury	23188-07-17 01:26 G	10190500.49	10190500.56	10190500.64	0.0133	0.0115
Mars	23196-01-01 03:21 G	10193224.49	10193224.64	10193224.84	0.0134	0.0105
Mars	23197-11-29 23:45 G	10193923.24	10193923.49	10193923.76	0.0135	0.0051
Earth	23214-11-17 02:24 G	10200119.57	10200119.60	10200119.67	0.0142	0.0139
Moon	23214-11-17 04:19 G	10200119.66	10200119.68	10200119.74	0.0142	0.0140 *
Moon	23215-11-21 20:24 G	10200489.15	10200489.35	10200489.58	0.0142	0.0074
Earth	23215-11-21 23:02 G	10200489.25	10200489.46	10200489.68	0.0142	0.0071 *
Earth	23216-11-25 19:40 G	10200859.07	10200859.32	10200859.58	0.0143	0.0003
Moon	23216-11-25 22:19 G	10200859.17	10200859.43	10200859.69	0.0143	0.0004 *
Moon	23217-11-30 13:55 G	10201228.86	10201229.08	10201229.31	0.0143	0.0062
Earth	23217-11-30 17:02 G	10201229.00	10201229.21	10201229.44	0.0143	0.0069 *
Earth	23218-12-05 14:38 G	10201599.07	10201599.11	10201599.18	0.0144	0.0140

Venus	23222-11-11 04:33 G	10203035.55	10203035.69	10203035.85	0.0145	0.0105
Venus	23223-06-25 16:48 G	10203262.00	10203262.20	10203262.40	0.0145	0.0061
Venus	23224-02-07 04:48 G	10203488.48	10203488.70	10203488.92	0.0145	0.0017
Venus	23224-09-20 16:48 G	10203715.00	10203715.20	10203715.42	0.0145	0.0027
Venus	23225-05-05 05:16 G	10203941.53	10203941.72	10203941.91	0.0145	0.0071
Venus	23225-12-17 17:31 G	10204168.10	10204168.23	10204168.37	0.0145	0.0115
Mercury	23227-08-22 23:31 G	10204781.43	10204781.48	10204781.55	0.0145	0.0131
Mercury	23227-11-19 04:33 G	10204869.59	10204869.69	10204869.79	0.0145	0.0108
Mercury	23228-02-15 09:21 G	10204957.77	10204957.89	10204958.02	0.0145	0.0085
Mercury	23228-05-13 14:24 G	10205045.96	10205046.10	10205046.23	0.0145	0.0061
Mercury	23228-08-09 19:12 G	10205134.16	10205134.30	10205134.45	0.0145	0.0038
Mercury	23228-11-06 00:14 G	10205222.36	10205222.51	10205222.66	0.0145	0.0015
Mercury	23229-02-02 05:16 G	10205310.57	10205310.72	10205310.87	0.0145	0.0009
Mercury	23229-05-01 10:19 G	10205398.79	10205398.93	10205399.08	0.0145	0.0033
Mercury	23229-07-28 15:21 G	10205487.01	10205487.14	10205487.29	0.0145	0.0057
Mercury	23229-10-24 20:38 G	10205575.23	10205575.36	10205575.49	0.0145	0.0081
Mercury	23230-01-21 01:55 G	10205663.47	10205663.58	10205663.68	0.0145	0.0106
Mercury	23230-04-19 06:57 G	10205751.73	10205751.79	10205751.86	0.0145	0.0130
Mars	23238-04-30 03:36 G	10208684.39	10208684.65	10208684.93	0.0144	0.0086
Earth	23255-05-20 17:45 G	10214914.07	10214914.24	10214914.44	0.0136	0.0093
Moon	23255-05-20 19:12 G	10214914.12	10214914.30	10214914.52	0.0136	0.0088 *
Moon	23256-05-24 03:36 G	10215283.42	10215283.65	10215283.89	0.0136	0.0040
Earth	23256-05-24 05:45 G	10215283.50	10215283.74	10215283.99	0.0136	0.0032 *
Earth	23257-05-28 16:48 G	10215652.96	10215653.20	10215653.45	0.0135	0.0028
Moon	23257-05-28 18:43 G	10215653.03	10215653.28	10215653.54	0.0135	0.0034 *
Moon	23258-06-02 00:43 G	10216022.34	10216022.53	10216022.73	0.0135	0.0082
Earth	23258-06-02 02:52 G	10216022.45	10216022.62	10216022.84	0.0135	0.0087 *
Venus	23263-02-26 03:07 G	10217752.57	10217752.63	10217752.69	0.0134	0.0128
Venus	23263-10-10 08:52 G	10217978.71	10217978.87	10217979.02	0.0134	0.0094
Venus	23264-05-23 14:24 G	10218204.90	10218205.10	10218205.29	0.0133	0.0060

Venus	23265-01-04 19:40 G	10218431.11	10218431.32	10218431.54	0.0133	0.0026
Venus	23265-08-19 01:12 G	10218657.33	10218657.55	10218657.77	0.0133	0.0008
Venus	23266-04-02 06:28 G	10218883.57	10218883.77	10218883.99	0.0133	0.0042
Venus	23266-11-14 11:45 G	10219109.82	10219109.99	10219110.18	0.0133	0.0076
Venus	23267-06-28 17:02 G	10219336.10	10219336.21	10219336.34	0.0133	0.0109
Mercury	23269-06-16 17:45 G	10220055.23	10220055.24	10220055.26	0.0133	0.0132
Mercury	23269-09-12 22:48 G	10220143.37	10220143.45	10220143.55	0.0133	0.0112
Mercury	23269-12-10 03:50 G	10220231.55	10220231.66	10220231.79	0.0133	0.0092
Mercury	23270-03-08 08:52 G	10220319.74	10220319.87	10220320.02	0.0133	0.0072
Mercury	23270-06-04 13:55 G	10220407.93	10220408.08	10220408.23	0.0133	0.0052
Mercury	23270-08-31 18:57 G	10220496.13	10220496.29	10220496.45	0.0133	0.0032
Mercury	23270-11-27 23:45 G	10220584.33	10220584.49	10220584.65	0.0133	0.0012
Mercury	23271-02-24 04:33 G	10220672.53	10220672.69	10220672.85	0.0133	0.0007
Mercury	23271-05-23 09:21 G	10220760.73	10220760.89	10220761.05	0.0133	0.0026
Mercury	23271-08-19 13:55 G	10220848.94	10220849.08	10220849.24	0.0133	0.0046
Mercury	23271-11-15 18:43 G	10220937.15	10220937.28	10220937.43	0.0133	0.0065
Mercury	23272-02-11 23:16 G	10221025.36	10221025.47	10221025.60	0.0133	0.0084
Mercury	23272-05-10 04:04 G	10221113.57	10221113.67	10221113.78	0.0133	0.0102
Mercury	23272-08-06 08:38 G	10221201.80	10221201.86	10221201.93	0.0133	0.0121
Mars	23280-08-25 05:16 G	10224142.45	10224142.72	10224142.98	0.0134	0.0044
Mars	23282-07-25 02:38 G	10224841.47	10224841.61	10224841.78	0.0135	0.0112
Earth	23298-11-17 10:48 G	10230800.90	10230800.95	10230801.02	0.0142	0.0137
Moon	23298-11-17 11:45 G	10230800.93	10230800.99	10230801.09	0.0142	0.0134 *
Moon	23299-11-22 05:16 G	10231170.52	10231170.72	10231170.95	0.0142	0.0069
Earth	23299-11-22 06:57 G	10231170.58	10231170.79	10231171.02	0.0142	0.0069 *
Earth	23300-11-27 03:50 G	10231540.41	10231540.66	10231540.92	0.0143	0.0002
Moon	23300-11-27 06:14 G	10231540.50	10231540.76	10231541.03	0.0143	0.0006 *
Moon	23301-12-01 22:48 G	10231910.26	10231910.45	10231910.67	0.0143	0.0079
Earth	23301-12-02 01:12 G	10231910.34	10231910.55	10231910.78	0.0143	0.0071 *
Earth	23302-12-06 23:02 G	10232280.43	10232280.46	10232280.50	0.0144	0.0142

Moon	23302-12-07 01:55 G	10232280.51	10232280.58	10232280.68	0.0144	0.0136
Venus	23306-07-12 09:36 G	10233593.81	10233593.90	10233594.03	0.0145	0.0125
Venus	23307-02-23 22:04 G	10233820.24	10233820.42	10233820.60	0.0145	0.0081
Venus	23307-10-08 10:04 G	10234046.72	10234046.92	10234047.13	0.0145	0.0038
Venus	23308-05-21 22:19 G	10234273.21	10234273.43	10234273.65	0.0145	0.0006
Venus	23309-01-03 10:19 G	10234499.74	10234499.93	10234500.14	0.0145	0.0051
Venus	23309-08-17 22:33 G	10234726.29	10234726.44	10234726.62	0.0145	0.0094
Venus	23310-04-01 10:48 G	10234952.90	10234952.95	10234953.03	0.0145	0.0138
Mercury	23311-09-13 06:43 G	10235482.72	10235482.78	10235482.86	0.0145	0.0125
Mercury	23311-12-10 11:31 G	10235570.88	10235570.98	10235571.09	0.0145	0.0103
Mercury	23312-03-07 16:33 G	10235659.07	10235659.19	10235659.32	0.0145	0.0080
Mercury	23312-06-03 21:21 G	10235747.26	10235747.39	10235747.53	0.0145	0.0057
Mercury	23312-08-31 02:24 G	10235835.46	10235835.60	10235835.75	0.0145	0.0033
Mercury	23312-11-27 07:26 G	10235923.66	10235923.81	10235923.96	0.0145	0.0009
Mercury	23313-02-23 12:28 G	10236011.87	10236012.02	10236012.17	0.0145	0.0014
Mercury	23313-05-22 17:31 G	10236100.08	10236100.23	10236100.38	0.0145	0.0038
Mercury	23313-08-18 22:33 G	10236188.31	10236188.44	10236188.58	0.0145	0.0063
Mercury	23313-11-15 03:50 G	10236276.54	10236276.66	10236276.78	0.0145	0.0087
Mercury	23314-02-11 08:52 G	10236364.78	10236364.87	10236364.97	0.0145	0.0111
Mercury	23314-05-10 14:09 G	10236453.04	10236453.09	10236453.15	0.0145	0.0136
Mars	23321-01-18 05:16 G	10238897.42	10238897.72	10238898.03	0.0144	0.0062
Jupiter	23337-03-23 03:36 G	10244805.22	10244805.65	10244806.15	0.0137	0.0069
Earth	23339-05-22 06:43 G	10245595.60	10245595.78	10245595.98	0.0136	0.0089
Moon	23339-05-22 07:55 G	10245595.65	10245595.83	10245596.03	0.0136	0.0094 *
Moon	23340-05-25 17:31 G	10245964.99	10245965.23	10245965.47	0.0136	0.0022
Earth	23340-05-25 18:28 G	10245965.02	10245965.27	10245965.52	0.0136	0.0028 *
Earth	23341-05-30 05:16 G	10246334.48	10246334.72	10246334.97	0.0135	0.0032
Moon	23341-05-30 07:12 G	10246334.55	10246334.80	10246335.06	0.0135	0.0026 *
Moon	23342-06-03 13:55 G	10246703.93	10246704.08	10246704.27	0.0135	0.0098
Earth	23342-06-03 15:36 G	10246703.98	10246704.15	10246704.35	0.0135	0.0092 *

Venus	23347-06-10 19:55 G	10248537.20	10248537.33	10248537.46	0.0134	0.0107
Venus	23348-01-23 01:26 G	10248763.38	10248763.56	10248763.75	0.0133	0.0073
Venus	23348-09-05 06:57 G	10248989.59	10248989.79	10248990.00	0.0133	0.0039
Venus	23349-04-19 12:43 G	10249215.81	10249216.03	10249216.25	0.0133	0.0005
Venus	23349-12-01 18:00 G	10249442.04	10249442.25	10249442.47	0.0133	0.0029
Venus	23350-07-15 23:02 G	10249668.28	10249668.46	10249668.67	0.0133	0.0063
Venus	23351-02-27 04:33 G	10249894.55	10249894.69	10249894.84	0.0133	0.0096
Venus	23351-10-11 09:21 G	10250120.87	10250120.89	10250120.96	0.0133	0.0130
Mercury	23353-07-08 01:26 G	10250756.51	10250756.56	10250756.62	0.0133	0.0125
Mercury	23353-10-04 06:28 G	10250844.68	10250844.77	10250844.88	0.0133	0.0105
Mercury	23353-12-31 11:31 G	10250932.86	10250932.98	10250933.11	0.0133	0.0085
Mercury	23354-03-29 16:33 G	10251021.05	10251021.19	10251021.34	0.0133	0.0065
Mercury	23354-06-25 21:36 G	10251109.25	10251109.40	10251109.55	0.0133	0.0045
Mercury	23354-09-22 02:24 G	10251197.44	10251197.60	10251197.77	0.0133	0.0025
Mercury	23354-12-19 07:26 G	10251285.64	10251285.81	10251285.97	0.0133	0.0006
Mercury	23355-03-17 12:14 G	10251373.85	10251374.01	10251374.17	0.0133	0.0014
Mercury	23355-06-13 16:48 G	10251462.05	10251462.20	10251462.36	0.0133	0.0034
Mercury	23355-09-09 21:36 G	10251550.26	10251550.40	10251550.55	0.0133	0.0052
Mercury	23355-12-07 02:24 G	10251638.47	10251638.60	10251638.74	0.0133	0.0071
Mercury	23356-03-04 06:57 G	10251726.68	10251726.79	10251726.91	0.0133	0.0090
Mercury	23356-05-31 11:31 G	10251814.90	10251814.98	10251815.08	0.0133	0.0109
Mercury	23356-08-27 15:50 G	10251903.14	10251903.16	10251903.22	0.0133	0.0128
Mars	23365-04-20 10:04 G	10255060.65	10255060.92	10255061.21	0.0134	0.0019
Earth	23382-11-18 20:38 G	10261482.29	10261482.36	10261482.45	0.0142	0.0134
Moon	23382-11-18 20:52 G	10261482.32	10261482.37	10261482.45	0.0142	0.0137 *
Moon	23383-11-23 15:50 G	10261851.94	10261852.16	10261852.37	0.0142	0.0067
Earth	23383-11-23 16:48 G	10261851.98	10261852.20	10261852.43	0.0142	0.0066 *
Earth	23384-11-27 13:26 G	10262221.81	10262222.06	10262222.32	0.0143	0.0005
Moon	23384-11-27 14:52 G	10262221.86	10262222.12	10262222.38	0.0143	0.0008 *
Moon	23385-12-02 08:38 G	10262591.65	10262591.86	10262592.08	0.0143	0.0067

Earth	23385-12-02 10:48 G	10262591.74	10262591.95	10262592.17	0.0143	0.0075 *
Venus	23390-03-11 15:50 G	10264152.15	10264152.16	10264152.20	0.0145	0.0144
Venus	23390-10-24 03:50 G	10264378.52	10264378.66	10264378.83	0.0145	0.0101
Venus	23391-06-07 16:04 G	10264604.97	10264605.17	10264605.37	0.0145	0.0057
Venus	23392-01-20 04:04 G	10264831.46	10264831.67	10264831.89	0.0145	0.0014
Venus	23392-09-02 16:19 G	10265057.97	10265058.18	10265058.40	0.0145	0.0030
Venus	23393-04-17 04:33 G	10265284.51	10265284.69	10265284.88	0.0145	0.0074
Venus	23393-11-29 16:48 G	10265511.09	10265511.20	10265511.34	0.0145	0.0118
Mercury	23395-07-07 09:07 G	10266095.86	10266095.88	10266095.92	0.0145	0.0143
Mercury	23395-10-03 14:09 G	10266184.01	10266184.09	10266184.17	0.0145	0.0120
Mercury	23395-12-30 18:57 G	10266272.18	10266272.29	10266272.40	0.0145	0.0097
Mercury	23396-03-27 23:45 G	10266360.36	10266360.49	10266360.62	0.0145	0.0074
Mercury	23396-06-24 04:48 G	10266448.56	10266448.70	10266448.84	0.0145	0.0051
Mercury	23396-09-20 09:36 G	10266536.76	10266536.90	10266537.05	0.0146	0.0027
Mercury	23396-12-17 14:38 G	10266624.96	10266625.11	10266625.26	0.0146	0.0004
Mercury	23397-03-15 19:40 G	10266713.17	10266713.32	10266713.47	0.0146	0.0020
Mercury	23397-06-12 00:43 G	10266801.39	10266801.53	10266801.68	0.0146	0.0044
Mercury	23397-09-08 05:45 G	10266889.61	10266889.74	10266889.88	0.0146	0.0068
Mercury	23397-12-05 10:48 G	10266977.84	10266977.95	10266978.08	0.0145	0.0093
Mercury	23398-03-03 16:19 G	10267066.09	10267066.18	10267066.27	0.0145	0.0117
Mercury	23398-05-30 21:21 G	10267154.36	10267154.39	10267154.43	0.0145	0.0142
Mars	23405-09-15 21:21 G	10269818.07	10269818.39	10269818.74	0.0144	0.0031
Earth	23423-05-23 18:57 G	10276277.09	10276277.29	10276277.49	0.0136	0.0085
Moon	23423-05-23 19:12 G	10276277.09	10276277.30	10276277.52	0.0136	0.0081 *
Moon	23424-05-27 05:31 G	10276646.49	10276646.73	10276646.97	0.0136	0.0030
Earth	23424-05-27 06:28 G	10276646.52	10276646.77	10276647.02	0.0136	0.0024 *
Earth	23425-05-31 17:16 G	10277015.98	10277016.22	10277016.48	0.0135	0.0037
Moon	23425-05-31 18:00 G	10277016.01	10277016.25	10277016.51	0.0135	0.0043 *
Moon	23426-06-05 02:09 G	10277385.43	10277385.59	10277385.79	0.0135	0.0091
Earth	23426-06-05 03:36 G	10277385.49	10277385.65	10277385.84	0.0135	0.0096 *

Venus	23431-02-09 06:57 G	10279095.70	10279095.79	10279095.88	0.0134	0.0120
Venus	23431-09-23 12:14 G	10279321.86	10279322.01	10279322.19	0.0134	0.0087
Venus	23432-05-06 18:00 G	10279548.07	10279548.25	10279548.47	0.0133	0.0053
Venus	23432-12-18 23:45 G	10279774.28	10279774.49	10279774.71	0.0133	0.0018
Venus	23433-08-02 05:16 G	10280000.51	10280000.72	10280000.94	0.0133	0.0016
Venus	23434-03-16 10:33 G	10280226.75	10280226.94	10280227.15	0.0133	0.0050
Venus	23434-10-28 15:50 G	10280453.00	10280453.16	10280453.34	0.0133	0.0083
Venus	23435-06-11 20:52 G	10280679.29	10280679.37	10280679.49	0.0133	0.0117
Mercury	23437-07-29 08:52 G	10281457.81	10281457.87	10281457.96	0.0133	0.0118
Mercury	23437-10-25 13:55 G	10281545.98	10281546.08	10281546.21	0.0133	0.0098
Mercury	23438-01-21 18:57 G	10281634.17	10281634.29	10281634.44	0.0133	0.0078
Mercury	23438-04-20 00:00 G	10281722.36	10281722.50	10281722.66	0.0133	0.0058
Mercury	23438-07-17 05:02 G	10281810.56	10281810.71	10281810.87	0.0133	0.0038
Mercury	23438-10-13 10:04 G	10281898.76	10281898.92	10281899.08	0.0133	0.0018
Mercury	23439-01-09 14:52 G	10281986.96	10281987.12	10281987.29	0.0133	0.0002
Mercury	23439-04-07 19:40 G	10282075.16	10282075.32	10282075.48	0.0133	0.0021
Mercury	23439-07-05 00:28 G	10282163.37	10282163.52	10282163.67	0.0133	0.0040
Mercury	23439-10-01 05:16 G	10282251.57	10282251.72	10282251.86	0.0133	0.0059
Mercury	23439-12-28 09:50 G	10282339.78	10282339.91	10282340.04	0.0133	0.0078
Mercury	23440-03-25 14:24 G	10282428.00	10282428.10	10282428.22	0.0133	0.0097
Mercury	23440-06-21 18:57 G	10282516.22	10282516.29	10282516.38	0.0133	0.0116
Mars	23448-01-15 17:45 G	10285280.01	10285280.24	10285280.48	0.0134	0.0075
Mars	23449-12-14 13:26 G	10285978.86	10285979.06	10285979.30	0.0135	0.0082
Moon	23466-11-20 06:00 G	10292163.66	10292163.75	10292163.89	0.0142	0.0127
Earth	23466-11-20 06:43 G	10292163.69	10292163.78	10292163.88	0.0142	0.0131 *
Earth	23467-11-25 02:38 G	10292533.38	10292533.61	10292533.84	0.0142	0.0063
Moon	23467-11-25 02:24 G	10292533.39	10292533.60	10292533.83	0.0142	0.0064 *
Earth	23468-11-28 23:16 G	10292903.22	10292903.47	10292903.73	0.0143	0.0007
Moon	23468-11-29 00:28 G	10292903.26	10292903.52	10292903.78	0.0143	0.0003 *
Moon	23469-12-03 19:26 G	10293273.12	10293273.31	10293273.52	0.0143	0.0084

Earth	23469-12-03 20:38 G	10293273.15	10293273.36	10293273.57	0.0143	0.0078	*
Moon	23470-12-08 20:09 G	10293643.32	10293643.34	10293643.40	0.0144	0.0142	
Venus	23474-06-24 09:50 G	10294936.80	10294936.91	10294937.04	0.0145	0.0120	
Venus	23475-02-05 21:50 G	10295163.24	10295163.41	10295163.60	0.0145	0.0077	
Venus	23475-09-20 10:04 G	10295389.71	10295389.92	10295390.14	0.0145	0.0033	
Venus	23476-05-03 22:19 G	10295616.21	10295616.43	10295616.65	0.0145	0.0011	
Venus	23476-12-16 10:33 G	10295842.74	10295842.94	10295843.14	0.0145	0.0054	
Venus	23477-07-30 22:33 G	10296069.29	10296069.44	10296069.61	0.0145	0.0098	
Venus	23478-03-14 11:02 G	10296295.92	10296295.96	10296296.01	0.0145	0.0142	
Mercury	23479-07-28 16:33 G	10296797.14	10296797.19	10296797.24	0.0146	0.0137	
Mercury	23479-10-24 21:07 G	10296885.30	10296885.38	10296885.48	0.0146	0.0115	
Mercury	23480-01-21 01:55 G	10296973.48	10296973.58	10296973.70	0.0146	0.0092	
Mercury	23480-04-18 06:57 G	10297061.66	10297061.79	10297061.92	0.0146	0.0068	
Mercury	23480-07-15 11:45 G	10297149.85	10297149.99	10297150.14	0.0146	0.0046	
Mercury	23480-10-11 16:48 G	10297238.05	10297238.20	10297238.35	0.0146	0.0022	
Mercury	23481-01-07 21:50 G	10297326.26	10297326.41	10297326.56	0.0146	0.0002	
Mercury	23481-04-06 02:52 G	10297414.47	10297414.62	10297414.77	0.0146	0.0026	
Mercury	23481-07-03 07:55 G	10297502.69	10297502.83	10297502.97	0.0146	0.0050	
Mercury	23481-09-29 13:12 G	10297590.91	10297591.05	10297591.18	0.0146	0.0074	
Mercury	23481-12-26 18:00 G	10297679.15	10297679.25	10297679.37	0.0146	0.0099	
Mercury	23482-03-24 23:16 G	10297767.40	10297767.47	10297767.56	0.0146	0.0123	
Mars	23488-06-04 22:19 G	10300031.27	10300031.43	10300031.65	0.0144	0.0121	
Saturn	23489-05-18 22:04 G	10300378.78	10300379.42	10300380.09	0.0144	0.0009	
Mars	23490-05-13 15:21 G	10300739.00	10300739.14	10300739.32	0.0144	0.0126	
Moon	23507-05-25 07:12 G	10306958.61	10306958.80	10306959.02	0.0136	0.0084	
Earth	23507-05-25 07:12 G	10306958.61	10306958.80	10306959.02	0.0136	0.0081	*
Earth	23508-05-28 19:12 G	10307328.05	10307328.30	10307328.55	0.0136	0.0019	
Moon	23508-05-28 19:26 G	10307328.06	10307328.31	10307328.55	0.0136	0.0014	*
Earth	23509-06-02 05:45 G	10307697.51	10307697.74	10307698.00	0.0136	0.0042	
Moon	23509-06-02 06:28 G	10307697.53	10307697.77	10307698.04	0.0136	0.0035	*

Moon	23510-06-06 16:04 G	10308067.03	10308067.17	10308067.33	0.0135	0.0108
Earth	23510-06-06 16:33 G	10308067.03	10308067.19	10308067.36	0.0135	0.0101 *
Venus	23514-10-10 18:00 G	10309654.25	10309654.25	10309654.29	0.0134	0.0133
Venus	23515-05-25 00:00 G	10309880.36	10309880.50	10309880.66	0.0134	0.0099
Venus	23516-01-06 05:45 G	10310106.55	10310106.74	10310106.94	0.0134	0.0065
Venus	23516-08-19 11:31 G	10310332.76	10310332.98	10310333.19	0.0133	0.0031
Venus	23517-04-02 17:02 G	10310558.99	10310559.21	10310559.43	0.0133	0.0003
Venus	23517-11-14 22:19 G	10310785.23	10310785.43	10310785.65	0.0133	0.0037
Venus	23518-06-29 03:50 G	10311011.47	10311011.66	10311011.84	0.0133	0.0071
Venus	23519-02-10 08:38 G	10311237.74	10311237.86	10311238.01	0.0133	0.0104
Mercury	23521-05-23 11:31 G	10312070.97	10312070.98	10312071.02	0.0133	0.0131
Mercury	23521-08-19 16:48 G	10312159.12	10312159.20	10312159.30	0.0133	0.0110
Mercury	23521-11-15 21:50 G	10312247.30	10312247.41	10312247.54	0.0133	0.0090
Mercury	23522-02-12 02:52 G	10312335.49	10312335.62	10312335.77	0.0133	0.0070
Mercury	23522-05-11 07:55 G	10312423.68	10312423.83	10312423.99	0.0133	0.0050
Mercury	23522-08-07 12:57 G	10312511.88	10312512.04	10312512.20	0.0133	0.0030
Mercury	23522-11-03 17:45 G	10312600.08	10312600.24	10312600.41	0.0133	0.0011
Mercury	23523-01-30 22:33 G	10312688.28	10312688.44	10312688.61	0.0133	0.0009
Mercury	23523-04-29 03:21 G	10312776.49	10312776.64	10312776.80	0.0133	0.0028
Mercury	23523-07-26 08:09 G	10312864.69	10312864.84	10312864.99	0.0133	0.0047
Mercury	23523-10-22 12:43 G	10312952.90	10312953.03	10312953.18	0.0133	0.0067
Mercury	23524-01-18 17:16 G	10313041.11	10313041.22	10313041.36	0.0133	0.0086
Mercury	23524-04-15 22:04 G	10313129.33	10313129.42	10313129.53	0.0133	0.0104
Mercury	23524-07-13 02:38 G	10313217.56	10313217.61	10313217.68	0.0133	0.0123
Mars	23532-09-10 00:14 G	10316198.23	10316198.51	10316198.79	0.0134	0.0011
Saturn	23532-11-18 19:40 G	10316267.69	10316268.32	10316268.95	0.0134	0.0004
Moon	23550-11-21 18:28 G	10322845.19	10322845.27	10322845.39	0.0142	0.0131
Earth	23550-11-21 19:55 G	10322845.22	10322845.33	10322845.45	0.0142	0.0126 *
Earth	23551-11-26 15:50 G	10323214.93	10323215.16	10323215.40	0.0142	0.0058
Moon	23551-11-26 15:50 G	10323214.95	10323215.16	10323215.40	0.0142	0.0058 *

Moon	23552-11-30 12:28 G	10323584.76	10323585.02	10323585.29	0.0143	0.0015
Earth	23552-11-30 12:43 G	10323584.78	10323585.03	10323585.28	0.0143	0.0012 *
Moon	23553-12-05 08:24 G	10323954.66	10323954.85	10323955.08	0.0143	0.0078
Earth	23553-12-05 09:36 G	10323954.71	10323954.90	10323955.12	0.0143	0.0083 *
Venus	23558-02-22 18:00 G	10325495.20	10325495.25	10325495.33	0.0145	0.0137
Venus	23558-10-07 06:00 G	10325721.60	10325721.75	10325721.93	0.0145	0.0094
Venus	23559-05-21 18:00 G	10325948.06	10325948.25	10325948.47	0.0145	0.0051
Venus	23560-01-03 06:14 G	10326174.55	10326174.76	10326174.98	0.0145	0.0008
Venus	23560-08-16 18:28 G	10326401.06	10326401.27	10326401.48	0.0145	0.0037
Venus	23561-03-31 06:28 G	10326627.60	10326627.77	10326627.96	0.0145	0.0080
Venus	23561-11-12 18:57 G	10326854.18	10326854.29	10326854.40	0.0145	0.0124
Mercury	23563-08-19 00:28 G	10327498.45	10327498.52	10327498.58	0.0146	0.0129
Mercury	23563-11-15 05:02 G	10327586.62	10327586.71	10327586.81	0.0146	0.0106
Mercury	23564-02-11 09:50 G	10327674.80	10327674.91	10327675.04	0.0146	0.0084
Mercury	23564-05-09 14:38 G	10327762.98	10327763.11	10327763.25	0.0146	0.0061
Mercury	23564-08-05 19:40 G	10327851.18	10327851.32	10327851.47	0.0146	0.0037
Mercury	23564-11-02 00:43 G	10327939.38	10327939.53	10327939.68	0.0146	0.0014
Mercury	23565-01-29 05:45 G	10328027.59	10328027.74	10328027.89	0.0146	0.0011
Mercury	23565-04-27 10:33 G	10328115.80	10328115.94	10328116.09	0.0146	0.0034
Mercury	23565-07-24 15:50 G	10328204.02	10328204.16	10328204.30	0.0146	0.0058
Mercury	23565-10-20 20:38 G	10328292.25	10328292.36	10328292.50	0.0146	0.0083
Mercury	23566-01-17 01:55 G	10328380.48	10328380.58	10328380.69	0.0146	0.0107
Mercury	23566-04-15 06:57 G	10328468.74	10328468.79	10328468.87	0.0146	0.0132
Mars	23573-01-31 20:38 G	10330952.04	10330952.36	10330952.71	0.0144	0.0024
Moon	23591-05-25 19:12 G	10337640.09	10337640.30	10337640.54	0.0136	0.0074
Earth	23591-05-25 20:38 G	10337640.15	10337640.36	10337640.57	0.0136	0.0076 *
Earth	23592-05-29 07:55 G	10338009.58	10338009.83	10338010.09	0.0136	0.0015
Moon	23592-05-29 08:09 G	10338009.60	10338009.84	10338010.09	0.0136	0.0021 *
Moon	23593-06-02 18:14 G	10338379.03	10338379.26	10338379.51	0.0136	0.0053
Earth	23593-06-02 18:57 G	10338379.06	10338379.29	10338379.54	0.0136	0.0046 *

Moon	23594-06-07 05:02 G	10338748.56	10338748.71	10338748.89	0.0135	0.0100
Earth	23594-06-07 05:31 G	10338748.58	10338748.73	10338748.89	0.0135	0.0106 *
Venus	23599-01-22 11:45 G	10340438.87	10340438.99	10340439.11	0.0134	0.0111
Venus	23599-09-05 17:16 G	10340665.05	10340665.22	10340665.41	0.0134	0.0077
Venus	23600-04-18 23:02 G	10340891.26	10340891.46	10340891.68	0.0134	0.0044
Venus	23600-12-01 04:48 G	10341117.48	10341117.70	10341117.92	0.0133	0.0010
Venus	23601-07-15 10:04 G	10341343.71	10341343.92	10341344.14	0.0133	0.0025
Venus	23602-02-26 15:21 G	10341569.95	10341570.14	10341570.35	0.0133	0.0058
Venus	23602-10-10 20:38 G	10341796.21	10341796.36	10341796.53	0.0133	0.0091
Venus	23603-05-25 02:09 G	10342022.52	10342022.59	10342022.67	0.0133	0.0124
Mercury	23605-06-12 19:26 G	10342772.26	10342772.31	10342772.38	0.0133	0.0123
Mercury	23605-09-09 00:28 G	10342860.43	10342860.52	10342860.64	0.0133	0.0103
Mercury	23605-12-06 05:31 G	10342948.61	10342948.73	10342948.87	0.0133	0.0083
Mercury	23606-03-04 10:33 G	10343036.80	10343036.94	10343037.09	0.0133	0.0063
Mercury	23606-05-31 15:36 G	10343125.00	10343125.15	10343125.31	0.0133	0.0043
Mercury	23606-08-27 20:38 G	10343213.20	10343213.36	10343213.52	0.0133	0.0023
Mercury	23606-11-24 01:26 G	10343301.40	10343301.56	10343301.73	0.0133	0.0005
Mercury	23607-02-20 06:14 G	10343389.60	10343389.76	10343389.93	0.0133	0.0017
Mercury	23607-05-19 11:02 G	10343477.81	10343477.96	10343478.12	0.0133	0.0036
Mercury	23607-08-15 15:50 G	10343566.02	10343566.16	10343566.31	0.0133	0.0055
Mercury	23607-11-11 20:38 G	10343654.23	10343654.36	10343654.50	0.0133	0.0074
Mercury	23608-02-08 01:12 G	10343742.44	10343742.55	10343742.67	0.0133	0.0093
Mercury	23608-05-06 06:00 G	10343830.67	10343830.75	10343830.84	0.0133	0.0111
Mercury	23608-08-02 10:33 G	10343918.91	10343918.94	10343918.97	0.0133	0.0130
Mars	23615-06-06 09:36 G	10346417.73	10346417.90	10346418.08	0.0134	0.0105
Mars	23617-05-05 04:33 G	10347116.44	10347116.69	10347116.95	0.0134	0.0053
Moon	23634-11-22 06:00 G	10353526.62	10353526.75	10353526.92	0.0142	0.0117
Earth	23634-11-22 07:26 G	10353526.71	10353526.81	10353526.96	0.0142	0.0123 *
Earth	23635-11-27 03:50 G	10353896.43	10353896.66	10353896.90	0.0142	0.0054
Moon	23635-11-27 05:02 G	10353896.49	10353896.71	10353896.94	0.0142	0.0056 *

Moon	23636-12-01 00:43 G	10354266.27	10354266.53	10354266.79	0.0143	0.0014
Earth	23636-12-01 00:43 G	10354266.28	10354266.53	10354266.79	0.0143	0.0017 *
Earth	23637-12-05 22:04 G	10354636.23	10354636.42	10354636.63	0.0143	0.0087
Moon	23637-12-05 22:04 G	10354636.25	10354636.42	10354636.62	0.0143	0.0093 *
Venus	23642-06-06 13:55 G	10356279.95	10356280.08	10356280.23	0.0145	0.0111
Venus	23643-01-19 01:55 G	10356506.39	10356506.58	10356506.78	0.0145	0.0068
Venus	23643-09-02 13:55 G	10356732.87	10356733.08	10356733.30	0.0145	0.0025
Venus	23644-04-16 01:55 G	10356959.37	10356959.58	10356959.80	0.0145	0.0019
Venus	23644-11-28 14:09 G	10357185.90	10357186.09	10357186.29	0.0145	0.0062
Venus	23645-07-13 02:09 G	10357412.46	10357412.59	10357412.75	0.0145	0.0106
Mercury	23647-06-12 03:21 G	10358111.63	10358111.64	10358111.66	0.0146	0.0144
Mercury	23647-09-08 07:55 G	10358199.76	10358199.83	10358199.92	0.0146	0.0122
Mercury	23647-12-05 12:43 G	10358287.93	10358288.03	10358288.15	0.0146	0.0099
Mercury	23648-03-02 17:45 G	10358376.11	10358376.24	10358376.37	0.0146	0.0076
Mercury	23648-05-29 22:33 G	10358464.31	10358464.44	10358464.58	0.0146	0.0053
Mercury	23648-08-26 03:36 G	10358552.50	10358552.65	10358552.80	0.0146	0.0029
Mercury	23648-11-22 08:24 G	10358640.70	10358640.85	10358641.00	0.0146	0.0007
Mercury	23649-02-18 13:26 G	10358728.91	10358729.06	10358729.21	0.0146	0.0018
Mercury	23649-05-17 18:28 G	10358817.13	10358817.27	10358817.42	0.0146	0.0042
Mercury	23649-08-13 23:31 G	10358905.35	10358905.48	10358905.62	0.0146	0.0066
Mercury	23649-11-10 04:33 G	10358993.58	10358993.69	10358993.82	0.0146	0.0091
Mercury	23650-02-06 09:36 G	10359081.82	10359081.90	10359082.01	0.0146	0.0116
Mercury	23650-05-05 14:52 G	10359170.09	10359170.12	10359170.17	0.0146	0.0140
Mars	23657-09-28 20:09 G	10361873.07	10361873.34	10361873.65	0.0144	0.0077
Earth	23674-05-21 21:50 G	10367952.37	10367952.41	10367952.49	0.0137	0.0133
Moon	23674-05-21 23:31 G	10367952.45	10367952.48	10367952.55	0.0137	0.0134 *
Moon	23675-05-26 09:07 G	10368321.66	10368321.88	10368322.11	0.0136	0.0074
Earth	23675-05-26 10:19 G	10368321.72	10368321.93	10368322.15	0.0136	0.0071 *
Earth	23676-05-29 22:04 G	10368691.16	10368691.42	10368691.67	0.0136	0.0010
Moon	23676-05-29 23:16 G	10368691.23	10368691.47	10368691.72	0.0136	0.0005 *

Moon	23677-06-03 08:09 G	10369060.60	10369060.84	10369061.10	0.0136	0.0045
Earth	23677-06-03 08:38 G	10369060.64	10369060.86	10369061.11	0.0136	0.0052 *
Earth	23678-06-07 19:12 G	10369430.17	10369430.30	10369430.46	0.0135	0.0111
Moon	23678-06-07 19:55 G	10369430.24	10369430.33	10369430.47	0.0135	0.0119 *
Venus	23682-09-21 23:45 G	10370997.41	10370997.49	10370997.58	0.0134	0.0123
Venus	23683-05-06 05:45 G	10371223.58	10371223.74	10371223.90	0.0134	0.0089
Venus	23683-12-18 11:16 G	10371449.78	10371449.97	10371450.18	0.0134	0.0055
Venus	23684-07-31 17:02 G	10371675.99	10371676.21	10371676.42	0.0133	0.0021
Venus	23685-03-14 22:33 G	10371902.22	10371902.44	10371902.65	0.0133	0.0012
Venus	23685-10-27 03:36 G	10372128.46	10372128.65	10372128.87	0.0133	0.0046
Venus	23686-06-10 09:07 G	10372354.71	10372354.88	10372355.06	0.0133	0.0079
Venus	23687-01-22 14:09 G	10372580.99	10372581.09	10372581.21	0.0133	0.0112
Mercury	23689-07-03 03:21 G	10373473.57	10373473.64	10373473.73	0.0133	0.0115
Mercury	23689-09-29 08:38 G	10373561.75	10373561.86	10373561.98	0.0133	0.0094
Mercury	23689-12-26 13:40 G	10373649.93	10373650.07	10373650.21	0.0133	0.0074
Mercury	23690-03-24 18:43 G	10373738.13	10373738.28	10373738.43	0.0133	0.0054
Mercury	23690-06-20 23:31 G	10373826.33	10373826.48	10373826.65	0.0133	0.0035
Mercury	23690-09-17 04:33 G	10373914.53	10373914.69	10373914.85	0.0133	0.0015
Mercury	23690-12-14 09:21 G	10374002.73	10374002.89	10374003.06	0.0133	0.0006
Mercury	23691-03-12 14:09 G	10374090.94	10374091.09	10374091.26	0.0133	0.0025
Mercury	23691-06-08 18:57 G	10374179.14	10374179.29	10374179.45	0.0133	0.0044
Mercury	23691-09-04 23:45 G	10374267.35	10374267.49	10374267.64	0.0133	0.0063
Mercury	23691-12-02 04:33 G	10374355.57	10374355.69	10374355.82	0.0133	0.0082
Mercury	23692-02-28 09:07 G	10374443.78	10374443.88	10374443.99	0.0133	0.0101
Mercury	23692-05-26 13:40 G	10374532.01	10374532.07	10374532.15	0.0133	0.0120
Mars	23700-01-29 14:52 G	10377335.86	10377336.12	10377336.39	0.0134	0.0041
Mars	23701-12-29 10:19 G	10378034.81	10378034.93	10378035.08	0.0135	0.0118
Moon	23718-11-23 18:57 G	10384208.17	10384208.29	10384208.43	0.0142	0.0123
Earth	23718-11-23 20:38 G	10384208.25	10384208.36	10384208.53	0.0142	0.0118 *
Earth	23719-11-28 17:16 G	10384577.99	10384578.22	10384578.47	0.0142	0.0049

Moon	23719-11-28 18:28 G	10384578.05	10384578.27	10384578.51	0.0142	0.0047 *
Moon	23720-12-02 12:57 G	10384947.79	10384948.04	10384948.30	0.0143	0.0023
Earth	23720-12-02 14:24 G	10384947.85	10384948.10	10384948.35	0.0143	0.0022 *
Earth	23721-12-07 11:31 G	10385317.80	10385317.98	10385318.19	0.0143	0.0093
Moon	23721-12-07 11:45 G	10385317.81	10385317.99	10385318.19	0.0143	0.0087 *
Venus	23726-02-04 22:33 G	10386838.35	10386838.44	10386838.55	0.0145	0.0127
Venus	23726-09-19 10:19 G	10387064.77	10387064.93	10387065.12	0.0145	0.0085
Venus	23727-05-03 22:33 G	10387291.23	10387291.44	10387291.65	0.0145	0.0041
Venus	23727-12-16 10:33 G	10387517.73	10387517.94	10387518.16	0.0145	0.0003
Venus	23728-07-29 22:33 G	10387744.24	10387744.44	10387744.65	0.0145	0.0046
Venus	23729-03-13 10:33 G	10387970.78	10387970.94	10387971.12	0.0145	0.0089
Venus	23729-10-25 22:48 G	10388197.38	10388197.45	10388197.56	0.0145	0.0133
Mercury	23731-07-03 11:16 G	10388812.93	10388812.97	10388813.03	0.0146	0.0135
Mercury	23731-09-29 16:19 G	10388901.09	10388901.18	10388901.27	0.0146	0.0112
Mercury	23731-12-26 20:52 G	10388989.26	10388989.37	10388989.50	0.0146	0.0090
Mercury	23732-03-24 01:40 G	10389077.45	10389077.57	10389077.71	0.0146	0.0067
Mercury	23732-06-20 06:43 G	10389165.64	10389165.78	10389165.93	0.0146	0.0043
Mercury	23732-09-16 11:45 G	10389253.84	10389253.99	10389254.14	0.0146	0.0020
Mercury	23732-12-13 16:33 G	10389342.04	10389342.19	10389342.34	0.0146	0.0006
Mercury	23733-03-11 21:36 G	10389430.25	10389430.40	10389430.55	0.0146	0.0028
Mercury	23733-06-08 02:38 G	10389518.47	10389518.61	10389518.75	0.0146	0.0052
Mercury	23733-09-04 07:40 G	10389606.70	10389606.82	10389606.95	0.0146	0.0076
Mercury	23733-12-01 12:43 G	10389694.93	10389695.03	10389695.15	0.0146	0.0101
Mercury	23734-02-27 17:45 G	10389783.18	10389783.24	10389783.33	0.0146	0.0126
Mars	23740-06-19 06:14 G	10392086.48	10392086.76	10392087.07	0.0145	0.0074
Earth	23758-05-23 12:28 G	10398633.93	10398634.02	10398634.11	0.0137	0.0127
Moon	23758-05-23 14:09 G	10398634.02	10398634.09	10398634.20	0.0137	0.0127 *
Moon	23759-05-27 22:19 G	10399003.21	10399003.43	10399003.67	0.0136	0.0064
Earth	23759-05-28 00:28 G	10399003.31	10399003.52	10399003.75	0.0136	0.0066 *
Earth	23760-05-31 12:00 G	10399372.75	10399373.00	10399373.26	0.0136	0.0005

Moon	23760-05-31 13:26 G	10399372.81	10399373.06	10399373.31	0.0136	0.0010	*
Moon	23761-06-04 21:21 G	10399742.16	10399742.39	10399742.63	0.0135	0.0063	
Earth	23761-06-04 23:02 G	10399742.24	10399742.46	10399742.70	0.0135	0.0056	*
Earth	23762-06-09 09:21 G	10400111.78	10400111.89	10400112.04	0.0135	0.0116	
Moon	23762-06-09 10:19 G	10400111.81	10400111.93	10400112.09	0.0135	0.0110	*
Venus	23767-01-04 17:45 G	10401782.10	10401782.24	10401782.39	0.0134	0.0101	
Venus	23767-08-18 23:16 G	10402008.29	10402008.47	10402008.67	0.0134	0.0067	
Venus	23768-04-01 05:02 G	10402234.51	10402234.71	10402234.93	0.0133	0.0034	
Venus	23768-11-13 10:48 G	10402460.73	10402460.95	10402461.16	0.0133	0.0003	
Venus	23769-06-27 15:50 G	10402686.96	10402687.16	10402687.38	0.0133	0.0034	
Venus	23770-02-08 21:07 G	10402913.20	10402913.38	10402913.58	0.0133	0.0067	
Venus	23770-09-23 02:09 G	10403139.46	10403139.59	10403139.75	0.0133	0.0101	
Venus	23771-05-07 07:40 G	10403365.82	10403365.82	10403365.83	0.0133	0.0133	
Mercury	23773-04-27 06:00 G	10404086.72	10404086.75	10404086.82	0.0133	0.0127	
Mercury	23773-07-24 11:31 G	10404174.88	10404174.98	10404175.08	0.0133	0.0106	
Mercury	23773-10-20 16:33 G	10404263.07	10404263.19	10404263.32	0.0133	0.0086	
Mercury	23774-01-16 21:36 G	10404351.26	10404351.40	10404351.55	0.0133	0.0066	
Mercury	23774-04-15 02:38 G	10404439.45	10404439.61	10404439.76	0.0133	0.0046	
Mercury	23774-07-12 07:26 G	10404527.65	10404527.81	10404527.98	0.0133	0.0026	
Mercury	23774-10-08 12:28 G	10404615.86	10404616.02	10404616.18	0.0133	0.0006	
Mercury	23775-01-04 17:16 G	10404704.06	10404704.22	10404704.39	0.0133	0.0013	
Mercury	23775-04-02 22:04 G	10404792.27	10404792.42	10404792.58	0.0133	0.0033	
Mercury	23775-06-30 02:52 G	10404880.48	10404880.62	10404880.77	0.0133	0.0052	
Mercury	23775-09-26 07:40 G	10404968.69	10404968.82	10404968.96	0.0133	0.0071	
Mercury	23775-12-23 12:14 G	10405056.90	10405057.01	10405057.14	0.0133	0.0090	
Mercury	23776-03-20 17:02 G	10405145.13	10405145.21	10405145.31	0.0133	0.0109	
Mercury	23776-06-16 21:50 G	10405233.37	10405233.41	10405233.45	0.0133	0.0127	
Mars	23784-09-23 19:40 G	10408254.05	10408254.32	10408254.60	0.0134	0.0023	
Moon	23802-11-25 04:48 G	10414889.55	10414889.70	10414889.89	0.0142	0.0108	
Earth	23802-11-25 07:55 G	10414889.68	10414889.83	10414889.98	0.0142	0.0114	*

Earth	23803-11-30 03:50 G	10415259.43	10415259.66	10415259.91	0.0142	0.0045
Moon	23803-11-30 06:14 G	10415259.53	10415259.76	10415260.00	0.0142	0.0049 *
Moon	23804-12-03 23:31 G	10415629.22	10415629.48	10415629.74	0.0143	0.0024
Earth	23804-12-04 00:43 G	10415629.29	10415629.53	10415629.79	0.0143	0.0026 *
Earth	23805-12-08 22:19 G	10415999.25	10415999.43	10415999.63	0.0143	0.0096
Moon	23805-12-08 23:31 G	10415999.32	10415999.48	10415999.67	0.0143	0.0102 *
Venus	23810-05-20 17:02 G	10417623.07	10417623.21	10417623.37	0.0145	0.0103
Venus	23811-01-02 05:02 G	10417849.51	10417849.71	10417849.91	0.0145	0.0060
Venus	23811-08-16 17:02 G	10418075.99	10418076.21	10418076.42	0.0145	0.0017
Venus	23812-03-30 05:02 G	10418302.50	10418302.71	10418302.93	0.0145	0.0026
Venus	23812-11-11 17:16 G	10418529.03	10418529.22	10418529.41	0.0145	0.0070
Venus	23813-06-26 05:16 G	10418755.60	10418755.72	10418755.87	0.0145	0.0113
Mercury	23815-07-24 18:43 G	10419514.22	10419514.28	10419514.36	0.0146	0.0129
Mercury	23815-10-20 23:31 G	10419602.39	10419602.48	10419602.59	0.0146	0.0106
Mercury	23816-01-17 04:19 G	10419690.57	10419690.68	10419690.81	0.0146	0.0083
Mercury	23816-04-14 09:21 G	10419778.76	10419778.89	10419779.03	0.0146	0.0059
Mercury	23816-07-11 14:09 G	10419866.95	10419867.09	10419867.24	0.0146	0.0036
Mercury	23816-10-07 19:12 G	10419955.15	10419955.30	10419955.45	0.0146	0.0013
Mercury	23817-01-04 00:14 G	10420043.36	10420043.51	10420043.66	0.0146	0.0011
Mercury	23817-04-02 05:02 G	10420131.57	10420131.71	10420131.86	0.0146	0.0036
Mercury	23817-06-29 10:04 G	10420219.79	10420219.92	10420220.07	0.0146	0.0060
Mercury	23817-09-25 15:21 G	10420308.02	10420308.14	10420308.27	0.0146	0.0084
Mercury	23817-12-22 20:38 G	10420396.26	10420396.36	10420396.46	0.0146	0.0108
Mercury	23818-03-21 01:40 G	10420484.51	10420484.57	10420484.63	0.0146	0.0133
Mars	23825-02-15 04:33 G	10423007.36	10423007.69	10423008.03	0.0144	0.0025
Earth	23842-05-25 02:24 G	10429315.51	10429315.60	10429315.74	0.0137	0.0122
Moon	23842-05-25 05:02 G	10429315.62	10429315.71	10429315.83	0.0137	0.0124 *
Moon	23843-05-29 12:14 G	10429684.80	10429685.01	10429685.26	0.0136	0.0063
Earth	23843-05-29 14:38 G	10429684.90	10429685.11	10429685.35	0.0136	0.0060 *
Earth	23844-06-02 02:38 G	10430054.35	10430054.61	10430054.86	0.0136	0.0002

Moon	23844-06-02 04:48 G	10430054.46	10430054.70	10430054.95	0.0136	0.0006 *
Moon	23845-06-06 11:45 G	10430423.76	10430423.99	10430424.24	0.0135	0.0056
Earth	23845-06-06 13:26 G	10430423.85	10430424.06	10430424.30	0.0135	0.0063 *
Earth	23846-06-10 23:45 G	10430793.41	10430793.49	10430793.62	0.0135	0.0122
Moon	23846-06-11 01:55 G	10430793.52	10430793.58	10430793.66	0.0135	0.0129 *
Venus	23850-09-05 05:45 G	10432340.64	10432340.74	10432340.87	0.0134	0.0113
Venus	23851-04-19 12:00 G	10432566.82	10432567.00	10432567.18	0.0134	0.0079
Venus	23851-12-01 17:16 G	10432793.03	10432793.22	10432793.44	0.0134	0.0046
Venus	23852-07-14 23:02 G	10433019.24	10433019.46	10433019.68	0.0133	0.0012
Venus	23853-02-26 04:19 G	10433245.47	10433245.68	10433245.90	0.0133	0.0022
Venus	23853-10-10 09:36 G	10433471.71	10433471.90	10433472.10	0.0133	0.0055
Venus	23854-05-24 14:52 G	10433697.96	10433698.12	10433698.29	0.0133	0.0088
Venus	23855-01-05 19:55 G	10433924.25	10433924.33	10433924.43	0.0133	0.0121
Mercury	23857-05-18 14:09 G	10434788.03	10434788.09	10434788.18	0.0133	0.0118
Mercury	23857-08-14 19:12 G	10434876.20	10434876.30	10434876.43	0.0133	0.0098
Mercury	23857-11-11 00:43 G	10434964.39	10434964.53	10434964.66	0.0133	0.0077
Mercury	23858-02-07 05:45 G	10435052.59	10435052.74	10435052.89	0.0133	0.0057
Mercury	23858-05-06 10:33 G	10435140.79	10435140.94	10435141.10	0.0133	0.0037
Mercury	23858-08-02 15:36 G	10435228.99	10435229.15	10435229.31	0.0133	0.0018
Mercury	23858-10-29 20:24 G	10435317.19	10435317.35	10435317.52	0.0133	0.0004
Mercury	23859-01-26 01:26 G	10435405.40	10435405.56	10435405.72	0.0133	0.0022
Mercury	23859-04-24 06:14 G	10435493.60	10435493.76	10435493.91	0.0133	0.0041
Mercury	23859-07-21 11:02 G	10435581.81	10435581.96	10435582.10	0.0133	0.0060
Mercury	23859-10-17 15:36 G	10435670.03	10435670.15	10435670.29	0.0133	0.0079
Mercury	23860-01-13 20:24 G	10435758.25	10435758.35	10435758.46	0.0133	0.0098
Mercury	23860-04-11 00:57 G	10435846.47	10435846.54	10435846.62	0.0133	0.0117
Mars	23867-06-21 06:14 G	10438473.54	10438473.76	10438474.02	0.0134	0.0072
Mars	23869-05-20 02:24 G	10439172.39	10439172.60	10439172.82	0.0134	0.0088
Moon	23886-11-25 16:19 G	10445571.05	10445571.18	10445571.34	0.0142	0.0117
Earth	23886-11-25 19:26 G	10445571.16	10445571.31	10445571.48	0.0142	0.0110 *

Earth	23887-11-30 15:36 G	10445940.92	10445941.15	10445941.41	0.0142	0.0042
Moon	23887-11-30 18:14 G	10445941.03	10445941.26	10445941.50	0.0142	0.0038 *
Moon	23888-12-04 10:33 G	10446310.68	10446310.94	10446311.19	0.0143	0.0029
Earth	23888-12-04 12:57 G	10446310.79	10446311.04	10446311.29	0.0143	0.0030 *
Earth	23889-12-09 10:04 G	10446680.76	10446680.92	10446681.11	0.0143	0.0101
Moon	23889-12-09 11:31 G	10446680.81	10446680.98	10446681.17	0.0143	0.0096 *
Venus	23894-01-18 00:00 G	10448181.40	10448181.50	10448181.64	0.0145	0.0121
Venus	23894-09-01 12:00 G	10448407.83	10448408.00	10448408.19	0.0145	0.0078
Venus	23895-04-16 00:00 G	10448634.29	10448634.50	10448634.72	0.0145	0.0035
Venus	23895-11-28 12:14 G	10448860.79	10448861.01	10448861.22	0.0145	0.0008
Venus	23896-07-12 00:00 G	10449087.31	10449087.50	10449087.71	0.0145	0.0052
Venus	23897-02-23 12:14 G	10449313.85	10449314.01	10449314.18	0.0145	0.0095
Venus	23897-10-08 00:43 G	10449540.47	10449540.53	10449540.60	0.0145	0.0138
Mercury	23899-05-17 21:36 G	10450127.39	10450127.40	10450127.43	0.0146	0.0144
Mercury	23899-08-14 02:38 G	10450215.53	10450215.61	10450215.69	0.0146	0.0121
Mercury	23899-11-10 07:12 G	10450303.70	10450303.80	10450303.91	0.0146	0.0098
Mercury	23900-02-06 12:00 G	10450391.88	10450392.00	10450392.13	0.0146	0.0075
Mercury	23900-05-05 17:02 G	10450480.07	10450480.21	10450480.35	0.0146	0.0052
Mercury	23900-08-01 21:50 G	10450568.27	10450568.41	10450568.56	0.0146	0.0029
Mercury	23900-10-29 02:52 G	10450656.47	10450656.62	10450656.77	0.0146	0.0005
Mercury	23901-01-25 07:55 G	10450744.68	10450744.83	10450744.98	0.0146	0.0019
Mercury	23901-04-23 12:57 G	10450832.89	10450833.04	10450833.18	0.0146	0.0043
Mercury	23901-07-20 18:00 G	10450921.11	10450921.25	10450921.38	0.0146	0.0067
Mercury	23901-10-16 22:48 G	10451009.34	10451009.45	10451009.58	0.0146	0.0092
Mercury	23902-01-13 04:04 G	10451097.59	10451097.67	10451097.77	0.0146	0.0116
Mercury	23902-04-11 09:21 G	10451185.86	10451185.89	10451185.93	0.0146	0.0141
Mars	23907-11-06 09:36 G	10453220.77	10453220.90	10453221.07	0.0145	0.0129
Mars	23909-10-14 01:40 G	10453928.42	10453928.57	10453928.76	0.0144	0.0125
Earth	23926-05-26 16:19 G	10459997.07	10459997.18	10459997.33	0.0137	0.0117
Moon	23926-05-26 19:26 G	10459997.19	10459997.31	10459997.45	0.0137	0.0115 *

Moon	23927-05-31 01:40 G	10460366.35	10460366.57	10460366.82	0.0136	0.0055
Earth	23927-05-31 04:48 G	10460366.48	10460366.70	10460366.94	0.0136	0.0055 *
Earth	23928-06-03 16:33 G	10460735.94	10460736.19	10460736.45	0.0136	0.0007
Moon	23928-06-03 18:57 G	10460736.04	10460736.29	10460736.54	0.0136	0.0002 *
Moon	23929-06-08 00:57 G	10461105.33	10461105.54	10461105.77	0.0136	0.0074
Earth	23929-06-08 03:50 G	10461105.44	10461105.66	10461105.88	0.0136	0.0068 *
Earth	23930-06-12 14:38 G	10461475.03	10461475.11	10461475.19	0.0135	0.0128
Moon	23930-06-12 16:19 G	10461475.08	10461475.18	10461475.30	0.0135	0.0121 *
Venus	23934-05-06 18:00 G	10462899.19	10462899.25	10462899.34	0.0134	0.0125
Venus	23934-12-19 00:00 G	10463125.35	10463125.50	10463125.67	0.0134	0.0091
Venus	23935-08-02 05:31 G	10463351.54	10463351.73	10463351.94	0.0134	0.0058
Venus	23936-03-15 11:16 G	10463577.76	10463577.97	10463578.19	0.0133	0.0024
Venus	23936-10-27 16:33 G	10463803.98	10463804.19	10463804.42	0.0133	0.0011
Venus	23937-06-10 22:04 G	10464030.22	10464030.42	10464030.63	0.0133	0.0043
Venus	23938-01-23 03:07 G	10464256.46	10464256.63	10464256.82	0.0133	0.0077
Venus	23938-09-06 08:24 G	10464482.73	10464482.85	10464482.98	0.0133	0.0109
Mercury	23941-03-12 17:16 G	10465401.19	10465401.22	10465401.26	0.0133	0.0129
Mercury	23941-06-08 22:19 G	10465489.35	10465489.43	10465489.54	0.0133	0.0109
Mercury	23941-09-05 03:21 G	10465577.53	10465577.64	10465577.78	0.0133	0.0089
Mercury	23941-12-02 08:38 G	10465665.72	10465665.86	10465666.01	0.0133	0.0068
Mercury	23942-02-28 13:40 G	10465753.92	10465754.07	10465754.23	0.0133	0.0048
Mercury	23942-05-27 18:43 G	10465842.12	10465842.28	10465842.44	0.0133	0.0028
Mercury	23942-08-23 23:45 G	10465930.32	10465930.49	10465930.65	0.0133	0.0009
Mercury	23942-11-20 04:33 G	10466018.53	10466018.69	10466018.86	0.0133	0.0011
Mercury	23943-02-16 09:21 G	10466106.74	10466106.89	10466107.05	0.0133	0.0031
Mercury	23943-05-15 14:09 G	10466194.94	10466195.09	10466195.25	0.0133	0.0050
Mercury	23943-08-11 18:57 G	10466283.16	10466283.29	10466283.43	0.0133	0.0069
Mercury	23943-11-07 23:45 G	10466371.37	10466371.49	10466371.61	0.0133	0.0088
Mercury	23944-02-04 04:19 G	10466459.59	10466459.68	10466459.78	0.0133	0.0107
Mercury	23944-05-02 08:52 G	10466547.83	10466547.87	10466547.93	0.0133	0.0126

Mars	23952-02-14 13:26 G	10469391.78	10469392.06	10469392.34	0.0134	0.0007
Moon	23970-11-27 03:07 G	10476252.44	10476252.63	10476252.81	0.0142	0.0099
Earth	23970-11-27 06:00 G	10476252.60	10476252.75	10476252.93	0.0142	0.0107 *
Earth	23971-12-02 02:24 G	10476622.36	10476622.60	10476622.85	0.0142	0.0037
Moon	23971-12-02 05:31 G	10476622.50	10476622.73	10476622.98	0.0142	0.0042 *
Moon	23972-12-05 20:52 G	10476992.12	10476992.37	10476992.62	0.0143	0.0033
Earth	23972-12-05 23:16 G	10476992.23	10476992.47	10476992.72	0.0143	0.0033 *
Earth	23973-12-10 20:38 G	10477362.19	10477362.36	10477362.54	0.0143	0.0104
Moon	23973-12-10 22:48 G	10477362.31	10477362.45	10477362.63	0.0143	0.0109 *
Venus	23977-09-18 06:00 G	10478739.72	10478739.75	10478739.83	0.0144	0.0140
Venus	23978-05-02 17:45 G	10478966.10	10478966.24	10478966.42	0.0145	0.0098
Venus	23978-12-15 05:45 G	10479192.55	10479192.74	10479192.95	0.0145	0.0055
Venus	23979-07-29 17:45 G	10479419.03	10479419.24	10479419.46	0.0145	0.0012
Venus	23980-03-12 05:45 G	10479645.53	10479645.74	10479645.96	0.0145	0.0031
Venus	23980-10-24 18:00 G	10479872.07	10479872.25	10479872.44	0.0145	0.0075
Venus	23981-06-08 06:28 G	10480098.64	10480098.77	10480098.89	0.0145	0.0118
Mercury	23983-06-08 05:02 G	10480828.67	10480828.71	10480828.75	0.0146	0.0138
Mercury	23983-09-04 09:36 G	10480916.82	10480916.90	10480917.00	0.0146	0.0116
Mercury	23983-12-01 14:24 G	10481004.99	10481005.10	10481005.22	0.0146	0.0093
Mercury	23984-02-27 19:12 G	10481093.18	10481093.30	10481093.44	0.0146	0.0070
Mercury	23984-05-26 00:14 G	10481181.37	10481181.51	10481181.65	0.0146	0.0046
Mercury	23984-08-22 05:02 G	10481269.57	10481269.71	10481269.86	0.0146	0.0023
Mercury	23984-11-18 10:04 G	10481357.77	10481357.92	10481358.07	0.0146	0.0001
Mercury	23985-02-14 15:07 G	10481445.98	10481446.13	10481446.28	0.0146	0.0025
Mercury	23985-05-13 20:09 G	10481534.20	10481534.34	10481534.48	0.0146	0.0049
Mercury	23985-08-10 01:12 G	10481622.42	10481622.55	10481622.68	0.0146	0.0073
Mercury	23985-11-06 06:00 G	10481710.65	10481710.75	10481710.88	0.0146	0.0098
Mercury	23986-02-02 11:16 G	10481798.90	10481798.97	10481799.06	0.0146	0.0122
Mars	23992-07-03 01:26 G	10484141.24	10484141.56	10484141.90	0.0145	0.0033

25TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 25th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	24010-05-27 05:31	G	10490678.61	10490678.73	10490678.90	0.0137	0.0112	
Moon	24010-05-27 09:07	G	10490678.75	10490678.88	10490679.02	0.0137	0.0114	*
Moon	24011-05-31 15:07	G	10491047.90	10491048.13	10491048.38	0.0136	0.0051	
Earth	24011-05-31 18:14	G	10491048.03	10491048.26	10491048.51	0.0136	0.0050	*
Earth	24012-06-04 06:14	G	10491417.51	10491417.76	10491418.02	0.0136	0.0013	
Moon	24012-06-04 09:21	G	10491417.65	10491417.89	10491418.14	0.0136	0.0016	*
Moon	24013-06-08 15:07	G	10491786.91	10491787.13	10491787.36	0.0136	0.0067	
Earth	24013-06-08 17:31	G	10491787.03	10491787.23	10491787.46	0.0136	0.0074	*
Earth	24014-06-13 04:04	G	10492156.65	10492156.67	10492156.73	0.0135	0.0134	
Venus	24018-08-18 12:00	G	10493683.87	10493684.00	10493684.15	0.0134	0.0103	
Venus	24019-04-01 17:45	G	10493910.06	10493910.24	10493910.44	0.0134	0.0070	
Venus	24019-11-13 23:31	G	10494136.27	10494136.48	10494136.69	0.0134	0.0036	
Venus	24020-06-27 05:02	G	10494362.49	10494362.71	10494362.93	0.0134	0.0002	
Venus	24021-02-08 10:19	G	10494588.72	10494588.93	10494589.15	0.0133	0.0031	
Venus	24021-09-22 15:36	G	10494814.97	10494815.15	10494815.35	0.0133	0.0064	
Venus	24022-05-06 20:52	G	10495041.24	10495041.37	10495041.53	0.0133	0.0098	
Venus	24022-12-19 02:09	G	10495267.56	10495267.59	10495267.64	0.0133	0.0130	
Mercury	24025-04-02 01:26	G	10496102.50	10496102.56	10496102.64	0.0133	0.0120	
Mercury	24025-06-29 06:28	G	10496190.67	10496190.77	10496190.89	0.0133	0.0100	
Mercury	24025-09-25 11:31	G	10496278.86	10496278.98	10496279.13	0.0133	0.0080	

Mercury	24025-12-22 17:02 G	10496367.06	10496367.21	10496367.36	0.0133	0.0059
Mercury	24026-03-20 21:50 G	10496455.26	10496455.41	10496455.57	0.0133	0.0039
Mercury	24026-06-17 02:52 G	10496543.46	10496543.62	10496543.79	0.0133	0.0019
Mercury	24026-09-13 07:55 G	10496631.66	10496631.83	10496631.99	0.0133	0.0001
Mercury	24026-12-10 12:43 G	10496719.87	10496720.03	10496720.19	0.0133	0.0020
Mercury	24027-03-08 17:31 G	10496808.08	10496808.23	10496808.39	0.0133	0.0040
Mercury	24027-06-04 22:19 G	10496896.29	10496896.43	10496896.58	0.0133	0.0059
Mercury	24027-09-01 03:07 G	10496984.51	10496984.63	10496984.77	0.0133	0.0078
Mercury	24027-11-28 07:55 G	10497072.72	10497072.83	10497072.94	0.0133	0.0097
Mercury	24028-02-24 12:28 G	10497160.95	10497161.02	10497161.11	0.0133	0.0116
Mars	24034-11-10 01:26 G	10499611.38	10499611.56	10499611.75	0.0134	0.0101
Mars	24036-10-08 21:21 G	10500310.15	10500310.39	10500310.65	0.0134	0.0059
Moon	24054-11-27 17:02 G	10506934.06	10506934.21	10506934.39	0.0142	0.0108
Earth	24054-11-27 20:38 G	10506934.19	10506934.36	10506934.54	0.0142	0.0101 *
Earth	24055-12-02 16:48 G	10507303.95	10507304.20	10507304.44	0.0142	0.0032
Moon	24055-12-02 19:55 G	10507304.09	10507304.33	10507304.58	0.0142	0.0027 *
Moon	24056-12-06 09:50 G	10507673.67	10507673.91	10507674.17	0.0143	0.0038
Earth	24056-12-06 13:12 G	10507673.82	10507674.05	10507674.31	0.0143	0.0040 *
Earth	24057-12-11 10:19 G	10508043.78	10508043.93	10508044.10	0.0143	0.0110
Moon	24057-12-11 12:57 G	10508043.88	10508044.04	10508044.21	0.0143	0.0106 *
Venus	24061-12-31 02:24 G	10509524.47	10509524.60	10509524.74	0.0145	0.0114
Venus	24062-08-14 13:55 G	10509750.90	10509751.08	10509751.28	0.0145	0.0072
Venus	24063-03-29 01:55 G	10509977.37	10509977.58	10509977.80	0.0145	0.0029
Venus	24063-11-10 13:55 G	10510203.87	10510204.08	10510204.30	0.0145	0.0014
Venus	24064-06-24 01:55 G	10510430.39	10510430.58	10510430.79	0.0145	0.0057
Venus	24065-02-05 13:55 G	10510656.94	10510657.08	10510657.25	0.0145	0.0101
Venus	24065-09-20 02:24 G	10510883.58	10510883.60	10510883.64	0.0145	0.0144
Mercury	24067-06-28 12:57 G	10511529.98	10511530.04	10511530.10	0.0146	0.0130
Mercury	24067-09-24 17:45 G	10511618.14	10511618.24	10511618.34	0.0146	0.0107
Mercury	24067-12-21 22:19 G	10511706.32	10511706.43	10511706.56	0.0146	0.0084

Mercury	24068-03-19 03:21 G	10511794.50	10511794.64	10511794.77	0.0146	0.0061
Mercury	24068-06-15 08:09 G	10511882.70	10511882.84	10511882.98	0.0146	0.0038
Mercury	24068-09-11 12:57 G	10511970.90	10511971.04	10511971.19	0.0146	0.0015
Mercury	24068-12-08 18:00 G	10512059.10	10512059.25	10512059.40	0.0146	0.0010
Mercury	24069-03-06 23:02 G	10512147.31	10512147.46	10512147.61	0.0146	0.0033
Mercury	24069-06-03 04:04 G	10512235.53	10512235.67	10512235.81	0.0146	0.0057
Mercury	24069-08-30 09:07 G	10512323.76	10512323.88	10512324.01	0.0146	0.0082
Mercury	24069-11-26 13:55 G	10512411.99	10512412.08	10512412.20	0.0146	0.0107
Mercury	24070-02-22 19:12 G	10512500.25	10512500.30	10512500.38	0.0146	0.0131
Mars	24077-02-27 23:31 G	10515062.20	10515062.48	10515062.80	0.0145	0.0068
Earth	24094-05-27 19:12 G	10521360.16	10521360.30	10521360.48	0.0137	0.0107
Moon	24094-05-27 23:02 G	10521360.31	10521360.46	10521360.63	0.0137	0.0104 *
Moon	24095-06-01 04:33 G	10521729.46	10521729.69	10521729.95	0.0136	0.0046
Earth	24095-06-01 08:09 G	10521729.61	10521729.84	10521730.09	0.0136	0.0045 *
Earth	24096-06-04 20:09 G	10522099.09	10522099.34	10522099.60	0.0136	0.0018
Moon	24096-06-04 23:16 G	10522099.22	10522099.47	10522099.72	0.0136	0.0013 *
Moon	24097-06-09 04:04 G	10522468.48	10522468.67	10522468.89	0.0136	0.0085
Earth	24097-06-09 07:26 G	10522468.62	10522468.81	10522469.03	0.0136	0.0079 *
Moon	24098-06-13 20:52 G	10522838.34	10522838.37	10522838.44	0.0135	0.0133
Venus	24102-04-19 00:00 G	10524242.40	10524242.50	10524242.62	0.0134	0.0116
Venus	24102-12-01 05:45 G	10524468.58	10524468.74	10524468.93	0.0134	0.0082
Venus	24103-07-15 11:31 G	10524694.78	10524694.98	10524695.19	0.0134	0.0048
Venus	24104-02-26 17:02 G	10524921.00	10524921.21	10524921.43	0.0134	0.0015
Venus	24104-10-09 22:33 G	10525147.23	10525147.44	10525147.66	0.0134	0.0019
Venus	24105-05-24 04:04 G	10525373.48	10525373.67	10525373.88	0.0133	0.0053
Venus	24106-01-05 09:21 G	10525599.73	10525599.89	10525600.06	0.0133	0.0086
Venus	24106-08-19 14:38 G	10525826.02	10525826.11	10525826.21	0.0133	0.0119
Mercury	24109-01-25 04:33 G	10526715.67	10526715.69	10526715.72	0.0133	0.0131
Mercury	24109-04-23 09:36 G	10526803.82	10526803.90	10526804.00	0.0133	0.0111
Mercury	24109-07-20 14:38 G	10526892.00	10526892.11	10526892.25	0.0133	0.0091

Mercury	24109-10-16 19:55 G	10526980.20	10526980.33	10526980.48	0.0133	0.0070
Mercury	24110-01-13 01:12 G	10527068.39	10527068.55	10527068.70	0.0133	0.0050
Mercury	24110-04-11 06:14 G	10527156.60	10527156.76	10527156.92	0.0133	0.0030
Mercury	24110-07-08 11:02 G	10527244.80	10527244.96	10527245.13	0.0133	0.0011
Mercury	24110-10-04 16:04 G	10527333.01	10527333.17	10527333.33	0.0133	0.0010
Mercury	24110-12-31 20:52 G	10527421.21	10527421.37	10527421.53	0.0133	0.0029
Mercury	24111-03-30 01:40 G	10527509.42	10527509.57	10527509.73	0.0133	0.0049
Mercury	24111-06-26 06:28 G	10527597.64	10527597.77	10527597.92	0.0133	0.0068
Mercury	24111-09-22 11:16 G	10527685.86	10527685.97	10527686.10	0.0133	0.0087
Mercury	24111-12-19 16:04 G	10527774.08	10527774.17	10527774.27	0.0133	0.0106
Mercury	24112-03-16 20:38 G	10527862.32	10527862.36	10527862.42	0.0133	0.0125
Mars	24119-07-06 11:02 G	10530529.69	10530529.96	10530530.24	0.0134	0.0035
Mars	24121-06-04 05:45 G	10531228.66	10531228.74	10531228.84	0.0134	0.0126
Jupiter	24137-08-18 12:57 G	10537147.72	10537148.04	10537148.44	0.0141	0.0097
Moon	24138-11-29 06:57 G	10537615.60	10537615.79	10537616.00	0.0142	0.0088
Earth	24138-11-29 10:33 G	10537615.77	10537615.94	10537616.14	0.0142	0.0095 *
Earth	24139-12-04 06:43 G	10537985.53	10537985.78	10537986.03	0.0142	0.0026
Moon	24139-12-04 10:04 G	10537985.68	10537985.92	10537986.18	0.0142	0.0031 *
Moon	24140-12-07 23:45 G	10538355.26	10538355.49	10538355.75	0.0143	0.0046
Earth	24140-12-08 02:52 G	10538355.40	10538355.62	10538355.88	0.0143	0.0046 *
Earth	24141-12-13 00:00 G	10538725.37	10538725.50	10538725.66	0.0143	0.0116
Moon	24141-12-13 03:07 G	10538725.51	10538725.63	10538725.78	0.0143	0.0119 *
Venus	24145-08-31 10:33 G	10540082.86	10540082.94	10540083.04	0.0144	0.0131
Venus	24146-04-14 22:04 G	10540309.26	10540309.42	10540309.60	0.0145	0.0089
Venus	24146-11-27 09:50 G	10540535.72	10540535.91	10540536.13	0.0145	0.0047
Venus	24147-07-11 21:50 G	10540762.20	10540762.41	10540762.63	0.0145	0.0005
Venus	24148-02-23 09:50 G	10540988.71	10540988.91	10540989.12	0.0145	0.0040
Venus	24148-10-06 21:50 G	10541215.25	10541215.41	10541215.60	0.0145	0.0083
Venus	24149-05-21 10:19 G	10541441.83	10541441.93	10541442.04	0.0145	0.0126
Mercury	24151-04-22 15:50 G	10542143.16	10542143.16	10542143.19	0.0146	0.0145

Mercury	24151-07-19 20:38 G	10542231.29	10542231.36	10542231.45	0.0146	0.0122
Mercury	24151-10-16 01:40 G	10542319.46	10542319.57	10542319.67	0.0146	0.0099
Mercury	24152-01-12 06:14 G	10542407.64	10542407.76	10542407.89	0.0146	0.0076
Mercury	24152-04-09 11:16 G	10542495.83	10542495.97	10542496.10	0.0146	0.0053
Mercury	24152-07-06 16:04 G	10542584.02	10542584.17	10542584.31	0.0146	0.0030
Mercury	24152-10-02 20:52 G	10542672.22	10542672.37	10542672.52	0.0146	0.0006
Mercury	24152-12-30 01:55 G	10542760.43	10542760.58	10542760.73	0.0146	0.0018
Mercury	24153-03-28 06:43 G	10542848.64	10542848.78	10542848.93	0.0146	0.0042
Mercury	24153-06-24 11:45 G	10542936.86	10542936.99	10542937.13	0.0146	0.0066
Mercury	24153-09-20 17:02 G	10543025.09	10543025.21	10543025.33	0.0146	0.0090
Mercury	24153-12-17 21:50 G	10543113.33	10543113.41	10543113.51	0.0146	0.0115
Mercury	24154-03-16 03:07 G	10543201.59	10543201.63	10543201.68	0.0146	0.0139
Mars	24159-11-19 05:45 G	10545275.48	10545275.74	10545276.01	0.0145	0.0089
Earth	24178-05-29 09:07 G	10552041.73	10552041.88	10552042.07	0.0137	0.0102
Moon	24178-05-29 12:43 G	10552041.89	10552042.03	10552042.21	0.0137	0.0105 *
Moon	24179-06-02 18:28 G	10552411.04	10552411.27	10552411.53	0.0137	0.0040
Earth	24179-06-02 22:19 G	10552411.19	10552411.43	10552411.68	0.0137	0.0039 *
Earth	24180-06-06 10:19 G	10552780.68	10552780.93	10552781.19	0.0136	0.0023
Moon	24180-06-06 13:55 G	10552780.84	10552781.08	10552781.33	0.0136	0.0026 *
Moon	24181-06-10 18:28 G	10553150.07	10553150.27	10553150.49	0.0136	0.0079
Earth	24181-06-10 21:36 G	10553150.22	10553150.40	10553150.62	0.0136	0.0085 *
Venus	24185-12-17 12:14 G	10554800.95	10554801.01	10554801.08	0.0134	0.0127
Venus	24186-07-31 17:45 G	10555027.11	10555027.24	10555027.42	0.0134	0.0094
Venus	24187-03-14 23:45 G	10555253.31	10555253.49	10555253.69	0.0134	0.0060
Venus	24187-10-27 05:31 G	10555479.52	10555479.73	10555479.95	0.0134	0.0027
Venus	24188-06-09 11:16 G	10555705.75	10555705.97	10555706.19	0.0134	0.0007
Venus	24189-01-21 16:33 G	10555931.99	10555932.19	10555932.40	0.0133	0.0041
Venus	24189-09-04 21:50 G	10556158.24	10556158.41	10556158.60	0.0133	0.0074
Venus	24190-04-19 03:07 G	10556384.52	10556384.63	10556384.78	0.0133	0.0108
Mercury	24193-02-14 12:43 G	10557416.97	10557417.03	10557417.10	0.0133	0.0122

Mercury	24193-05-13 17:45 G	10557505.15	10557505.24	10557505.36	0.0133	0.0102
Mercury	24193-08-09 23:02 G	10557593.34	10557593.46	10557593.60	0.0133	0.0081
Mercury	24193-11-06 04:04 G	10557681.53	10557681.67	10557681.83	0.0133	0.0061
Mercury	24194-02-02 09:21 G	10557769.73	10557769.89	10557770.05	0.0133	0.0041
Mercury	24194-05-01 14:24 G	10557857.94	10557858.10	10557858.26	0.0133	0.0021
Mercury	24194-07-28 19:26 G	10557946.14	10557946.31	10557946.47	0.0133	0.0002
Mercury	24194-10-25 00:14 G	10558034.35	10558034.51	10558034.68	0.0133	0.0019
Mercury	24195-01-21 05:02 G	10558122.56	10558122.71	10558122.87	0.0133	0.0039
Mercury	24195-04-19 09:50 G	10558210.77	10558210.91	10558211.07	0.0133	0.0058
Mercury	24195-07-16 14:38 G	10558298.99	10558299.11	10558299.25	0.0133	0.0077
Mercury	24195-10-12 19:26 G	10558387.21	10558387.31	10558387.43	0.0133	0.0096
Mercury	24196-01-09 00:14 G	10558475.44	10558475.51	10558475.60	0.0133	0.0115
Mars	24202-04-01 22:48 G	10560749.39	10560749.45	10560749.52	0.0133	0.0130
Mars	24204-02-29 18:43 G	10561448.01	10561448.28	10561448.56	0.0134	0.0032
Moon	24222-11-30 22:33 G	10568297.28	10568297.44	10568297.64	0.0142	0.0097
Earth	24222-12-01 02:24 G	10568297.41	10568297.60	10568297.80	0.0142	0.0089 *
Earth	24223-12-05 22:19 G	10568667.17	10568667.43	10568667.68	0.0142	0.0019
Moon	24223-12-06 01:40 G	10568667.33	10568667.57	10568667.83	0.0142	0.0015 *
Moon	24224-12-09 15:07 G	10569036.89	10569037.13	10569037.37	0.0143	0.0049
Earth	24224-12-09 18:43 G	10569037.05	10569037.28	10569037.52	0.0143	0.0052 *
Earth	24225-12-14 15:21 G	10569407.03	10569407.14	10569407.29	0.0143	0.0123
Moon	24225-12-14 18:28 G	10569407.16	10569407.27	10569407.43	0.0143	0.0120 *
Venus	24229-12-14 07:55 G	10570867.69	10570867.83	10570867.99	0.0144	0.0104
Venus	24230-07-28 19:40 G	10571094.13	10571094.32	10571094.52	0.0145	0.0062
Venus	24231-03-12 07:40 G	10571320.60	10571320.82	10571321.04	0.0145	0.0019
Venus	24231-10-24 19:40 G	10571547.11	10571547.32	10571547.54	0.0145	0.0024
Venus	24232-06-07 07:40 G	10571773.64	10571773.82	10571774.02	0.0145	0.0067
Venus	24233-01-19 19:40 G	10572000.20	10572000.32	10572000.48	0.0145	0.0111
Mercury	24235-05-14 00:28 G	10572844.47	10572844.52	10572844.58	0.0146	0.0134
Mercury	24235-08-10 05:16 G	10572932.63	10572932.72	10572932.82	0.0146	0.0111

Mercury	24235-11-06 09:50 G	10573020.80	10573020.91	10573021.04	0.0146	0.0089
Mercury	24236-02-02 14:38 G	10573108.99	10573109.11	10573109.25	0.0146	0.0066
Mercury	24236-04-30 19:40 G	10573197.18	10573197.32	10573197.46	0.0146	0.0042
Mercury	24236-07-28 00:28 G	10573285.37	10573285.52	10573285.67	0.0146	0.0019
Mercury	24236-10-24 05:31 G	10573373.58	10573373.73	10573373.88	0.0146	0.0006
Mercury	24237-01-20 10:19 G	10573461.79	10573461.93	10573462.08	0.0146	0.0029
Mercury	24237-04-18 15:21 G	10573550.00	10573550.14	10573550.28	0.0146	0.0053
Mercury	24237-07-15 20:24 G	10573638.22	10573638.35	10573638.48	0.0146	0.0077
Mercury	24237-10-12 01:12 G	10573726.45	10573726.55	10573726.67	0.0146	0.0102
Mercury	24238-01-08 06:28 G	10573814.70	10573814.77	10573814.85	0.0146	0.0126
Mars	24244-07-17 09:50 G	10576196.57	10576196.91	10576197.25	0.0145	0.0015
Earth	24262-05-31 00:14 G	10582723.34	10582723.51	10582723.70	0.0137	0.0096
Moon	24262-05-31 03:50 G	10582723.49	10582723.66	10582723.87	0.0137	0.0093 *
Moon	24263-06-04 09:50 G	10583092.66	10583092.91	10583093.16	0.0136	0.0035
Earth	24263-06-04 13:12 G	10583092.81	10583093.05	10583093.31	0.0136	0.0034 *
Earth	24264-06-08 01:12 G	10583462.31	10583462.55	10583462.81	0.0136	0.0029
Moon	24264-06-08 04:48 G	10583462.46	10583462.70	10583462.95	0.0136	0.0025 *
Moon	24265-06-12 08:38 G	10583831.70	10583831.86	10583832.06	0.0136	0.0096
Earth	24265-06-12 12:57 G	10583831.85	10583832.04	10583832.22	0.0136	0.0090 *
Venus	24270-04-01 06:14 G	10585585.64	10585585.76	10585585.91	0.0134	0.0106
Venus	24270-11-13 12:28 G	10585811.83	10585812.02	10585812.20	0.0134	0.0071
Venus	24271-06-27 18:00 G	10586038.05	10586038.25	10586038.46	0.0134	0.0038
Venus	24272-02-08 23:45 G	10586264.27	10586264.49	10586264.71	0.0134	0.0004
Venus	24272-09-22 05:02 G	10586490.51	10586490.71	10586490.93	0.0134	0.0030
Venus	24273-05-06 10:48 G	10586716.76	10586716.95	10586717.15	0.0133	0.0063
Venus	24273-12-18 16:04 G	10586943.03	10586943.17	10586943.33	0.0133	0.0096
Venus	24274-08-01 21:21 G	10587169.35	10587169.39	10587169.46	0.0133	0.0128
Mercury	24276-12-09 16:04 G	10588030.17	10588030.17	10588030.17	0.0133	0.0133
Mercury	24277-03-07 21:07 G	10588118.30	10588118.38	10588118.47	0.0133	0.0112
Mercury	24277-06-04 02:09 G	10588206.48	10588206.59	10588206.72	0.0133	0.0092

Mercury	24277-08-31 07:12 G	10588294.67	10588294.80	10588294.95	0.0133	0.0072
Mercury	24277-11-27 12:28 G	10588382.87	10588383.02	10588383.18	0.0133	0.0051
Mercury	24278-02-23 17:31 G	10588471.07	10588471.23	10588471.40	0.0133	0.0032
Mercury	24278-05-22 22:33 G	10588559.28	10588559.44	10588559.61	0.0133	0.0012
Mercury	24278-08-19 03:36 G	10588647.49	10588647.65	10588647.81	0.0133	0.0008
Mercury	24278-11-15 08:24 G	10588735.69	10588735.85	10588736.02	0.0133	0.0028
Mercury	24279-02-11 13:12 G	10588823.91	10588824.05	10588824.21	0.0133	0.0048
Mercury	24279-05-10 18:00 G	10588912.12	10588912.25	10588912.40	0.0133	0.0067
Mercury	24279-08-06 22:48 G	10589000.34	10589000.45	10589000.58	0.0133	0.0086
Mercury	24279-11-03 03:36 G	10589088.56	10589088.65	10589088.76	0.0133	0.0105
Mercury	24280-01-30 08:09 G	10589176.80	10589176.84	10589176.91	0.0133	0.0124
Mars	24286-11-25 06:43 G	10591667.54	10591667.78	10591668.04	0.0134	0.0064
Mars	24288-10-24 02:24 G	10592366.42	10592366.60	10592366.79	0.0134	0.0099
Moon	24306-12-02 12:00 G	10598978.79	10598979.00	10598979.21	0.0142	0.0076
Earth	24306-12-02 15:36 G	10598978.95	10598979.15	10598979.36	0.0142	0.0084 *
Earth	24307-12-07 11:16 G	10599348.72	10599348.97	10599349.23	0.0142	0.0014
Moon	24307-12-07 14:52 G	10599348.87	10599349.12	10599349.37	0.0142	0.0020 *
Moon	24308-12-11 04:04 G	10599718.44	10599718.67	10599718.91	0.0142	0.0059
Earth	24308-12-11 07:26 G	10599718.59	10599718.81	10599719.06	0.0142	0.0058 *
Earth	24309-12-16 04:33 G	10600088.59	10600088.69	10600088.81	0.0143	0.0128
Moon	24309-12-16 08:09 G	10600088.75	10600088.84	10600088.95	0.0143	0.0130 *
Venus	24313-08-14 15:50 G	10601426.06	10601426.16	10601426.30	0.0144	0.0121
Venus	24314-03-29 03:36 G	10601652.48	10601652.65	10601652.85	0.0144	0.0079
Venus	24314-11-10 15:50 G	10601878.95	10601879.16	10601879.37	0.0145	0.0036
Venus	24315-06-25 03:36 G	10602105.44	10602105.65	10602105.87	0.0145	0.0008
Venus	24316-02-06 15:36 G	10602331.95	10602332.15	10602332.36	0.0145	0.0050
Venus	24316-09-20 03:36 G	10602558.50	10602558.65	10602558.83	0.0145	0.0093
Venus	24317-05-04 16:04 G	10602785.10	10602785.17	10602785.25	0.0145	0.0136
Mercury	24319-06-04 08:09 G	10603545.78	10603545.84	10603545.93	0.0146	0.0126
Mercury	24319-08-31 13:12 G	10603633.95	10603634.05	10603634.15	0.0146	0.0103

Mercury	24319-11-27 18:00 G	10603722.13	10603722.25	10603722.37	0.0146	0.0080
Mercury	24320-02-23 22:48 G	10603810.31	10603810.45	10603810.58	0.0146	0.0057
Mercury	24320-05-22 03:36 G	10603898.50	10603898.65	10603898.79	0.0146	0.0034
Mercury	24320-08-18 08:24 G	10603986.70	10603986.85	10603987.00	0.0146	0.0010
Mercury	24320-11-14 13:26 G	10604074.91	10604075.06	10604075.20	0.0146	0.0014
Mercury	24321-02-10 18:14 G	10604163.12	10604163.26	10604163.41	0.0146	0.0037
Mercury	24321-05-09 23:02 G	10604251.33	10604251.46	10604251.61	0.0146	0.0062
Mercury	24321-08-06 04:04 G	10604339.56	10604339.67	10604339.80	0.0146	0.0086
Mercury	24321-11-02 09:21 G	10604427.79	10604427.89	10604427.99	0.0146	0.0110
Mercury	24322-01-29 14:09 G	10604516.05	10604516.09	10604516.16	0.0146	0.0135
Mars	24327-04-07 18:28 G	10606410.25	10606410.27	10606410.36	0.0145	0.0143
Mars	24329-03-15 09:07 G	10607117.70	10607117.88	10607118.09	0.0145	0.0117
Earth	24346-06-01 14:24 G	10613404.93	10613405.10	10613405.31	0.0137	0.0091
Moon	24346-06-01 17:45 G	10613405.08	10613405.24	10613405.44	0.0137	0.0095 *
Moon	24347-06-05 23:45 G	10613774.24	10613774.49	10613774.74	0.0137	0.0027
Earth	24347-06-06 03:36 G	10613774.40	10613774.65	10613774.90	0.0137	0.0028 *
Earth	24348-06-09 15:21 G	10614143.90	10614144.14	10614144.39	0.0136	0.0035
Moon	24348-06-09 18:57 G	10614144.05	10614144.29	10614144.54	0.0136	0.0037 *
Moon	24349-06-13 23:02 G	10614513.29	10614513.46	10614513.67	0.0136	0.0091
Earth	24349-06-14 02:24 G	10614513.45	10614513.60	10614513.80	0.0136	0.0097 *
Venus	24353-11-30 18:28 G	10616144.17	10616144.27	10616144.38	0.0134	0.0117
Venus	24354-07-15 00:28 G	10616370.35	10616370.52	10616370.69	0.0134	0.0084
Venus	24355-02-26 06:00 G	10616596.56	10616596.75	10616596.96	0.0134	0.0050
Venus	24355-10-10 11:45 G	10616822.78	10616822.99	10616823.22	0.0134	0.0017
Venus	24356-05-23 17:45 G	10617049.02	10617049.24	10617049.46	0.0134	0.0017
Venus	24357-01-04 23:16 G	10617275.27	10617275.47	10617275.67	0.0133	0.0051
Venus	24357-08-19 04:48 G	10617501.53	10617501.70	10617501.87	0.0133	0.0084
Venus	24358-04-02 10:04 G	10617727.82	10617727.92	10617728.03	0.0133	0.0117
Mercury	24360-12-31 00:00 G	10618731.45	10618731.50	10618731.57	0.0133	0.0124
Mercury	24361-03-29 05:16 G	10618819.62	10618819.72	10618819.83	0.0133	0.0103

Mercury	24361-06-25 10:19 G	10618907.81	10618907.93	10618908.07	0.0133	0.0083
Mercury	24361-09-21 15:21 G	10618996.01	10618996.14	10618996.30	0.0133	0.0063
Mercury	24361-12-18 20:38 G	10619084.21	10619084.36	10619084.52	0.0133	0.0042
Mercury	24362-03-17 01:40 G	10619172.41	10619172.57	10619172.74	0.0133	0.0023
Mercury	24362-06-13 06:43 G	10619260.62	10619260.78	10619260.95	0.0133	0.0003
Mercury	24362-09-09 11:45 G	10619348.83	10619348.99	10619349.15	0.0133	0.0017
Mercury	24362-12-06 16:33 G	10619437.04	10619437.19	10619437.35	0.0133	0.0037
Mercury	24363-03-04 21:21 G	10619525.25	10619525.39	10619525.54	0.0133	0.0056
Mercury	24363-06-01 02:09 G	10619613.46	10619613.59	10619613.73	0.0133	0.0075
Mercury	24363-08-28 06:43 G	10619701.68	10619701.78	10619701.91	0.0133	0.0095
Mercury	24363-11-24 11:45 G	10619789.91	10619789.99	10619790.08	0.0133	0.0113
Mercury	24364-02-20 16:19 G	10619878.18	10619878.18	10619878.20	0.0133	0.0132
Mars	24371-07-21 14:38 G	10622585.83	10622586.11	10622586.40	0.0134	0.0004
Moon	24389-11-28 12:14 G	10629291.01	10629291.01	10629291.07	0.0141	0.0141
Moon	24390-12-03 01:12 G	10629660.37	10629660.55	10629660.76	0.0142	0.0087
Earth	24390-12-03 04:33 G	10629660.48	10629660.69	10629660.91	0.0142	0.0079 *
Earth	24391-12-08 00:14 G	10630030.26	10630030.51	10630030.76	0.0142	0.0009
Moon	24391-12-08 03:50 G	10630030.41	10630030.66	10630030.92	0.0142	0.0004 *
Moon	24392-12-11 16:48 G	10630399.98	10630400.20	10630400.44	0.0142	0.0059
Earth	24392-12-11 20:24 G	10630400.13	10630400.35	10630400.59	0.0142	0.0062 *
Earth	24393-12-16 17:02 G	10630770.15	10630770.21	10630770.32	0.0143	0.0134
Moon	24393-12-16 20:52 G	10630770.28	10630770.37	10630770.48	0.0143	0.0131 *
Venus	24397-04-14 00:14 G	10631984.46	10631984.51	10631984.59	0.0144	0.0136
Venus	24397-11-26 12:00 G	10632210.85	10632211.00	10632211.17	0.0144	0.0095
Venus	24398-07-10 23:45 G	10632437.29	10632437.49	10632437.70	0.0144	0.0053
Venus	24399-02-22 11:45 G	10632663.77	10632663.99	10632664.21	0.0145	0.0010
Venus	24399-10-06 23:45 G	10632890.28	10632890.49	10632890.71	0.0145	0.0033
Venus	24400-05-20 11:45 G	10633116.81	10633116.99	10633117.18	0.0145	0.0076
Venus	24401-01-02 00:00 G	10633343.38	10633343.50	10633343.63	0.0145	0.0119
Mercury	24403-03-28 11:31 G	10634158.95	10634158.98	10634159.03	0.0146	0.0140

Mercury	24403-06-24 16:19 G	10634247.10	10634247.18	10634247.27	0.0146	0.0117
Mercury	24403-09-20 20:52 G	10634335.27	10634335.37	10634335.49	0.0146	0.0095
Mercury	24403-12-18 01:40 G	10634423.45	10634423.57	10634423.71	0.0146	0.0072
Mercury	24404-03-15 06:28 G	10634511.64	10634511.77	10634511.92	0.0146	0.0049
Mercury	24404-06-11 11:31 G	10634599.83	10634599.98	10634600.13	0.0146	0.0025
Mercury	24404-09-07 16:19 G	10634688.03	10634688.18	10634688.33	0.0146	0.0003
Mercury	24404-12-04 21:21 G	10634776.24	10634776.39	10634776.54	0.0146	0.0022
Mercury	24405-03-03 02:09 G	10634864.45	10634864.59	10634864.74	0.0146	0.0046
Mercury	24405-05-30 06:57 G	10634952.67	10634952.79	10634952.93	0.0146	0.0071
Mercury	24405-08-26 12:14 G	10635040.90	10635041.01	10635041.13	0.0146	0.0094
Mercury	24405-11-22 17:16 G	10635129.14	10635129.22	10635129.31	0.0146	0.0119
Mercury	24406-02-18 22:19 G	10635217.42	10635217.43	10635217.46	0.0146	0.0144
Mars	24411-12-03 19:26 G	10637330.99	10637331.31	10637331.64	0.0145	0.0040
Jupiter	24428-06-07 10:48 G	10643361.84	10643361.95	10643362.15	0.0138	0.0132
Earth	24430-06-02 05:02 G	10644086.52	10644086.71	10644086.92	0.0137	0.0085
Moon	24430-06-02 08:38 G	10644086.67	10644086.86	10644087.08	0.0137	0.0081 *
Moon	24431-06-06 14:38 G	10644455.87	10644456.11	10644456.36	0.0137	0.0024
Earth	24431-06-06 18:00 G	10644456.00	10644456.25	10644456.50	0.0137	0.0022 *
Earth	24432-06-10 06:00 G	10644825.50	10644825.75	10644825.99	0.0136	0.0041
Moon	24432-06-10 09:21 G	10644825.65	10644825.89	10644826.14	0.0136	0.0037 *
Moon	24433-06-14 13:12 G	10645194.91	10645195.05	10645195.22	0.0136	0.0107
Earth	24433-06-14 16:48 G	10645195.05	10645195.20	10645195.38	0.0136	0.0102 *
Venus	24437-07-31 06:14 G	10646702.72	10646702.76	10646702.83	0.0134	0.0129
Venus	24438-03-14 12:28 G	10646928.87	10646929.02	10646929.18	0.0134	0.0095
Venus	24438-10-26 18:14 G	10647155.08	10647155.26	10647155.46	0.0134	0.0062
Venus	24439-06-10 00:14 G	10647381.30	10647381.51	10647381.73	0.0134	0.0028
Venus	24440-01-22 06:00 G	10647607.53	10647607.75	10647607.97	0.0134	0.0006
Venus	24440-09-04 11:16 G	10647833.77	10647833.97	10647834.19	0.0133	0.0040
Venus	24441-04-18 17:02 G	10648060.03	10648060.21	10648060.40	0.0133	0.0072
Venus	24441-11-30 22:19 G	10648286.31	10648286.43	10648286.58	0.0133	0.0106

Mercury	24445-01-20 07:55 G	10649432.76	10649432.83	10649432.93	0.0133	0.0115
Mercury	24445-04-18 13:26 G	10649520.95	10649521.06	10649521.18	0.0133	0.0094
Mercury	24445-07-15 18:28 G	10649609.14	10649609.27	10649609.42	0.0133	0.0074
Mercury	24445-10-11 23:31 G	10649697.34	10649697.48	10649697.64	0.0133	0.0054
Mercury	24446-01-08 04:48 G	10649785.54	10649785.70	10649785.86	0.0133	0.0034
Mercury	24446-04-06 09:50 G	10649873.75	10649873.91	10649874.08	0.0133	0.0014
Mercury	24446-07-03 14:52 G	10649961.95	10649962.12	10649962.28	0.0133	0.0006
Mercury	24446-09-29 19:40 G	10650050.16	10650050.32	10650050.49	0.0133	0.0026
Mercury	24446-12-27 00:43 G	10650138.37	10650138.53	10650138.68	0.0133	0.0045
Mercury	24447-03-25 05:16 G	10650226.59	10650226.72	10650226.87	0.0133	0.0065
Mercury	24447-06-21 10:04 G	10650314.80	10650314.92	10650315.06	0.0133	0.0084
Mercury	24447-09-17 14:52 G	10650403.03	10650403.12	10650403.23	0.0133	0.0103
Mercury	24447-12-14 19:26 G	10650491.26	10650491.31	10650491.39	0.0133	0.0122
Mars	24454-04-16 01:12 G	10652805.35	10652805.55	10652805.75	0.0133	0.0094
Mars	24456-03-14 22:04 G	10653504.20	10653504.42	10653504.68	0.0134	0.0071
Moon	24474-12-03 12:28 G	10660341.80	10660342.02	10660342.24	0.0141	0.0067
Earth	24474-12-03 15:36 G	10660341.94	10660342.15	10660342.37	0.0141	0.0075 *
Earth	24475-12-08 11:16 G	10660711.72	10660711.97	10660712.22	0.0142	0.0004
Moon	24475-12-08 14:24 G	10660711.84	10660712.10	10660712.36	0.0142	0.0011 *
Moon	24476-12-12 03:36 G	10661081.45	10661081.65	10661081.89	0.0142	0.0070
Earth	24476-12-12 07:26 G	10661081.59	10661081.81	10661082.04	0.0142	0.0066 *
Earth	24477-12-17 03:50 G	10661451.62	10661451.66	10661451.75	0.0143	0.0138
Moon	24477-12-17 08:09 G	10661451.78	10661451.84	10661451.90	0.0143	0.0138
Venus	24481-07-26 18:28 G	10662769.15	10662769.27	10662769.42	0.0144	0.0113
Venus	24482-03-10 06:14 G	10662995.58	10662995.76	10662995.96	0.0144	0.0071
Venus	24482-10-22 18:14 G	10663222.05	10663222.26	10663222.48	0.0144	0.0029
Venus	24483-06-06 06:14 G	10663448.54	10663448.76	10663448.98	0.0145	0.0014
Venus	24484-01-18 18:00 G	10663675.06	10663675.25	10663675.46	0.0145	0.0057
Venus	24484-09-01 06:00 G	10663901.60	10663901.75	10663901.92	0.0145	0.0099
Venus	24485-04-15 18:28 G	10664128.23	10664128.27	10664128.31	0.0145	0.0142

Mercury	24487-04-17 18:57 G	10664860.24	10664860.29	10664860.34	0.0145	0.0134
Mercury	24487-07-14 23:31 G	10664948.39	10664948.48	10664948.58	0.0146	0.0111
Mercury	24487-10-11 04:19 G	10665036.57	10665036.68	10665036.80	0.0146	0.0089
Mercury	24488-01-07 09:07 G	10665124.75	10665124.88	10665125.01	0.0146	0.0066
Mercury	24488-04-04 13:55 G	10665212.94	10665213.08	10665213.22	0.0146	0.0043
Mercury	24488-07-01 18:43 G	10665301.13	10665301.28	10665301.43	0.0146	0.0020
Mercury	24488-09-27 23:31 G	10665389.33	10665389.48	10665389.63	0.0146	0.0004
Mercury	24488-12-25 04:33 G	10665477.54	10665477.69	10665477.83	0.0146	0.0028
Mercury	24489-03-23 09:21 G	10665565.75	10665565.89	10665566.03	0.0146	0.0052
Mercury	24489-06-19 14:24 G	10665653.97	10665654.10	10665654.23	0.0146	0.0076
Mercury	24489-09-15 19:26 G	10665742.20	10665742.31	10665742.42	0.0146	0.0100
Mercury	24489-12-13 00:14 G	10665830.45	10665830.51	10665830.60	0.0146	0.0125
Mars	24496-07-30 10:33 G	10668251.64	10668251.94	10668252.26	0.0145	0.0059
Moon	24513-05-30 01:12 G	10674398.54	10674398.55	10674398.57	0.0138	0.0137
Earth	24514-06-03 17:31 G	10674768.03	10674768.23	10674768.44	0.0137	0.0080
Moon	24514-06-03 20:24 G	10674768.16	10674768.35	10674768.57	0.0137	0.0085 *
Moon	24515-06-08 02:52 G	10675137.38	10675137.62	10675137.88	0.0137	0.0016
Earth	24515-06-08 06:28 G	10675137.52	10675137.77	10675138.02	0.0137	0.0017 *
Earth	24516-06-11 18:14 G	10675507.02	10675507.26	10675507.50	0.0136	0.0046
Moon	24516-06-11 21:36 G	10675507.16	10675507.40	10675507.64	0.0136	0.0047 *
Moon	24517-06-16 02:09 G	10675876.44	10675876.59	10675876.76	0.0136	0.0102
Earth	24517-06-16 05:45 G	10675876.59	10675876.74	10675876.90	0.0136	0.0107 *
Venus	24521-11-12 23:45 G	10677487.38	10677487.49	10677487.63	0.0134	0.0108
Venus	24522-06-27 05:45 G	10677713.57	10677713.74	10677713.93	0.0134	0.0075
Venus	24523-02-08 11:45 G	10677939.79	10677939.99	10677940.20	0.0134	0.0041
Venus	24523-09-22 17:45 G	10678166.02	10678166.24	10678166.45	0.0134	0.0007
Venus	24524-05-05 23:31 G	10678392.27	10678392.48	10678392.69	0.0134	0.0027
Venus	24524-12-18 05:02 G	10678618.52	10678618.71	10678618.91	0.0133	0.0060
Venus	24525-08-01 10:33 G	10678844.79	10678844.94	10678845.10	0.0133	0.0093
Venus	24526-03-15 15:50 G	10679071.10	10679071.16	10679071.24	0.0133	0.0126

Mercury	24528-11-14 10:48 G	10680045.92	10680045.95	10680046.01	0.0133	0.0127
Mercury	24529-02-10 16:19 G	10680134.08	10680134.18	10680134.28	0.0133	0.0106
Mercury	24529-05-09 21:21 G	10680222.27	10680222.39	10680222.52	0.0133	0.0086
Mercury	24529-08-06 02:24 G	10680310.46	10680310.60	10680310.75	0.0133	0.0066
Mercury	24529-11-02 07:40 G	10680398.67	10680398.82	10680398.98	0.0133	0.0045
Mercury	24530-01-29 12:43 G	10680486.87	10680487.03	10680487.20	0.0133	0.0025
Mercury	24530-04-27 17:45 G	10680575.08	10680575.24	10680575.41	0.0133	0.0006
Mercury	24530-07-24 22:48 G	10680663.28	10680663.45	10680663.61	0.0133	0.0014
Mercury	24530-10-21 03:36 G	10680751.50	10680751.65	10680751.81	0.0133	0.0034
Mercury	24531-01-17 08:24 G	10680839.71	10680839.85	10680840.01	0.0133	0.0054
Mercury	24531-04-15 13:12 G	10680927.92	10680928.05	10680928.20	0.0133	0.0073
Mercury	24531-07-12 18:00 G	10681016.14	10681016.25	10681016.38	0.0133	0.0092
Mercury	24531-10-08 22:48 G	10681104.37	10681104.45	10681104.55	0.0133	0.0111
Mercury	24532-01-05 03:21 G	10681192.62	10681192.64	10681192.69	0.0133	0.0130
Mars	24538-12-10 09:36 G	10683723.63	10683723.90	10683724.18	0.0133	0.0026
Earth	24557-11-30 08:38 G	10690653.84	10690653.86	10690653.93	0.0141	0.0139
Moon	24557-11-30 11:16 G	10690653.90	10690653.97	10690654.08	0.0141	0.0132 *
Moon	24558-12-05 01:12 G	10691023.36	10691023.55	10691023.78	0.0141	0.0078
Earth	24558-12-05 03:50 G	10691023.45	10691023.66	10691023.89	0.0141	0.0070 *
Earth	24559-12-09 23:16 G	10691393.22	10691393.47	10691393.73	0.0142	0.0001
Moon	24559-12-10 02:24 G	10691393.35	10691393.60	10691393.87	0.0142	0.0007 *
Moon	24560-12-13 16:19 G	10691762.96	10691763.18	10691763.40	0.0142	0.0067
Earth	24560-12-13 19:12 G	10691763.09	10691763.30	10691763.53	0.0142	0.0072 *
Earth	24561-12-18 15:50 G	10692133.16	10692133.16	10692133.19	0.0143	0.0143
Moon	24561-12-18 19:26 G	10692133.29	10692133.31	10692133.36	0.0143	0.0141
Venus	24565-03-27 01:55 G	10693327.51	10693327.58	10693327.69	0.0144	0.0130
Venus	24565-11-08 13:55 G	10693553.91	10693554.08	10693554.26	0.0144	0.0088
Venus	24566-06-23 01:26 G	10693780.37	10693780.56	10693780.78	0.0144	0.0047
Venus	24567-02-04 13:26 G	10694006.84	10694007.06	10694007.28	0.0145	0.0004
Venus	24567-09-19 01:12 G	10694233.35	10694233.55	10694233.77	0.0145	0.0039

Venus	24568-05-02 13:12 G	10694459.88	10694460.05	10694460.24	0.0145	0.0081
Venus	24568-12-15 01:26 G	10694686.45	10694686.56	10694686.68	0.0145	0.0124
Mercury	24571-05-09 02:09 G	10695561.54	10695561.59	10695561.67	0.0145	0.0128
Mercury	24571-08-05 06:57 G	10695649.70	10695649.79	10695649.90	0.0146	0.0105
Mercury	24571-11-01 11:45 G	10695737.87	10695737.99	10695738.12	0.0146	0.0082
Mercury	24572-01-28 16:33 G	10695826.06	10695826.19	10695826.33	0.0146	0.0059
Mercury	24572-04-25 21:21 G	10695914.25	10695914.39	10695914.54	0.0146	0.0036
Mercury	24572-07-23 02:09 G	10696002.44	10696002.59	10696002.74	0.0146	0.0013
Mercury	24572-10-19 06:57 G	10696090.65	10696090.79	10696090.94	0.0146	0.0012
Mercury	24573-01-15 12:00 G	10696178.85	10696179.00	10696179.15	0.0146	0.0035
Mercury	24573-04-13 16:48 G	10696267.07	10696267.20	10696267.34	0.0146	0.0059
Mercury	24573-07-10 21:50 G	10696355.29	10696355.41	10696355.54	0.0146	0.0083
Mercury	24573-10-07 02:52 G	10696443.52	10696443.62	10696443.73	0.0146	0.0107
Mercury	24574-01-03 07:40 G	10696531.77	10696531.82	10696531.90	0.0146	0.0132
Mars	24579-04-20 16:04 G	10698464.96	10698465.17	10698465.43	0.0145	0.0103
Earth	24598-06-04 06:00 G	10705449.55	10705449.75	10705449.98	0.0137	0.0076
Moon	24598-06-04 09:07 G	10705449.67	10705449.88	10705450.12	0.0137	0.0071 *
Moon	24599-06-08 16:19 G	10705818.94	10705819.18	10705819.43	0.0137	0.0015
Earth	24599-06-08 18:57 G	10705819.04	10705819.29	10705819.55	0.0137	0.0013 *
Earth	24600-06-13 06:57 G	10706188.56	10706188.79	10706189.03	0.0136	0.0051
Moon	24600-06-13 10:04 G	10706188.69	10706188.92	10706189.18	0.0136	0.0049 *
Moon	24601-06-17 15:07 G	10706558.01	10706558.13	10706558.27	0.0136	0.0116
Earth	24601-06-17 18:14 G	10706558.13	10706558.26	10706558.42	0.0136	0.0112 *
Venus	24605-07-14 11:02 G	10708045.88	10708045.96	10708046.07	0.0134	0.0121
Venus	24606-02-25 17:31 G	10708272.06	10708272.23	10708272.39	0.0134	0.0087
Venus	24606-10-09 23:16 G	10708498.28	10708498.47	10708498.68	0.0134	0.0053
Venus	24607-05-24 05:31 G	10708724.51	10708724.73	10708724.94	0.0134	0.0019
Venus	24608-01-05 11:16 G	10708950.75	10708950.97	10708951.19	0.0134	0.0014
Venus	24608-08-18 16:48 G	10709177.00	10709177.20	10709177.41	0.0134	0.0048
Venus	24609-04-01 22:33 G	10709403.27	10709403.44	10709403.61	0.0134	0.0081

Venus	24609-11-14 03:50 G	10709629.56	10709629.66	10709629.78	0.0133	0.0114
Mercury	24612-12-05 18:43 G	10710747.22	10710747.28	10710747.37	0.0133	0.0119
Mercury	24613-03-04 00:00 G	10710835.40	10710835.50	10710835.62	0.0133	0.0098
Mercury	24613-05-31 05:16 G	10710923.59	10710923.72	10710923.86	0.0133	0.0078
Mercury	24613-08-27 10:33 G	10711011.79	10711011.94	10711012.09	0.0133	0.0057
Mercury	24613-11-23 15:36 G	10711099.99	10711100.15	10711100.31	0.0133	0.0037
Mercury	24614-02-19 20:38 G	10711188.20	10711188.36	10711188.53	0.0133	0.0017
Mercury	24614-05-19 01:40 G	10711276.41	10711276.57	10711276.74	0.0133	0.0003
Mercury	24614-08-15 06:43 G	10711364.62	10711364.78	10711364.94	0.0133	0.0022
Mercury	24614-11-11 11:31 G	10711452.83	10711452.98	10711453.14	0.0133	0.0042
Mercury	24615-02-07 16:19 G	10711541.04	10711541.18	10711541.33	0.0133	0.0062
Mercury	24615-05-06 21:07 G	10711629.26	10711629.38	10711629.52	0.0133	0.0081
Mercury	24615-08-03 01:55 G	10711717.49	10711717.58	10711717.70	0.0133	0.0100
Mercury	24615-10-30 06:43 G	10711805.72	10711805.78	10711805.86	0.0133	0.0119
Mars	24621-09-05 19:40 G	10713943.24	10713943.32	10713943.44	0.0133	0.0124
Mars	24623-08-05 18:57 G	10714642.03	10714642.29	10714642.56	0.0134	0.0042
Earth	24641-12-01 22:19 G	10721335.37	10721335.43	10721335.53	0.0141	0.0133
Moon	24641-12-01 23:45 G	10721335.46	10721335.49	10721335.57	0.0141	0.0138 *
Moon	24642-12-06 14:52 G	10721704.89	10721705.12	10721705.35	0.0141	0.0057
Earth	24642-12-06 17:02 G	10721704.99	10721705.21	10721705.45	0.0141	0.0064 *
Earth	24643-12-11 12:28 G	10722074.77	10722075.02	10722075.28	0.0142	0.0006
Moon	24643-12-11 14:52 G	10722074.86	10722075.12	10722075.38	0.0142	0.0002 *
Moon	24644-12-15 05:16 G	10722444.53	10722444.72	10722444.94	0.0142	0.0081
Earth	24644-12-15 08:38 G	10722444.65	10722444.86	10722445.07	0.0142	0.0077 *
Venus	24649-07-09 21:36 G	10724112.27	10724112.40	10724112.56	0.0144	0.0105
Venus	24650-02-21 09:21 G	10724338.70	10724338.89	10724339.09	0.0144	0.0064
Venus	24650-10-05 21:07 G	10724565.16	10724565.38	10724565.59	0.0144	0.0022
Venus	24651-05-20 08:52 G	10724791.65	10724791.87	10724792.08	0.0145	0.0020
Venus	24652-01-01 20:24 G	10725018.17	10725018.35	10725018.56	0.0145	0.0063
Venus	24652-08-15 08:24 G	10725244.71	10725244.85	10725245.01	0.0145	0.0105

Mercury	24655-03-03 05:02 G	10726174.70	10726174.71	10726174.75	0.0145	0.0144
Mercury	24655-05-30 09:50 G	10726262.84	10726262.91	10726263.00	0.0145	0.0121
Mercury	24655-08-26 14:24 G	10726351.00	10726351.10	10726351.22	0.0145	0.0099
Mercury	24655-11-22 19:12 G	10726439.18	10726439.30	10726439.43	0.0145	0.0076
Mercury	24656-02-19 00:00 G	10726527.37	10726527.50	10726527.64	0.0145	0.0053
Mercury	24656-05-17 04:48 G	10726615.56	10726615.70	10726615.85	0.0146	0.0030
Mercury	24656-08-13 09:36 G	10726703.75	10726703.90	10726704.05	0.0146	0.0007
Mercury	24656-11-09 14:24 G	10726791.96	10726792.10	10726792.25	0.0146	0.0018
Mercury	24657-02-05 19:12 G	10726880.17	10726880.30	10726880.45	0.0146	0.0042
Mercury	24657-05-05 00:14 G	10726968.38	10726968.51	10726968.65	0.0146	0.0065
Mercury	24657-08-01 05:16 G	10727056.60	10727056.72	10727056.84	0.0146	0.0089
Mercury	24657-10-28 10:04 G	10727144.84	10727144.92	10727145.03	0.0146	0.0114
Mercury	24658-01-24 15:21 G	10727233.10	10727233.14	10727233.19	0.0146	0.0138
Mars	24663-12-17 08:24 G	10729385.51	10729385.85	10729386.19	0.0145	0.0003
Moon	24681-06-01 01:12 G	10735761.49	10735761.55	10735761.65	0.0138	0.0130
Earth	24681-06-01 03:21 G	10735761.63	10735761.64	10735761.69	0.0138	0.0137 *
Earth	24682-06-05 17:02 G	10736131.00	10736131.21	10736131.44	0.0137	0.0072
Moon	24682-06-05 19:12 G	10736131.10	10736131.30	10736131.53	0.0137	0.0078 *
Moon	24683-06-10 03:21 G	10736500.39	10736500.64	10736500.89	0.0137	0.0006
Earth	24683-06-10 06:00 G	10736500.50	10736500.75	10736501.01	0.0137	0.0009 *
Earth	24684-06-13 18:00 G	10736870.02	10736870.25	10736870.49	0.0136	0.0055
Moon	24684-06-13 20:38 G	10736870.13	10736870.36	10736870.60	0.0136	0.0055 *
Moon	24685-06-18 02:24 G	10737239.48	10737239.60	10737239.76	0.0136	0.0113
Earth	24685-06-18 05:16 G	10737239.62	10737239.72	10737239.87	0.0136	0.0117 *
Venus	24689-03-13 21:50 G	10738604.40	10738604.41	10738604.44	0.0135	0.0134
Venus	24689-10-26 03:50 G	10738830.53	10738830.66	10738830.82	0.0134	0.0101
Venus	24690-06-09 10:04 G	10739056.74	10739056.92	10739057.12	0.0134	0.0067
Venus	24691-01-21 16:19 G	10739282.97	10739283.18	10739283.39	0.0134	0.0032
Venus	24691-09-04 22:19 G	10739509.21	10739509.43	10739509.65	0.0134	0.0002
Venus	24692-04-18 04:04 G	10739735.46	10739735.67	10739735.88	0.0134	0.0035

Venus	24692-11-30 09:36 G	10739961.72	10739961.90	10739962.10	0.0134	0.0068
Venus	24693-07-14 15:07 G	10740188.00	10740188.13	10740188.28	0.0134	0.0101
Venus	24694-02-25 20:38 G	10740414.36	10740414.36	10740414.37	0.0133	0.0133
Mercury	24696-09-28 21:07 G	10741360.38	10741360.38	10741360.41	0.0133	0.0133
Mercury	24696-12-26 02:38 G	10741448.52	10741448.61	10741448.70	0.0133	0.0111
Mercury	24697-03-24 07:40 G	10741536.71	10741536.82	10741536.95	0.0133	0.0091
Mercury	24697-06-20 12:57 G	10741624.91	10741625.04	10741625.19	0.0133	0.0071
Mercury	24697-09-16 18:14 G	10741713.11	10741713.26	10741713.42	0.0133	0.0050
Mercury	24697-12-13 23:16 G	10741801.31	10741801.47	10741801.64	0.0133	0.0030
Mercury	24698-03-12 04:19 G	10741889.52	10741889.68	10741889.85	0.0133	0.0010
Mercury	24698-06-08 09:21 G	10741977.73	10741977.89	10741978.06	0.0133	0.0011
Mercury	24698-09-04 14:24 G	10742065.94	10742066.10	10742066.26	0.0133	0.0030
Mercury	24698-12-01 19:12 G	10742154.15	10742154.30	10742154.46	0.0133	0.0050
Mercury	24699-02-28 00:14 G	10742242.37	10742242.51	10742242.65	0.0133	0.0069
Mercury	24699-05-27 05:02 G	10742330.59	10742330.71	10742330.83	0.0133	0.0088
Mercury	24699-08-23 09:36 G	10742418.82	10742418.90	10742419.01	0.0133	0.0108
Mercury	24699-11-19 14:38 G	10742507.07	10742507.11	10742507.16	0.0133	0.0126
Mars	24706-05-02 04:48 G	10744861.46	10744861.70	10744861.97	0.0133	0.0057
Mars	24708-03-31 01:12 G	10745560.41	10745560.55	10745560.73	0.0134	0.0111
Earth	24725-12-03 12:28 G	10752016.93	10752017.02	10752017.15	0.0141	0.0128
Moon	24725-12-03 13:55 G	10752016.97	10752017.08	10752017.23	0.0141	0.0122 *
Moon	24726-12-08 06:00 G	10752386.54	10752386.75	10752386.98	0.0141	0.0066
Earth	24726-12-08 07:26 G	10752386.59	10752386.81	10752387.05	0.0141	0.0059 *
Earth	24727-12-13 02:52 G	10752756.37	10752756.62	10752756.88	0.0142	0.0012
Moon	24727-12-13 05:31 G	10752756.47	10752756.73	10752756.99	0.0142	0.0018 *
Moon	24728-12-16 20:38 G	10753126.16	10753126.36	10753126.57	0.0142	0.0078
Earth	24728-12-16 22:33 G	10753126.26	10753126.44	10753126.67	0.0142	0.0084 *
Venus	24733-03-10 06:57 G	10754670.68	10754670.79	10754670.91	0.0144	0.0120
Venus	24733-10-22 18:28 G	10754897.10	10754897.27	10754897.46	0.0144	0.0079
Venus	24734-06-06 06:14 G	10755123.55	10755123.76	10755123.97	0.0144	0.0037

Venus	24735-01-18 17:45 G	10755350.02	10755350.24	10755350.46	0.0144	0.0004
Venus	24735-09-02 05:16 G	10755576.52	10755576.72	10755576.93	0.0145	0.0047
Venus	24736-04-15 17:02 G	10755803.05	10755803.21	10755803.39	0.0145	0.0089
Venus	24736-11-28 05:02 G	10756029.63	10756029.71	10756029.81	0.0145	0.0131
Mercury	24739-03-24 13:12 G	10756876.01	10756876.05	10756876.11	0.0145	0.0134
Mercury	24739-06-20 18:00 G	10756964.16	10756964.25	10756964.34	0.0145	0.0112
Mercury	24739-09-16 22:33 G	10757052.33	10757052.44	10757052.56	0.0145	0.0089
Mercury	24739-12-14 03:21 G	10757140.51	10757140.64	10757140.77	0.0145	0.0067
Mercury	24740-03-11 08:09 G	10757228.70	10757228.84	10757228.98	0.0145	0.0044
Mercury	24740-06-07 12:57 G	10757316.89	10757317.04	10757317.18	0.0145	0.0021
Mercury	24740-09-03 17:45 G	10757405.09	10757405.24	10757405.39	0.0145	0.0004
Mercury	24740-11-30 22:33 G	10757493.29	10757493.44	10757493.59	0.0146	0.0026
Mercury	24741-02-27 03:21 G	10757581.50	10757581.64	10757581.78	0.0146	0.0050
Mercury	24741-05-26 08:09 G	10757669.72	10757669.84	10757669.98	0.0146	0.0075
Mercury	24741-08-22 13:12 G	10757757.95	10757758.05	10757758.17	0.0146	0.0098
Mercury	24741-11-18 18:14 G	10757846.19	10757846.26	10757846.35	0.0146	0.0123
Mars	24748-08-14 06:43 G	10760306.57	10760306.78	10760307.04	0.0145	0.0103
Earth	24765-06-02 16:33 G	10766443.13	10766443.19	10766443.26	0.0138	0.0132
Earth	24766-06-07 05:45 G	10766812.53	10766812.74	10766812.97	0.0137	0.0068
Moon	24766-06-07 07:55 G	10766812.61	10766812.83	10766813.07	0.0137	0.0062 *
Moon	24767-06-11 17:02 G	10767181.97	10767182.21	10767182.46	0.0137	0.0008
Earth	24767-06-11 18:43 G	10767182.03	10767182.28	10767182.54	0.0137	0.0005 *
Earth	24768-06-15 06:43 G	10767551.56	10767551.78	10767552.02	0.0136	0.0059
Moon	24768-06-15 09:21 G	10767551.66	10767551.89	10767552.14	0.0136	0.0058 *
Moon	24769-06-19 16:04 G	10767921.08	10767921.17	10767921.28	0.0136	0.0124
Earth	24769-06-19 18:28 G	10767921.17	10767921.27	10767921.39	0.0136	0.0121 *
Venus	24773-06-26 15:07 G	10769389.03	10769389.13	10769389.26	0.0135	0.0113
Venus	24774-02-07 21:36 G	10769615.23	10769615.40	10769615.58	0.0134	0.0079
Venus	24774-09-22 03:36 G	10769841.45	10769841.65	10769841.86	0.0134	0.0045
Venus	24775-05-06 09:50 G	10770067.69	10770067.91	10770068.13	0.0134	0.0011

Venus	24775-12-18 15:36 G	10770293.94	10770294.15	10770294.37	0.0134	0.0022
Venus	24776-07-31 21:07 G	10770520.19	10770520.38	10770520.59	0.0134	0.0056
Venus	24777-03-15 02:38 G	10770746.46	10770746.61	10770746.79	0.0134	0.0089
Venus	24777-10-27 07:55 G	10770972.77	10770972.83	10770972.94	0.0134	0.0122
Mercury	24780-10-20 05:02 G	10772061.66	10772061.71	10772061.78	0.0133	0.0124
Mercury	24781-01-16 10:33 G	10772149.84	10772149.94	10772150.05	0.0133	0.0103
Mercury	24781-04-14 15:36 G	10772238.03	10772238.15	10772238.29	0.0133	0.0083
Mercury	24781-07-11 20:52 G	10772326.23	10772326.37	10772326.52	0.0133	0.0062
Mercury	24781-10-08 01:55 G	10772414.43	10772414.58	10772414.75	0.0133	0.0042
Mercury	24782-01-04 07:12 G	10772502.64	10772502.80	10772502.96	0.0133	0.0022
Mercury	24782-04-02 12:14 G	10772590.84	10772591.01	10772591.18	0.0133	0.0002
Mercury	24782-06-29 17:16 G	10772679.06	10772679.22	10772679.38	0.0133	0.0018
Mercury	24782-09-25 22:04 G	10772767.27	10772767.42	10772767.58	0.0133	0.0038
Mercury	24782-12-23 03:07 G	10772855.49	10772855.63	10772855.78	0.0133	0.0057
Mercury	24783-03-21 07:55 G	10772943.70	10772943.83	10772943.97	0.0133	0.0077
Mercury	24783-06-17 12:43 G	10773031.93	10773032.03	10773032.15	0.0133	0.0096
Mercury	24783-09-13 17:45 G	10773120.16	10773120.24	10773120.32	0.0133	0.0115
Mars	24790-12-25 11:45 G	10775779.71	10775779.99	10775780.27	0.0134	0.0012
Earth	24809-12-04 02:24 G	10782698.49	10782698.60	10782698.75	0.0141	0.0122
Moon	24809-12-04 02:52 G	10782698.52	10782698.62	10782698.76	0.0141	0.0126 *
Moon	24810-12-08 19:55 G	10783068.11	10783068.33	10783068.57	0.0141	0.0046
Earth	24810-12-08 21:07 G	10783068.16	10783068.38	10783068.63	0.0141	0.0054 *
Earth	24811-12-13 16:48 G	10783437.95	10783438.20	10783438.46	0.0142	0.0018
Moon	24811-12-13 18:14 G	10783438.00	10783438.26	10783438.53	0.0142	0.0011 *
Moon	24812-12-17 10:33 G	10783807.77	10783807.94	10783808.14	0.0142	0.0093
Earth	24812-12-17 12:57 G	10783807.85	10783808.04	10783808.25	0.0142	0.0089 *
Venus	24816-11-07 15:50 G	10785229.11	10785229.16	10785229.25	0.0144	0.0136
Venus	24817-06-22 03:07 G	10785455.48	10785455.63	10785455.81	0.0144	0.0095
Venus	24818-02-03 14:38 G	10785681.92	10785682.11	10785682.32	0.0144	0.0054
Venus	24818-09-18 02:24 G	10785908.38	10785908.60	10785908.82	0.0144	0.0012

Venus	24819-05-02 13:55 G	10786134.87	10786135.08	10786135.30	0.0144	0.0030
Venus	24819-12-15 01:40 G	10786361.39	10786361.57	10786361.76	0.0145	0.0072
Venus	24820-07-28 13:12 G	10786587.93	10786588.05	10786588.20	0.0145	0.0114
Mercury	24823-04-13 21:07 G	10787577.32	10787577.38	10787577.46	0.0145	0.0126
Mercury	24823-07-11 01:55 G	10787665.48	10787665.58	10787665.68	0.0145	0.0104
Mercury	24823-10-07 06:28 G	10787753.65	10787753.77	10787753.89	0.0145	0.0081
Mercury	24824-01-03 11:16 G	10787841.84	10787841.97	10787842.10	0.0145	0.0058
Mercury	24824-03-31 15:50 G	10787930.02	10787930.16	10787930.31	0.0145	0.0036
Mercury	24824-06-27 20:52 G	10788018.22	10788018.37	10788018.51	0.0145	0.0013
Mercury	24824-09-24 01:40 G	10788106.42	10788106.57	10788106.72	0.0145	0.0012
Mercury	24824-12-21 06:28 G	10788194.62	10788194.77	10788194.91	0.0145	0.0035
Mercury	24825-03-19 11:16 G	10788282.84	10788282.97	10788283.11	0.0145	0.0059
Mercury	24825-06-15 16:19 G	10788371.06	10788371.18	10788371.30	0.0145	0.0083
Mercury	24825-09-11 21:21 G	10788459.29	10788459.39	10788459.49	0.0145	0.0107
Mercury	24825-12-09 02:09 G	10788547.54	10788547.59	10788547.66	0.0145	0.0131
Mars	24831-05-04 16:33 G	10790519.89	10790520.19	10790520.50	0.0145	0.0059
Moon	24849-06-03 02:38 G	10797124.52	10797124.61	10797124.74	0.0138	0.0122
Earth	24849-06-03 03:36 G	10797124.58	10797124.65	10797124.76	0.0138	0.0129 *
Earth	24850-06-07 17:02 G	10797494.00	10797494.21	10797494.45	0.0137	0.0064
Moon	24850-06-07 18:00 G	10797494.04	10797494.25	10797494.49	0.0137	0.0070 *
Moon	24851-06-12 04:33 G	10797863.44	10797863.69	10797863.94	0.0137	0.0004
Earth	24851-06-12 06:14 G	10797863.51	10797863.76	10797864.02	0.0137	0.0000 *
Earth	24852-06-15 18:14 G	10798233.04	10798233.26	10798233.49	0.0136	0.0063
Moon	24852-06-15 19:55 G	10798233.10	10798233.33	10798233.57	0.0136	0.0062 *
Moon	24853-06-20 03:50 G	10798602.57	10798602.66	10798602.78	0.0136	0.0123
Earth	24853-06-20 06:14 G	10798602.67	10798602.76	10798602.86	0.0136	0.0125 *
Venus	24857-02-24 01:40 G	10799947.50	10799947.57	10799947.65	0.0135	0.0126
Venus	24857-10-08 08:09 G	10800173.68	10800173.84	10800174.00	0.0135	0.0092
Venus	24858-05-22 14:09 G	10800399.91	10800400.09	10800400.30	0.0134	0.0059
Venus	24859-01-03 20:24 G	10800626.14	10800626.35	10800626.57	0.0134	0.0025

Venus	24859-08-18 02:24 G	10800852.38	10800852.60	10800852.82	0.0134	0.0009
Venus	24860-03-31 08:09 G	10801078.63	10801078.84	10801079.05	0.0134	0.0042
Venus	24860-11-12 13:26 G	10801304.90	10801305.06	10801305.26	0.0134	0.0076
Venus	24861-06-26 19:26 G	10801531.19	10801531.31	10801531.44	0.0134	0.0108
Mercury	24864-11-09 12:43 G	10802762.96	10802763.03	10802763.12	0.0133	0.0117
Mercury	24865-02-05 18:00 G	10802851.14	10802851.25	10802851.37	0.0133	0.0096
Mercury	24865-05-04 23:02 G	10802939.34	10802939.46	10802939.61	0.0133	0.0077
Mercury	24865-08-01 04:33 G	10803027.54	10803027.69	10803027.84	0.0133	0.0055
Mercury	24865-10-28 09:36 G	10803115.74	10803115.90	10803116.07	0.0133	0.0035
Mercury	24866-01-24 14:52 G	10803203.95	10803204.12	10803204.28	0.0133	0.0015
Mercury	24866-04-22 19:55 G	10803292.16	10803292.33	10803292.49	0.0133	0.0006
Mercury	24866-07-20 00:57 G	10803380.37	10803380.54	10803380.70	0.0133	0.0025
Mercury	24866-10-16 05:45 G	10803468.59	10803468.74	10803468.90	0.0133	0.0045
Mercury	24867-01-12 10:48 G	10803556.81	10803556.95	10803557.09	0.0133	0.0064
Mercury	24867-04-10 15:36 G	10803645.03	10803645.15	10803645.28	0.0133	0.0084
Mercury	24867-07-07 20:24 G	10803733.26	10803733.35	10803733.46	0.0133	0.0103
Mercury	24867-10-04 01:12 G	10803821.50	10803821.55	10803821.62	0.0133	0.0122
Mars	24873-09-19 19:12 G	10805999.09	10805999.30	10805999.51	0.0133	0.0089
Mars	24875-08-19 17:16 G	10806698.00	10806698.22	10806698.45	0.0134	0.0080
Moon	24893-12-04 14:52 G	10813379.98	10813380.12	10813380.29	0.0141	0.0113
Earth	24893-12-04 14:38 G	10813379.99	10813380.11	10813380.27	0.0141	0.0118 *
Earth	24894-12-09 09:36 G	10813749.67	10813749.90	10813750.15	0.0141	0.0049
Moon	24894-12-09 09:36 G	10813749.68	10813749.90	10813750.13	0.0141	0.0055 *
Earth	24895-12-14 05:31 G	10814119.48	10814119.73	10814119.98	0.0142	0.0022
Moon	24895-12-14 06:43 G	10814119.53	10814119.78	10814120.04	0.0142	0.0029 *
Moon	24896-12-18 00:14 G	10814489.32	10814489.51	10814489.71	0.0142	0.0087
Earth	24896-12-18 01:26 G	10814489.38	10814489.56	10814489.76	0.0142	0.0093 *
Venus	24901-02-20 11:16 G	10816013.84	10816013.97	10816014.12	0.0144	0.0111
Venus	24901-10-04 22:48 G	10816240.27	10816240.45	10816240.64	0.0144	0.0070
Venus	24902-05-19 10:19 G	10816466.72	10816466.93	10816467.14	0.0144	0.0029

Venus	24902-12-31 21:50 G	10816693.20	10816693.41	10816693.63	0.0144	0.0013
Venus	24903-08-15 09:21 G	10816919.69	10816919.89	10816920.10	0.0145	0.0055
Venus	24904-03-28 20:52 G	10817146.23	10817146.37	10817146.55	0.0145	0.0097
Venus	24904-11-10 09:21 G	10817372.83	10817372.89	10817372.95	0.0145	0.0138
Mercury	24907-02-06 00:14 G	10818190.49	10818190.51	10818190.56	0.0145	0.0141
Mercury	24907-05-05 04:48 G	10818278.63	10818278.70	10818278.79	0.0145	0.0119
Mercury	24907-08-01 09:36 G	10818366.80	10818366.90	10818367.01	0.0145	0.0096
Mercury	24907-10-28 14:09 G	10818454.97	10818455.09	10818455.22	0.0145	0.0073
Mercury	24908-01-24 18:57 G	10818543.16	10818543.29	10818543.43	0.0145	0.0050
Mercury	24908-04-21 23:45 G	10818631.35	10818631.49	10818631.64	0.0145	0.0027
Mercury	24908-07-19 04:33 G	10818719.54	10818719.69	10818719.84	0.0145	0.0005
Mercury	24908-10-15 09:21 G	10818807.75	10818807.89	10818808.04	0.0145	0.0020
Mercury	24909-01-11 14:24 G	10818895.96	10818896.10	10818896.24	0.0145	0.0044
Mercury	24909-04-09 19:12 G	10818984.17	10818984.30	10818984.44	0.0145	0.0067
Mercury	24909-07-07 00:14 G	10819072.39	10819072.51	10819072.63	0.0145	0.0091
Mercury	24909-10-03 05:02 G	10819160.63	10819160.71	10819160.81	0.0145	0.0116
Mercury	24909-12-30 10:19 G	10819248.89	10819248.93	10819248.97	0.0145	0.0140
Mars	24915-12-31 13:55 G	10821440.77	10821441.08	10821441.41	0.0145	0.0046
Earth	24933-06-04 16:19 G	10827806.09	10827806.18	10827806.30	0.0138	0.0124
Moon	24933-06-04 16:04 G	10827806.12	10827806.17	10827806.26	0.0138	0.0131 *
Earth	24934-06-09 06:00 G	10828175.53	10828175.75	10828175.98	0.0137	0.0060
Moon	24934-06-09 06:43 G	10828175.55	10828175.78	10828176.03	0.0137	0.0053 *
Moon	24935-06-13 18:14 G	10828545.02	10828545.26	10828545.51	0.0137	0.0001
Earth	24935-06-13 18:57 G	10828545.03	10828545.29	10828545.54	0.0137	0.0005 *
Earth	24936-06-17 07:12 G	10828914.58	10828914.80	10828915.02	0.0136	0.0068
Moon	24936-06-17 08:24 G	10828914.63	10828914.85	10828915.09	0.0136	0.0068 *
Moon	24937-06-21 17:16 G	10829284.18	10829284.22	10829284.30	0.0136	0.0132
Earth	24937-06-21 18:28 G	10829284.22	10829284.27	10829284.37	0.0136	0.0130 *
Venus	24941-06-08 18:57 G	10830732.16	10830732.29	10830732.44	0.0135	0.0105
Venus	24942-01-21 01:12 G	10830958.37	10830958.55	10830958.74	0.0134	0.0071

Venus	24942-09-04 07:12 G	10831184.60	10831184.80	10831185.02	0.0134	0.0038
Venus	24943-04-18 13:26 G	10831410.84	10831411.06	10831411.28	0.0134	0.0004
Venus	24943-11-30 19:12 G	10831637.09	10831637.30	10831637.52	0.0134	0.0030
Venus	24944-07-14 00:43 G	10831863.35	10831863.53	10831863.73	0.0134	0.0063
Venus	24945-02-25 06:00 G	10832089.62	10832089.75	10832089.92	0.0134	0.0096
Venus	24945-10-09 11:45 G	10832315.94	10832315.99	10832316.06	0.0134	0.0128
Mercury	24948-09-03 15:07 G	10833376.10	10833376.13	10833376.16	0.0133	0.0131
Mercury	24948-11-30 20:09 G	10833464.26	10833464.34	10833464.45	0.0133	0.0110
Mercury	24949-02-27 01:40 G	10833552.45	10833552.57	10833552.70	0.0133	0.0089
Mercury	24949-05-26 06:57 G	10833640.65	10833640.79	10833640.94	0.0133	0.0068
Mercury	24949-08-22 12:00 G	10833728.85	10833729.00	10833729.16	0.0133	0.0048
Mercury	24949-11-18 17:16 G	10833817.06	10833817.22	10833817.39	0.0133	0.0028
Mercury	24950-02-14 22:19 G	10833905.27	10833905.43	10833905.60	0.0133	0.0008
Mercury	24950-05-14 03:21 G	10833993.48	10833993.64	10833993.81	0.0133	0.0013
Mercury	24950-08-10 08:24 G	10834081.70	10834081.85	10834082.02	0.0133	0.0033
Mercury	24950-11-06 13:26 G	10834169.91	10834170.06	10834170.21	0.0133	0.0052
Mercury	24951-02-02 18:14 G	10834258.13	10834258.26	10834258.41	0.0133	0.0072
Mercury	24951-05-01 23:16 G	10834346.35	10834346.47	10834346.59	0.0133	0.0091
Mercury	24951-07-29 04:04 G	10834434.59	10834434.67	10834434.76	0.0133	0.0110
Mercury	24951-10-25 08:38 G	10834522.84	10834522.86	10834522.91	0.0133	0.0130
Mars	24958-05-16 00:28 G	10836917.24	10836917.52	10836917.80	0.0133	0.0021
Moon	24977-12-06 01:12 G	10844061.41	10844061.55	10844061.71	0.0141	0.0116
Earth	24977-12-06 01:55 G	10844061.45	10844061.58	10844061.75	0.0141	0.0114 *
Moon	24978-12-10 20:52 G	10844431.14	10844431.37	10844431.61	0.0141	0.0038
Earth	24978-12-10 21:07 G	10844431.14	10844431.38	10844431.62	0.0141	0.0044 *
Moon	24979-12-15 16:48 G	10844800.94	10844801.20	10844801.46	0.0142	0.0019
Earth	24979-12-15 16:33 G	10844800.95	10844801.19	10844801.45	0.0142	0.0026 *
Moon	24980-12-19 11:16 G	10845170.82	10845170.97	10845171.16	0.0142	0.0103
Earth	24980-12-19 12:43 G	10845170.85	10845171.03	10845171.22	0.0142	0.0097 *
Venus	24984-10-20 18:14 G	10846572.18	10846572.26	10846572.37	0.0144	0.0129

Venus	24985-06-04 05:31 G	10846798.57	10846798.73	10846798.91	0.0144	0.0088
Venus	24986-01-16 16:48 G	10847025.01	10847025.20	10847025.42	0.0144	0.0047
Venus	24986-08-31 04:33 G	10847251.47	10847251.69	10847251.90	0.0144	0.0006
Venus	24987-04-14 15:50 G	10847477.96	10847478.16	10847478.38	0.0144	0.0036
Venus	24987-11-27 03:36 G	10847704.48	10847704.65	10847704.84	0.0145	0.0078
Venus	24988-07-10 15:07 G	10847931.03	10847931.13	10847931.27	0.0145	0.0120
Mercury	24991-02-26 07:40 G	10848891.77	10848891.82	10848891.88	0.0145	0.0134
Mercury	24991-05-25 12:14 G	10848979.93	10848980.01	10848980.11	0.0145	0.0112
Mercury	24991-08-21 17:02 G	10849068.10	10849068.21	10849068.32	0.0145	0.0090
Mercury	24991-11-17 21:36 G	10849156.27	10849156.40	10849156.53	0.0145	0.0067
Mercury	24992-02-14 02:24 G	10849244.46	10849244.60	10849244.74	0.0145	0.0044
Mercury	24992-05-12 07:12 G	10849332.65	10849332.80	10849332.94	0.0145	0.0021
Mercury	24992-08-08 12:00 G	10849420.85	10849421.00	10849421.15	0.0145	0.0003
Mercury	24992-11-04 16:48 G	10849509.05	10849509.20	10849509.35	0.0145	0.0026
Mercury	24993-01-31 21:36 G	10849597.26	10849597.40	10849597.54	0.0145	0.0050
Mercury	24993-04-30 02:38 G	10849685.48	10849685.61	10849685.74	0.0145	0.0073
Mercury	24993-07-27 07:26 G	10849773.71	10849773.81	10849773.93	0.0145	0.0098
Mercury	24993-10-23 12:28 G	10849861.94	10849862.02	10849862.11	0.0145	0.0122
Mars	24998-09-19 20:09 G	10851654.16	10851654.34	10851654.53	0.0145	0.0120

26TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 26th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Moon	25017-06-06 03:07 G	10858487.50	10858487.63	10858487.78	0.0138	0.0114
Earth	25017-06-06 02:38 G	10858487.51	10858487.61	10858487.75	0.0138	0.0121 *
Moon	25018-06-10 15:50 G	10858856.93	10858857.16	10858857.40	0.0137	0.0063
Earth	25018-06-10 16:04 G	10858856.95	10858857.17	10858857.42	0.0137	0.0057 *
Moon	25019-06-15 04:48 G	10859226.46	10859226.70	10859226.95	0.0137	0.0013
Earth	25019-06-15 05:16 G	10859226.47	10859226.72	10859226.98	0.0137	0.0008 *
Moon	25020-06-18 17:45 G	10859596.02	10859596.24	10859596.48	0.0136	0.0069
Earth	25020-06-18 17:31 G	10859596.03	10859596.23	10859596.46	0.0136	0.0072 *
Moon	25021-06-23 04:19 G	10859965.65	10859965.68	10859965.75	0.0136	0.0133
Earth	25021-06-23 05:02 G	10859965.69	10859965.71	10859965.78	0.0136	0.0134 *
Venus	25025-02-07 04:33 G	10861290.60	10861290.69	10861290.81	0.0135	0.0119
Venus	25025-09-21 11:02 G	10861516.80	10861516.96	10861517.13	0.0135	0.0085
Venus	25026-05-05 17:16 G	10861743.03	10861743.22	10861743.43	0.0134	0.0051
Venus	25026-12-17 23:16 G	10861969.26	10861969.47	10861969.69	0.0134	0.0018
Venus	25027-08-01 05:02 G	10862195.50	10862195.71	10862195.94	0.0134	0.0016
Venus	25028-03-14 10:48 G	10862421.75	10862421.95	10862422.16	0.0134	0.0049
Venus	25028-10-26 16:19 G	10862648.02	10862648.18	10862648.37	0.0134	0.0082
Venus	25029-06-09 21:50 G	10862874.32	10862874.41	10862874.54	0.0134	0.0115
Mercury	25032-09-24 22:19 G	10864077.38	10864077.43	10864077.50	0.0133	0.0124
Mercury	25032-12-22 03:50 G	10864165.55	10864165.66	10864165.76	0.0133	0.0103
Mercury	25033-03-20 08:52 G	10864253.75	10864253.87	10864254.01	0.0133	0.0083
Mercury	25033-06-16 14:09 G	10864341.95	10864342.09	10864342.25	0.0133	0.0062
Mercury	25033-09-12 19:26 G	10864430.16	10864430.31	10864430.47	0.0133	0.0042
Mercury	25033-12-10 00:43 G	10864518.36	10864518.53	10864518.69	0.0133	0.0021
Mercury	25034-03-08 05:45 G	10864606.57	10864606.74	10864606.91	0.0133	0.0002
Mercury	25034-06-04 10:48 G	10864694.79	10864694.95	10864695.12	0.0133	0.0019
Mercury	25034-08-31 15:50 G	10864783.00	10864783.16	10864783.32	0.0133	0.0039
Mercury	25034-11-27 20:38 G	10864871.22	10864871.36	10864871.52	0.0133	0.0059
Mercury	25035-02-24 01:40 G	10864959.44	10864959.57	10864959.71	0.0133	0.0078
Mercury	25035-05-23 06:43 G	10865047.67	10865047.78	10865047.89	0.0133	0.0097

Mercury	25035-08-19 11:16 G	10865135.91	10865135.97	10865136.06	0.0133	0.0117
Mars	25041-02-09 04:33 G	10867136.61	10867136.69	10867136.80	0.0133	0.0125
Mars	25043-01-09 04:19 G	10867835.43	10867835.68	10867835.96	0.0134	0.0046
Moon	25061-12-07 10:33 G	10874742.79	10874742.94	10874743.13	0.0141	0.0108
Earth	25061-12-07 12:00 G	10874742.86	10874743.00	10874743.17	0.0141	0.0111 *
Earth	25062-12-12 06:57 G	10875112.55	10875112.79	10875113.04	0.0141	0.0041
Moon	25062-12-12 07:55 G	10875112.61	10875112.83	10875113.07	0.0141	0.0047 *
Moon	25063-12-17 02:09 G	10875482.35	10875482.59	10875482.86	0.0142	0.0037
Earth	25063-12-17 02:24 G	10875482.36	10875482.60	10875482.86	0.0142	0.0029 *
Moon	25064-12-20 22:19 G	10875852.26	10875852.43	10875852.62	0.0142	0.0094
Earth	25064-12-20 22:19 G	10875852.26	10875852.43	10875852.62	0.0142	0.0100 *
Venus	25069-02-02 11:45 G	10877356.85	10877356.99	10877357.14	0.0144	0.0106
Venus	25069-09-16 23:02 G	10877583.27	10877583.46	10877583.65	0.0144	0.0065
Venus	25070-05-01 10:19 G	10877809.72	10877809.93	10877810.15	0.0144	0.0024
Venus	25070-12-13 21:50 G	10878036.20	10878036.41	10878036.63	0.0144	0.0017
Venus	25071-07-28 09:21 G	10878262.70	10878262.89	10878263.09	0.0144	0.0059
Venus	25072-03-10 20:52 G	10878489.23	10878489.37	10878489.54	0.0145	0.0101
Venus	25072-10-23 08:52 G	10878715.84	10878715.87	10878715.92	0.0145	0.0142
Mercury	25075-03-19 14:52 G	10879593.06	10879593.12	10879593.19	0.0145	0.0129
Mercury	25075-06-15 19:26 G	10879681.22	10879681.31	10879681.41	0.0145	0.0107
Mercury	25075-09-12 00:14 G	10879769.39	10879769.51	10879769.62	0.0145	0.0084
Mercury	25075-12-09 04:33 G	10879857.57	10879857.69	10879857.83	0.0145	0.0063
Mercury	25076-03-06 09:21 G	10879945.76	10879945.89	10879946.04	0.0145	0.0039
Mercury	25076-06-02 14:09 G	10880033.95	10880034.09	10880034.24	0.0145	0.0016
Mercury	25076-08-29 18:57 G	10880122.15	10880122.29	10880122.44	0.0145	0.0009
Mercury	25076-11-25 23:45 G	10880210.35	10880210.49	10880210.64	0.0145	0.0032
Mercury	25077-02-22 04:33 G	10880298.56	10880298.69	10880298.84	0.0145	0.0056
Mercury	25077-05-21 09:36 G	10880386.78	10880386.90	10880387.03	0.0145	0.0079
Mercury	25077-08-17 14:38 G	10880475.01	10880475.11	10880475.22	0.0145	0.0103
Mercury	25077-11-13 19:26 G	10880563.25	10880563.31	10880563.39	0.0145	0.0127

Mars	25083-05-18 07:40 G	10882574.49	10882574.82	10882575.15	0.0145	0.0020
Earth	25101-06-07 13:12 G	10889168.94	10889169.05	10889169.20	0.0138	0.0118
Moon	25101-06-07 14:38 G	10889169.02	10889169.11	10889169.23	0.0138	0.0124 *
Moon	25102-06-12 02:38 G	10889538.37	10889538.61	10889538.86	0.0137	0.0046
Earth	25102-06-12 03:21 G	10889538.41	10889538.64	10889538.88	0.0137	0.0053 *
Earth	25103-06-16 16:19 G	10889907.93	10889908.18	10889908.44	0.0137	0.0012
Moon	25103-06-16 17:16 G	10889907.97	10889908.22	10889908.46	0.0137	0.0006 *
Moon	25104-06-20 04:33 G	10890277.49	10890277.69	10890277.93	0.0136	0.0078
Earth	25104-06-20 04:33 G	10890277.50	10890277.69	10890277.92	0.0136	0.0076 *
Venus	25108-10-08 14:38 G	10891849.08	10891849.11	10891849.16	0.0135	0.0132
Venus	25109-05-22 20:52 G	10892075.24	10892075.37	10892075.54	0.0135	0.0099
Venus	25110-01-04 03:21 G	10892301.46	10892301.64	10892301.84	0.0135	0.0065
Venus	25110-08-18 09:21 G	10892527.69	10892527.89	10892528.11	0.0134	0.0032
Venus	25111-04-01 15:36 G	10892753.93	10892754.15	10892754.37	0.0134	0.0003
Venus	25111-11-13 21:21 G	10892980.18	10892980.39	10892980.60	0.0134	0.0035
Venus	25112-06-27 03:07 G	10893206.44	10893206.63	10893206.82	0.0134	0.0068
Venus	25113-02-08 08:38 G	10893432.72	10893432.86	10893433.01	0.0134	0.0101
Venus	25113-09-22 14:09 G	10893659.09	10893659.09	10893659.11	0.0134	0.0133
Mercury	25116-10-16 06:00 G	10894778.67	10894778.75	10894778.83	0.0133	0.0117
Mercury	25117-01-12 11:02 G	10894866.86	10894866.96	10894867.09	0.0133	0.0097
Mercury	25117-04-10 16:19 G	10894955.05	10894955.18	10894955.33	0.0133	0.0076
Mercury	25117-07-07 21:50 G	10895043.26	10895043.41	10895043.56	0.0133	0.0055
Mercury	25117-10-04 02:52 G	10895131.46	10895131.62	10895131.79	0.0133	0.0035
Mercury	25117-12-31 08:09 G	10895219.67	10895219.84	10895220.01	0.0133	0.0014
Mercury	25118-03-29 13:12 G	10895307.89	10895308.05	10895308.22	0.0133	0.0006
Mercury	25118-06-25 18:14 G	10895396.10	10895396.26	10895396.43	0.0133	0.0026
Mercury	25118-09-21 23:16 G	10895484.32	10895484.47	10895484.63	0.0133	0.0046
Mercury	25118-12-19 04:19 G	10895572.54	10895572.68	10895572.82	0.0133	0.0065
Mercury	25119-03-17 09:07 G	10895660.76	10895660.88	10895661.01	0.0133	0.0085
Mercury	25119-06-13 14:09 G	10895748.99	10895749.09	10895749.19	0.0133	0.0104

Mercury	25119-09-09 18:57 G	10895837.24	10895837.29	10895837.35	0.0133	0.0123
Mars	25125-10-05 09:50 G	10898054.67	10898054.91	10898055.18	0.0133	0.0058
Mars	25127-09-04 09:21 G	10898753.76	10898753.89	10898754.06	0.0134	0.0113
Moon	25145-12-08 20:52 G	10905424.22	10905424.37	10905424.55	0.0141	0.0108
Earth	25145-12-08 23:16 G	10905424.31	10905424.47	10905424.64	0.0141	0.0107 *
Earth	25146-12-13 17:45 G	10905794.01	10905794.24	10905794.50	0.0141	0.0038
Moon	25146-12-13 19:12 G	10905794.06	10905794.30	10905794.54	0.0141	0.0032 *
Moon	25147-12-18 12:00 G	10906163.74	10906164.00	10906164.26	0.0141	0.0026
Earth	25147-12-18 12:57 G	10906163.81	10906164.04	10906164.30	0.0141	0.0034 *
Earth	25148-12-22 08:52 G	10906533.71	10906533.87	10906534.05	0.0142	0.0104
Moon	25148-12-22 09:21 G	10906533.74	10906533.89	10906534.04	0.0142	0.0110 *
Venus	25152-10-03 18:14 G	10907915.16	10907915.26	10907915.38	0.0143	0.0124
Venus	25153-05-18 05:16 G	10908141.55	10908141.72	10908141.91	0.0144	0.0084
Venus	25153-12-30 16:33 G	10908367.99	10908368.19	10908368.40	0.0144	0.0043
Venus	25154-08-14 04:04 G	10908594.45	10908594.67	10908594.88	0.0144	0.0003
Venus	25155-03-28 15:21 G	10908820.94	10908821.14	10908821.35	0.0144	0.0040
Venus	25155-11-10 02:52 G	10909047.46	10909047.62	10909047.81	0.0144	0.0082
Venus	25156-06-23 14:52 G	10909274.01	10909274.12	10909274.24	0.0145	0.0123
Mercury	25159-04-09 22:04 G	10910294.35	10910294.42	10910294.49	0.0145	0.0124
Mercury	25159-07-07 02:24 G	10910382.51	10910382.60	10910382.71	0.0145	0.0102
Mercury	25159-10-03 07:12 G	10910470.68	10910470.80	10910470.93	0.0145	0.0079
Mercury	25159-12-30 11:45 G	10910558.86	10910558.99	10910559.13	0.0145	0.0057
Mercury	25160-03-27 16:33 G	10910647.05	10910647.19	10910647.34	0.0145	0.0034
Mercury	25160-06-23 21:21 G	10910735.24	10910735.39	10910735.54	0.0145	0.0011
Mercury	25160-09-20 02:09 G	10910823.44	10910823.59	10910823.74	0.0145	0.0013
Mercury	25160-12-17 06:57 G	10910911.65	10910911.79	10910911.94	0.0145	0.0036
Mercury	25161-03-15 11:45 G	10910999.86	10910999.99	10911000.13	0.0145	0.0060
Mercury	25161-06-11 16:48 G	10911088.08	10911088.20	10911088.32	0.0145	0.0084
Mercury	25161-09-07 21:21 G	10911176.31	10911176.39	10911176.51	0.0145	0.0109
Mercury	25161-12-05 02:24 G	10911264.55	10911264.60	10911264.67	0.0145	0.0132

Mars	25168-01-13 16:19 G	10913494.91	10913495.18	10913495.47	0.0145	0.0079
Earth	25185-06-07 21:50 G	10919850.29	10919850.41	10919850.56	0.0138	0.0116
Moon	25185-06-07 23:31 G	10919850.35	10919850.48	10919850.64	0.0138	0.0110 *
Moon	25186-06-12 09:50 G	10920219.68	10920219.91	10920220.16	0.0137	0.0058
Earth	25186-06-12 11:45 G	10920219.76	10920219.99	10920220.23	0.0137	0.0051 *
Earth	25187-06-17 01:12 G	10920589.30	10920589.55	10920589.80	0.0137	0.0014
Moon	25187-06-17 01:55 G	10920589.34	10920589.58	10920589.83	0.0137	0.0020 *
Moon	25188-06-20 12:14 G	10920958.81	10920959.01	10920959.25	0.0137	0.0074
Earth	25188-06-20 13:40 G	10920958.87	10920959.07	10920959.29	0.0137	0.0078 *
Venus	25193-01-20 05:45 G	10922633.63	10922633.74	10922633.87	0.0135	0.0113
Venus	25193-09-03 12:00 G	10922859.84	10922860.00	10922860.19	0.0135	0.0080
Venus	25194-04-17 18:28 G	10923086.07	10923086.27	10923086.48	0.0135	0.0046
Venus	25194-11-30 00:28 G	10923312.31	10923312.52	10923312.74	0.0134	0.0013
Venus	25195-07-14 06:28 G	10923538.56	10923538.77	10923538.99	0.0134	0.0021
Venus	25196-02-25 12:00 G	10923764.81	10923765.00	10923765.21	0.0134	0.0054
Venus	25196-10-08 17:45 G	10923991.09	10923991.24	10923991.42	0.0134	0.0087
Venus	25197-05-22 23:45 G	10924217.40	10924217.49	10924217.59	0.0134	0.0119
Mercury	25200-08-09 07:40 G	10925391.82	10925391.82	10925391.82	0.0133	0.0133
Mercury	25200-11-05 12:43 G	10925479.96	10925480.03	10925480.13	0.0133	0.0113
Mercury	25201-02-01 18:14 G	10925568.14	10925568.26	10925568.39	0.0133	0.0091
Mercury	25201-04-30 23:31 G	10925656.34	10925656.48	10925656.63	0.0133	0.0071
Mercury	25201-07-28 04:48 G	10925744.55	10925744.70	10925744.86	0.0133	0.0050
Mercury	25201-10-24 10:04 G	10925832.76	10925832.92	10925833.09	0.0133	0.0029
Mercury	25202-01-20 15:21 G	10925920.97	10925921.14	10925921.30	0.0133	0.0009
Mercury	25202-04-18 20:24 G	10926009.19	10926009.35	10926009.52	0.0133	0.0011
Mercury	25202-07-16 01:26 G	10926097.40	10926097.56	10926097.72	0.0133	0.0031
Mercury	25202-10-12 06:28 G	10926185.62	10926185.77	10926185.93	0.0133	0.0051
Mercury	25203-01-08 11:16 G	10926273.84	10926273.97	10926274.12	0.0133	0.0071
Mercury	25203-04-06 16:33 G	10926362.07	10926362.19	10926362.31	0.0133	0.0090
Mercury	25203-07-03 21:07 G	10926450.30	10926450.38	10926450.48	0.0133	0.0110

Mercury	25203-09-30 02:09 G	10926538.56	10926538.59	10926538.63	0.0133	0.0129
Mars	25210-05-30 14:52 G	10928972.84	10928973.12	10928973.41	0.0133	0.0010
Saturn	25211-07-20 06:00 G	10929388.49	10929388.75	10929389.11	0.0134	0.0116
Jupiter	25228-11-07 23:16 G	10935708.98	10935709.47	10935709.97	0.0140	0.0001
Moon	25229-12-09 08:52 G	10936105.70	10936105.87	10936106.06	0.0141	0.0101
Earth	25229-12-09 11:31 G	10936105.81	10936105.98	10936106.15	0.0141	0.0103 *
Earth	25230-12-14 06:00 G	10936475.50	10936475.75	10936476.00	0.0141	0.0033
Moon	25230-12-14 08:09 G	10936475.61	10936475.84	10936476.08	0.0141	0.0038 *
Moon	25231-12-18 23:31 G	10936845.24	10936845.48	10936845.74	0.0141	0.0044
Earth	25231-12-19 00:57 G	10936845.30	10936845.54	10936845.79	0.0141	0.0037 *
Earth	25232-12-22 20:09 G	10937215.20	10937215.34	10937215.53	0.0142	0.0109
Moon	25232-12-22 21:36 G	10937215.25	10937215.40	10937215.59	0.0142	0.0102 *
Venus	25236-06-03 01:26 G	10938473.54	10938473.56	10938473.62	0.0143	0.0141
Venus	25237-01-15 12:28 G	10938699.88	10938700.02	10938700.19	0.0144	0.0101
Venus	25237-08-29 23:45 G	10938926.30	10938926.49	10938926.69	0.0144	0.0060
Venus	25238-04-13 11:02 G	10939152.75	10939152.96	10939153.18	0.0144	0.0019
Venus	25238-11-25 22:33 G	10939379.23	10939379.44	10939379.65	0.0144	0.0022
Venus	25239-07-10 09:50 G	10939605.72	10939605.91	10939606.11	0.0144	0.0064
Venus	25240-02-21 21:36 G	10939832.26	10939832.40	10939832.55	0.0144	0.0105
Mercury	25243-02-01 00:43 G	10940907.51	10940907.53	10940907.57	0.0145	0.0140
Mercury	25243-04-30 05:16 G	10940995.65	10940995.72	10940995.81	0.0145	0.0118
Mercury	25243-07-27 09:50 G	10941083.81	10941083.91	10941084.03	0.0145	0.0096
Mercury	25243-10-23 14:38 G	10941171.99	10941172.11	10941172.24	0.0145	0.0073
Mercury	25244-01-19 19:26 G	10941260.17	10941260.31	10941260.44	0.0145	0.0050
Mercury	25244-04-17 00:00 G	10941348.36	10941348.50	10941348.65	0.0145	0.0028
Mercury	25244-07-14 04:48 G	10941436.55	10941436.70	10941436.85	0.0145	0.0004
Mercury	25244-10-10 09:36 G	10941524.75	10941524.90	10941525.05	0.0145	0.0019
Mercury	25245-01-06 14:24 G	10941612.96	10941613.10	10941613.24	0.0145	0.0042
Mercury	25245-04-04 19:12 G	10941701.17	10941701.30	10941701.43	0.0145	0.0066
Mercury	25245-07-02 00:00 G	10941789.39	10941789.50	10941789.62	0.0145	0.0090

Mercury	25245-09-28 04:48 G	10941877.62	10941877.70	10941877.80	0.0145	0.0115
Mercury	25245-12-25 09:50 G	10941965.88	10941965.91	10941965.96	0.0145	0.0138
Mars	25250-10-02 23:16 G	10943708.23	10943708.47	10943708.75	0.0145	0.0089
Earth	25269-06-08 08:09 G	10950531.70	10950531.84	10950531.98	0.0138	0.0113
Moon	25269-06-08 10:19 G	10950531.82	10950531.93	10950532.07	0.0138	0.0119 *
Moon	25270-06-12 20:09 G	10950901.09	10950901.34	10950901.59	0.0137	0.0041
Earth	25270-06-12 21:50 G	10950901.18	10950901.41	10950901.66	0.0137	0.0049 *
Earth	25271-06-17 11:16 G	10951270.72	10951270.97	10951271.23	0.0137	0.0017
Moon	25271-06-17 13:26 G	10951270.82	10951271.06	10951271.31	0.0137	0.0010 *
Moon	25272-06-20 22:19 G	10951640.24	10951640.43	10951640.65	0.0137	0.0085
Earth	25272-06-20 23:45 G	10951640.30	10951640.49	10951640.71	0.0137	0.0081 *
Venus	25276-09-19 15:07 G	10953192.07	10953192.13	10953192.21	0.0135	0.0127
Venus	25277-05-03 21:36 G	10953418.25	10953418.40	10953418.57	0.0135	0.0094
Venus	25277-12-16 04:04 G	10953644.48	10953644.67	10953644.87	0.0135	0.0060
Venus	25278-07-30 10:04 G	10953870.71	10953870.92	10953871.14	0.0135	0.0027
Venus	25279-03-13 16:04 G	10954096.96	10954097.17	10954097.39	0.0134	0.0007
Venus	25279-10-25 21:50 G	10954323.21	10954323.41	10954323.63	0.0134	0.0041
Venus	25280-06-08 03:50 G	10954549.49	10954549.66	10954549.85	0.0134	0.0073
Venus	25281-01-20 09:21 G	10954775.78	10954775.89	10954776.04	0.0134	0.0106
Mercury	25284-08-29 14:38 G	10956093.08	10956093.11	10956093.17	0.0133	0.0128
Mercury	25284-11-25 20:09 G	10956181.25	10956181.34	10956181.45	0.0133	0.0106
Mercury	25285-02-22 01:26 G	10956269.44	10956269.56	10956269.70	0.0133	0.0085
Mercury	25285-05-21 06:57 G	10956357.64	10956357.79	10956357.94	0.0133	0.0064
Mercury	25285-08-17 12:14 G	10956445.85	10956446.01	10956446.17	0.0133	0.0044
Mercury	25285-11-13 17:31 G	10956534.06	10956534.23	10956534.39	0.0133	0.0023
Mercury	25286-02-09 22:33 G	10956622.28	10956622.44	10956622.61	0.0133	0.0003
Mercury	25286-05-09 03:36 G	10956710.49	10956710.65	10956710.82	0.0133	0.0018
Mercury	25286-08-05 08:52 G	10956798.71	10956798.87	10956799.03	0.0133	0.0037
Mercury	25286-11-01 13:40 G	10956886.93	10956887.07	10956887.23	0.0133	0.0058
Mercury	25287-01-28 18:43 G	10956975.15	10956975.28	10956975.42	0.0133	0.0077

Mercury	25287-04-26 23:45 G	10957063.38	10957063.49	10957063.60	0.0133	0.0096
Mercury	25287-07-24 04:19 G	10957151.62	10957151.68	10957151.77	0.0133	0.0117
Mars	25293-02-22 17:45 G	10959192.06	10959192.24	10959192.46	0.0133	0.0096
Mars	25295-01-22 18:28 G	10959891.05	10959891.27	10959891.51	0.0134	0.0078
Moon	25313-12-10 21:07 G	10966787.20	10966787.38	10966787.57	0.0141	0.0098
Earth	25313-12-11 00:00 G	10966787.33	10966787.50	10966787.69	0.0141	0.0099 *
Earth	25314-12-15 18:43 G	10967157.03	10967157.28	10967157.53	0.0141	0.0029
Moon	25314-12-15 20:52 G	10967157.13	10967157.37	10967157.62	0.0141	0.0024 *
Moon	25315-12-20 11:02 G	10967526.72	10967526.96	10967527.22	0.0141	0.0036
Earth	25315-12-20 13:40 G	10967526.83	10967527.07	10967527.32	0.0141	0.0042 *
Earth	25316-12-24 09:21 G	10967896.74	10967896.89	10967897.05	0.0142	0.0113
Moon	25316-12-24 10:48 G	10967896.83	10967896.95	10967897.09	0.0142	0.0120 *
Venus	25320-09-15 20:38 G	10969258.26	10969258.36	10969258.51	0.0143	0.0117
Venus	25321-04-30 08:09 G	10969484.66	10969484.84	10969485.02	0.0144	0.0076
Venus	25321-12-12 19:12 G	10969711.09	10969711.30	10969711.52	0.0144	0.0035
Venus	25322-07-27 06:28 G	10969937.56	10969937.77	10969937.99	0.0144	0.0006
Venus	25323-03-10 17:45 G	10970164.04	10970164.24	10970164.46	0.0144	0.0047
Venus	25323-10-23 05:31 G	10970390.57	10970390.73	10970390.91	0.0144	0.0088
Venus	25324-06-05 17:02 G	10970617.13	10970617.21	10970617.32	0.0144	0.0130
Mercury	25327-02-22 08:24 G	10971608.81	10971608.85	10971608.92	0.0145	0.0133
Mercury	25327-05-21 13:12 G	10971696.96	10971697.05	10971697.14	0.0145	0.0110
Mercury	25327-08-17 17:45 G	10971785.13	10971785.24	10971785.36	0.0145	0.0088
Mercury	25327-11-13 22:19 G	10971873.30	10971873.43	10971873.56	0.0145	0.0066
Mercury	25328-02-10 02:52 G	10971961.49	10971961.62	10971961.77	0.0145	0.0043
Mercury	25328-05-08 07:40 G	10972049.68	10972049.82	10972049.97	0.0145	0.0020
Mercury	25328-08-04 12:28 G	10972137.87	10972138.02	10972138.17	0.0145	0.0003
Mercury	25328-10-31 17:16 G	10972226.07	10972226.22	10972226.36	0.0145	0.0026
Mercury	25329-01-27 22:04 G	10972314.28	10972314.42	10972314.56	0.0145	0.0050
Mercury	25329-04-26 02:52 G	10972402.49	10972402.62	10972402.75	0.0145	0.0074
Mercury	25329-07-23 07:40 G	10972490.72	10972490.82	10972490.94	0.0145	0.0098

Mercury	25329-10-19 12:43 G	10972578.95	10972579.03	10972579.11	0.0145	0.0121
Mars	25335-05-31 13:40 G	10974628.74	10974629.07	10974629.40	0.0145	0.0014
Earth	25353-06-09 17:31 G	10981213.09	10981213.23	10981213.38	0.0138	0.0111
Moon	25353-06-09 20:24 G	10981213.19	10981213.35	10981213.51	0.0138	0.0105 *
Moon	25354-06-14 04:19 G	10981582.45	10981582.68	10981582.93	0.0137	0.0052
Earth	25354-06-14 07:26 G	10981582.57	10981582.81	10981583.05	0.0137	0.0046 *
Earth	25355-06-18 20:38 G	10981952.11	10981952.36	10981952.62	0.0137	0.0019
Moon	25355-06-18 22:48 G	10981952.21	10981952.45	10981952.70	0.0137	0.0026 *
Moon	25356-06-22 06:28 G	10982321.57	10982321.77	10982322.00	0.0137	0.0078
Earth	25356-06-22 09:07 G	10982321.70	10982321.88	10982322.10	0.0137	0.0084 *
Venus	25361-01-02 06:28 G	10983976.64	10983976.77	10983976.90	0.0135	0.0108
Venus	25361-08-16 12:28 G	10984202.85	10984203.02	10984203.22	0.0135	0.0075
Venus	25362-03-30 18:43 G	10984429.09	10984429.28	10984429.50	0.0135	0.0042
Venus	25362-11-12 01:12 G	10984655.33	10984655.55	10984655.77	0.0135	0.0008
Venus	25363-06-26 07:12 G	10984881.59	10984881.80	10984882.02	0.0134	0.0026
Venus	25364-02-07 12:57 G	10985107.85	10985108.04	10985108.25	0.0134	0.0059
Venus	25364-09-20 18:43 G	10985334.14	10985334.28	10985334.45	0.0134	0.0092
Venus	25365-05-05 00:43 G	10985560.46	10985560.53	10985560.62	0.0134	0.0124
Mercury	25368-09-19 22:04 G	10986794.35	10986794.42	10986794.48	0.0133	0.0122
Mercury	25368-12-17 03:21 G	10986882.53	10986882.64	10986882.75	0.0133	0.0101
Mercury	25369-03-15 08:24 G	10986970.73	10986970.85	10986971.00	0.0133	0.0081
Mercury	25369-06-11 13:55 G	10987058.93	10987059.08	10987059.24	0.0133	0.0059
Mercury	25369-09-07 19:12 G	10987147.14	10987147.30	10987147.46	0.0133	0.0039
Mercury	25369-12-05 00:28 G	10987235.35	10987235.52	10987235.69	0.0133	0.0018
Mercury	25370-03-03 05:45 G	10987323.57	10987323.74	10987323.90	0.0133	0.0004
Mercury	25370-05-30 10:48 G	10987411.79	10987411.95	10987412.11	0.0133	0.0023
Mercury	25370-08-26 15:50 G	10987500.00	10987500.16	10987500.32	0.0133	0.0043
Mercury	25370-11-22 20:52 G	10987588.22	10987588.37	10987588.52	0.0133	0.0062
Mercury	25371-02-19 01:40 G	10987676.45	10987676.57	10987676.71	0.0133	0.0082
Mercury	25371-05-18 06:43 G	10987764.68	10987764.78	10987764.89	0.0133	0.0102

Mercury	25371-08-14 11:31 G	10987852.92	10987852.98	10987853.06	0.0133	0.0121
Mars	25377-10-18 20:52 G	10990110.09	10990110.37	10990110.65	0.0134	0.0028
Moon	25397-12-11 08:24 G	10997468.67	10997468.85	10997469.05	0.0141	0.0094
Earth	25397-12-11 11:31 G	10997468.81	10997468.98	10997469.18	0.0141	0.0095 *
Earth	25398-12-16 06:00 G	10997838.50	10997838.75	10997839.01	0.0141	0.0025
Moon	25398-12-16 09:07 G	10997838.64	10997838.88	10997839.13	0.0141	0.0028 *
Moon	25399-12-20 22:33 G	10998208.21	10998208.44	10998208.69	0.0141	0.0053
Earth	25399-12-21 01:12 G	10998208.31	10998208.55	10998208.79	0.0141	0.0046 *
Earth	25400-12-25 20:24 G	10998578.23	10998578.35	10998578.51	0.0142	0.0118
Moon	25400-12-25 23:16 G	10998578.32	10998578.47	10998578.63	0.0142	0.0110 *
Venus	25404-05-17 04:33 G	10999816.63	10999816.69	10999816.79	0.0143	0.0132
Venus	25404-12-29 15:36 G	11000043.00	11000043.15	11000043.33	0.0143	0.0092
Venus	25405-08-13 02:52 G	11000269.42	11000269.62	11000269.82	0.0144	0.0052
Venus	25406-03-27 14:09 G	11000495.87	11000496.09	11000496.31	0.0144	0.0011
Venus	25406-11-09 01:40 G	11000722.36	11000722.57	11000722.79	0.0144	0.0030
Venus	25407-06-23 12:57 G	11000948.87	11000949.04	11000949.24	0.0144	0.0072
Venus	25408-02-05 00:43 G	11001175.40	11001175.53	11001175.67	0.0144	0.0112
Mercury	25411-03-15 16:19 G	11002310.11	11002310.18	11002310.25	0.0145	0.0125
Mercury	25411-06-11 20:38 G	11002398.27	11002398.36	11002398.47	0.0145	0.0103
Mercury	25411-09-08 01:12 G	11002486.44	11002486.55	11002486.68	0.0145	0.0081
Mercury	25411-12-05 06:00 G	11002574.62	11002574.75	11002574.89	0.0145	0.0058
Mercury	25412-03-02 10:33 G	11002662.80	11002662.94	11002663.09	0.0145	0.0036
Mercury	25412-05-29 15:21 G	11002750.99	11002751.14	11002751.29	0.0145	0.0013
Mercury	25412-08-25 20:09 G	11002839.19	11002839.34	11002839.49	0.0145	0.0011
Mercury	25412-11-22 00:57 G	11002927.39	11002927.54	11002927.68	0.0145	0.0034
Mercury	25413-02-18 05:45 G	11003015.60	11003015.74	11003015.87	0.0145	0.0057
Mercury	25413-05-17 10:33 G	11003103.82	11003103.94	11003104.06	0.0145	0.0081
Mercury	25413-08-13 15:21 G	11003192.04	11003192.14	11003192.25	0.0145	0.0105
Mercury	25413-11-09 20:09 G	11003280.28	11003280.34	11003280.42	0.0145	0.0129
Mars	25420-01-27 06:00 G	11005549.56	11005549.75	11005549.94	0.0145	0.0119

Jupiter	25436-09-21 09:21 G	11011631.53	11011631.89	11011632.32	0.0138	0.0095
Earth	25437-06-11 04:19 G	11011894.53	11011894.68	11011894.84	0.0138	0.0108
Moon	25437-06-11 07:12 G	11011894.68	11011894.80	11011894.97	0.0138	0.0113 *
Moon	25438-06-15 15:21 G	11012263.89	11012264.14	11012264.39	0.0137	0.0035
Earth	25438-06-15 18:28 G	11012264.03	11012264.27	11012264.51	0.0137	0.0043 *
Earth	25439-06-20 07:26 G	11012633.56	11012633.81	11012634.07	0.0137	0.0023
Moon	25439-06-20 10:33 G	11012633.70	11012633.94	11012634.19	0.0137	0.0015 *
Moon	25440-06-23 17:02 G	11013003.03	11013003.21	11013003.42	0.0137	0.0092
Earth	25440-06-23 19:40 G	11013003.14	11013003.32	11013003.53	0.0137	0.0087 *
Venus	25444-09-02 15:36 G	11014535.07	11014535.15	11014535.25	0.0135	0.0122
Venus	25445-04-16 22:04 G	11014761.27	11014761.42	11014761.60	0.0135	0.0089
Venus	25445-11-29 04:33 G	11014987.50	11014987.69	11014987.89	0.0135	0.0055
Venus	25446-07-13 10:48 G	11015213.74	11015213.95	11015214.17	0.0135	0.0021
Venus	25447-02-24 16:48 G	11015439.99	11015440.20	11015440.42	0.0134	0.0012
Venus	25447-10-08 22:48 G	11015666.25	11015666.45	11015666.66	0.0134	0.0045
Venus	25448-05-22 04:48 G	11015892.53	11015892.70	11015892.88	0.0134	0.0078
Venus	25449-01-03 10:33 G	11016118.83	11016118.94	11016119.07	0.0134	0.0111
Mercury	25452-10-11 04:48 G	11017495.63	11017495.70	11017495.80	0.0133	0.0117
Mercury	25453-01-07 10:19 G	11017583.82	11017583.93	11017584.06	0.0133	0.0095
Mercury	25453-04-05 15:36 G	11017672.02	11017672.15	11017672.30	0.0133	0.0075
Mercury	25453-07-02 21:07 G	11017760.23	11017760.38	11017760.54	0.0133	0.0053
Mercury	25453-09-29 02:24 G	11017848.44	11017848.60	11017848.77	0.0133	0.0033
Mercury	25453-12-26 07:40 G	11017936.65	11017936.82	11017936.99	0.0133	0.0012
Mercury	25454-03-24 12:43 G	11018024.87	11018025.03	11018025.20	0.0133	0.0009
Mercury	25454-06-20 18:00 G	11018113.09	11018113.25	11018113.41	0.0133	0.0028
Mercury	25454-09-16 22:48 G	11018201.30	11018201.45	11018201.61	0.0133	0.0049
Mercury	25454-12-14 03:50 G	11018289.53	11018289.66	11018289.81	0.0133	0.0068
Mercury	25455-03-12 08:52 G	11018377.75	11018377.87	11018378.00	0.0133	0.0088
Mercury	25455-06-08 13:40 G	11018465.99	11018466.07	11018466.18	0.0133	0.0107
Mercury	25455-09-04 18:43 G	11018554.24	11018554.28	11018554.33	0.0133	0.0126

Mars	25462-06-13 23:45 G	11021028.22	11021028.49	11021028.77	0.0134	0.0040
Moon	25481-12-12 18:14 G	11028150.08	11028150.26	11028150.47	0.0141	0.0090
Earth	25481-12-12 21:50 G	11028150.23	11028150.41	11028150.61	0.0141	0.0092 *
Earth	25482-12-17 16:19 G	11028519.94	11028520.18	11028520.44	0.0141	0.0022
Moon	25482-12-17 19:40 G	11028520.07	11028520.32	11028520.57	0.0141	0.0017 *
Moon	25483-12-22 07:55 G	11028889.60	11028889.83	11028890.09	0.0141	0.0044
Earth	25483-12-22 11:31 G	11028889.75	11028889.98	11028890.22	0.0141	0.0050 *
Earth	25484-12-26 06:57 G	11029259.67	11029259.79	11029259.93	0.0142	0.0121
Moon	25484-12-26 09:50 G	11029259.81	11029259.91	11029260.01	0.0142	0.0128 *
Venus	25488-08-28 22:33 G	11030601.31	11030601.44	11030601.59	0.0143	0.0109
Venus	25489-04-12 09:36 G	11030827.73	11030827.90	11030828.11	0.0143	0.0070
Venus	25489-11-24 21:07 G	11031054.17	11031054.38	11031054.60	0.0144	0.0029
Venus	25490-07-09 08:38 G	11031280.64	11031280.86	11031281.08	0.0144	0.0012
Venus	25491-02-20 20:09 G	11031507.14	11031507.34	11031507.54	0.0144	0.0053
Venus	25491-10-05 07:40 G	11031733.66	11031733.82	11031733.99	0.0144	0.0095
Venus	25492-05-18 19:12 G	11031960.24	11031960.30	11031960.38	0.0144	0.0136
Mercury	25495-01-06 18:57 G	11032923.27	11032923.29	11032923.33	0.0145	0.0141
Mercury	25495-04-04 23:31 G	11033011.41	11033011.48	11033011.57	0.0145	0.0119
Mercury	25495-07-02 04:04 G	11033099.57	11033099.67	11033099.79	0.0145	0.0097
Mercury	25495-09-28 08:52 G	11033187.74	11033187.87	11033187.99	0.0145	0.0074
Mercury	25495-12-25 13:26 G	11033275.92	11033276.06	11033276.20	0.0145	0.0052
Mercury	25496-03-22 18:00 G	11033364.11	11033364.25	11033364.40	0.0145	0.0029
Mercury	25496-06-18 22:48 G	11033452.30	11033452.45	11033452.60	0.0145	0.0006
Mercury	25496-09-15 03:36 G	11033540.50	11033540.65	11033540.79	0.0145	0.0017
Mercury	25496-12-12 08:24 G	11033628.70	11033628.85	11033628.99	0.0145	0.0041
Mercury	25497-03-10 12:57 G	11033716.91	11033717.04	11033717.18	0.0145	0.0064
Mercury	25497-06-06 18:00 G	11033805.13	11033805.25	11033805.37	0.0145	0.0088
Mercury	25497-09-02 22:48 G	11033893.36	11033893.45	11033893.55	0.0145	0.0111
Mercury	25497-11-30 03:50 G	11033981.61	11033981.66	11033981.71	0.0145	0.0135
Mars	25502-10-17 16:33 G	11035762.89	11035763.19	11035763.51	0.0145	0.0050

Earth	25521-06-12 13:40 G	11042575.93	11042576.07	11042576.25	0.0138	0.0106
Moon	25521-06-12 17:16 G	11042576.07	11042576.22	11042576.41	0.0138	0.0101 *
Moon	25522-06-17 00:14 G	11042945.27	11042945.51	11042945.76	0.0137	0.0046
Earth	25522-06-17 03:36 G	11042945.42	11042945.65	11042945.91	0.0137	0.0041 *
Earth	25523-06-21 16:48 G	11043314.95	11043315.20	11043315.45	0.0137	0.0025
Moon	25523-06-21 19:55 G	11043315.09	11043315.33	11043315.57	0.0137	0.0032 *
Moon	25524-06-25 01:26 G	11043684.38	11043684.56	11043684.79	0.0137	0.0083
Earth	25524-06-25 04:48 G	11043684.53	11043684.70	11043684.92	0.0137	0.0090 *
Venus	25528-12-16 06:43 G	11045319.65	11045319.78	11045319.93	0.0135	0.0103
Venus	25529-07-30 12:57 G	11045545.87	11045546.04	11045546.24	0.0135	0.0070
Venus	25530-03-13 19:40 G	11045772.10	11045772.32	11045772.53	0.0135	0.0036
Venus	25530-10-26 01:40 G	11045998.36	11045998.57	11045998.79	0.0134	0.0003
Venus	25531-06-09 07:55 G	11046224.62	11046224.83	11046225.04	0.0134	0.0031
Venus	25532-01-21 13:40 G	11046450.89	11046451.07	11046451.27	0.0134	0.0064
Venus	25532-09-03 19:55 G	11046677.18	11046677.33	11046677.48	0.0134	0.0096
Venus	25533-04-18 01:26 G	11046903.52	11046903.56	11046903.63	0.0134	0.0129
Mercury	25536-08-05 06:28 G	11048108.76	11048108.77	11048108.79	0.0133	0.0133
Mercury	25536-11-01 11:45 G	11048196.91	11048196.99	11048197.09	0.0133	0.0112
Mercury	25537-01-28 17:16 G	11048285.10	11048285.22	11048285.35	0.0133	0.0090
Mercury	25537-04-26 22:33 G	11048373.30	11048373.44	11048373.59	0.0133	0.0070
Mercury	25537-07-24 03:50 G	11048461.51	11048461.66	11048461.82	0.0133	0.0049
Mercury	25537-10-20 09:07 G	11048549.72	11048549.88	11048550.05	0.0133	0.0029
Mercury	25538-01-16 14:24 G	11048637.93	11048638.10	11048638.27	0.0133	0.0008
Mercury	25538-04-14 19:40 G	11048726.15	11048726.32	11048726.48	0.0133	0.0013
Mercury	25538-07-12 00:43 G	11048814.37	11048814.53	11048814.69	0.0133	0.0033
Mercury	25538-10-08 05:45 G	11048902.59	11048902.74	11048902.89	0.0133	0.0052
Mercury	25539-01-04 10:48 G	11048990.81	11048990.95	11048991.09	0.0133	0.0072
Mercury	25539-04-02 15:36 G	11049079.04	11049079.15	11049079.28	0.0133	0.0092
Mercury	25539-06-29 20:38 G	11049167.28	11049167.36	11049167.45	0.0133	0.0111
Mercury	25539-09-26 01:40 G	11049255.54	11049255.57	11049255.60	0.0133	0.0131

Mars	25545-03-09 22:33 G	11051247.20	11051247.44	11051247.69	0.0133	0.0069
Mars	25547-02-07 00:57 G	11051946.37	11051946.54	11051946.71	0.0134	0.0107
Moon	25565-12-14 02:38 G	11058831.43	11058831.61	11058831.82	0.0141	0.0091
Earth	25565-12-14 06:14 G	11058831.58	11058831.76	11058831.97	0.0141	0.0090 *
Earth	25566-12-19 00:57 G	11059201.29	11059201.54	11059201.79	0.0141	0.0019
Moon	25566-12-19 04:33 G	11059201.44	11059201.69	11059201.94	0.0141	0.0021 *
Moon	25567-12-23 16:33 G	11059570.96	11059571.19	11059571.43	0.0141	0.0058
Earth	25567-12-23 19:55 G	11059571.10	11059571.33	11059571.57	0.0141	0.0052 *
Earth	25568-12-27 15:50 G	11059941.03	11059941.16	11059941.28	0.0142	0.0123
Moon	25568-12-27 18:43 G	11059941.15	11059941.28	11059941.44	0.0142	0.0116 *
Venus	25572-04-29 04:19 G	11061159.60	11061159.68	11061159.80	0.0143	0.0127
Venus	25572-12-11 15:36 G	11061385.99	11061386.15	11061386.33	0.0143	0.0087
Venus	25573-07-26 02:52 G	11061612.42	11061612.62	11061612.83	0.0144	0.0047
Venus	25574-03-09 14:09 G	11061838.87	11061839.09	11061839.31	0.0144	0.0006
Venus	25574-10-22 01:40 G	11062065.36	11062065.57	11062065.78	0.0144	0.0035
Venus	25575-06-05 12:57 G	11062291.87	11062292.04	11062292.24	0.0144	0.0076
Venus	25576-01-18 00:43 G	11062518.41	11062518.53	11062518.66	0.0144	0.0117
Mercury	25579-01-28 01:55 G	11063624.55	11063624.58	11063624.64	0.0145	0.0137
Mercury	25579-04-26 06:28 G	11063712.69	11063712.77	11063712.87	0.0145	0.0115
Mercury	25579-07-23 11:02 G	11063800.86	11063800.96	11063801.08	0.0145	0.0093
Mercury	25579-10-19 15:50 G	11063889.03	11063889.16	11063889.29	0.0145	0.0070
Mercury	25580-01-15 20:24 G	11063977.21	11063977.35	11063977.49	0.0145	0.0048
Mercury	25580-04-13 00:57 G	11064065.40	11064065.54	11064065.69	0.0145	0.0025
Mercury	25580-07-10 05:45 G	11064153.59	11064153.74	11064153.89	0.0145	0.0002
Mercury	25580-10-06 10:19 G	11064241.79	11064241.93	11064242.08	0.0145	0.0022
Mercury	25581-01-02 15:07 G	11064329.99	11064330.13	11064330.28	0.0145	0.0045
Mercury	25581-03-31 19:55 G	11064418.20	11064418.33	11064418.47	0.0145	0.0068
Mercury	25581-06-28 00:43 G	11064506.42	11064506.53	11064506.65	0.0145	0.0092
Mercury	25581-09-24 05:31 G	11064594.65	11064594.73	11064594.83	0.0145	0.0116
Mercury	25581-12-21 10:19 G	11064682.91	11064682.93	11064682.98	0.0145	0.0141

Mars	25587-06-14 01:55 G	11066683.27	11066683.58	11066683.90	0.0145	0.0052
Earth	25605-06-12 23:45 G	11073257.33	11073257.49	11073257.67	0.0138	0.0103
Moon	25605-06-13 03:21 G	11073257.49	11073257.64	11073257.81	0.0138	0.0106 *
Moon	25606-06-17 10:04 G	11073626.68	11073626.92	11073627.17	0.0137	0.0031
Earth	25606-06-17 13:40 G	11073626.83	11073627.07	11073627.32	0.0137	0.0037 *
Earth	25607-06-22 02:38 G	11073996.36	11073996.61	11073996.86	0.0137	0.0028
Moon	25607-06-22 06:14 G	11073996.51	11073996.76	11073997.01	0.0137	0.0021 *
Moon	25608-06-25 11:45 G	11074365.81	11074365.99	11074366.17	0.0137	0.0098
Earth	25608-06-25 14:52 G	11074365.94	11074366.12	11074366.31	0.0137	0.0092 *
Venus	25612-08-15 15:36 G	11075878.06	11075878.15	11075878.27	0.0135	0.0118
Venus	25613-03-29 22:04 G	11076104.26	11076104.42	11076104.60	0.0135	0.0084
Venus	25613-11-11 04:48 G	11076330.50	11076330.70	11076330.90	0.0135	0.0050
Venus	25614-06-25 11:02 G	11076556.74	11076556.96	11076557.18	0.0135	0.0017
Venus	25615-02-06 17:16 G	11076783.00	11076783.22	11076783.43	0.0134	0.0017
Venus	25615-09-20 23:02 G	11077009.27	11077009.46	11077009.67	0.0134	0.0050
Venus	25616-05-04 05:02 G	11077235.55	11077235.71	11077235.89	0.0134	0.0083
Venus	25616-12-16 11:02 G	11077461.86	11077461.96	11077462.08	0.0134	0.0115
Mercury	25620-08-25 13:26 G	11078810.02	11078810.06	11078810.11	0.0133	0.0128
Mercury	25620-11-21 18:43 G	11078898.19	11078898.28	11078898.39	0.0133	0.0107
Mercury	25621-02-18 00:14 G	11078986.38	11078986.51	11078986.64	0.0133	0.0085
Mercury	25621-05-17 05:31 G	11079074.59	11079074.73	11079074.88	0.0133	0.0065
Mercury	25621-08-13 10:48 G	11079162.80	11079162.95	11079163.11	0.0133	0.0044
Mercury	25621-11-09 16:04 G	11079251.01	11079251.17	11079251.34	0.0133	0.0023
Mercury	25622-02-05 21:21 G	11079339.22	11079339.39	11079339.56	0.0133	0.0003
Mercury	25622-05-05 02:24 G	11079427.44	11079427.60	11079427.77	0.0133	0.0018
Mercury	25622-08-01 07:40 G	11079515.66	11079515.82	11079515.98	0.0133	0.0037
Mercury	25622-10-28 12:43 G	11079603.88	11079604.03	11079604.18	0.0133	0.0057
Mercury	25623-01-24 17:31 G	11079692.11	11079692.23	11079692.37	0.0133	0.0077
Mercury	25623-04-22 22:19 G	11079780.34	11079780.43	11079780.56	0.0133	0.0098
Mercury	25623-07-20 03:21 G	11079868.58	11079868.64	11079868.73	0.0133	0.0117

Mars	25629-11-02 00:57 G	11082165.25	11082165.54	11082165.83	0.0133	0.0001
Moon	25649-12-14 10:48 G	11089512.76	11089512.95	11089513.17	0.0141	0.0085
Earth	25649-12-14 14:24 G	11089512.91	11089513.10	11089513.31	0.0141	0.0088 *
Earth	25650-12-19 08:38 G	11089882.62	11089882.86	11089883.12	0.0141	0.0018
Moon	25650-12-19 12:28 G	11089882.77	11089883.02	11089883.27	0.0141	0.0015 *
Moon	25651-12-24 00:14 G	11090252.27	11090252.51	11090252.75	0.0141	0.0049
Earth	25651-12-24 03:50 G	11090252.43	11090252.66	11090252.90	0.0141	0.0054 *
Earth	25652-12-27 23:16 G	11090622.37	11090622.47	11090622.60	0.0142	0.0125
Moon	25652-12-28 02:24 G	11090622.53	11090622.60	11090622.71	0.0142	0.0133 *
Venus	25656-08-10 21:07 G	11091944.24	11091944.38	11091944.53	0.0143	0.0105
Venus	25657-03-25 08:09 G	11092170.65	11092170.84	11092171.04	0.0143	0.0065
Venus	25657-11-06 19:26 G	11092397.10	11092397.31	11092397.53	0.0144	0.0026
Venus	25658-06-21 06:57 G	11092623.57	11092623.79	11092624.01	0.0144	0.0016
Venus	25659-02-02 18:14 G	11092850.06	11092850.26	11092850.46	0.0144	0.0056
Venus	25659-09-17 05:31 G	11093076.58	11093076.73	11093076.90	0.0144	0.0098
Venus	25660-04-30 17:02 G	11093303.17	11093303.21	11093303.29	0.0144	0.0138
Mercury	25663-02-17 08:52 G	11094325.82	11094325.87	11094325.93	0.0145	0.0133
Mercury	25663-05-16 13:26 G	11094413.97	11094414.06	11094414.15	0.0145	0.0111
Mercury	25663-08-12 18:00 G	11094502.14	11094502.25	11094502.37	0.0145	0.0089
Mercury	25663-11-08 22:19 G	11094590.31	11094590.43	11094590.57	0.0145	0.0067
Mercury	25664-02-05 03:07 G	11094678.49	11094678.63	11094678.77	0.0145	0.0044
Mercury	25664-05-03 07:55 G	11094766.68	11094766.83	11094766.97	0.0145	0.0021
Mercury	25664-07-30 12:28 G	11094854.87	11094855.02	11094855.17	0.0145	0.0002
Mercury	25664-10-26 17:16 G	11094943.07	11094943.22	11094943.36	0.0145	0.0025
Mercury	25665-01-22 22:04 G	11095031.28	11095031.42	11095031.56	0.0145	0.0049
Mercury	25665-04-21 02:38 G	11095119.49	11095119.61	11095119.74	0.0145	0.0072
Mercury	25665-07-18 07:40 G	11095207.71	11095207.82	11095207.93	0.0145	0.0096
Mercury	25665-10-14 12:28 G	11095295.94	11095296.02	11095296.10	0.0145	0.0119
Mercury	25666-01-10 17:16 G	11095384.21	11095384.22	11095384.25	0.0145	0.0143
Mars	25670-03-03 07:55 G	11096896.66	11096896.83	11096897.01	0.0145	0.0122

Earth	25689-06-13 07:26 G	11103938.66	11103938.81	11103939.00	0.0138	0.0102
Moon	25689-06-13 11:16 G	11103938.81	11103938.97	11103939.17	0.0138	0.0098 *
Moon	25690-06-17 17:45 G	11104308.01	11104308.24	11104308.50	0.0138	0.0042
Earth	25690-06-17 21:36 G	11104308.16	11104308.40	11104308.65	0.0138	0.0036 *
Earth	25691-06-22 10:33 G	11104677.69	11104677.94	11104678.19	0.0137	0.0029
Moon	25691-06-22 13:40 G	11104677.84	11104678.07	11104678.33	0.0137	0.0037 *
Moon	25692-06-25 18:43 G	11105047.10	11105047.28	11105047.50	0.0137	0.0087
Earth	25692-06-25 22:48 G	11105047.27	11105047.45	11105047.64	0.0137	0.0094 *
Venus	25696-04-14 23:31 G	11106436.46	11106436.48	11106436.54	0.0135	0.0133
Venus	25696-11-27 06:14 G	11106662.63	11106662.76	11106662.92	0.0135	0.0099
Venus	25697-07-11 12:57 G	11106888.85	11106889.04	11106889.23	0.0135	0.0065
Venus	25698-02-22 19:12 G	11107115.09	11107115.30	11107115.52	0.0135	0.0032
Venus	25698-10-07 01:26 G	11107341.35	11107341.56	11107341.78	0.0135	0.0003
Venus	25699-05-21 07:40 G	11107567.62	11107567.82	11107568.04	0.0134	0.0035
Venus	25700-01-02 13:40 G	11107793.89	11107794.07	11107794.27	0.0134	0.0068
Venus	25700-08-16 19:40 G	11108020.18	11108020.32	11108020.47	0.0134	0.0100
Venus	25701-03-31 01:12 G	11108246.54	11108246.55	11108246.59	0.0134	0.0133
Mercury	25704-09-15 19:55 G	11109511.28	11109511.33	11109511.40	0.0133	0.0124
Mercury	25704-12-13 01:26 G	11109599.46	11109599.56	11109599.67	0.0133	0.0103
Mercury	25705-03-11 06:43 G	11109687.65	11109687.78	11109687.92	0.0133	0.0082
Mercury	25705-06-07 12:14 G	11109775.86	11109776.01	11109776.16	0.0133	0.0061
Mercury	25705-09-03 17:31 G	11109864.07	11109864.23	11109864.39	0.0133	0.0040
Mercury	25705-11-30 22:48 G	11109952.28	11109952.45	11109952.62	0.0133	0.0019
Mercury	25706-02-27 04:04 G	11110040.50	11110040.67	11110040.83	0.0133	0.0003
Mercury	25706-05-26 09:07 G	11110128.72	11110128.88	11110129.05	0.0133	0.0021
Mercury	25706-08-22 14:09 G	11110216.94	11110217.09	11110217.25	0.0133	0.0042
Mercury	25706-11-18 19:12 G	11110305.16	11110305.30	11110305.45	0.0133	0.0062
Mercury	25707-02-15 00:14 G	11110393.39	11110393.51	11110393.65	0.0133	0.0081
Mercury	25707-05-14 05:02 G	11110481.62	11110481.71	11110481.83	0.0133	0.0102
Mercury	25707-08-10 10:04 G	11110569.87	11110569.92	11110570.00	0.0133	0.0121

Mars	25712-07-28 22:48 G	11112384.31	11112384.45	11112384.62	0.0133	0.0112
Mars	25714-06-28 03:36 G	11113083.41	11113083.65	11113083.90	0.0134	0.0067
Moon	25733-12-15 19:55 G	11120194.14	11120194.33	11120194.53	0.0140	0.0088
Earth	25733-12-15 23:02 G	11120194.28	11120194.46	11120194.68	0.0140	0.0086 *
Earth	25734-12-20 17:31 G	11120563.98	11120564.23	11120564.49	0.0141	0.0015
Moon	25734-12-20 21:07 G	11120564.13	11120564.38	11120564.64	0.0141	0.0015 *
Moon	25735-12-25 08:52 G	11120933.65	11120933.87	11120934.11	0.0141	0.0061
Earth	25735-12-25 12:28 G	11120933.80	11120934.02	11120934.26	0.0141	0.0056 *
Earth	25736-12-29 07:55 G	11121303.74	11121303.83	11121303.95	0.0142	0.0128
Moon	25736-12-29 12:00 G	11121303.87	11121304.00	11121304.13	0.0142	0.0120 *
Venus	25740-04-11 02:52 G	11122502.52	11122502.62	11122502.74	0.0143	0.0123
Venus	25740-11-23 14:09 G	11122728.91	11122729.09	11122729.26	0.0143	0.0084
Venus	25741-07-08 01:12 G	11122955.34	11122955.55	11122955.76	0.0143	0.0044
Venus	25742-02-19 12:14 G	11123181.80	11123182.01	11123182.23	0.0144	0.0004
Venus	25742-10-03 23:31 G	11123408.28	11123408.48	11123408.70	0.0144	0.0037
Venus	25743-05-18 10:48 G	11123634.78	11123634.95	11123635.14	0.0144	0.0078
Venus	25743-12-30 22:33 G	11123861.32	11123861.44	11123861.56	0.0144	0.0119
Mercury	25747-03-10 15:36 G	11125027.10	11125027.15	11125027.22	0.0145	0.0130
Mercury	25747-06-06 20:09 G	11125115.25	11125115.34	11125115.44	0.0145	0.0108
Mercury	25747-09-03 00:43 G	11125203.42	11125203.53	11125203.65	0.0145	0.0085
Mercury	25747-11-30 05:16 G	11125291.59	11125291.72	11125291.85	0.0145	0.0063
Mercury	25748-02-26 09:50 G	11125379.78	11125379.91	11125380.06	0.0145	0.0041
Mercury	25748-05-24 14:38 G	11125467.96	11125468.11	11125468.25	0.0145	0.0018
Mercury	25748-08-20 19:12 G	11125556.16	11125556.30	11125556.45	0.0145	0.0006
Mercury	25748-11-17 00:00 G	11125644.35	11125644.50	11125644.64	0.0145	0.0029
Mercury	25749-02-13 04:33 G	11125732.56	11125732.69	11125732.83	0.0145	0.0052
Mercury	25749-05-12 09:21 G	11125820.77	11125820.89	11125821.02	0.0145	0.0076
Mercury	25749-08-08 14:09 G	11125908.99	11125909.09	11125909.21	0.0145	0.0100
Mercury	25749-11-04 18:57 G	11125997.22	11125997.29	11125997.38	0.0145	0.0124
Mars	25754-10-29 12:43 G	11127816.71	11127817.03	11127817.37	0.0145	0.0023

Earth	25773-06-14 15:36 G	11134619.99	11134620.15	11134620.34	0.0138	0.0100
Moon	25773-06-14 18:43 G	11134620.12	11134620.28	11134620.47	0.0138	0.0102 *
Moon	25774-06-19 01:55 G	11134989.34	11134989.58	11134989.83	0.0138	0.0029
Earth	25774-06-19 05:16 G	11134989.49	11134989.72	11134989.98	0.0138	0.0035 *
Earth	25775-06-23 18:28 G	11135359.03	11135359.27	11135359.52	0.0137	0.0031
Moon	25775-06-23 22:04 G	11135359.17	11135359.42	11135359.68	0.0137	0.0024 *
Moon	25776-06-27 03:07 G	11135728.49	11135728.63	11135728.82	0.0137	0.0103
Earth	25776-06-27 06:43 G	11135728.61	11135728.78	11135728.97	0.0137	0.0096 *
Venus	25780-07-28 14:38 G	11137221.00	11137221.11	11137221.23	0.0135	0.0114
Venus	25781-03-11 21:07 G	11137447.21	11137447.38	11137447.56	0.0135	0.0080
Venus	25781-10-24 03:36 G	11137673.45	11137673.65	11137673.86	0.0135	0.0047
Venus	25782-06-07 10:19 G	11137899.71	11137899.93	11137900.15	0.0135	0.0013
Venus	25783-01-19 16:19 G	11138125.97	11138126.18	11138126.40	0.0135	0.0021
Venus	25783-09-02 22:19 G	11138352.24	11138352.43	11138352.64	0.0134	0.0054
Venus	25784-04-16 04:19 G	11138578.53	11138578.68	11138578.86	0.0134	0.0086
Venus	25784-11-28 10:33 G	11138804.84	11138804.94	11138805.04	0.0134	0.0118
Mercury	25788-10-06 02:38 G	11140212.55	11140212.61	11140212.69	0.0133	0.0120
Mercury	25789-01-02 08:09 G	11140300.73	11140300.84	11140300.96	0.0133	0.0098
Mercury	25789-03-31 13:26 G	11140388.93	11140389.06	11140389.21	0.0133	0.0078
Mercury	25789-06-27 18:57 G	11140477.14	11140477.29	11140477.45	0.0133	0.0056
Mercury	25789-09-24 00:14 G	11140565.35	11140565.51	11140565.68	0.0133	0.0036
Mercury	25789-12-21 05:31 G	11140653.57	11140653.73	11140653.90	0.0133	0.0015
Mercury	25790-03-19 10:48 G	11140741.78	11140741.95	11140742.12	0.0133	0.0005
Mercury	25790-06-15 15:50 G	11140830.00	11140830.16	11140830.33	0.0133	0.0026
Mercury	25790-09-11 20:53 G	11140918.22	11140918.37	11140918.54	0.0133	0.0046
Mercury	25790-12-09 01:55 G	11141006.45	11141006.58	11141006.74	0.0133	0.0067
Mercury	25791-03-07 07:12 G	11141094.68	11141094.80	11141094.93	0.0133	0.0086
Mercury	25791-06-03 12:00 G	11141182.91	11141183.00	11141183.11	0.0133	0.0106
Mercury	25791-08-30 16:48 G	11141271.16	11141271.20	11141271.27	0.0133	0.0126
Mars	25797-03-23 02:24 G	11143302.34	11143302.60	11143302.88	0.0133	0.0043

Moon	25817-12-17 06:57 G	11150875.58	11150875.79	11150876.00	0.0140	0.0078
Earth	25817-12-17 09:21 G	11150875.70	11150875.89	11150876.11	0.0140	0.0083 *
Earth	25818-12-22 04:05 G	11151245.42	11151245.67	11151245.92	0.0141	0.0012
Moon	25818-12-22 07:26 G	11151245.56	11151245.81	11151246.07	0.0141	0.0011 *
Moon	25819-12-26 19:41 G	11151615.09	11151615.32	11151615.55	0.0141	0.0056
Earth	25819-12-26 23:02 G	11151615.24	11151615.46	11151615.70	0.0141	0.0060 *
Earth	25820-12-30 18:29 G	11151985.19	11151985.27	11151985.37	0.0142	0.0131
Moon	25820-12-30 21:50 G	11151985.37	11151985.41	11151985.48	0.0142	0.0138 *
Venus	25823-12-11 09:50 G	11153060.89	11153060.91	11153060.97	0.0143	0.0140
Venus	25824-07-24 20:53 G	11153287.23	11153287.37	11153287.53	0.0143	0.0100
Venus	25825-03-08 07:55 G	11153513.64	11153513.83	11153514.03	0.0143	0.0061
Venus	25825-10-20 19:12 G	11153740.08	11153740.30	11153740.51	0.0144	0.0021
Venus	25826-06-04 06:14 G	11153966.55	11153966.76	11153966.98	0.0144	0.0020
Venus	25827-01-16 17:31 G	11154193.04	11154193.23	11154193.43	0.0144	0.0060
Venus	25827-08-31 05:02 G	11154419.55	11154419.71	11154419.86	0.0144	0.0101
Venus	25828-04-13 16:05 G	11154646.14	11154646.17	11154646.23	0.0144	0.0141
Mercury	25831-03-31 23:02 G	11155728.39	11155728.46	11155728.53	0.0145	0.0124
Mercury	25831-06-28 03:21 G	11155816.54	11155816.64	11155816.75	0.0145	0.0102
Mercury	25831-09-24 07:55 G	11155904.71	11155904.83	11155904.95	0.0145	0.0080
Mercury	25831-12-21 12:29 G	11155992.89	11155993.02	11155993.16	0.0145	0.0058
Mercury	25832-03-18 17:02 G	11156081.07	11156081.21	11156081.36	0.0145	0.0035
Mercury	25832-06-14 21:50 G	11156169.26	11156169.41	11156169.55	0.0145	0.0012
Mercury	25832-09-11 02:24 G	11156257.46	11156257.60	11156257.75	0.0145	0.0011
Mercury	25832-12-08 07:12 G	11156345.65	11156345.80	11156345.94	0.0145	0.0034
Mercury	25833-03-06 11:45 G	11156433.86	11156433.99	11156434.13	0.0145	0.0058
Mercury	25833-06-02 16:33 G	11156522.07	11156522.19	11156522.32	0.0145	0.0081
Mercury	25833-08-29 21:21 G	11156610.30	11156610.39	11156610.50	0.0145	0.0105
Mercury	25833-11-26 02:09 G	11156698.53	11156698.59	11156698.67	0.0145	0.0129
Mars	25839-06-26 21:07 G	11158737.13	11158737.38	11158737.68	0.0145	0.0082
Earth	25857-06-15 23:17 G	11165301.31	11165301.47	11165301.67	0.0138	0.0099

Moon	25857-06-16 02:53 G	11165301.44	11165301.62	11165301.81	0.0138	0.0096 *
Moon	25858-06-20 10:19 G	11165670.70	11165670.93	11165671.18	0.0138	0.0037
Earth	25858-06-20 13:26 G	11165670.82	11165671.06	11165671.31	0.0138	0.0033 *
Earth	25859-06-25 02:09 G	11166040.35	11166040.59	11166040.84	0.0137	0.0033
Moon	25859-06-25 05:45 G	11166040.49	11166040.74	11166040.98	0.0137	0.0040 *
Moon	25860-06-28 11:17 G	11166409.79	11166409.97	11166410.17	0.0137	0.0090
Earth	25860-06-28 14:38 G	11166409.95	11166410.11	11166410.30	0.0137	0.0098 *
Venus	25864-03-28 22:19 G	11167779.38	11167779.43	11167779.51	0.0135	0.0129
Venus	25864-11-10 05:02 G	11168005.57	11168005.71	11168005.88	0.0135	0.0095
Venus	25865-06-24 12:00 G	11168231.80	11168232.00	11168232.19	0.0135	0.0061
Venus	25866-02-05 18:14 G	11168458.05	11168458.26	11168458.48	0.0135	0.0028
Venus	25866-09-20 00:43 G	11168684.31	11168684.53	11168684.74	0.0135	0.0006
Venus	25867-05-04 06:43 G	11168910.58	11168910.78	11168911.00	0.0134	0.0039
Venus	25867-12-16 12:43 G	11169136.86	11169137.03	11169137.23	0.0134	0.0071
Venus	25868-07-29 18:29 G	11169363.15	11169363.27	11169363.42	0.0134	0.0104
Mercury	25872-10-27 09:21 G	11170913.81	11170913.89	11170913.97	0.0134	0.0116
Mercury	25873-01-23 14:38 G	11171002.00	11171002.11	11171002.24	0.0134	0.0095
Mercury	25873-04-21 20:09 G	11171090.20	11171090.34	11171090.48	0.0133	0.0074
Mercury	25873-07-19 01:26 G	11171178.41	11171178.56	11171178.72	0.0133	0.0053
Mercury	25873-10-15 06:43 G	11171266.62	11171266.78	11171266.95	0.0133	0.0032
Mercury	25874-01-11 12:14 G	11171354.84	11171355.01	11171355.18	0.0133	0.0011
Mercury	25874-04-09 17:17 G	11171443.06	11171443.22	11171443.39	0.0133	0.0010
Mercury	25874-07-06 22:33 G	11171531.28	11171531.44	11171531.60	0.0133	0.0030
Mercury	25874-10-03 03:36 G	11171619.50	11171619.65	11171619.81	0.0133	0.0050
Mercury	25874-12-30 08:53 G	11171707.73	11171707.87	11171708.01	0.0133	0.0070
Mercury	25875-03-28 13:55 G	11171795.96	11171796.08	11171796.20	0.0133	0.0090
Mercury	25875-06-24 18:43 G	11171884.20	11171884.28	11171884.38	0.0133	0.0109
Mercury	25875-09-20 23:31 G	11171972.46	11171972.48	11171972.53	0.0133	0.0129
Mars	25881-11-16 03:36 G	11174220.37	11174220.65	11174220.94	0.0134	0.0025
Moon	25901-12-18 17:17 G	11181557.03	11181557.22	11181557.43	0.0140	0.0083

Earth	25901-12-18 20:24 G	11181557.14	11181557.35	11181557.56	0.0140	0.0079	*
Earth	25902-12-23 14:38 G	11181926.86	11181927.11	11181927.37	0.0141	0.0009	
Moon	25902-12-23 17:31 G	11181926.97	11181927.23	11181927.49	0.0141	0.0008	*
Moon	25903-12-28 06:43 G	11182296.56	11182296.78	11182297.00	0.0141	0.0067	
Earth	25903-12-28 09:36 G	11182296.69	11182296.90	11182297.14	0.0141	0.0063	*
Earth	25905-01-01 05:31 G	11182666.66	11182666.73	11182666.81	0.0142	0.0135	
Moon	25905-01-01 08:53 G	11182666.78	11182666.87	11182667.00	0.0142	0.0128	*
Venus	25908-03-25 04:05 G	11183845.56	11183845.67	11183845.81	0.0143	0.0117	
Venus	25908-11-06 15:21 G	11184071.96	11184072.14	11184072.33	0.0143	0.0077	
Venus	25909-06-21 02:24 G	11184298.39	11184298.60	11184298.81	0.0143	0.0038	
Venus	25910-02-02 13:26 G	11184524.85	11184525.06	11184525.28	0.0144	0.0003	
Venus	25910-09-17 00:29 G	11184751.32	11184751.52	11184751.74	0.0144	0.0043	
Venus	25911-05-01 11:45 G	11184977.82	11184977.99	11184978.18	0.0144	0.0083	
Venus	25911-12-13 23:17 G	11185204.37	11185204.47	11185204.59	0.0144	0.0124	
Mercury	25915-01-24 01:55 G	11186341.55	11186341.58	11186341.62	0.0145	0.0140	
Mercury	25915-04-22 06:14 G	11186429.69	11186429.76	11186429.85	0.0145	0.0118	
Mercury	25915-07-19 10:48 G	11186517.85	11186517.95	11186518.06	0.0145	0.0096	
Mercury	25915-10-15 15:21 G	11186606.02	11186606.14	11186606.27	0.0145	0.0074	
Mercury	25916-01-11 19:55 G	11186694.20	11186694.33	11186694.47	0.0145	0.0051	
Mercury	25916-04-09 00:29 G	11186782.38	11186782.52	11186782.67	0.0145	0.0029	
Mercury	25916-07-06 05:17 G	11186870.57	11186870.72	11186870.86	0.0145	0.0007	
Mercury	25916-10-02 09:50 G	11186958.76	11186958.91	11186959.06	0.0145	0.0017	
Mercury	25916-12-29 14:24 G	11187046.97	11187047.10	11187047.25	0.0145	0.0041	
Mercury	25917-03-27 19:12 G	11187135.17	11187135.30	11187135.44	0.0145	0.0064	
Mercury	25917-06-24 00:00 G	11187223.39	11187223.50	11187223.62	0.0145	0.0088	
Mercury	25917-09-20 04:48 G	11187311.61	11187311.70	11187311.80	0.0145	0.0111	
Mercury	25917-12-17 09:36 G	11187399.86	11187399.90	11187399.96	0.0145	0.0135	
Mars	25922-03-17 12:14 G	11188950.76	11188951.01	11188951.28	0.0145	0.0091	
Earth	25941-06-17 08:24 G	11195982.69	11195982.85	11195983.05	0.0138	0.0097	
Moon	25941-06-17 10:33 G	11195982.78	11195982.94	11195983.15	0.0138	0.0097	*

Moon	25942-06-21 19:26 G	11196352.07	11196352.31	11196352.56	0.0137	0.0027
Earth	25942-06-21 22:19 G	11196352.19	11196352.43	11196352.68	0.0137	0.0031 *
Earth	25943-06-26 11:17 G	11196721.73	11196721.97	11196722.22	0.0137	0.0035
Moon	25943-06-26 14:24 G	11196721.85	11196722.10	11196722.35	0.0137	0.0028 *
Moon	25944-06-29 20:38 G	11197091.23	11197091.36	11197091.54	0.0137	0.0107
Earth	25944-06-29 23:45 G	11197091.33	11197091.49	11197091.68	0.0137	0.0100 *
Venus	25948-07-11 13:41 G	11198563.96	11198564.07	11198564.21	0.0135	0.0109
Venus	25949-02-22 20:09 G	11198790.18	11198790.34	11198790.54	0.0135	0.0076
Venus	25949-10-07 02:38 G	11199016.42	11199016.61	11199016.83	0.0135	0.0043
Venus	25950-05-21 09:21 G	11199242.68	11199242.89	11199243.11	0.0135	0.0010
Venus	25951-01-02 15:36 G	11199468.94	11199469.15	11199469.37	0.0135	0.0024
Venus	25951-08-16 21:50 G	11199695.21	11199695.41	11199695.60	0.0134	0.0057
Venus	25952-03-30 03:36 G	11199921.49	11199921.65	11199921.82	0.0134	0.0089
Venus	25952-11-11 09:36 G	11200147.81	11200147.90	11200147.99	0.0134	0.0122
Mercury	25956-08-21 10:33 G	11201526.93	11201526.94	11201526.96	0.0134	0.0133
Mercury	25956-11-17 15:50 G	11201615.08	11201615.16	11201615.27	0.0134	0.0112
Mercury	25957-02-13 21:21 G	11201703.28	11201703.39	11201703.53	0.0133	0.0091
Mercury	25957-05-13 02:53 G	11201791.48	11201791.62	11201791.77	0.0133	0.0069
Mercury	25957-08-09 08:09 G	11201879.69	11201879.84	11201880.01	0.0133	0.0049
Mercury	25957-11-05 13:41 G	11201967.91	11201968.07	11201968.24	0.0133	0.0027
Mercury	25958-02-01 18:57 G	11202056.12	11202056.29	11202056.46	0.0133	0.0007
Mercury	25958-05-01 00:14 G	11202144.34	11202144.51	11202144.68	0.0133	0.0014
Mercury	25958-07-28 05:17 G	11202232.56	11202232.72	11202232.89	0.0133	0.0035
Mercury	25958-10-24 10:33 G	11202320.79	11202320.94	11202321.09	0.0133	0.0054
Mercury	25959-01-20 15:36 G	11202409.02	11202409.15	11202409.29	0.0133	0.0074
Mercury	25959-04-18 20:38 G	11202497.25	11202497.36	11202497.48	0.0133	0.0094
Mercury	25959-07-16 01:26 G	11202585.49	11202585.56	11202585.66	0.0133	0.0114
Mars	25964-08-12 00:29 G	11204439.33	11204439.52	11204439.76	0.0133	0.0088
Mars	25966-07-12 05:02 G	11205138.53	11205138.71	11205138.93	0.0134	0.0095
Moon	25985-12-19 04:19 G	11212238.47	11212238.68	11212238.89	0.0140	0.0071

Earth	25985-12-19 05:45 G	11212238.54	11212238.74	11212238.96	0.0140	0.0077	*
Earth	25986-12-24 00:43 G	11212608.27	11212608.53	11212608.78	0.0141	0.0006	
Moon	25986-12-24 03:21 G	11212608.38	11212608.64	11212608.90	0.0141	0.0006	*
Moon	25987-12-28 17:17 G	11212978.00	11212978.22	11212978.44	0.0141	0.0064	
Earth	25987-12-28 19:41 G	11212978.11	11212978.32	11212978.56	0.0141	0.0067	*
Earth	25989-01-01 15:36 G	11213348.11	11213348.15	11213348.22	0.0142	0.0138	
Venus	25991-11-23 11:17 G	11214403.91	11214403.97	11214404.06	0.0143	0.0133	
Venus	25992-07-06 22:05 G	11214630.27	11214630.42	11214630.60	0.0143	0.0094	
Venus	25993-02-18 09:07 G	11214856.69	11214856.88	11214857.09	0.0143	0.0055	
Venus	25993-10-02 20:24 G	11215083.13	11215083.35	11215083.57	0.0144	0.0015	
Venus	25994-05-17 07:26 G	11215309.60	11215309.81	11215310.03	0.0144	0.0026	
Venus	25994-12-29 18:43 G	11215536.09	11215536.28	11215536.48	0.0144	0.0066	
Venus	25995-08-13 05:45 G	11215762.61	11215762.74	11215762.90	0.0144	0.0107	
Mercury	25999-02-13 09:07 G	11217042.84	11217042.88	11217042.94	0.0145	0.0134	
Mercury	25999-05-12 13:41 G	11217130.99	11217131.07	11217131.17	0.0145	0.0112	
Mercury	25999-08-08 18:14 G	11217219.15	11217219.26	11217219.38	0.0145	0.0090	
Mercury	25999-11-04 22:48 G	11217307.32	11217307.45	11217307.58	0.0145	0.0067	
Mercury	26000-02-01 03:21 G	11217395.50	11217395.64	11217395.78	0.0145	0.0045	
Mercury	26000-04-29 07:55 G	11217483.69	11217483.83	11217483.98	0.0145	0.0022	
Mercury	26000-07-26 12:43 G	11217571.88	11217572.03	11217572.17	0.0145	0.0003	
Mercury	26000-10-22 17:17 G	11217660.08	11217660.22	11217660.37	0.0145	0.0024	

27TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 27th millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Mercury	26001-01-18 22:05 G	11217748.28	11217748.42	11217748.56	0.0145	0.0047
Mercury	26001-04-17 02:38 G	11217836.49	11217836.61	11217836.75	0.0145	0.0071
Mercury	26001-07-14 07:26 G	11217924.71	11217924.81	11217924.93	0.0145	0.0095
Mercury	26001-10-10 12:29 G	11218012.94	11218013.02	11218013.10	0.0145	0.0118
Mercury	26002-01-06 17:17 G	11218101.20	11218101.22	11218101.25	0.0145	0.0142
Mars	26006-11-12 00:00 G	11219871.18	11219871.50	11219871.84	0.0145	0.0015
Earth	26025-06-17 17:31 G	11226664.07	11226664.23	11226664.43	0.0138	0.0095
Moon	26025-06-17 19:55 G	11226664.15	11226664.33	11226664.53	0.0138	0.0094 *
Moon	26026-06-22 05:45 G	11227033.50	11227033.74	11227033.98	0.0137	0.0031
Earth	26026-06-22 07:26 G	11227033.57	11227033.81	11227034.07	0.0137	0.0028 *
Earth	26027-06-26 20:24 G	11227403.11	11227403.35	11227403.60	0.0137	0.0037
Moon	26027-06-26 22:48 G	11227403.21	11227403.45	11227403.71	0.0137	0.0043 *
Moon	26028-06-30 06:14 G	11227772.59	11227772.76	11227772.95	0.0137	0.0095
Earth	26028-06-30 09:07 G	11227772.71	11227772.88	11227773.05	0.0137	0.0102 *
Venus	26032-03-10 22:05 G	11229122.34	11229122.42	11229122.51	0.0135	0.0124
Venus	26032-10-23 04:48 G	11229348.54	11229348.70	11229348.86	0.0135	0.0090
Venus	26033-06-06 11:17 G	11229574.78	11229574.97	11229575.18	0.0135	0.0057
Venus	26034-01-18 17:45 G	11229801.03	11229801.24	11229801.46	0.0135	0.0024
Venus	26034-09-02 00:00 G	11230027.28	11230027.50	11230027.72	0.0135	0.0009
Venus	26035-04-16 06:00 G	11230253.55	11230253.75	11230253.97	0.0134	0.0042
Venus	26035-11-28 12:14 G	11230479.83	11230480.01	11230480.19	0.0134	0.0075
Venus	26036-07-11 17:45 G	11230706.12	11230706.24	11230706.38	0.0134	0.0107
Mercury	26040-09-10 17:17 G	11232228.18	11232228.22	11232228.26	0.0133	0.0129
Mercury	26040-12-07 22:33 G	11232316.35	11232316.44	11232316.55	0.0133	0.0108
Mercury	26041-03-06 04:05 G	11232404.55	11232404.67	11232404.80	0.0133	0.0086
Mercury	26041-06-02 09:21 G	11232492.75	11232492.89	11232493.05	0.0133	0.0066
Mercury	26041-08-29 14:53 G	11232580.96	11232581.12	11232581.28	0.0133	0.0044
Mercury	26041-11-25 20:24 G	11232669.18	11232669.35	11232669.51	0.0133	0.0024

Mercury	26042-02-22 01:41 G	11232757.40	11232757.57	11232757.73	0.0133	0.0004
Mercury	26042-05-21 06:43 G	11232845.62	11232845.78	11232845.95	0.0133	0.0018
Mercury	26042-08-17 12:00 G	11232933.84	11232934.00	11232934.16	0.0133	0.0038
Mercury	26042-11-13 17:02 G	11233022.07	11233022.21	11233022.37	0.0133	0.0058
Mercury	26043-02-09 22:05 G	11233110.30	11233110.42	11233110.56	0.0133	0.0079
Mercury	26043-05-09 03:07 G	11233198.53	11233198.63	11233198.75	0.0133	0.0098
Mercury	26043-08-05 08:09 G	11233286.78	11233286.84	11233286.92	0.0133	0.0118
Mars	26049-04-06 01:12 G	11235357.26	11235357.55	11235357.83	0.0134	0.0019
Moon	26068-12-14 20:53 G	11242550.32	11242550.37	11242550.43	0.0140	0.0136
Moon	26069-12-19 12:29 G	11242919.83	11242920.02	11242920.24	0.0140	0.0080
Earth	26069-12-19 14:09 G	11242919.89	11242920.09	11242920.32	0.0140	0.0075 *
Earth	26070-12-24 09:21 G	11243289.63	11243289.89	11243290.14	0.0141	0.0004
Moon	26070-12-24 11:02 G	11243289.70	11243289.96	11243290.22	0.0141	0.0001 *
Moon	26071-12-29 02:09 G	11243659.39	11243659.59	11243659.81	0.0141	0.0071
Earth	26071-12-29 04:19 G	11243659.47	11243659.68	11243659.92	0.0141	0.0069 *
Earth	26073-01-02 00:00 G	11244029.49	11244029.50	11244029.55	0.0142	0.0141
Moon	26073-01-02 03:21 G	11244029.56	11244029.64	11244029.72	0.0142	0.0134
Venus	26076-03-06 03:50 G	11245188.55	11245188.66	11245188.82	0.0143	0.0112
Venus	26076-10-18 15:07 G	11245414.95	11245415.13	11245415.32	0.0143	0.0072
Venus	26077-06-02 02:09 G	11245641.38	11245641.59	11245641.81	0.0143	0.0033
Venus	26078-01-14 13:12 G	11245867.84	11245868.05	11245868.27	0.0144	0.0007
Venus	26078-08-29 00:29 G	11246094.31	11246094.52	11246094.72	0.0144	0.0047
Venus	26079-04-12 11:45 G	11246320.82	11246320.99	11246321.16	0.0144	0.0087
Venus	26079-11-24 23:17 G	11246547.37	11246547.47	11246547.57	0.0144	0.0128
Mercury	26083-03-05 16:19 G	11247744.12	11247744.18	11247744.25	0.0145	0.0129
Mercury	26083-06-01 20:53 G	11247832.28	11247832.37	11247832.47	0.0145	0.0107
Mercury	26083-08-29 01:12 G	11247920.44	11247920.55	11247920.68	0.0145	0.0085
Mercury	26083-11-25 06:00 G	11248008.62	11248008.75	11248008.88	0.0145	0.0062
Mercury	26084-02-21 10:19 G	11248096.80	11248096.93	11248097.08	0.0145	0.0040
Mercury	26084-05-19 15:07 G	11248184.98	11248185.13	11248185.28	0.0145	0.0017

Mercury	26084-08-15 19:41 G	11248273.18	11248273.32	11248273.47	0.0145	0.0008
Mercury	26084-11-12 00:29 G	11248361.38	11248361.52	11248361.66	0.0145	0.0029
Mercury	26085-02-08 05:02 G	11248449.58	11248449.71	11248449.85	0.0145	0.0053
Mercury	26085-05-07 09:50 G	11248537.79	11248537.91	11248538.04	0.0145	0.0076
Mercury	26085-08-03 14:38 G	11248626.01	11248626.11	11248626.22	0.0145	0.0100
Mercury	26085-10-30 19:26 G	11248714.24	11248714.31	11248714.39	0.0145	0.0124
Mars	26091-07-09 09:50 G	11250791.73	11250791.91	11250792.09	0.0145	0.0120
Earth	26109-06-19 03:07 G	11257345.46	11257345.63	11257345.83	0.0138	0.0092
Moon	26109-06-19 04:05 G	11257345.48	11257345.67	11257345.88	0.0138	0.0090 *
Moon	26110-06-23 15:07 G	11257714.89	11257715.13	11257715.38	0.0137	0.0023
Earth	26110-06-23 17:02 G	11257714.96	11257715.21	11257715.46	0.0137	0.0026 *
Earth	26111-06-28 05:45 G	11258084.51	11258084.74	11258084.99	0.0137	0.0040
Moon	26111-06-28 07:26 G	11258084.57	11258084.81	11258085.08	0.0137	0.0035 *
Moon	26112-07-01 16:33 G	11258454.05	11258454.19	11258454.34	0.0137	0.0111
Earth	26112-07-01 18:14 G	11258454.11	11258454.26	11258454.44	0.0137	0.0105 *
Venus	26116-06-23 13:26 G	11259906.93	11259907.06	11259907.20	0.0135	0.0105
Venus	26117-02-04 19:55 G	11260133.15	11260133.33	11260133.52	0.0135	0.0071
Venus	26117-09-19 02:24 G	11260359.39	11260359.60	11260359.81	0.0135	0.0038
Venus	26118-05-03 08:53 G	11260585.65	11260585.87	11260586.08	0.0135	0.0006
Venus	26118-12-15 14:53 G	11260811.91	11260812.12	11260812.34	0.0134	0.0028
Venus	26119-07-29 20:38 G	11261038.18	11261038.36	11261038.57	0.0134	0.0061
Venus	26120-03-12 02:38 G	11261264.46	11261264.61	11261264.77	0.0134	0.0093
Venus	26120-10-24 08:09 G	11261490.78	11261490.84	11261490.94	0.0134	0.0125
Mercury	26124-10-01 23:45 G	11262929.44	11262929.49	11262929.56	0.0133	0.0125
Mercury	26124-12-29 05:02 G	11263017.62	11263017.71	11263017.83	0.0133	0.0104
Mercury	26125-03-27 10:33 G	11263105.82	11263105.94	11263106.09	0.0133	0.0083
Mercury	26125-06-23 16:19 G	11263194.03	11263194.18	11263194.33	0.0133	0.0061
Mercury	26125-09-19 21:36 G	11263282.24	11263282.40	11263282.57	0.0133	0.0040
Mercury	26125-12-17 02:53 G	11263370.46	11263370.62	11263370.79	0.0133	0.0020
Mercury	26126-03-15 08:24 G	11263458.68	11263458.85	11263459.02	0.0133	0.0003

Mercury	26126-06-11 13:26 G	11263546.90	11263547.06	11263547.23	0.0133	0.0022
Mercury	26126-09-07 18:43 G	11263635.12	11263635.28	11263635.44	0.0133	0.0042
Mercury	26126-12-05 00:00 G	11263723.35	11263723.50	11263723.64	0.0133	0.0063
Mercury	26127-03-03 05:02 G	11263811.58	11263811.71	11263811.84	0.0133	0.0083
Mercury	26127-05-30 10:05 G	11263899.82	11263899.92	11263900.03	0.0133	0.0102
Mercury	26127-08-26 14:53 G	11263988.07	11263988.12	11263988.20	0.0133	0.0122
Mars	26133-11-30 01:41 G	11266275.32	11266275.57	11266275.85	0.0134	0.0050
Moon	26153-12-20 20:53 G	11273601.17	11273601.37	11273601.60	0.0140	0.0068
Earth	26153-12-20 21:21 G	11273601.18	11273601.39	11273601.62	0.0140	0.0074 *
Earth	26154-12-25 16:19 G	11273970.93	11273971.18	11273971.43	0.0141	0.0002
Moon	26154-12-25 17:45 G	11273970.97	11273971.24	11273971.50	0.0141	0.0005 *
Moon	26155-12-30 09:50 G	11274340.71	11274340.91	11274341.14	0.0141	0.0070
Earth	26155-12-30 11:31 G	11274340.77	11274340.98	11274341.21	0.0141	0.0070 *
Earth	26157-01-03 07:26 G	11274710.81	11274710.81	11274710.82	0.0142	0.0142
Venus	26159-11-05 09:07 G	11275746.81	11275746.88	11275746.98	0.0143	0.0130
Venus	26160-06-18 19:55 G	11275973.17	11275973.33	11275973.51	0.0143	0.0091
Venus	26161-01-31 06:43 G	11276199.59	11276199.78	11276199.99	0.0143	0.0052
Venus	26161-09-14 18:00 G	11276426.03	11276426.25	11276426.47	0.0144	0.0012
Venus	26162-04-29 05:02 G	11276652.50	11276652.71	11276652.93	0.0144	0.0028
Venus	26162-12-11 16:19 G	11276879.00	11276879.18	11276879.38	0.0144	0.0068
Venus	26163-07-26 03:36 G	11277105.52	11277105.65	11277105.80	0.0144	0.0108
Mercury	26167-03-26 23:17 G	11278445.40	11278445.47	11278445.54	0.0145	0.0125
Mercury	26167-06-23 03:36 G	11278533.56	11278533.65	11278533.76	0.0145	0.0103
Mercury	26167-09-19 08:09 G	11278621.72	11278621.84	11278621.96	0.0145	0.0081
Mercury	26167-12-16 12:43 G	11278709.90	11278710.03	11278710.16	0.0145	0.0058
Mercury	26168-03-13 17:17 G	11278798.08	11278798.22	11278798.36	0.0145	0.0036
Mercury	26168-06-09 21:50 G	11278886.27	11278886.41	11278886.56	0.0145	0.0013
Mercury	26168-09-06 02:38 G	11278974.46	11278974.61	11278974.75	0.0145	0.0011
Mercury	26168-12-03 07:12 G	11279062.66	11279062.80	11279062.94	0.0145	0.0033
Mercury	26169-03-01 11:45 G	11279150.86	11279150.99	11279151.13	0.0145	0.0057

Mercury	26169-05-28 16:33 G	11279239.07	11279239.19	11279239.32	0.0145	0.0080
Mercury	26169-08-24 21:21 G	11279327.29	11279327.39	11279327.50	0.0145	0.0104
Mercury	26169-11-21 02:24 G	11279415.53	11279415.60	11279415.67	0.0145	0.0127
Mars	26174-03-29 20:09 G	11281005.05	11281005.34	11281005.66	0.0145	0.0058
Earth	26193-06-19 11:45 G	11288026.81	11288026.99	11288027.19	0.0138	0.0090
Moon	26193-06-19 12:43 G	11288026.84	11288027.03	11288027.23	0.0138	0.0091 *
Moon	26194-06-24 00:57 G	11288396.30	11288396.54	11288396.79	0.0137	0.0025
Earth	26194-06-24 01:41 G	11288396.32	11288396.57	11288396.82	0.0137	0.0024 *
Earth	26195-06-28 14:24 G	11288765.87	11288766.10	11288766.35	0.0137	0.0042
Moon	26195-06-28 15:50 G	11288765.91	11288766.16	11288766.41	0.0137	0.0046 *
Moon	26196-07-02 01:26 G	11289135.41	11289135.56	11289135.74	0.0137	0.0101
Earth	26196-07-02 03:07 G	11289135.48	11289135.63	11289135.79	0.0137	0.0107 *
Venus	26200-02-21 21:21 G	11290465.30	11290465.39	11290465.50	0.0135	0.0120
Venus	26200-10-06 03:50 G	11290691.50	11290691.66	11290691.84	0.0135	0.0087
Venus	26201-05-20 10:33 G	11290917.74	11290917.94	11290918.14	0.0135	0.0053
Venus	26202-01-01 16:48 G	11291143.99	11291144.20	11291144.42	0.0135	0.0020
Venus	26202-08-15 23:02 G	11291370.24	11291370.46	11291370.68	0.0135	0.0013
Venus	26203-03-30 05:02 G	11291596.51	11291596.71	11291596.92	0.0134	0.0045
Venus	26203-11-11 11:02 G	11291822.79	11291822.96	11291823.14	0.0134	0.0078
Venus	26204-06-24 16:48 G	11292049.09	11292049.20	11292049.33	0.0134	0.0110
Mercury	26208-10-23 06:29 G	11293630.70	11293630.77	11293630.84	0.0133	0.0121
Mercury	26209-01-19 11:45 G	11293718.89	11293718.99	11293719.11	0.0133	0.0100
Mercury	26209-04-17 17:17 G	11293807.09	11293807.22	11293807.36	0.0133	0.0078
Mercury	26209-07-14 22:48 G	11293895.30	11293895.45	11293895.61	0.0133	0.0057
Mercury	26209-10-11 04:05 G	11293983.51	11293983.67	11293983.84	0.0133	0.0036
Mercury	26210-01-07 09:36 G	11294071.73	11294071.90	11294072.07	0.0133	0.0015
Mercury	26210-04-05 14:53 G	11294159.95	11294160.12	11294160.29	0.0133	0.0005
Mercury	26210-07-02 19:55 G	11294248.17	11294248.33	11294248.50	0.0133	0.0027
Mercury	26210-09-29 01:12 G	11294336.40	11294336.55	11294336.71	0.0133	0.0046
Mercury	26210-12-26 06:29 G	11294424.63	11294424.77	11294424.91	0.0133	0.0066

Mercury	26211-03-24 11:31 G	11294512.86	11294512.98	11294513.11	0.0133	0.0086
Mercury	26211-06-20 16:33 G	11294601.10	11294601.19	11294601.29	0.0133	0.0106
Mercury	26211-09-16 21:21 G	11294689.35	11294689.39	11294689.46	0.0133	0.0126
Mars	26216-08-25 20:38 G	11296494.11	11296494.36	11296494.61	0.0133	0.0066
Mars	26218-07-26 02:38 G	11297193.50	11297193.61	11297193.77	0.0134	0.0118
Moon	26236-12-17 08:38 G	11303912.82	11303912.86	11303912.96	0.0140	0.0135
Earth	26237-12-22 04:05 G	11304282.47	11304282.67	11304282.90	0.0140	0.0073
Moon	26237-12-22 04:05 G	11304282.48	11304282.67	11304282.89	0.0140	0.0079 *
Moon	26238-12-26 23:17 G	11304652.21	11304652.47	11304652.73	0.0141	0.0003
Earth	26238-12-26 23:02 G	11304652.21	11304652.46	11304652.72	0.0141	0.0003 *
Moon	26239-12-31 17:17 G	11305022.02	11305022.22	11305022.44	0.0141	0.0071
Earth	26239-12-31 18:14 G	11305022.04	11305022.26	11305022.48	0.0141	0.0071 *
Moon	26241-01-04 15:07 G	11305392.10	11305392.13	11305392.20	0.0142	0.0139
Venus	26244-02-18 00:29 G	11306531.39	11306531.52	11306531.67	0.0143	0.0110
Venus	26244-10-01 11:17 G	11306757.79	11306757.97	11306758.17	0.0143	0.0071
Venus	26245-05-15 22:19 G	11306984.22	11306984.43	11306984.65	0.0143	0.0032
Venus	26245-12-28 09:21 G	11307210.68	11307210.89	11307211.11	0.0144	0.0009
Venus	26246-08-11 20:38 G	11307437.16	11307437.36	11307437.57	0.0144	0.0048
Venus	26247-03-26 07:55 G	11307663.66	11307663.83	11307664.00	0.0144	0.0088
Venus	26247-11-07 19:26 G	11307890.22	11307890.31	11307890.41	0.0144	0.0128
Mercury	26251-01-19 01:26 G	11309058.55	11309058.56	11309058.57	0.0145	0.0144
Mercury	26251-04-17 06:00 G	11309146.67	11309146.75	11309146.82	0.0145	0.0122
Mercury	26251-07-14 10:19 G	11309234.83	11309234.93	11309235.03	0.0145	0.0100
Mercury	26251-10-10 14:53 G	11309323.00	11309323.12	11309323.24	0.0145	0.0078
Mercury	26252-01-06 19:12 G	11309411.17	11309411.30	11309411.44	0.0145	0.0056
Mercury	26252-04-04 00:00 G	11309499.36	11309499.50	11309499.64	0.0145	0.0033
Mercury	26252-07-01 04:33 G	11309587.54	11309587.69	11309587.83	0.0145	0.0010
Mercury	26252-09-27 09:07 G	11309675.74	11309675.88	11309676.03	0.0145	0.0013
Mercury	26252-12-24 13:55 G	11309763.93	11309764.08	11309764.22	0.0145	0.0036
Mercury	26253-03-22 18:29 G	11309852.14	11309852.27	11309852.41	0.0145	0.0059

Mercury	26253-06-18 23:02 G	11309940.35	11309940.46	11309940.59	0.0145	0.0083
Mercury	26253-09-15 04:05 G	11310028.57	11310028.67	11310028.77	0.0145	0.0106
Mercury	26253-12-12 08:53 G	11310116.81	11310116.87	11310116.93	0.0145	0.0130
Mars	26258-11-24 20:53 G	11311925.06	11311925.37	11311925.70	0.0145	0.0043
Moon	26277-06-20 18:43 G	11318708.09	11318708.28	11318708.51	0.0138	0.0085
Earth	26277-06-20 19:26 G	11318708.14	11318708.31	11318708.52	0.0138	0.0089 *
Moon	26278-06-25 09:21 G	11319077.65	11319077.89	11319078.13	0.0137	0.0021
Earth	26278-06-25 09:21 G	11319077.65	11319077.89	11319078.15	0.0137	0.0023 *
Earth	26279-06-29 22:33 G	11319447.21	11319447.44	11319447.69	0.0137	0.0044
Moon	26279-06-29 22:48 G	11319447.21	11319447.45	11319447.71	0.0137	0.0040 *
Moon	26280-07-03 10:19 G	11319816.82	11319816.93	11319817.09	0.0137	0.0115
Earth	26280-07-03 11:02 G	11319816.82	11319816.96	11319817.13	0.0137	0.0109 *
Venus	26283-10-23 05:02 G	11321023.70	11321023.71	11321023.75	0.0136	0.0135
Venus	26284-06-05 11:45 G	11321249.86	11321249.99	11321250.15	0.0135	0.0102
Venus	26285-01-17 18:29 G	11321476.09	11321476.27	11321476.46	0.0135	0.0068
Venus	26285-09-01 00:57 G	11321702.33	11321702.54	11321702.75	0.0135	0.0035
Venus	26286-04-15 07:12 G	11321928.59	11321928.80	11321929.02	0.0135	0.0003
Venus	26286-11-27 13:26 G	11322154.85	11322155.06	11322155.27	0.0135	0.0031
Venus	26287-07-11 19:12 G	11322381.12	11322381.30	11322381.51	0.0134	0.0064
Venus	26288-02-23 01:12 G	11322607.41	11322607.55	11322607.71	0.0134	0.0096
Venus	26288-10-06 07:12 G	11322833.74	11322833.80	11322833.87	0.0134	0.0127
Mercury	26292-11-12 12:57 G	11324331.97	11324332.04	11324332.13	0.0133	0.0117
Mercury	26293-02-08 18:29 G	11324420.16	11324420.27	11324420.40	0.0133	0.0095
Mercury	26293-05-07 23:45 G	11324508.36	11324508.49	11324508.65	0.0133	0.0075
Mercury	26293-08-04 05:31 G	11324596.58	11324596.73	11324596.89	0.0133	0.0053
Mercury	26293-10-31 10:48 G	11324684.79	11324684.95	11324685.12	0.0133	0.0032
Mercury	26294-01-27 16:19 G	11324773.01	11324773.18	11324773.35	0.0133	0.0011
Mercury	26294-04-25 21:36 G	11324861.23	11324861.40	11324861.57	0.0133	0.0010
Mercury	26294-07-23 02:38 G	11324949.45	11324949.61	11324949.78	0.0133	0.0031
Mercury	26294-10-19 07:55 G	11325037.68	11325037.83	11325037.99	0.0133	0.0051

Mercury	26295-01-15 13:12 G	11325125.91	11325126.05	11325126.19	0.0133	0.0070
Mercury	26295-04-13 18:14 G	11325214.14	11325214.26	11325214.39	0.0133	0.0091
Mercury	26295-07-10 23:17 G	11325302.39	11325302.47	11325302.57	0.0133	0.0110
Mercury	26295-10-07 04:05 G	11325390.65	11325390.67	11325390.72	0.0133	0.0131
Mars	26301-04-20 23:17 G	11327412.19	11327412.47	11327412.76	0.0133	0.0004
Earth	26321-12-23 12:29 G	11334963.81	11334964.02	11334964.25	0.0140	0.0071
Moon	26321-12-23 13:41 G	11334963.86	11334964.07	11334964.30	0.0140	0.0064 *
Moon	26322-12-28 06:43 G	11335333.52	11335333.78	11335334.05	0.0141	0.0004
Earth	26322-12-28 07:12 G	11335333.54	11335333.80	11335334.05	0.0141	0.0001 *
Earth	26324-01-02 01:55 G	11335703.38	11335703.58	11335703.81	0.0141	0.0073
Moon	26324-01-02 01:55 G	11335703.39	11335703.58	11335703.80	0.0141	0.0075 *
Venus	26327-10-19 06:00 G	11337089.66	11337089.75	11337089.85	0.0143	0.0128
Venus	26328-06-01 16:48 G	11337316.03	11337316.20	11337316.37	0.0143	0.0089
Venus	26329-01-14 03:21 G	11337542.45	11337542.64	11337542.85	0.0143	0.0051
Venus	26329-08-28 14:24 G	11337768.89	11337769.10	11337769.32	0.0143	0.0011
Venus	26330-04-12 01:41 G	11337995.35	11337995.57	11337995.78	0.0144	0.0029
Venus	26330-11-24 12:57 G	11338221.85	11338222.04	11338222.23	0.0144	0.0069
Venus	26331-07-09 00:14 G	11338448.38	11338448.51	11338448.66	0.0144	0.0109
Mercury	26335-02-09 08:09 G	11339759.81	11339759.84	11339759.87	0.0145	0.0141
Mercury	26335-05-08 12:29 G	11339847.95	11339848.02	11339848.11	0.0145	0.0119
Mercury	26335-08-04 17:02 G	11339936.11	11339936.21	11339936.32	0.0145	0.0097
Mercury	26335-10-31 21:21 G	11340024.28	11340024.39	11340024.52	0.0145	0.0075
Mercury	26336-01-28 02:09 G	11340112.45	11340112.59	11340112.72	0.0145	0.0052
Mercury	26336-04-25 06:43 G	11340200.64	11340200.78	11340200.92	0.0145	0.0030
Mercury	26336-07-22 11:17 G	11340288.82	11340288.97	11340289.12	0.0145	0.0007
Mercury	26336-10-18 15:50 G	11340377.02	11340377.16	11340377.31	0.0145	0.0017
Mercury	26337-01-14 20:24 G	11340465.22	11340465.35	11340465.50	0.0145	0.0040
Mercury	26337-04-13 01:12 G	11340553.42	11340553.55	11340553.69	0.0145	0.0063
Mercury	26337-07-10 06:00 G	11340641.63	11340641.75	11340641.87	0.0145	0.0086
Mercury	26337-10-06 10:33 G	11340729.86	11340729.94	11340730.05	0.0145	0.0110

Mercury	26338-01-02 15:21 G	11340818.10	11340818.14	11340818.21	0.0145	0.0134
Mars	26341-08-15 10:05 G	11342138.82	11342138.92	11342139.04	0.0145	0.0136
Moon	26361-06-22 02:09 G	11349389.41	11349389.59	11349389.81	0.0138	0.0091
Earth	26361-06-22 03:21 G	11349389.45	11349389.64	11349389.84	0.0138	0.0087 *
Earth	26362-06-26 17:17 G	11349758.97	11349759.22	11349759.47	0.0137	0.0021
Moon	26362-06-26 18:14 G	11349759.02	11349759.26	11349759.50	0.0137	0.0020 *
Moon	26363-07-01 05:45 G	11350128.50	11350128.74	11350129.00	0.0137	0.0048
Earth	26363-07-01 06:29 G	11350128.53	11350128.77	11350129.01	0.0137	0.0045 *
Moon	26364-07-04 18:43 G	11350498.14	11350498.28	11350498.45	0.0137	0.0105
Earth	26364-07-04 18:29 G	11350498.14	11350498.27	11350498.44	0.0137	0.0111 *
Venus	26368-02-04 19:26 G	11351808.21	11351808.31	11351808.43	0.0135	0.0117
Venus	26368-09-18 02:09 G	11352034.42	11352034.59	11352034.76	0.0135	0.0084
Venus	26369-05-02 08:38 G	11352260.66	11352260.86	11352261.07	0.0135	0.0051
Venus	26369-12-14 14:53 G	11352486.91	11352487.12	11352487.35	0.0135	0.0018
Venus	26370-07-28 21:07 G	11352713.17	11352713.38	11352713.60	0.0135	0.0016
Venus	26371-03-12 03:21 G	11352939.44	11352939.64	11352939.84	0.0135	0.0048
Venus	26371-10-24 09:07 G	11353165.72	11353165.88	11353166.07	0.0134	0.0081
Venus	26372-06-06 15:21 G	11353392.03	11353392.14	11353392.26	0.0134	0.0113
Mercury	26376-12-03 19:12 G	11355033.23	11355033.30	11355033.41	0.0133	0.0114
Mercury	26377-03-02 00:57 G	11355121.43	11355121.54	11355121.67	0.0133	0.0092
Mercury	26377-05-29 06:29 G	11355209.63	11355209.77	11355209.92	0.0133	0.0071
Mercury	26377-08-25 12:00 G	11355297.85	11355298.00	11355298.16	0.0133	0.0049
Mercury	26377-11-21 17:31 G	11355386.06	11355386.23	11355386.39	0.0133	0.0028
Mercury	26378-02-17 22:48 G	11355474.28	11355474.45	11355474.62	0.0133	0.0008
Mercury	26378-05-17 04:05 G	11355562.50	11355562.67	11355562.84	0.0133	0.0013
Mercury	26378-08-13 09:21 G	11355650.73	11355650.89	11355651.05	0.0133	0.0034
Mercury	26378-11-09 14:24 G	11355738.95	11355739.10	11355739.26	0.0133	0.0054
Mercury	26379-02-05 19:26 G	11355827.19	11355827.31	11355827.46	0.0133	0.0075
Mercury	26379-05-05 00:43 G	11355915.42	11355915.53	11355915.65	0.0133	0.0094
Mercury	26379-08-01 06:00 G	11356003.66	11356003.75	11356003.83	0.0133	0.0114

Mars	26384-01-14 15:50 G	11357631.03	11357631.16	11357631.33	0.0133	0.0114
Mars	26385-12-14 00:14 G	11358330.28	11358330.51	11358330.76	0.0134	0.0073
Moon	26404-12-19 01:26 G	11365275.49	11365275.56	11365275.67	0.0140	0.0131
Earth	26404-12-19 03:50 G	11365275.64	11365275.66	11365275.72	0.0140	0.0138 *
Earth	26405-12-23 22:05 G	11365645.20	11365645.42	11365645.65	0.0140	0.0068
Moon	26405-12-23 23:17 G	11365645.27	11365645.47	11365645.69	0.0140	0.0075 *
Moon	26406-12-28 15:07 G	11366014.87	11366015.13	11366015.40	0.0141	0.0010
Earth	26406-12-28 16:48 G	11366014.94	11366015.20	11366015.45	0.0141	0.0004 *
Earth	26408-01-02 11:31 G	11366384.77	11366384.98	11366385.20	0.0141	0.0076
Moon	26408-01-02 12:14 G	11366384.81	11366385.01	11366385.22	0.0141	0.0074 *
Venus	26412-01-30 23:02 G	11367874.33	11367874.46	11367874.62	0.0143	0.0107
Venus	26412-09-13 10:05 G	11368100.73	11368100.92	11368101.11	0.0143	0.0068
Venus	26413-04-27 20:53 G	11368327.16	11368327.37	11368327.59	0.0143	0.0028
Venus	26413-12-10 08:09 G	11368553.62	11368553.84	11368554.05	0.0144	0.0012
Venus	26414-07-24 18:57 G	11368780.10	11368780.29	11368780.51	0.0144	0.0052
Venus	26415-03-08 06:29 G	11369006.61	11369006.77	11369006.94	0.0144	0.0091
Venus	26415-10-20 18:00 G	11369233.17	11369233.25	11369233.34	0.0144	0.0131
Mercury	26419-03-01 15:07 G	11370461.10	11370461.13	11370461.19	0.0145	0.0136
Mercury	26419-05-28 19:41 G	11370549.24	11370549.32	11370549.41	0.0145	0.0114
Mercury	26419-08-25 00:00 G	11370637.40	11370637.50	11370637.62	0.0145	0.0092
Mercury	26419-11-21 04:33 G	11370725.57	11370725.69	11370725.82	0.0145	0.0070
Mercury	26420-02-17 09:07 G	11370813.75	11370813.88	11370814.02	0.0145	0.0047
Mercury	26420-05-15 13:41 G	11370901.93	11370902.07	11370902.22	0.0145	0.0025
Mercury	26420-08-11 18:29 G	11370990.12	11370990.27	11370990.41	0.0145	0.0004
Mercury	26420-11-07 23:02 G	11371078.31	11371078.46	11371078.60	0.0145	0.0021
Mercury	26421-02-04 03:36 G	11371166.51	11371166.65	11371166.79	0.0145	0.0045
Mercury	26421-05-03 08:09 G	11371254.72	11371254.84	11371254.98	0.0145	0.0068
Mercury	26421-07-30 13:12 G	11371342.93	11371343.05	11371343.16	0.0145	0.0091
Mercury	26421-10-26 17:45 G	11371431.16	11371431.24	11371431.33	0.0145	0.0115
Mercury	26422-01-22 22:33 G	11371519.41	11371519.44	11371519.49	0.0145	0.0139

Mars	26426-04-11 15:07 G	11373058.82	11373059.13	11373059.46	0.0145	0.0033
Moon	26445-06-22 09:50 G	11380070.70	11380070.91	11380071.12	0.0138	0.0080
Earth	26445-06-22 11:45 G	11380070.81	11380070.99	11380071.20	0.0138	0.0086 *
Earth	26446-06-27 01:41 G	11380440.32	11380440.57	11380440.83	0.0137	0.0019
Moon	26446-06-27 03:07 G	11380440.39	11380440.63	11380440.87	0.0137	0.0020 *
Moon	26447-07-01 13:26 G	11380809.82	11380810.06	11380810.32	0.0137	0.0045
Earth	26447-07-01 14:53 G	11380809.89	11380810.12	11380810.36	0.0137	0.0047 *
Earth	26448-07-05 03:21 G	11381179.50	11381179.64	11381179.79	0.0137	0.0112
Moon	26448-07-05 04:05 G	11381179.56	11381179.67	11381179.81	0.0137	0.0117 *
Venus	26451-10-05 03:07 G	11382366.60	11382366.63	11382366.70	0.0136	0.0132
Venus	26452-05-18 10:05 G	11382592.78	11382592.92	11382593.08	0.0135	0.0099
Venus	26452-12-30 16:48 G	11382819.01	11382819.20	11382819.40	0.0135	0.0065
Venus	26453-08-13 23:17 G	11383045.26	11383045.47	11383045.68	0.0135	0.0032
Venus	26454-03-28 05:31 G	11383271.52	11383271.73	11383271.95	0.0135	0.0003
Venus	26454-11-09 11:45 G	11383497.78	11383497.99	11383498.21	0.0135	0.0034
Venus	26455-06-23 17:45 G	11383724.06	11383724.24	11383724.44	0.0134	0.0067
Venus	26456-02-05 00:00 G	11383950.36	11383950.50	11383950.65	0.0134	0.0098
Venus	26456-09-18 05:45 G	11384176.70	11384176.74	11384176.80	0.0134	0.0131
Mercury	26460-09-26 20:24 G	11385646.33	11385646.35	11385646.40	0.0134	0.0131
Mercury	26460-12-24 02:09 G	11385734.50	11385734.59	11385734.70	0.0133	0.0109
Mercury	26461-03-22 07:41 G	11385822.70	11385822.82	11385822.96	0.0133	0.0088
Mercury	26461-06-18 13:12 G	11385910.91	11385911.05	11385911.21	0.0133	0.0066
Mercury	26461-09-14 18:43 G	11385999.12	11385999.28	11385999.44	0.0133	0.0045
Mercury	26461-12-12 00:14 G	11386087.34	11386087.51	11386087.68	0.0133	0.0024
Mercury	26462-03-10 05:31 G	11386175.56	11386175.73	11386175.90	0.0133	0.0004
Mercury	26462-06-06 10:48 G	11386263.78	11386263.95	11386264.12	0.0133	0.0017
Mercury	26462-09-02 16:05 G	11386352.01	11386352.17	11386352.33	0.0133	0.0038
Mercury	26462-11-29 21:07 G	11386440.24	11386440.38	11386440.54	0.0133	0.0058
Mercury	26463-02-26 02:24 G	11386528.47	11386528.60	11386528.74	0.0133	0.0078
Mercury	26463-05-25 07:26 G	11386616.71	11386616.81	11386616.93	0.0133	0.0098

Mercury	26463-08-21 12:14 G	11386704.95	11386705.01	11386705.10	0.0133	0.0119
Mars	26468-09-07 19:41 G	11388549.05	11388549.32	11388549.59	0.0133	0.0043
Earth	26488-12-19 13:26 G	11395957.02	11395957.06	11395957.15	0.0140	0.0136
Earth	26489-12-24 07:26 G	11396326.60	11396326.81	11396327.05	0.0140	0.0066
Moon	26489-12-24 10:19 G	11396326.71	11396326.93	11396327.16	0.0140	0.0058 *
Moon	26490-12-29 00:29 G	11396696.26	11396696.52	11396696.78	0.0141	0.0001
Earth	26490-12-29 02:24 G	11396696.34	11396696.60	11396696.85	0.0141	0.0007 *
Earth	26492-01-02 21:07 G	11397066.18	11397066.38	11397066.60	0.0141	0.0079
Moon	26492-01-02 22:48 G	11397066.25	11397066.45	11397066.65	0.0141	0.0082 *
Venus	26495-09-30 06:00 G	11398432.66	11398432.75	11398432.87	0.0143	0.0123
Venus	26496-05-13 16:48 G	11398659.04	11398659.20	11398659.39	0.0143	0.0084
Venus	26496-12-26 03:50 G	11398885.46	11398885.66	11398885.87	0.0143	0.0045
Venus	26497-08-09 14:53 G	11399111.91	11399112.12	11399112.34	0.0143	0.0006
Venus	26498-03-24 01:55 G	11399338.38	11399338.58	11399338.80	0.0144	0.0035
Venus	26498-11-05 13:26 G	11399564.88	11399565.06	11399565.25	0.0144	0.0074
Venus	26499-06-20 00:43 G	11399791.41	11399791.53	11399791.67	0.0144	0.0114
Mercury	26503-03-22 22:33 G	11401162.39	11401162.44	11401162.51	0.0145	0.0130
Mercury	26503-06-19 03:07 G	11401250.54	11401250.63	11401250.73	0.0145	0.0108
Mercury	26503-09-15 07:26 G	11401338.70	11401338.81	11401338.93	0.0145	0.0086
Mercury	26503-12-12 12:00 G	11401426.87	11401427.00	11401427.13	0.0145	0.0063
Mercury	26504-03-09 16:33 G	11401515.05	11401515.19	11401515.33	0.0145	0.0041
Mercury	26504-06-05 21:07 G	11401603.24	11401603.38	11401603.53	0.0145	0.0018
Mercury	26504-09-02 01:41 G	11401691.43	11401691.57	11401691.72	0.0145	0.0005
Mercury	26504-11-29 06:14 G	11401779.62	11401779.76	11401779.91	0.0145	0.0028
Mercury	26505-02-25 11:02 G	11401867.82	11401867.96	11401868.10	0.0145	0.0051
Mercury	26505-05-24 15:36 G	11401956.03	11401956.15	11401956.28	0.0145	0.0074
Mercury	26505-08-20 20:09 G	11402044.25	11402044.34	11402044.46	0.0145	0.0098
Mercury	26505-11-17 01:12 G	11402132.47	11402132.55	11402132.63	0.0145	0.0121
Mercury	26506-02-13 06:00 G	11402220.75	11402220.75	11402220.76	0.0145	0.0145
Mars	26510-12-08 00:29 G	11403979.25	11403979.52	11403979.82	0.0145	0.0075

Moon	26529-06-23 19:12 G	11410752.10	11410752.30	11410752.50	0.0138	0.0088
Earth	26529-06-23 21:21 G	11410752.20	11410752.39	11410752.60	0.0138	0.0083 *
Earth	26530-06-28 11:02 G	11411121.71	11411121.96	11411122.22	0.0137	0.0017
Moon	26530-06-28 13:26 G	11411121.82	11411122.06	11411122.31	0.0137	0.0014 *
Moon	26531-07-02 22:05 G	11411491.18	11411491.42	11411491.67	0.0137	0.0050
Earth	26531-07-03 00:00 G	11411491.27	11411491.50	11411491.75	0.0137	0.0050 *
Earth	26532-07-06 12:00 G	11411860.88	11411861.00	11411861.15	0.0137	0.0115
Moon	26532-07-06 13:26 G	11411860.94	11411861.06	11411861.22	0.0137	0.0111 *
Venus	26536-01-17 18:29 G	11413151.16	11413151.27	11413151.39	0.0135	0.0113
Venus	26536-08-31 01:12 G	11413377.37	11413377.55	11413377.73	0.0135	0.0080
Venus	26537-04-14 07:26 G	11413603.62	11413603.81	11413604.03	0.0135	0.0047
Venus	26537-11-26 14:09 G	11413829.87	11413830.09	11413830.31	0.0135	0.0014
Venus	26538-07-10 20:24 G	11414056.13	11414056.35	11414056.57	0.0135	0.0019
Venus	26539-02-22 02:24 G	11414282.41	11414282.60	11414282.81	0.0134	0.0052
Venus	26539-10-06 08:24 G	11414508.69	11414508.85	11414509.03	0.0134	0.0084
Venus	26540-05-19 14:24 G	11414735.01	11414735.10	11414735.23	0.0134	0.0117
Mercury	26544-10-18 03:07 G	11416347.59	11416347.63	11416347.70	0.0133	0.0127
Mercury	26545-01-14 08:53 G	11416435.77	11416435.87	11416435.98	0.0133	0.0105
Mercury	26545-04-12 14:24 G	11416523.97	11416524.10	11416524.24	0.0133	0.0083
Mercury	26545-07-09 19:55 G	11416612.18	11416612.33	11416612.48	0.0133	0.0062
Mercury	26545-10-06 01:12 G	11416700.40	11416700.55	11416700.72	0.0133	0.0042
Mercury	26546-01-02 06:43 G	11416788.62	11416788.78	11416788.95	0.0133	0.0020
Mercury	26546-03-31 12:14 G	11416876.84	11416877.01	11416877.18	0.0133	0.0003
Mercury	26546-06-27 17:31 G	11416965.06	11416965.23	11416965.39	0.0133	0.0021
Mercury	26546-09-23 22:48 G	11417053.29	11417053.45	11417053.61	0.0133	0.0042
Mercury	26546-12-21 03:36 G	11417141.51	11417141.65	11417141.81	0.0133	0.0063
Mercury	26547-03-19 08:53 G	11417229.75	11417229.87	11417230.01	0.0133	0.0082
Mercury	26547-06-15 13:55 G	11417317.99	11417318.08	11417318.20	0.0133	0.0102
Mercury	26547-09-11 19:12 G	11417406.24	11417406.30	11417406.37	0.0133	0.0122
Mars	26553-05-03 21:07 G	11419467.10	11419467.38	11419467.67	0.0134	0.0028

Moon	26572-12-20 19:26 G	11426638.21	11426638.31	11426638.41	0.0140	0.0128
Earth	26572-12-20 22:19 G	11426638.37	11426638.43	11426638.53	0.0140	0.0133 *
Earth	26573-12-25 16:19 G	11427007.97	11427008.18	11427008.42	0.0141	0.0063
Moon	26573-12-25 18:57 G	11427008.09	11427008.29	11427008.52	0.0141	0.0070 *
Moon	26574-12-30 08:24 G	11427377.60	11427377.85	11427378.11	0.0141	0.0016
Earth	26574-12-30 11:17 G	11427377.72	11427377.97	11427378.22	0.0141	0.0009 *
Earth	26576-01-04 06:14 G	11427747.56	11427747.76	11427747.97	0.0141	0.0081
Moon	26576-01-04 08:24 G	11427747.65	11427747.85	11427748.06	0.0141	0.0078 *
Venus	26579-05-31 12:29 G	11428991.00	11428991.02	11428991.09	0.0143	0.0140
Venus	26580-01-12 23:31 G	11429217.34	11429217.48	11429217.64	0.0143	0.0101
Venus	26580-08-26 10:19 G	11429443.74	11429443.93	11429444.13	0.0143	0.0062
Venus	26581-04-09 21:36 G	11429670.18	11429670.40	11429670.61	0.0143	0.0023
Venus	26581-11-22 08:53 G	11429896.65	11429896.87	11429897.08	0.0144	0.0017
Venus	26582-07-06 19:55 G	11430123.14	11430123.33	11430123.54	0.0144	0.0057
Venus	26583-02-18 07:12 G	11430349.65	11430349.80	11430349.97	0.0144	0.0097
Venus	26583-10-02 18:57 G	11430576.22	11430576.29	11430576.36	0.0144	0.0136
Mercury	26587-04-12 06:00 G	11431863.69	11431863.75	11431863.83	0.0145	0.0124
Mercury	26587-07-09 10:19 G	11431951.84	11431951.93	11431952.04	0.0145	0.0102
Mercury	26587-10-05 14:53 G	11432040.01	11432040.12	11432040.25	0.0145	0.0080
Mercury	26588-01-01 19:26 G	11432128.18	11432128.31	11432128.44	0.0145	0.0057
Mercury	26588-03-30 00:00 G	11432216.36	11432216.50	11432216.64	0.0145	0.0035
Mercury	26588-06-26 04:33 G	11432304.54	11432304.69	11432304.83	0.0145	0.0012
Mercury	26588-09-22 09:07 G	11432392.73	11432392.88	11432393.03	0.0145	0.0011
Mercury	26588-12-19 13:41 G	11432480.93	11432481.07	11432481.21	0.0145	0.0034
Mercury	26589-03-17 18:14 G	11432569.13	11432569.26	11432569.40	0.0145	0.0057
Mercury	26589-06-13 23:02 G	11432657.34	11432657.46	11432657.58	0.0145	0.0080
Mercury	26589-09-10 03:36 G	11432745.56	11432745.65	11432745.76	0.0145	0.0104
Mercury	26589-12-07 08:38 G	11432833.79	11432833.86	11432833.93	0.0145	0.0127
Mars	26593-08-27 23:02 G	11434193.25	11434193.46	11434193.72	0.0145	0.0102
Moon	26613-06-25 04:19 G	11441433.47	11441433.68	11441433.90	0.0138	0.0074

Earth	26613-06-25 07:26 G	11441433.61	11441433.81	11441434.03	0.0138	0.0081	*
Earth	26614-06-29 21:07 G	11441803.13	11441803.38	11441803.63	0.0137	0.0014	
Moon	26614-06-29 23:31 G	11441803.24	11441803.48	11441803.73	0.0137	0.0017	*
Moon	26615-07-04 07:12 G	11442172.57	11442172.80	11442173.05	0.0137	0.0052	
Earth	26615-07-04 10:05 G	11442172.68	11442172.92	11442173.15	0.0137	0.0052	*
Earth	26616-07-07 21:50 G	11442542.30	11442542.41	11442542.55	0.0137	0.0118	
Moon	26616-07-08 00:14 G	11442542.41	11442542.51	11442542.64	0.0137	0.0121	*
Venus	26619-09-18 02:53 G	11443709.56	11443709.62	11443709.71	0.0135	0.0127	
Venus	26620-05-01 09:50 G	11443935.76	11443935.91	11443936.07	0.0135	0.0094	
Venus	26620-12-13 16:19 G	11444162.00	11444162.18	11444162.39	0.0135	0.0061	
Venus	26621-07-27 22:48 G	11444388.24	11444388.45	11444388.67	0.0135	0.0028	
Venus	26622-03-11 05:17 G	11444614.50	11444614.72	11444614.94	0.0135	0.0005	
Venus	26622-10-23 11:31 G	11444840.77	11444840.98	11444841.19	0.0134	0.0038	
Venus	26623-06-06 17:31 G	11445067.06	11445067.23	11445067.43	0.0134	0.0071	
Venus	26624-01-18 23:45 G	11445293.36	11445293.49	11445293.64	0.0134	0.0102	
Mercury	26628-11-08 10:05 G	11447048.86	11447048.92	11447048.99	0.0133	0.0122	
Mercury	26629-02-04 15:21 G	11447137.04	11447137.14	11447137.27	0.0133	0.0101	
Mercury	26629-05-03 20:53 G	11447225.25	11447225.37	11447225.52	0.0133	0.0080	
Mercury	26629-07-31 02:38 G	11447313.46	11447313.61	11447313.77	0.0133	0.0058	
Mercury	26629-10-27 08:09 G	11447401.68	11447401.84	11447402.00	0.0133	0.0037	
Mercury	26630-01-23 13:26 G	11447489.90	11447490.06	11447490.23	0.0133	0.0016	
Mercury	26630-04-21 18:57 G	11447578.12	11447578.29	11447578.46	0.0133	0.0006	
Mercury	26630-07-19 00:14 G	11447666.34	11447666.51	11447666.67	0.0133	0.0026	
Mercury	26630-10-15 05:17 G	11447754.57	11447754.72	11447754.88	0.0133	0.0046	
Mercury	26631-01-11 10:33 G	11447842.80	11447842.94	11447843.09	0.0133	0.0066	
Mercury	26631-04-09 15:36 G	11447931.03	11447931.15	11447931.28	0.0133	0.0086	
Mercury	26631-07-06 20:38 G	11448019.27	11448019.36	11448019.47	0.0133	0.0107	
Mercury	26631-10-03 01:41 G	11448107.53	11448107.57	11448107.64	0.0133	0.0126	
Mars	26636-01-28 13:55 G	11449685.88	11449686.08	11449686.31	0.0133	0.0091	
Mars	26637-12-27 23:17 G	11450385.30	11450385.47	11450385.68	0.0134	0.0099	

Moon	26656-12-22 02:38 G	11457319.58	11457319.61	11457319.68	0.0140	0.0137
Earth	26656-12-22 06:14 G	11457319.69	11457319.76	11457319.86	0.0140	0.0132
Earth	26657-12-27 00:00 G	11457689.29	11457689.50	11457689.74	0.0141	0.0062
Moon	26657-12-27 03:36 G	11457689.43	11457689.65	11457689.89	0.0141	0.0054 *
Moon	26658-12-31 15:50 G	11458058.91	11458059.16	11458059.42	0.0141	0.0005
Earth	26658-12-31 18:57 G	11458059.03	11458059.29	11458059.54	0.0141	0.0011 *
Earth	26660-01-05 13:41 G	11458428.88	11458429.07	11458429.29	0.0141	0.0084
Moon	26660-01-05 16:48 G	11458429.01	11458429.20	11458429.39	0.0141	0.0088 *
Venus	26663-09-13 05:17 G	11459775.61	11459775.72	11459775.85	0.0143	0.0118
Venus	26664-04-26 15:50 G	11460002.00	11460002.16	11460002.36	0.0143	0.0080
Venus	26664-12-09 03:07 G	11460228.43	11460228.63	11460228.84	0.0143	0.0041
Venus	26665-07-23 14:24 G	11460454.88	11460455.10	11460455.32	0.0143	0.0002
Venus	26666-03-07 01:26 G	11460681.36	11460681.56	11460681.77	0.0144	0.0039
Venus	26666-10-19 12:43 G	11460907.86	11460908.03	11460908.22	0.0144	0.0079
Venus	26667-06-03 00:14 G	11461134.40	11461134.51	11461134.64	0.0144	0.0118
Mercury	26671-02-04 08:38 G	11462476.84	11462476.86	11462476.90	0.0145	0.0141
Mercury	26671-05-03 13:12 G	11462564.97	11462565.05	11462565.13	0.0145	0.0119
Mercury	26671-07-30 17:17 G	11462653.13	11462653.22	11462653.34	0.0145	0.0098
Mercury	26671-10-26 22:05 G	11462741.30	11462741.42	11462741.54	0.0145	0.0075
Mercury	26672-01-23 02:24 G	11462829.47	11462829.60	11462829.74	0.0145	0.0053
Mercury	26672-04-20 06:57 G	11462917.65	11462917.79	11462917.93	0.0145	0.0030
Mercury	26672-07-17 11:31 G	11463005.84	11463005.98	11463006.13	0.0145	0.0008
Mercury	26672-10-13 16:05 G	11463094.03	11463094.17	11463094.32	0.0145	0.0015
Mercury	26673-01-09 20:38 G	11463182.22	11463182.36	11463182.51	0.0145	0.0039
Mercury	26673-04-08 01:12 G	11463270.43	11463270.55	11463270.69	0.0145	0.0062
Mercury	26673-07-05 06:00 G	11463358.64	11463358.75	11463358.87	0.0145	0.0085
Mercury	26673-10-01 10:33 G	11463446.85	11463446.94	11463447.05	0.0145	0.0109
Mercury	26673-12-28 15:36 G	11463535.09	11463535.15	11463535.21	0.0145	0.0132
Mars	26678-04-25 06:43 G	11465113.45	11465113.78	11465114.11	0.0145	0.0005
Moon	26696-06-21 06:57 G	11471745.78	11471745.79	11471745.81	0.0138	0.0138

Moon	26697-06-25 14:09 G	11472114.90	11472115.09	11472115.31	0.0138	0.0084
Earth	26697-06-25 17:17 G	11472115.03	11472115.22	11472115.45	0.0138	0.0078 *
Earth	26698-06-30 06:57 G	11472484.54	11472484.79	11472485.04	0.0137	0.0011
Moon	26698-06-30 10:19 G	11472484.68	11472484.93	11472485.18	0.0137	0.0007 *
Moon	26699-07-04 16:33 G	11472853.96	11472854.19	11472854.44	0.0137	0.0054
Earth	26699-07-04 19:26 G	11472854.09	11472854.31	11472854.56	0.0137	0.0056 *
Earth	26700-07-09 07:26 G	11473223.71	11473223.81	11473223.94	0.0137	0.0121
Moon	26700-07-09 09:50 G	11473223.81	11473223.91	11473224.06	0.0137	0.0118 *
Venus	26703-12-31 18:43 G	11474494.15	11474494.28	11474494.41	0.0135	0.0108
Venus	26704-08-14 00:57 G	11474720.37	11474720.54	11474720.73	0.0135	0.0075
Venus	26705-03-28 07:41 G	11474946.62	11474946.82	11474947.03	0.0135	0.0042
Venus	26705-11-09 14:09 G	11475172.87	11475173.09	11475173.31	0.0135	0.0009
Venus	26706-06-23 20:38 G	11475399.14	11475399.36	11475399.57	0.0135	0.0024
Venus	26707-02-05 02:24 G	11475625.42	11475625.60	11475625.81	0.0134	0.0057
Venus	26707-09-19 08:38 G	11475851.70	11475851.86	11475852.03	0.0134	0.0088
Venus	26708-05-02 14:38 G	11476078.03	11476078.11	11476078.21	0.0134	0.0120
Mercury	26712-11-29 16:33 G	11477750.12	11477750.19	11477750.28	0.0133	0.0118
Mercury	26713-02-25 22:05 G	11477838.31	11477838.42	11477838.55	0.0133	0.0097
Mercury	26713-05-25 03:36 G	11477926.52	11477926.65	11477926.80	0.0133	0.0075
Mercury	26713-08-21 09:07 G	11478014.73	11478014.88	11478015.04	0.0133	0.0054
Mercury	26713-11-17 14:38 G	11478102.95	11478103.11	11478103.28	0.0133	0.0033
Mercury	26714-02-13 20:09 G	11478191.17	11478191.34	11478191.51	0.0133	0.0012
Mercury	26714-05-13 01:26 G	11478279.39	11478279.56	11478279.73	0.0133	0.0009
Mercury	26714-08-09 06:43 G	11478367.62	11478367.78	11478367.95	0.0133	0.0029
Mercury	26714-11-05 12:00 G	11478455.84	11478456.00	11478456.16	0.0133	0.0050
Mercury	26715-02-01 17:02 G	11478544.07	11478544.21	11478544.36	0.0133	0.0070
Mercury	26715-04-30 22:05 G	11478632.31	11478632.42	11478632.55	0.0133	0.0090
Mercury	26715-07-28 03:07 G	11478720.55	11478720.63	11478720.74	0.0133	0.0110
Mercury	26715-10-24 08:24 G	11478808.82	11478808.85	11478808.89	0.0133	0.0130
Mars	26720-09-22 16:05 G	11480603.89	11480604.17	11480604.46	0.0133	0.0020

Moon	26740-12-23 08:38 G	11488000.77	11488000.86	11488000.98	0.0140	0.0127
Earth	26740-12-23 12:14 G	11488000.94	11488001.01	11488001.12	0.0140	0.0131 *
Earth	26741-12-28 06:00 G	11488370.54	11488370.75	11488371.00	0.0141	0.0061
Moon	26741-12-28 09:21 G	11488370.69	11488370.89	11488371.13	0.0141	0.0068 *
Moon	26743-01-01 21:36 G	11488740.14	11488740.40	11488740.65	0.0141	0.0019
Earth	26743-01-02 01:12 G	11488740.30	11488740.55	11488740.80	0.0141	0.0011 *
Earth	26744-01-06 20:09 G	11489110.15	11489110.34	11489110.56	0.0141	0.0084
Moon	26744-01-06 23:31 G	11489110.28	11489110.48	11489110.69	0.0141	0.0079 *
Venus	26747-05-14 10:05 G	11490333.87	11490333.92	11490333.99	0.0143	0.0137
Venus	26747-12-26 20:53 G	11490560.23	11490560.37	11490560.54	0.0143	0.0098
Venus	26748-08-09 07:55 G	11490786.64	11490786.83	11490787.03	0.0143	0.0059
Venus	26749-03-23 18:57 G	11491013.08	11491013.29	11491013.51	0.0143	0.0020
Venus	26749-11-05 06:14 G	11491239.55	11491239.76	11491239.98	0.0144	0.0020
Venus	26750-06-19 17:31 G	11491466.04	11491466.23	11491466.43	0.0144	0.0059
Venus	26751-02-01 04:48 G	11491692.55	11491692.70	11491692.87	0.0144	0.0099
Venus	26751-09-15 16:19 G	11491919.13	11491919.18	11491919.24	0.0144	0.0138
Mercury	26755-02-25 15:21 G	11493178.11	11493178.14	11493178.19	0.0145	0.0138
Mercury	26755-05-24 19:55 G	11493266.25	11493266.33	11493266.41	0.0145	0.0116
Mercury	26755-08-21 00:14 G	11493354.40	11493354.51	11493354.62	0.0145	0.0094
Mercury	26755-11-17 04:33 G	11493442.57	11493442.69	11493442.82	0.0145	0.0072
Mercury	26756-02-13 09:07 G	11493530.75	11493530.88	11493531.02	0.0145	0.0050
Mercury	26756-05-11 13:41 G	11493618.93	11493619.07	11493619.21	0.0145	0.0027
Mercury	26756-08-07 18:14 G	11493707.11	11493707.26	11493707.41	0.0145	0.0004
Mercury	26756-11-03 22:48 G	11493795.31	11493795.45	11493795.60	0.0145	0.0019
Mercury	26757-01-31 03:21 G	11493883.50	11493883.64	11493883.78	0.0145	0.0042
Mercury	26757-04-29 07:55 G	11493971.71	11493971.83	11493971.97	0.0145	0.0065
Mercury	26757-07-26 12:43 G	11494059.92	11494060.03	11494060.15	0.0145	0.0088
Mercury	26757-10-22 17:17 G	11494148.14	11494148.22	11494148.32	0.0145	0.0113
Mercury	26758-01-18 22:05 G	11494236.38	11494236.42	11494236.48	0.0145	0.0136
Mars	26762-12-21 10:05 G	11496033.72	11496033.92	11496034.14	0.0145	0.0110

Moon	26781-06-26 23:02 G	11502796.25	11502796.46	11502796.69	0.0138	0.0068
Earth	26781-06-27 02:53 G	11502796.42	11502796.62	11502796.84	0.0138	0.0075 *
Earth	26782-07-01 16:19 G	11503165.93	11503166.18	11503166.44	0.0137	0.0008
Moon	26782-07-01 19:41 G	11503166.07	11503166.32	11503166.57	0.0137	0.0012 *
Moon	26783-07-06 01:26 G	11503535.33	11503535.56	11503535.80	0.0137	0.0059
Earth	26783-07-06 04:48 G	11503535.48	11503535.70	11503535.94	0.0137	0.0058 *
Earth	26784-07-09 16:33 G	11503905.11	11503905.19	11503905.32	0.0137	0.0124
Moon	26784-07-09 20:09 G	11503905.25	11503905.34	11503905.45	0.0137	0.0125 *
Venus	26787-08-31 03:07 G	11505052.55	11505052.63	11505052.73	0.0135	0.0122
Venus	26788-04-13 10:05 G	11505278.76	11505278.92	11505279.09	0.0135	0.0089
Venus	26788-11-25 16:33 G	11505505.00	11505505.19	11505505.40	0.0135	0.0056
Venus	26789-07-09 23:02 G	11505731.25	11505731.46	11505731.68	0.0135	0.0023
Venus	26790-02-21 05:31 G	11505957.51	11505957.73	11505957.95	0.0135	0.0010
Venus	26790-10-05 11:31 G	11506183.78	11506183.98	11506184.20	0.0134	0.0043
Venus	26791-05-19 18:00 G	11506410.07	11506410.25	11506410.43	0.0134	0.0075
Venus	26792-01-01 00:00 G	11506636.37	11506636.50	11506636.63	0.0134	0.0106
Mercury	26796-12-19 23:17 G	11508451.39	11508451.47	11508451.57	0.0133	0.0113
Mercury	26797-03-18 05:02 G	11508539.59	11508539.71	11508539.84	0.0133	0.0092
Mercury	26797-06-14 10:33 G	11508627.80	11508627.94	11508628.09	0.0133	0.0070
Mercury	26797-09-10 16:05 G	11508716.01	11508716.17	11508716.33	0.0133	0.0049
Mercury	26797-12-07 21:36 G	11508804.23	11508804.40	11508804.56	0.0133	0.0028
Mercury	26798-03-06 02:53 G	11508892.45	11508892.62	11508892.79	0.0133	0.0007
Mercury	26798-06-02 08:09 G	11508980.68	11508980.84	11508981.01	0.0133	0.0014
Mercury	26798-08-29 13:26 G	11509068.90	11509069.06	11509069.23	0.0133	0.0034
Mercury	26798-11-25 18:43 G	11509157.13	11509157.28	11509157.44	0.0133	0.0054
Mercury	26799-02-22 00:00 G	11509245.36	11509245.50	11509245.64	0.0133	0.0074
Mercury	26799-05-21 05:02 G	11509333.60	11509333.71	11509333.83	0.0133	0.0095
Mercury	26799-08-17 10:19 G	11509421.85	11509421.93	11509422.01	0.0133	0.0114
Mars	26805-05-17 20:53 G	11511522.11	11511522.37	11511522.64	0.0133	0.0053
Moon	26824-12-23 15:36 G	11518682.10	11518682.15	11518682.24	0.0140	0.0134

Earth	26824-12-23 19:12 G	11518682.23	11518682.30	11518682.41	0.0140	0.0130	*
Earth	26825-12-28 13:12 G	11519051.83	11519052.05	11519052.29	0.0141	0.0060	
Moon	26825-12-28 17:02 G	11519051.98	11519052.21	11519052.45	0.0141	0.0053	*
Moon	26827-01-02 04:33 G	11519421.44	11519421.69	11519421.95	0.0141	0.0006	
Earth	26827-01-02 07:55 G	11519421.58	11519421.83	11519422.09	0.0141	0.0013	*
Earth	26828-01-07 02:53 G	11519791.43	11519791.62	11519791.84	0.0141	0.0086	
Moon	26828-01-07 06:29 G	11519791.59	11519791.77	11519791.98	0.0141	0.0092	*
Venus	26831-08-26 01:55 G	11521118.46	11521118.58	11521118.71	0.0143	0.0116	
Venus	26832-04-08 12:29 G	11521344.85	11521345.02	11521345.21	0.0143	0.0078	
Venus	26832-11-20 23:45 G	11521571.28	11521571.49	11521571.70	0.0143	0.0039	
Venus	26833-07-05 10:48 G	11521797.74	11521797.95	11521798.17	0.0143	0.0003	
Venus	26834-02-16 21:50 G	11522024.21	11522024.41	11522024.63	0.0144	0.0040	
Venus	26834-10-01 09:21 G	11522250.71	11522250.89	11522251.07	0.0144	0.0079	
Venus	26835-05-15 20:24 G	11522477.24	11522477.35	11522477.48	0.0144	0.0119	
Mercury	26839-03-17 21:50 G	11523879.37	11523879.41	11523879.47	0.0145	0.0136	
Mercury	26839-06-14 02:09 G	11523967.52	11523967.59	11523967.69	0.0145	0.0114	
Mercury	26839-09-10 06:43 G	11524055.68	11524055.78	11524055.90	0.0145	0.0092	
Mercury	26839-12-07 11:02 G	11524143.84	11524143.96	11524144.10	0.0145	0.0070	
Mercury	26840-03-04 15:50 G	11524232.02	11524232.16	11524232.29	0.0145	0.0047	
Mercury	26840-05-31 20:09 G	11524320.20	11524320.34	11524320.49	0.0145	0.0025	
Mercury	26840-08-28 00:43 G	11524408.39	11524408.53	11524408.68	0.0145	0.0005	
Mercury	26840-11-24 05:17 G	11524496.58	11524496.72	11524496.87	0.0145	0.0022	
Mercury	26841-02-20 09:50 G	11524584.78	11524584.91	11524585.06	0.0145	0.0045	
Mercury	26841-05-19 14:38 G	11524672.98	11524673.11	11524673.24	0.0145	0.0068	
Mercury	26841-08-15 19:26 G	11524761.20	11524761.31	11524761.42	0.0145	0.0091	
Mercury	26841-11-12 00:00 G	11524849.42	11524849.50	11524849.59	0.0145	0.0115	
Mercury	26842-02-08 04:33 G	11524937.67	11524937.69	11524937.75	0.0145	0.0139	
Mars	26845-09-10 00:29 G	11526247.25	11526247.52	11526247.82	0.0145	0.0074	
Moon	26864-06-23 00:57 G	11533108.48	11533108.54	11533108.61	0.0138	0.0134	
Moon	26865-06-27 07:55 G	11533477.63	11533477.83	11533478.05	0.0138	0.0080	

Earth	26865-06-27 11:31 G	11533477.77	11533477.98	11533478.20	0.0138	0.0073	*
Earth	26866-07-02 00:57 G	11533847.28	11533847.54	11533847.79	0.0138	0.0006	
Moon	26866-07-02 04:33 G	11533847.44	11533847.69	11533847.95	0.0138	0.0002	*
Moon	26867-07-06 10:19 G	11534216.70	11534216.93	11534217.16	0.0137	0.0058	
Earth	26867-07-06 13:41 G	11534216.85	11534217.07	11534217.30	0.0137	0.0060	*
Earth	26868-07-10 01:26 G	11534586.48	11534586.56	11534586.68	0.0137	0.0126	
Moon	26868-07-10 05:02 G	11534586.62	11534586.71	11534586.83	0.0137	0.0124	*
Venus	26871-12-12 18:14 G	11535837.13	11535837.26	11535837.41	0.0135	0.0103	
Venus	26872-07-26 00:57 G	11536063.36	11536063.54	11536063.74	0.0135	0.0070	
Venus	26873-03-09 07:41 G	11536289.61	11536289.82	11536290.03	0.0135	0.0037	
Venus	26873-10-21 14:09 G	11536515.87	11536516.09	11536516.31	0.0135	0.0004	
Venus	26874-06-04 20:38 G	11536742.15	11536742.36	11536742.57	0.0135	0.0028	
Venus	26875-01-17 02:38 G	11536968.42	11536968.61	11536968.81	0.0134	0.0061	
Venus	26875-08-31 08:38 G	11537194.71	11537194.86	11537195.03	0.0134	0.0092	
Venus	26876-04-13 14:24 G	11537421.04	11537421.10	11537421.20	0.0134	0.0124	
Mercury	26880-10-13 00:29 G	11539064.50	11539064.52	11539064.56	0.0133	0.0131	
Mercury	26881-01-09 06:14 G	11539152.66	11539152.76	11539152.86	0.0133	0.0109	
Mercury	26881-04-07 11:45 G	11539240.86	11539240.99	11539241.12	0.0133	0.0087	
Mercury	26881-07-04 17:17 G	11539329.07	11539329.22	11539329.37	0.0133	0.0066	
Mercury	26881-09-30 22:48 G	11539417.29	11539417.45	11539417.61	0.0133	0.0045	
Mercury	26881-12-28 04:05 G	11539505.51	11539505.67	11539505.85	0.0133	0.0025	
Mercury	26882-03-26 09:36 G	11539593.73	11539593.90	11539594.07	0.0133	0.0004	
Mercury	26882-06-22 14:53 G	11539681.96	11539682.12	11539682.29	0.0133	0.0018	
Mercury	26882-09-18 20:09 G	11539770.18	11539770.34	11539770.51	0.0133	0.0038	
Mercury	26882-12-16 01:41 G	11539858.41	11539858.57	11539858.72	0.0133	0.0059	
Mercury	26883-03-14 06:29 G	11539946.65	11539946.77	11539946.92	0.0133	0.0079	
Mercury	26883-06-10 11:45 G	11540034.89	11540034.99	11540035.11	0.0133	0.0099	
Mercury	26883-09-06 16:48 G	11540123.14	11540123.20	11540123.29	0.0133	0.0119	
Mars	26888-02-10 12:43 G	11541740.80	11541741.03	11541741.30	0.0133	0.0067	
Mars	26890-01-09 22:48 G	11542440.38	11542440.45	11542440.57	0.0133	0.0126	

Moon	26908-12-25 00:14 G	11549363.43	11549363.51	11549363.64	0.0140	0.0126
Earth	26908-12-25 03:36 G	11549363.57	11549363.65	11549363.78	0.0140	0.0128 *
Earth	26909-12-29 21:50 G	11549733.18	11549733.41	11549733.64	0.0140	0.0057
Moon	26909-12-30 00:57 G	11549733.32	11549733.54	11549733.78	0.0140	0.0063 *
Moon	26911-01-03 12:43 G	11550102.78	11550103.03	11550103.28	0.0141	0.0023
Earth	26911-01-03 16:33 G	11550102.94	11550103.19	11550103.44	0.0141	0.0015 *
Earth	26912-01-08 11:45 G	11550472.79	11550472.99	11550473.19	0.0141	0.0088
Moon	26912-01-08 14:53 G	11550472.93	11550473.12	11550473.35	0.0141	0.0082 *
Venus	26915-04-26 07:41 G	11551676.76	11551676.82	11551676.91	0.0143	0.0134
Venus	26915-12-08 18:43 G	11551903.12	11551903.28	11551903.44	0.0143	0.0095
Venus	26916-07-22 05:17 G	11552129.53	11552129.72	11552129.93	0.0143	0.0057
Venus	26917-03-05 16:33 G	11552355.97	11552356.19	11552356.40	0.0143	0.0018
Venus	26917-10-18 03:36 G	11552582.44	11552582.65	11552582.87	0.0144	0.0022
Venus	26918-06-01 14:38 G	11552808.92	11552809.11	11552809.31	0.0144	0.0061
Venus	26919-01-14 01:55 G	11553035.43	11553035.58	11553035.74	0.0144	0.0101
Venus	26919-08-28 12:57 G	11553262.01	11553262.04	11553262.11	0.0144	0.0140
Mercury	26923-04-08 04:48 G	11554580.65	11554580.70	11554580.76	0.0145	0.0132
Mercury	26923-07-05 09:07 G	11554668.80	11554668.88	11554668.98	0.0145	0.0110
Mercury	26923-10-01 13:41 G	11554756.96	11554757.07	11554757.19	0.0145	0.0088
Mercury	26923-12-28 18:14 G	11554845.13	11554845.26	11554845.39	0.0145	0.0065
Mercury	26924-03-25 22:33 G	11554933.31	11554933.44	11554933.58	0.0145	0.0043
Mercury	26924-06-22 03:07 G	11555021.49	11555021.63	11555021.78	0.0145	0.0020
Mercury	26924-09-18 07:41 G	11555109.68	11555109.82	11555109.97	0.0145	0.0003
Mercury	26924-12-15 12:14 G	11555197.87	11555198.01	11555198.16	0.0145	0.0026
Mercury	26925-03-13 16:48 G	11555286.07	11555286.20	11555286.34	0.0145	0.0049
Mercury	26925-06-09 21:36 G	11555374.27	11555374.40	11555374.53	0.0145	0.0072
Mercury	26925-09-06 02:09 G	11555462.49	11555462.59	11555462.71	0.0145	0.0096
Mercury	26925-12-03 06:57 G	11555550.71	11555550.79	11555550.88	0.0145	0.0119
Mercury	26926-03-01 11:45 G	11555638.97	11555638.99	11555639.02	0.0145	0.0143
Mars	26930-05-08 04:05 G	11557167.36	11557167.67	11557168.00	0.0145	0.0033

Moon	26949-06-28 16:33 G	11564158.98	11564159.19	11564159.42	0.0138	0.0064
Earth	26949-06-28 20:24 G	11564159.14	11564159.35	11564159.57	0.0138	0.0071 *
Earth	26950-07-03 09:50 G	11564528.66	11564528.91	11564529.16	0.0138	0.0004
Moon	26950-07-03 13:12 G	11564528.80	11564529.05	11564529.31	0.0138	0.0009 *
Moon	26951-07-07 18:57 G	11564898.07	11564898.29	11564898.51	0.0137	0.0066
Earth	26951-07-07 22:19 G	11564898.22	11564898.43	11564898.67	0.0137	0.0063 *
Earth	26952-07-11 10:48 G	11565267.87	11565267.95	11565268.04	0.0137	0.0128
Moon	26952-07-11 14:24 G	11565268.02	11565268.10	11565268.19	0.0137	0.0128 *
Venus	26955-08-13 03:07 G	11566395.52	11566395.63	11566395.74	0.0136	0.0117
Venus	26956-03-26 09:36 G	11566621.74	11566621.90	11566622.08	0.0135	0.0084
Venus	26956-11-07 16:19 G	11566847.99	11566848.18	11566848.39	0.0135	0.0051
Venus	26957-06-21 23:02 G	11567074.25	11567074.46	11567074.68	0.0135	0.0019
Venus	26958-02-03 05:31 G	11567300.51	11567300.73	11567300.95	0.0135	0.0014
Venus	26958-09-17 11:31 G	11567526.79	11567526.98	11567527.19	0.0135	0.0047
Venus	26959-05-01 17:45 G	11567753.07	11567753.24	11567753.42	0.0134	0.0079
Venus	26959-12-13 23:45 G	11567979.38	11567979.49	11567979.62	0.0134	0.0111
Mercury	26964-11-03 07:26 G	11569765.76	11569765.81	11569765.87	0.0133	0.0125
Mercury	26965-01-30 13:12 G	11569853.94	11569854.05	11569854.16	0.0133	0.0104
Mercury	26965-04-28 18:29 G	11569942.15	11569942.27	11569942.42	0.0133	0.0083
Mercury	26965-07-26 00:00 G	11570030.36	11570030.50	11570030.66	0.0133	0.0062
Mercury	26965-10-22 05:31 G	11570118.58	11570118.73	11570118.90	0.0133	0.0041
Mercury	26966-01-18 11:02 G	11570206.80	11570206.96	11570207.14	0.0133	0.0020
Mercury	26966-04-16 16:33 G	11570295.02	11570295.19	11570295.36	0.0133	0.0002
Mercury	26966-07-13 21:50 G	11570383.25	11570383.41	11570383.58	0.0133	0.0023
Mercury	26966-10-10 03:07 G	11570471.48	11570471.63	11570471.80	0.0133	0.0044
Mercury	26967-01-06 08:24 G	11570559.71	11570559.85	11570560.00	0.0133	0.0064
Mercury	26967-04-04 13:26 G	11570647.94	11570648.06	11570648.20	0.0133	0.0085
Mercury	26967-07-01 18:43 G	11570736.19	11570736.28	11570736.39	0.0133	0.0104
Mercury	26967-09-27 23:45 G	11570824.45	11570824.49	11570824.56	0.0133	0.0124
Mars	26972-10-05 18:29 G	11572658.98	11572659.27	11572659.56	0.0133	0.0008

Moon	26992-12-25 11:02 G	11580044.87	11580044.96	11580045.08	0.0140	0.0127
Earth	26992-12-25 14:24 G	11580044.99	11580045.10	11580045.22	0.0140	0.0124 *
Earth	26993-12-30 08:09 G	11580414.61	11580414.84	11580415.08	0.0140	0.0054
Moon	26993-12-30 11:45 G	11580414.75	11580414.99	11580415.24	0.0140	0.0048 *
Moon	26995-01-03 23:45 G	11580784.25	11580784.49	11580784.75	0.0141	0.0012
Earth	26995-01-04 03:07 G	11580784.38	11580784.63	11580784.89	0.0141	0.0019 *
Earth	26996-01-08 22:05 G	11581154.24	11581154.42	11581154.63	0.0141	0.0091
Moon	26996-01-09 01:55 G	11581154.41	11581154.58	11581154.77	0.0141	0.0098 *
Venus	26999-08-08 01:55 G	11582461.45	11582461.58	11582461.72	0.0143	0.0111
Venus	27000-03-22 12:29 G	11582687.85	11582688.02	11582688.22	0.0143	0.0073
Venus	27000-11-03 23:31 G	11582914.28	11582914.48	11582914.70	0.0143	0.0035

28TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 28th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	27001-06-18 10:48 G	11583140.73	11583140.95	11583141.16	0.0144	0.0006		
Venus	27002-01-30 21:36 G	11583367.20	11583367.40	11583367.61	0.0144	0.0044		
Venus	27002-09-14 08:53 G	11583593.69	11583593.87	11583594.05	0.0144	0.0083		
Venus	27003-04-28 20:09 G	11583820.23	11583820.34	11583820.45	0.0144	0.0123		
Mercury	27007-04-29 12:14 G	11585281.95	11585282.01	11585282.08	0.0145	0.0126		
Mercury	27007-07-26 16:33 G	11585370.10	11585370.19	11585370.29	0.0145	0.0104		
Mercury	27007-10-22 20:53 G	11585458.26	11585458.37	11585458.50	0.0145	0.0082		
Mercury	27008-01-19 01:26 G	11585546.43	11585546.56	11585546.69	0.0145	0.0060		

Mercury	27008-04-16 06:00 G	11585634.61	11585634.75	11585634.89	0.0145	0.0037
Mercury	27008-07-13 10:33 G	11585722.79	11585722.94	11585723.08	0.0145	0.0014
Mercury	27008-10-09 15:07 G	11585810.98	11585811.13	11585811.27	0.0145	0.0009
Mercury	27009-01-05 19:41 G	11585899.18	11585899.32	11585899.46	0.0145	0.0032
Mercury	27009-04-04 00:14 G	11585987.38	11585987.51	11585987.65	0.0145	0.0055
Mercury	27009-07-01 05:02 G	11586075.58	11586075.71	11586075.83	0.0145	0.0078
Mercury	27009-09-27 09:36 G	11586163.80	11586163.90	11586164.01	0.0145	0.0102
Mercury	27009-12-24 14:24 G	11586252.03	11586252.10	11586252.17	0.0145	0.0126
Mars	27015-01-03 11:31 G	11588087.95	11588087.98	11588088.05	0.0145	0.0143
Earth	27032-06-25 15:50 G	11594471.14	11594471.16	11594471.21	0.0138	0.0137
Moon	27032-06-25 18:57 G	11594471.22	11594471.29	11594471.39	0.0138	0.0130
Moon	27033-06-30 03:07 G	11594840.42	11594840.63	11594840.84	0.0138	0.0075
Earth	27033-06-30 06:14 G	11594840.55	11594840.76	11594840.99	0.0138	0.0068 *
Earth	27034-07-04 19:41 G	11595210.07	11595210.32	11595210.57	0.0137	0.0001
Moon	27034-07-04 23:17 G	11595210.22	11595210.47	11595210.73	0.0137	0.0006 *
Moon	27035-07-09 05:02 G	11595579.50	11595579.71	11595579.95	0.0137	0.0062
Earth	27035-07-09 08:24 G	11595579.64	11595579.85	11595580.09	0.0137	0.0066 *
Earth	27036-07-12 20:53 G	11595949.31	11595949.37	11595949.45	0.0137	0.0131
Moon	27036-07-13 00:14 G	11595949.46	11595949.51	11595949.61	0.0137	0.0131
Venus	27039-04-13 11:45 G	11596953.95	11596953.99	11596954.06	0.0136	0.0131
Venus	27039-11-25 18:43 G	11597180.14	11597180.28	11597180.44	0.0135	0.0098
Venus	27040-07-09 01:41 G	11597406.38	11597406.57	11597406.76	0.0135	0.0065
Venus	27041-02-20 08:09 G	11597632.63	11597632.84	11597633.06	0.0135	0.0032
Venus	27041-10-04 14:38 G	11597858.89	11597859.11	11597859.33	0.0135	0.0001
Venus	27042-05-18 21:07 G	11598085.17	11598085.38	11598085.59	0.0135	0.0033
Venus	27042-12-31 02:53 G	11598311.45	11598311.62	11598311.83	0.0135	0.0066
Venus	27043-08-14 09:07 G	11598537.74	11598537.88	11598538.04	0.0134	0.0097
Venus	27044-03-27 14:53 G	11598764.07	11598764.12	11598764.19	0.0134	0.0128
Mercury	27048-11-24 14:09 G	11600467.03	11600467.09	11600467.18	0.0133	0.0121
Mercury	27049-02-20 20:09 G	11600555.22	11600555.34	11600555.45	0.0133	0.0099

Mercury	27049-05-20 01:26 G	11600643.43	11600643.56	11600643.71	0.0133	0.0078
Mercury	27049-08-16 06:57 G	11600731.65	11600731.79	11600731.96	0.0133	0.0057
Mercury	27049-11-12 12:43 G	11600819.86	11600820.03	11600820.20	0.0133	0.0035
Mercury	27050-02-08 18:00 G	11600908.09	11600908.25	11600908.43	0.0133	0.0015
Mercury	27050-05-07 23:31 G	11600996.31	11600996.48	11600996.65	0.0133	0.0007
Mercury	27050-08-04 04:48 G	11601084.54	11601084.70	11601084.87	0.0133	0.0028
Mercury	27050-10-31 10:05 G	11601172.77	11601172.92	11601173.08	0.0133	0.0049
Mercury	27051-01-27 15:21 G	11601261.00	11601261.14	11601261.29	0.0133	0.0069
Mercury	27051-04-25 20:24 G	11601349.24	11601349.35	11601349.49	0.0133	0.0090
Mercury	27051-07-23 01:41 G	11601437.49	11601437.57	11601437.67	0.0133	0.0109
Mercury	27051-10-19 06:43 G	11601525.76	11601525.78	11601525.83	0.0133	0.0129
Mars	27055-07-02 10:05 G	11602877.79	11602877.92	11602878.10	0.0133	0.0113
Mars	27057-05-31 21:50 G	11603577.21	11603577.41	11603577.66	0.0133	0.0083
Moon	27076-12-26 21:50 G	11610726.30	11610726.41	11610726.54	0.0140	0.0121
Earth	27076-12-27 00:00 G	11610726.40	11610726.50	11610726.65	0.0140	0.0122 *
Earth	27077-12-31 18:29 G	11611096.04	11611096.27	11611096.52	0.0140	0.0051
Moon	27077-12-31 21:21 G	11611096.16	11611096.39	11611096.64	0.0140	0.0056 *
Moon	27079-01-05 10:19 G	11611465.68	11611465.93	11611466.17	0.0141	0.0029
Earth	27079-01-05 13:26 G	11611465.82	11611466.06	11611466.32	0.0141	0.0022 *
Earth	27080-01-10 08:38 G	11611835.69	11611835.86	11611836.07	0.0141	0.0096
Moon	27080-01-10 12:14 G	11611835.82	11611836.01	11611836.22	0.0141	0.0088 *
Venus	27083-04-08 09:21 G	11613019.80	11613019.89	11613020.00	0.0143	0.0127
Venus	27083-11-20 20:09 G	11613246.18	11613246.34	11613246.52	0.0143	0.0089
Venus	27084-07-04 06:57 G	11613472.59	11613472.79	11613473.00	0.0143	0.0051
Venus	27085-02-15 18:00 G	11613699.03	11613699.25	11613699.47	0.0143	0.0012
Venus	27085-09-30 04:48 G	11613925.50	11613925.70	11613925.92	0.0144	0.0028
Venus	27086-05-14 15:50 G	11614151.98	11614152.16	11614152.37	0.0144	0.0067
Venus	27086-12-27 03:21 G	11614378.50	11614378.64	11614378.79	0.0144	0.0106
Mercury	27091-02-20 15:21 G	11615895.12	11615895.14	11615895.18	0.0145	0.0141
Mercury	27091-05-19 19:41 G	11615983.25	11615983.32	11615983.41	0.0145	0.0119

Mercury	27091-08-16 00:14 G	11616071.41	11616071.51	11616071.62	0.0145	0.0097
Mercury	27091-11-12 04:33 G	11616159.58	11616159.69	11616159.82	0.0145	0.0075
Mercury	27092-02-08 09:07 G	11616247.75	11616247.88	11616248.02	0.0145	0.0052
Mercury	27092-05-06 13:41 G	11616335.93	11616336.07	11616336.21	0.0145	0.0030
Mercury	27092-08-02 18:14 G	11616424.11	11616424.26	11616424.40	0.0145	0.0007
Mercury	27092-10-29 22:48 G	11616512.30	11616512.45	11616512.59	0.0145	0.0016
Mercury	27093-01-26 03:21 G	11616600.50	11616600.64	11616600.78	0.0145	0.0039
Mercury	27093-04-24 07:55 G	11616688.70	11616688.83	11616688.96	0.0145	0.0063
Mercury	27093-07-21 12:29 G	11616776.91	11616777.02	11616777.15	0.0145	0.0086
Mercury	27093-10-17 17:02 G	11616865.13	11616865.21	11616865.32	0.0145	0.0111
Mercury	27094-01-13 22:05 G	11616953.37	11616953.42	11616953.48	0.0145	0.0133
Mars	27097-09-23 15:21 G	11618301.83	11618302.14	11618302.47	0.0145	0.0036
Earth	27116-06-27 03:36 G	11625152.58	11625152.65	11625152.72	0.0138	0.0133
Moon	27117-07-01 14:24 G	11625521.89	11625522.10	11625522.34	0.0138	0.0058
Earth	27117-07-01 17:31 G	11625522.01	11625522.23	11625522.46	0.0138	0.0065 *
Earth	27118-07-06 07:12 G	11625891.54	11625891.80	11625892.05	0.0137	0.0003
Moon	27118-07-06 10:05 G	11625891.67	11625891.92	11625892.18	0.0137	0.0005 *
Moon	27119-07-10 16:33 G	11626260.98	11626261.19	11626261.40	0.0137	0.0073
Earth	27119-07-10 19:55 G	11626261.12	11626261.33	11626261.56	0.0137	0.0069 *
Earth	27120-07-14 08:09 G	11626630.81	11626630.84	11626630.89	0.0137	0.0135
Moon	27120-07-14 11:17 G	11626630.94	11626630.97	11626631.04	0.0137	0.0134
Venus	27123-07-27 04:19 G	11627738.57	11627738.68	11627738.82	0.0135	0.0111
Venus	27124-03-09 11:17 G	11627964.80	11627964.97	11627965.15	0.0135	0.0078
Venus	27124-10-21 17:45 G	11628191.04	11628191.24	11628191.46	0.0135	0.0045
Venus	27125-06-05 00:29 G	11628417.31	11628417.52	11628417.74	0.0135	0.0013
Venus	27126-01-17 06:57 G	11628643.57	11628643.79	11628644.00	0.0135	0.0020
Venus	27126-08-31 12:57 G	11628869.84	11628870.04	11628870.25	0.0135	0.0052
Venus	27127-04-14 19:12 G	11629096.13	11629096.30	11629096.47	0.0134	0.0084
Venus	27127-11-27 00:43 G	11629322.44	11629322.53	11629322.66	0.0134	0.0116
Mercury	27132-12-15 21:21 G	11631168.32	11631168.39	11631168.49	0.0133	0.0115

Mercury	27133-03-14 03:07 G	11631256.52	11631256.63	11631256.76	0.0133	0.0093
Mercury	27133-06-10 08:38 G	11631344.73	11631344.86	11631345.02	0.0133	0.0072
Mercury	27133-09-06 14:24 G	11631432.94	11631433.10	11631433.26	0.0133	0.0050
Mercury	27133-12-03 19:55 G	11631521.16	11631521.33	11631521.50	0.0133	0.0029
Mercury	27134-03-02 01:26 G	11631609.39	11631609.56	11631609.73	0.0133	0.0008
Mercury	27134-05-29 06:43 G	11631697.61	11631697.78	11631697.95	0.0133	0.0013
Mercury	27134-08-25 12:00 G	11631785.84	11631786.00	11631786.17	0.0133	0.0034
Mercury	27134-11-21 17:31 G	11631874.07	11631874.23	11631874.38	0.0133	0.0055
Mercury	27135-02-17 22:33 G	11631962.31	11631962.44	11631962.59	0.0133	0.0075
Mercury	27135-05-17 03:50 G	11632050.55	11632050.66	11632050.78	0.0133	0.0095
Mercury	27135-08-13 08:53 G	11632138.80	11632138.87	11632138.96	0.0133	0.0115
Mars	27140-02-25 16:19 G	11633795.90	11633796.18	11633796.46	0.0133	0.0037
Moon	27160-12-28 08:09 G	11641407.74	11641407.84	11641407.99	0.0140	0.0120
Earth	27160-12-28 10:48 G	11641407.82	11641407.95	11641408.09	0.0140	0.0118 *
Earth	27162-01-02 04:48 G	11641777.48	11641777.70	11641777.95	0.0140	0.0048
Moon	27162-01-02 07:41 G	11641777.58	11641777.82	11641778.07	0.0140	0.0043 *
Moon	27163-01-06 21:36 G	11642147.16	11642147.40	11642147.65	0.0141	0.0019
Earth	27163-01-07 00:14 G	11642147.26	11642147.51	11642147.76	0.0141	0.0025 *
Earth	27164-01-11 19:12 G	11642517.13	11642517.30	11642517.50	0.0141	0.0099
Moon	27164-01-11 22:48 G	11642517.29	11642517.45	11642517.63	0.0141	0.0106 *
Venus	27166-12-07 16:48 G	11643578.20	11643578.20	11643578.22	0.0143	0.0142
Venus	27167-07-22 03:07 G	11643804.50	11643804.63	11643804.79	0.0143	0.0105
Venus	27168-03-04 14:09 G	11644030.90	11644031.09	11644031.29	0.0143	0.0067
Venus	27168-10-17 00:57 G	11644257.33	11644257.54	11644257.76	0.0143	0.0028
Venus	27169-05-31 12:00 G	11644483.79	11644484.00	11644484.22	0.0144	0.0011
Venus	27170-01-12 23:17 G	11644710.27	11644710.47	11644710.67	0.0144	0.0050
Venus	27170-08-27 10:19 G	11644936.77	11644936.93	11644937.11	0.0144	0.0089
Venus	27171-04-10 21:36 G	11645163.31	11645163.40	11645163.51	0.0144	0.0129
Mercury	27175-03-13 23:02 G	11646596.41	11646596.46	11646596.52	0.0145	0.0134
Mercury	27175-06-10 03:21 G	11646684.56	11646684.64	11646684.74	0.0145	0.0112

Mercury	27175-09-06 07:41 G	11646772.72	11646772.82	11646772.94	0.0145	0.0090
Mercury	27175-12-03 12:14 G	11646860.89	11646861.01	11646861.14	0.0145	0.0068
Mercury	27176-02-29 16:48 G	11646949.06	11646949.20	11646949.34	0.0145	0.0045
Mercury	27176-05-27 21:07 G	11647037.24	11647037.38	11647037.53	0.0145	0.0023
Mercury	27176-08-24 01:55 G	11647125.43	11647125.58	11647125.72	0.0145	0.0004
Mercury	27176-11-20 06:14 G	11647213.62	11647213.76	11647213.91	0.0145	0.0024
Mercury	27177-02-16 10:48 G	11647301.82	11647301.95	11647302.10	0.0145	0.0047
Mercury	27177-05-15 15:36 G	11647390.02	11647390.15	11647390.28	0.0145	0.0070
Mercury	27177-08-11 20:09 G	11647478.23	11647478.34	11647478.46	0.0145	0.0094
Mercury	27177-11-08 00:57 G	11647566.46	11647566.54	11647566.63	0.0145	0.0117
Mercury	27178-02-04 05:31 G	11647654.71	11647654.73	11647654.77	0.0145	0.0141
Mars	27182-05-22 02:09 G	11649222.32	11649222.59	11649222.88	0.0145	0.0077
Earth	27200-06-27 15:21 G	11655834.06	11655834.14	11655834.24	0.0138	0.0129
Moon	27200-06-27 17:45 G	11655834.12	11655834.24	11655834.36	0.0138	0.0123 *
Moon	27201-07-02 02:38 G	11656203.41	11656203.61	11656203.84	0.0138	0.0068
Earth	27201-07-02 05:17 G	11656203.51	11656203.72	11656203.96	0.0138	0.0061 *
Earth	27202-07-06 18:57 G	11656573.04	11656573.29	11656573.54	0.0137	0.0007
Moon	27202-07-06 21:50 G	11656573.16	11656573.41	11656573.67	0.0137	0.0014 *
Moon	27203-07-11 05:02 G	11656942.51	11656942.71	11656942.93	0.0137	0.0069
Earth	27203-07-11 07:41 G	11656942.62	11656942.82	11656943.05	0.0137	0.0074 *
Venus	27207-03-26 14:09 G	11658297.02	11658297.09	11658297.19	0.0136	0.0124
Venus	27207-11-07 21:07 G	11658523.23	11658523.38	11658523.55	0.0135	0.0091
Venus	27208-06-21 03:50 G	11658749.47	11658749.66	11658749.86	0.0135	0.0058
Venus	27209-02-02 10:19 G	11658975.72	11658975.93	11658976.15	0.0135	0.0026
Venus	27209-09-16 16:48 G	11659201.98	11659202.20	11659202.42	0.0135	0.0007
Venus	27210-04-30 23:02 G	11659428.25	11659428.46	11659428.67	0.0135	0.0039
Venus	27210-12-13 05:02 G	11659654.53	11659654.71	11659654.90	0.0134	0.0071
Venus	27211-07-27 10:48 G	11659880.82	11659880.95	11659881.10	0.0134	0.0103
Venus	27212-03-09 16:48 G	11660107.19	11660107.20	11660107.22	0.0134	0.0134
Mercury	27216-10-08 23:17 G	11661781.43	11661781.47	11661781.50	0.0133	0.0130

Mercury	27217-01-05 04:33 G	11661869.60	11661869.69	11661869.80	0.0133	0.0109
Mercury	27217-04-03 10:33 G	11661957.81	11661957.94	11661958.07	0.0133	0.0087
Mercury	27217-06-30 15:50 G	11662046.02	11662046.16	11662046.32	0.0133	0.0065
Mercury	27217-09-26 21:21 G	11662134.24	11662134.39	11662134.56	0.0133	0.0044
Mercury	27217-12-24 02:53 G	11662222.46	11662222.62	11662222.80	0.0133	0.0024
Mercury	27218-03-22 08:24 G	11662310.68	11662310.85	11662311.03	0.0133	0.0004
Mercury	27218-06-18 13:55 G	11662398.91	11662399.08	11662399.25	0.0133	0.0019
Mercury	27218-09-14 19:12 G	11662487.14	11662487.30	11662487.46	0.0133	0.0040
Mercury	27218-12-12 00:29 G	11662575.37	11662575.52	11662575.68	0.0133	0.0060
Mercury	27219-03-10 05:45 G	11662663.61	11662663.74	11662663.88	0.0133	0.0081
Mercury	27219-06-06 10:48 G	11662751.85	11662751.95	11662752.07	0.0133	0.0101
Mercury	27219-09-02 16:19 G	11662840.11	11662840.18	11662840.25	0.0133	0.0121
Mars	27224-10-19 20:53 G	11664714.09	11664714.37	11664714.65	0.0133	0.0038
Moon	27244-12-28 17:31 G	11672089.11	11672089.23	11672089.38	0.0140	0.0118
Earth	27244-12-28 18:43 G	11672089.16	11672089.28	11672089.44	0.0140	0.0117 *
Earth	27246-01-02 13:12 G	11672458.82	11672459.05	11672459.30	0.0141	0.0046
Moon	27246-01-02 15:07 G	11672458.89	11672459.13	11672459.38	0.0141	0.0049 *
Moon	27247-01-07 06:00 G	11672828.51	11672828.75	11672828.99	0.0141	0.0034
Earth	27247-01-07 08:24 G	11672828.60	11672828.85	11672829.10	0.0141	0.0027 *
Earth	27248-01-12 03:36 G	11673198.49	11673198.65	11673198.84	0.0141	0.0101
Moon	27248-01-12 06:00 G	11673198.57	11673198.75	11673198.96	0.0141	0.0094 *
Venus	27251-03-21 09:07 G	11674362.78	11674362.88	11674363.01	0.0143	0.0122
Venus	27251-11-02 19:55 G	11674589.17	11674589.33	11674589.52	0.0143	0.0084
Venus	27252-06-16 06:57 G	11674815.59	11674815.79	11674816.00	0.0143	0.0046
Venus	27253-01-28 18:00 G	11675042.03	11675042.25	11675042.46	0.0144	0.0007
Venus	27253-09-12 05:02 G	11675268.49	11675268.71	11675268.92	0.0144	0.0032
Venus	27254-04-26 16:05 G	11675494.99	11675495.17	11675495.36	0.0144	0.0071
Venus	27254-12-09 03:36 G	11675721.52	11675721.65	11675721.79	0.0144	0.0110
Mercury	27259-04-03 06:14 G	11677297.70	11677297.76	11677297.83	0.0145	0.0129
Mercury	27259-06-30 10:33 G	11677385.85	11677385.94	11677386.04	0.0145	0.0107

Mercury	27259-09-26 15:07 G	11677474.02	11677474.13	11677474.25	0.0145	0.0084
Mercury	27259-12-23 19:26 G	11677562.19	11677562.31	11677562.45	0.0145	0.0062
Mercury	27260-03-21 00:00 G	11677650.36	11677650.50	11677650.64	0.0145	0.0040
Mercury	27260-06-17 04:33 G	11677738.55	11677738.69	11677738.83	0.0145	0.0017
Mercury	27260-09-13 09:07 G	11677826.73	11677826.88	11677827.02	0.0145	0.0006
Mercury	27260-12-10 13:41 G	11677914.93	11677915.07	11677915.21	0.0145	0.0029
Mercury	27261-03-08 18:14 G	11678003.13	11678003.26	11678003.40	0.0145	0.0052
Mercury	27261-06-04 22:48 G	11678091.33	11678091.45	11678091.58	0.0145	0.0076
Mercury	27261-09-01 03:36 G	11678179.54	11678179.65	11678179.76	0.0145	0.0099
Mercury	27261-11-28 08:09 G	11678267.77	11678267.84	11678267.92	0.0145	0.0123
Mars	27265-02-09 05:45 G	11679436.52	11679436.74	11679436.97	0.0145	0.0105
Earth	27284-06-28 03:36 G	11686515.55	11686515.65	11686515.76	0.0138	0.0125
Moon	27284-06-28 05:02 G	11686515.65	11686515.71	11686515.83	0.0138	0.0131 *
Moon	27285-07-02 15:21 G	11686884.93	11686885.14	11686885.39	0.0138	0.0050
Earth	27285-07-02 17:31 G	11686885.01	11686885.23	11686885.47	0.0138	0.0057 *
Earth	27286-07-07 07:12 G	11687254.55	11687254.80	11687255.06	0.0137	0.0011
Moon	27286-07-07 09:36 G	11687254.64	11687254.90	11687255.16	0.0137	0.0005 *
Moon	27287-07-11 17:02 G	11687624.03	11687624.21	11687624.43	0.0137	0.0083
Earth	27287-07-11 19:55 G	11687624.14	11687624.33	11687624.55	0.0137	0.0078 *
Venus	27291-07-08 06:57 G	11689081.67	11689081.79	11689081.95	0.0135	0.0104
Venus	27292-02-19 13:55 G	11689307.90	11689308.08	11689308.27	0.0135	0.0071
Venus	27292-10-02 20:24 G	11689534.15	11689534.35	11689534.56	0.0135	0.0038
Venus	27293-05-17 02:53 G	11689760.41	11689760.62	11689760.84	0.0135	0.0007
Venus	27293-12-29 09:07 G	11689986.67	11689986.88	11689987.10	0.0135	0.0026
Venus	27294-08-12 15:07 G	11690212.94	11690213.13	11690213.34	0.0134	0.0058
Venus	27295-03-26 21:21 G	11690439.23	11690439.39	11690439.55	0.0134	0.0090
Venus	27295-11-08 02:53 G	11690665.54	11690665.62	11690665.73	0.0134	0.0121
Mercury	27300-10-30 06:14 G	11692482.71	11692482.76	11692482.84	0.0133	0.0123
Mercury	27301-01-26 12:00 G	11692570.90	11692571.00	11692571.12	0.0133	0.0102
Mercury	27301-04-24 17:31 G	11692659.11	11692659.23	11692659.38	0.0133	0.0081

Mercury	27301-07-21 23:31 G	11692747.32	11692747.48	11692747.63	0.0133	0.0059
Mercury	27301-10-18 04:48 G	11692835.54	11692835.70	11692835.87	0.0133	0.0038
Mercury	27302-01-14 10:19 G	11692923.76	11692923.93	11692924.10	0.0133	0.0016
Mercury	27302-04-12 15:50 G	11693011.99	11693012.16	11693012.33	0.0133	0.0005
Mercury	27302-07-09 21:07 G	11693100.22	11693100.38	11693100.55	0.0133	0.0026
Mercury	27302-10-06 02:24 G	11693188.45	11693188.60	11693188.77	0.0133	0.0046
Mercury	27303-01-02 07:55 G	11693276.68	11693276.83	11693276.97	0.0133	0.0066
Mercury	27303-03-31 12:57 G	11693364.92	11693365.04	11693365.17	0.0133	0.0087
Mercury	27303-06-27 18:00 G	11693453.17	11693453.25	11693453.36	0.0133	0.0107
Mercury	27303-09-23 23:17 G	11693541.43	11693541.47	11693541.53	0.0133	0.0127
Mars	27307-07-16 13:41 G	11694932.86	11694933.07	11694933.31	0.0133	0.0083
Mars	27309-06-15 03:21 G	11695632.49	11695632.64	11695632.80	0.0133	0.0113
Jupiter	27328-04-23 02:24 G	11702519.59	11702519.60	11702519.72	0.0140	0.0139
Moon	27328-12-30 02:38 G	11702770.48	11702770.61	11702770.76	0.0140	0.0114
Earth	27328-12-30 03:07 G	11702770.51	11702770.63	11702770.80	0.0140	0.0116 *
Earth	27330-01-03 21:36 G	11703140.17	11703140.40	11703140.65	0.0141	0.0044
Moon	27330-01-03 23:02 G	11703140.21	11703140.46	11703140.72	0.0141	0.0041 *
Moon	27331-01-08 15:21 G	11703509.90	11703510.14	11703510.39	0.0141	0.0024
Earth	27331-01-08 16:48 G	11703509.95	11703510.20	11703510.45	0.0141	0.0029 *
Earth	27332-01-13 11:45 G	11703879.83	11703879.99	11703880.18	0.0141	0.0103
Moon	27332-01-13 14:24 G	11703879.94	11703880.10	11703880.27	0.0141	0.0110 *
Venus	27334-11-19 15:07 G	11704921.09	11704921.13	11704921.19	0.0143	0.0139
Venus	27335-07-04 01:41 G	11705147.43	11705147.57	11705147.73	0.0143	0.0101
Venus	27336-02-15 12:29 G	11705373.83	11705374.02	11705374.22	0.0143	0.0063
Venus	27336-09-28 23:17 G	11705600.26	11705600.47	11705600.69	0.0143	0.0025
Venus	27337-05-13 10:19 G	11705826.72	11705826.93	11705827.15	0.0144	0.0014
Venus	27337-12-25 21:36 G	11706053.20	11706053.40	11706053.60	0.0144	0.0053
Venus	27338-08-09 08:53 G	11706279.71	11706279.87	11706280.04	0.0144	0.0092
Venus	27339-03-23 20:09 G	11706506.26	11706506.34	11706506.44	0.0144	0.0132
Mercury	27343-04-24 13:26 G	11707998.99	11707999.06	11707999.13	0.0145	0.0124

Mercury	27343-07-21 17:45 G	11708087.14	11708087.24	11708087.34	0.0145	0.0102
Mercury	27343-10-17 22:05 G	11708175.30	11708175.42	11708175.54	0.0145	0.0080
Mercury	27344-01-14 02:24 G	11708263.47	11708263.60	11708263.74	0.0145	0.0058
Mercury	27344-04-11 06:57 G	11708351.65	11708351.79	11708351.93	0.0145	0.0035
Mercury	27344-07-08 11:31 G	11708439.84	11708439.98	11708440.12	0.0145	0.0012
Mercury	27344-10-04 16:05 G	11708528.02	11708528.17	11708528.31	0.0145	0.0011
Mercury	27344-12-31 20:38 G	11708616.22	11708616.36	11708616.50	0.0145	0.0034
Mercury	27345-03-30 01:12 G	11708704.42	11708704.55	11708704.68	0.0145	0.0057
Mercury	27345-06-26 05:45 G	11708792.62	11708792.74	11708792.87	0.0145	0.0080
Mercury	27345-09-22 10:19 G	11708880.84	11708880.93	11708881.04	0.0145	0.0104
Mercury	27345-12-19 15:07 G	11708969.07	11708969.13	11708969.20	0.0145	0.0128
Mars	27349-10-07 07:26 G	11710356.48	11710356.81	11710357.13	0.0145	0.0003
Earth	27368-06-29 14:24 G	11717197.00	11717197.10	11717197.24	0.0138	0.0122
Moon	27368-06-29 15:36 G	11717197.02	11717197.15	11717197.30	0.0138	0.0117 *
Moon	27369-07-04 03:36 G	11717566.43	11717566.65	11717566.87	0.0138	0.0059
Earth	27369-07-04 04:48 G	11717566.48	11717566.70	11717566.95	0.0138	0.0053 *
Earth	27370-07-08 18:29 G	11717936.02	11717936.27	11717936.53	0.0137	0.0015
Moon	27370-07-08 20:24 G	11717936.10	11717936.35	11717936.62	0.0137	0.0023 *
Moon	27371-07-13 05:45 G	11718305.54	11718305.74	11718305.95	0.0137	0.0076
Earth	27371-07-13 07:12 G	11718305.61	11718305.80	11718306.02	0.0137	0.0082 *
Venus	27375-03-08 16:33 G	11719640.10	11719640.19	11719640.32	0.0136	0.0117
Venus	27375-10-20 23:31 G	11719866.32	11719866.48	11719866.66	0.0135	0.0084
Venus	27376-06-03 06:14 G	11720092.57	11720092.76	11720092.97	0.0135	0.0052
Venus	27377-01-15 12:43 G	11720318.82	11720319.03	11720319.25	0.0135	0.0019
Venus	27377-08-29 19:12 G	11720545.08	11720545.30	11720545.52	0.0135	0.0013
Venus	27378-04-13 01:12 G	11720771.35	11720771.55	11720771.76	0.0135	0.0045
Venus	27378-11-25 07:12 G	11720997.63	11720997.80	11720997.99	0.0134	0.0077
Venus	27379-07-09 13:12 G	11721223.94	11721224.05	11721224.19	0.0134	0.0109
Mercury	27384-11-19 13:55 G	11723184.00	11723184.08	11723184.16	0.0133	0.0116
Mercury	27385-02-15 19:26 G	11723272.20	11723272.31	11723272.44	0.0133	0.0095

Mercury	27385-05-15 01:12 G	11723360.41	11723360.55	11723360.69	0.0133	0.0073
Mercury	27385-08-11 06:43 G	11723448.62	11723448.78	11723448.94	0.0133	0.0052
Mercury	27385-11-07 12:14 G	11723536.84	11723537.01	11723537.18	0.0133	0.0031
Mercury	27386-02-03 17:45 G	11723625.07	11723625.24	11723625.41	0.0133	0.0010
Mercury	27386-05-02 23:02 G	11723713.29	11723713.46	11723713.63	0.0133	0.0011
Mercury	27386-07-30 04:19 G	11723801.52	11723801.68	11723801.85	0.0133	0.0032
Mercury	27386-10-26 09:50 G	11723889.76	11723889.91	11723890.07	0.0133	0.0052
Mercury	27387-01-22 14:53 G	11723977.99	11723978.12	11723978.27	0.0133	0.0073
Mercury	27387-04-20 20:09 G	11724066.23	11724066.34	11724066.47	0.0133	0.0093
Mercury	27387-07-18 01:26 G	11724154.48	11724154.56	11724154.65	0.0133	0.0113
Mercury	27387-10-14 06:29 G	11724242.77	11724242.77	11724242.79	0.0133	0.0133
Mars	27392-03-09 20:53 G	11725851.08	11725851.37	11725851.66	0.0133	0.0007
Earth	27412-12-31 11:31 G	11733451.84	11733451.98	11733452.14	0.0140	0.0113
Moon	27412-12-31 11:45 G	11733451.87	11733451.99	11733452.14	0.0140	0.0116 *
Earth	27414-01-05 05:45 G	11733821.50	11733821.74	11733821.99	0.0140	0.0042
Moon	27414-01-05 06:00 G	11733821.50	11733821.75	11733822.01	0.0140	0.0043 *
Moon	27415-01-09 23:31 G	11734191.24	11734191.48	11734191.71	0.0141	0.0036
Earth	27415-01-10 00:14 G	11734191.27	11734191.51	11734191.77	0.0141	0.0031 *
Earth	27416-01-14 19:26 G	11734561.15	11734561.31	11734561.49	0.0141	0.0105
Moon	27416-01-14 20:24 G	11734561.18	11734561.35	11734561.56	0.0141	0.0098 *
Venus	27419-03-04 06:57 G	11735705.68	11735705.79	11735705.92	0.0143	0.0119
Venus	27419-10-16 17:31 G	11735932.06	11735932.23	11735932.42	0.0143	0.0081
Venus	27420-05-30 04:19 G	11736158.48	11736158.68	11736158.90	0.0143	0.0043
Venus	27421-01-11 15:36 G	11736384.93	11736385.15	11736385.36	0.0143	0.0005
Venus	27421-08-26 02:24 G	11736611.40	11736611.60	11736611.82	0.0144	0.0035
Venus	27422-04-09 13:26 G	11736837.89	11736838.06	11736838.26	0.0144	0.0074
Venus	27422-11-22 00:57 G	11737064.42	11737064.54	11737064.69	0.0144	0.0113
Mercury	27427-02-16 15:50 G	11738612.14	11738612.16	11738612.19	0.0145	0.0142
Mercury	27427-05-15 19:55 G	11738700.27	11738700.33	11738700.42	0.0145	0.0121
Mercury	27427-08-12 00:29 G	11738788.42	11738788.52	11738788.63	0.0145	0.0099

Mercury	27427-11-08 05:02 G	11738876.59	11738876.71	11738876.83	0.0145	0.0076
Mercury	27428-02-04 09:21 G	11738964.76	11738964.89	11738965.03	0.0145	0.0054
Mercury	27428-05-02 13:55 G	11739052.94	11739053.08	11739053.22	0.0145	0.0031
Mercury	27428-07-29 18:29 G	11739141.12	11739141.27	11739141.41	0.0145	0.0010
Mercury	27428-10-25 22:48 G	11739229.31	11739229.45	11739229.60	0.0145	0.0015
Mercury	27429-01-22 03:21 G	11739317.51	11739317.64	11739317.79	0.0145	0.0038
Mercury	27429-04-20 07:55 G	11739405.71	11739405.83	11739405.97	0.0145	0.0061
Mercury	27429-07-17 12:43 G	11739493.91	11739494.03	11739494.15	0.0145	0.0084
Mercury	27429-10-13 17:17 G	11739582.13	11739582.22	11739582.32	0.0145	0.0108
Mercury	27430-01-09 22:05 G	11739670.36	11739670.42	11739670.48	0.0145	0.0132
Mars	27434-06-04 09:07 G	11741276.69	11741276.88	11741277.10	0.0145	0.0112
Earth	27452-07-01 01:12 G	11747878.45	11747878.55	11747878.71	0.0138	0.0119
Moon	27452-07-01 02:24 G	11747878.48	11747878.60	11747878.73	0.0138	0.0122 *
Moon	27453-07-05 15:07 G	11748247.90	11748248.13	11748248.37	0.0138	0.0043
Earth	27453-07-05 15:50 G	11748247.93	11748248.16	11748248.41	0.0138	0.0050 *
Earth	27454-07-10 05:45 G	11748617.49	11748617.74	11748617.99	0.0138	0.0018
Moon	27454-07-10 06:43 G	11748617.52	11748617.78	11748618.05	0.0138	0.0012 *
Moon	27455-07-14 17:02 G	11748987.03	11748987.21	11748987.40	0.0137	0.0091
Earth	27455-07-14 18:43 G	11748987.09	11748987.28	11748987.48	0.0137	0.0085 *
Venus	27458-11-07 02:38 G	11750198.55	11750198.61	11750198.68	0.0136	0.0129
Venus	27459-06-21 09:21 G	11750424.75	11750424.89	11750425.05	0.0136	0.0097
Venus	27460-02-02 15:50 G	11750650.98	11750651.16	11750651.37	0.0135	0.0065
Venus	27460-09-15 22:33 G	11750877.23	11750877.44	11750877.66	0.0135	0.0032
Venus	27461-04-30 05:17 G	11751103.50	11751103.72	11751103.93	0.0135	0.0003
Venus	27461-12-12 11:17 G	11751329.77	11751329.97	11751330.19	0.0135	0.0033
Venus	27462-07-26 17:31 G	11751556.04	11751556.23	11751556.43	0.0135	0.0065
Venus	27463-03-09 23:17 G	11751782.34	11751782.47	11751782.64	0.0134	0.0097
Venus	27463-10-22 05:17 G	11752008.67	11752008.72	11752008.80	0.0134	0.0128
Mercury	27468-09-13 15:36 G	11753797.13	11753797.15	11753797.18	0.0133	0.0131
Mercury	27468-12-10 21:21 G	11753885.30	11753885.39	11753885.49	0.0133	0.0110

Mercury	27469-03-09 02:53 G	11753973.50	11753973.62	11753973.76	0.0133	0.0088
Mercury	27469-06-05 08:38 G	11754061.71	11754061.86	11754062.01	0.0133	0.0067
Mercury	27469-09-01 14:09 G	11754149.93	11754150.09	11754150.25	0.0133	0.0045
Mercury	27469-11-28 19:41 G	11754238.15	11754238.32	11754238.49	0.0133	0.0024
Mercury	27470-02-25 01:12 G	11754326.38	11754326.55	11754326.72	0.0133	0.0003
Mercury	27470-05-24 06:29 G	11754414.61	11754414.77	11754414.95	0.0133	0.0018
Mercury	27470-08-20 12:00 G	11754502.84	11754503.00	11754503.16	0.0133	0.0038
Mercury	27470-11-16 17:17 G	11754591.07	11754591.22	11754591.37	0.0133	0.0059
Mercury	27471-02-12 22:33 G	11754679.31	11754679.44	11754679.58	0.0133	0.0079
Mercury	27471-05-12 03:50 G	11754767.55	11754767.66	11754767.77	0.0133	0.0099
Mercury	27471-08-08 08:53 G	11754855.81	11754855.87	11754855.95	0.0133	0.0119
Mars	27474-12-04 12:57 G	11756069.98	11756070.04	11756070.13	0.0133	0.0128
Mars	27476-11-03 04:48 G	11756769.46	11756769.70	11756769.96	0.0133	0.0070
Earth	27496-12-31 23:02 G	11764133.31	11764133.46	11764133.62	0.0140	0.0109
Moon	27496-12-31 23:31 G	11764133.34	11764133.48	11764133.65	0.0140	0.0107 *
Moon	27498-01-05 16:33 G	11764502.94	11764503.19	11764503.45	0.0140	0.0037
Earth	27498-01-05 16:48 G	11764502.96	11764503.20	11764503.45	0.0140	0.0038 *
Earth	27499-01-10 11:17 G	11764872.73	11764872.97	11764873.23	0.0141	0.0035
Moon	27499-01-10 11:31 G	11764872.74	11764872.98	11764873.22	0.0141	0.0031 *
Earth	27500-01-15 06:14 G	11765242.62	11765242.76	11765242.94	0.0141	0.0109
Moon	27500-01-15 06:57 G	11765242.67	11765242.79	11765242.97	0.0141	0.0116 *
Venus	27502-11-02 14:38 G	11766264.04	11766264.11	11766264.18	0.0143	0.0134
Venus	27503-06-17 00:57 G	11766490.39	11766490.54	11766490.71	0.0143	0.0097
Venus	27504-01-29 11:31 G	11766716.79	11766716.98	11766717.19	0.0143	0.0059
Venus	27504-09-11 22:33 G	11766943.23	11766943.44	11766943.66	0.0143	0.0021
Venus	27505-04-26 09:36 G	11767169.68	11767169.90	11767170.11	0.0144	0.0018
Venus	27505-12-08 20:53 G	11767396.17	11767396.37	11767396.57	0.0144	0.0057
Venus	27506-07-23 07:55 G	11767622.68	11767622.83	11767623.00	0.0144	0.0096
Venus	27507-03-06 19:12 G	11767849.25	11767849.30	11767849.39	0.0144	0.0136
Mercury	27511-03-09 23:02 G	11769313.42	11769313.46	11769313.51	0.0145	0.0137

Mercury	27511-06-06 03:21 G	11769401.56	11769401.64	11769401.73	0.0145	0.0115
Mercury	27511-09-02 07:41 G	11769489.72	11769489.82	11769489.94	0.0145	0.0093
Mercury	27511-11-29 12:14 G	11769577.89	11769578.01	11769578.14	0.0145	0.0071
Mercury	27512-02-25 16:33 G	11769666.06	11769666.19	11769666.33	0.0145	0.0049
Mercury	27512-05-23 21:07 G	11769754.24	11769754.38	11769754.52	0.0145	0.0026
Mercury	27512-08-20 01:41 G	11769842.42	11769842.57	11769842.71	0.0145	0.0003
Mercury	27512-11-16 06:14 G	11769930.61	11769930.76	11769930.90	0.0145	0.0020
Mercury	27513-02-12 10:48 G	11770018.81	11770018.95	11770019.09	0.0145	0.0043
Mercury	27513-05-11 15:21 G	11770107.01	11770107.14	11770107.27	0.0145	0.0067
Mercury	27513-08-07 19:55 G	11770195.22	11770195.33	11770195.45	0.0145	0.0090
Mercury	27513-11-04 00:43 G	11770283.44	11770283.53	11770283.62	0.0145	0.0114
Mercury	27514-01-31 05:17 G	11770371.68	11770371.72	11770371.77	0.0145	0.0137
Mars	27517-02-23 12:00 G	11771490.74	11771491.00	11771491.29	0.0145	0.0074
Jupiter	27536-02-06 06:29 G	11778412.35	11778412.77	11778413.27	0.0139	0.0073
Moon	27536-07-02 12:00 G	11778559.86	11778560.00	11778560.17	0.0138	0.0112
Earth	27536-07-02 12:14 G	11778559.89	11778560.01	11778560.17	0.0138	0.0115 *
Earth	27537-07-07 03:07 G	11778929.39	11778929.63	11778929.87	0.0138	0.0046
Moon	27537-07-07 02:53 G	11778929.40	11778929.62	11778929.85	0.0138	0.0052 *
Earth	27538-07-11 16:48 G	11779298.95	11779299.20	11779299.46	0.0138	0.0022
Moon	27538-07-11 17:31 G	11779298.97	11779299.23	11779299.49	0.0138	0.0029 *
Moon	27539-07-16 05:02 G	11779668.53	11779668.71	11779668.92	0.0137	0.0083
Earth	27539-07-16 05:31 G	11779668.55	11779668.73	11779668.93	0.0137	0.0089 *
Venus	27543-02-19 18:43 G	11780983.17	11780983.28	11780983.42	0.0136	0.0110
Venus	27543-10-04 01:26 G	11781209.40	11781209.56	11781209.76	0.0136	0.0078
Venus	27544-05-17 08:38 G	11781435.65	11781435.86	11781436.07	0.0135	0.0045
Venus	27544-12-29 15:07 G	11781661.91	11781662.13	11781662.35	0.0135	0.0012
Venus	27545-08-12 21:21 G	11781888.18	11781888.39	11781888.61	0.0135	0.0020
Venus	27546-03-27 03:36 G	11782114.45	11782114.65	11782114.86	0.0135	0.0052
Venus	27546-11-08 09:36 G	11782340.74	11782340.90	11782341.08	0.0134	0.0084
Venus	27547-06-22 15:36 G	11782567.06	11782567.15	11782567.28	0.0134	0.0116

Mercury	27552-10-04 23:02 G	11784498.41	11784498.46	11784498.52	0.0133	0.0125
Mercury	27553-01-01 04:33 G	11784586.59	11784586.69	11784586.81	0.0133	0.0103
Mercury	27553-03-30 10:19 G	11784674.80	11784674.93	11784675.07	0.0133	0.0081
Mercury	27553-06-26 15:50 G	11784763.02	11784763.16	11784763.33	0.0133	0.0060
Mercury	27553-09-22 21:36 G	11784851.24	11784851.40	11784851.57	0.0133	0.0039
Mercury	27553-12-20 03:07 G	11784939.46	11784939.63	11784939.80	0.0133	0.0017
Mercury	27554-03-18 08:38 G	11785027.69	11785027.86	11785028.03	0.0133	0.0004
Mercury	27554-06-14 13:55 G	11785115.92	11785116.08	11785116.25	0.0133	0.0025
Mercury	27554-09-10 19:12 G	11785204.15	11785204.30	11785204.47	0.0133	0.0045
Mercury	27554-12-08 00:43 G	11785292.38	11785292.53	11785292.68	0.0133	0.0065
Mercury	27555-03-06 05:45 G	11785380.62	11785380.74	11785380.88	0.0133	0.0086
Mercury	27555-06-02 11:02 G	11785468.87	11785468.96	11785469.07	0.0133	0.0106
Mercury	27555-08-29 16:05 G	11785557.13	11785557.17	11785557.24	0.0133	0.0126
Mars	27559-07-30 23:02 G	11786988.20	11786988.46	11786988.75	0.0133	0.0051
Earth	27581-01-02 09:50 G	11794814.76	11794814.91	11794815.10	0.0140	0.0106
Moon	27581-01-02 11:31 G	11794814.84	11794814.98	11794815.15	0.0140	0.0110 *
Moon	27582-01-07 02:53 G	11795184.37	11795184.62	11795184.88	0.0140	0.0033
Earth	27582-01-07 04:05 G	11795184.43	11795184.67	11795184.92	0.0140	0.0034 *
Earth	27583-01-11 22:33 G	11795554.20	11795554.44	11795554.69	0.0141	0.0039
Moon	27583-01-11 23:02 G	11795554.22	11795554.46	11795554.69	0.0141	0.0043 *
Moon	27584-01-16 17:02 G	11795924.06	11795924.21	11795924.40	0.0141	0.0107
Earth	27584-01-16 17:31 G	11795924.10	11795924.23	11795924.40	0.0141	0.0113 *
Venus	27587-02-14 08:53 G	11797048.74	11797048.87	11797049.01	0.0143	0.0112
Venus	27587-09-28 19:26 G	11797275.13	11797275.31	11797275.50	0.0143	0.0074
Venus	27588-05-12 06:14 G	11797501.56	11797501.76	11797501.98	0.0143	0.0036
Venus	27588-12-24 17:31 G	11797728.01	11797728.23	11797728.44	0.0143	0.0003
Venus	27589-08-08 04:19 G	11797954.48	11797954.68	11797954.90	0.0144	0.0042
Venus	27590-03-22 15:36 G	11798180.98	11798181.15	11798181.34	0.0144	0.0080
Venus	27590-11-04 03:07 G	11798407.52	11798407.63	11798407.76	0.0144	0.0119
Mercury	27595-03-30 06:43 G	11800014.73	11800014.78	11800014.85	0.0145	0.0130

Mercury	27595-06-26 11:02 G	11800102.87	11800102.96	11800103.06	0.0145	0.0108
Mercury	27595-09-22 15:21 G	11800191.03	11800191.14	11800191.26	0.0145	0.0086
Mercury	27595-12-19 19:55 G	11800279.20	11800279.33	11800279.46	0.0145	0.0064
Mercury	27596-03-17 00:14 G	11800367.38	11800367.51	11800367.65	0.0145	0.0041
Mercury	27596-06-13 04:48 G	11800455.56	11800455.70	11800455.84	0.0145	0.0019
Mercury	27596-09-09 09:21 G	11800543.74	11800543.89	11800544.03	0.0145	0.0006
Mercury	27596-12-06 13:41 G	11800631.93	11800632.07	11800632.22	0.0145	0.0028
Mercury	27597-03-04 18:14 G	11800720.13	11800720.26	11800720.40	0.0145	0.0051
Mercury	27597-05-31 23:02 G	11800808.33	11800808.46	11800808.58	0.0145	0.0074
Mercury	27597-08-28 03:21 G	11800896.54	11800896.64	11800896.76	0.0145	0.0098
Mercury	27597-11-24 07:55 G	11800984.77	11800984.83	11800984.92	0.0145	0.0122
Mercury	27598-02-20 12:57 G	11801073.03	11801073.04	11801073.05	0.0145	0.0145
Mars	27601-10-20 20:38 G	11802411.06	11802411.36	11802411.68	0.0145	0.0040
Moon	27620-07-03 00:57 G	11809241.39	11809241.54	11809241.69	0.0138	0.0113
Earth	27620-07-03 01:26 G	11809241.42	11809241.56	11809241.72	0.0138	0.0111 *
Earth	27621-07-07 15:36 G	11809610.92	11809611.15	11809611.41	0.0138	0.0042
Moon	27621-07-07 16:19 G	11809610.95	11809611.18	11809611.42	0.0138	0.0036 *
Moon	27622-07-12 05:02 G	11809980.46	11809980.71	11809980.98	0.0138	0.0021
Earth	27622-07-12 05:31 G	11809980.48	11809980.73	11809980.98	0.0138	0.0027 *
Moon	27623-07-16 17:45 G	11810350.09	11810350.24	11810350.42	0.0137	0.0101
Earth	27623-07-16 18:29 G	11810350.09	11810350.27	11810350.46	0.0137	0.0094 *
Venus	27626-10-20 05:17 G	11811541.64	11811541.72	11811541.83	0.0136	0.0122
Venus	27627-06-03 12:14 G	11811767.86	11811768.01	11811768.19	0.0136	0.0090
Venus	27628-01-15 19:12 G	11811994.10	11811994.30	11811994.50	0.0135	0.0057
Venus	27628-08-29 01:41 G	11812220.36	11812220.57	11812220.79	0.0135	0.0025
Venus	27629-04-12 08:24 G	11812446.63	11812446.85	11812447.06	0.0135	0.0008
Venus	27629-11-24 14:38 G	11812672.90	11812673.11	11812673.32	0.0135	0.0040
Venus	27630-07-08 20:53 G	11812899.19	11812899.37	11812899.56	0.0135	0.0072
Venus	27631-02-20 02:53 G	11813125.49	11813125.62	11813125.77	0.0134	0.0103
Mercury	27636-10-25 06:43 G	11815199.71	11815199.78	11815199.87	0.0133	0.0117

Mercury	27637-01-21 12:14 G	11815287.90	11815288.01	11815288.14	0.0133	0.0096
Mercury	27637-04-19 18:00 G	11815376.11	11815376.25	11815376.40	0.0133	0.0074
Mercury	27637-07-16 23:45 G	11815464.33	11815464.49	11815464.65	0.0133	0.0052
Mercury	27637-10-13 05:17 G	11815552.55	11815552.72	11815552.89	0.0133	0.0031
Mercury	27638-01-09 10:48 G	11815640.78	11815640.95	11815641.12	0.0133	0.0010
Mercury	27638-04-07 16:19 G	11815729.01	11815729.18	11815729.35	0.0133	0.0011
Mercury	27638-07-04 21:36 G	11815817.24	11815817.40	11815817.57	0.0133	0.0032
Mercury	27638-10-01 03:07 G	11815905.47	11815905.63	11815905.78	0.0133	0.0053
Mercury	27638-12-28 08:09 G	11815993.71	11815993.84	11815993.99	0.0133	0.0073
Mercury	27639-03-26 13:26 G	11816081.95	11816082.06	11816082.19	0.0133	0.0093
Mercury	27639-06-22 18:43 G	11816170.20	11816170.28	11816170.37	0.0133	0.0113
Mars	27644-03-24 08:53 G	11817906.60	11817906.87	11817907.17	0.0133	0.0030
Earth	27665-01-02 22:48 G	11825496.29	11825496.45	11825496.64	0.0140	0.0101
Moon	27665-01-03 00:43 G	11825496.37	11825496.53	11825496.73	0.0140	0.0097 *
Moon	27666-01-07 15:21 G	11825865.89	11825866.14	11825866.40	0.0140	0.0030
Earth	27666-01-07 16:48 G	11825865.96	11825866.20	11825866.46	0.0140	0.0030 *
Earth	27667-01-12 11:31 G	11826235.74	11826235.98	11826236.23	0.0141	0.0044
Moon	27667-01-12 12:43 G	11826235.81	11826236.03	11826236.28	0.0141	0.0042 *
Moon	27668-01-17 06:14 G	11826605.65	11826605.76	11826605.90	0.0141	0.0124
Earth	27668-01-17 06:43 G	11826605.65	11826605.78	11826605.93	0.0141	0.0118 *
Venus	27670-10-14 17:45 G	11827607.16	11827607.24	11827607.36	0.0143	0.0126
Venus	27671-05-29 04:33 G	11827833.53	11827833.69	11827833.87	0.0143	0.0088
Venus	27672-01-10 15:21 G	11828059.94	11828060.14	11828060.35	0.0143	0.0050
Venus	27672-08-24 02:24 G	11828286.38	11828286.60	11828286.81	0.0143	0.0012
Venus	27673-04-07 13:26 G	11828512.85	11828513.06	11828513.27	0.0144	0.0027
Venus	27673-11-20 00:29 G	11828739.34	11828739.52	11828739.73	0.0144	0.0066
Venus	27674-07-04 12:00 G	11828965.86	11828966.00	11828966.15	0.0144	0.0104
Venus	27675-02-15 23:17 G	11829192.46	11829192.47	11829192.51	0.0144	0.0143
Mercury	27679-01-21 10:19 G	11830627.92	11830627.93	11830627.96	0.0145	0.0143
Mercury	27679-04-19 14:38 G	11830716.04	11830716.11	11830716.19	0.0145	0.0122

Mercury	27679-07-16 19:12 G	11830804.20	11830804.30	11830804.40	0.0145	0.0099
Mercury	27679-10-12 23:31 G	11830892.36	11830892.48	11830892.60	0.0145	0.0077
Mercury	27680-01-09 03:50 G	11830980.53	11830980.66	11830980.79	0.0145	0.0055
Mercury	27680-04-06 08:24 G	11831068.71	11831068.85	11831068.99	0.0145	0.0033
Mercury	27680-07-03 12:43 G	11831156.89	11831157.03	11831157.18	0.0145	0.0010
Mercury	27680-09-29 17:17 G	11831245.08	11831245.22	11831245.36	0.0145	0.0013
Mercury	27680-12-26 21:50 G	11831333.27	11831333.41	11831333.55	0.0145	0.0036
Mercury	27681-03-25 02:24 G	11831421.47	11831421.60	11831421.73	0.0145	0.0060
Mercury	27681-06-21 06:57 G	11831509.67	11831509.79	11831509.91	0.0145	0.0083
Mercury	27681-09-17 11:31 G	11831597.89	11831597.98	11831598.08	0.0145	0.0107
Mercury	27681-12-14 16:05 G	11831686.12	11831686.17	11831686.24	0.0145	0.0131
Mars	27684-07-11 11:17 G	11832625.92	11832625.97	11832626.08	0.0145	0.0141
Moon	27704-07-04 13:12 G	11839922.89	11839923.05	11839923.24	0.0138	0.0104
Earth	27704-07-04 14:53 G	11839922.97	11839923.12	11839923.30	0.0138	0.0106 *
Earth	27705-07-09 05:17 G	11840292.48	11840292.72	11840292.97	0.0138	0.0037
Moon	27705-07-09 06:29 G	11840292.54	11840292.77	11840293.01	0.0138	0.0041 *
Moon	27706-07-13 18:14 G	11840662.01	11840662.26	11840662.52	0.0138	0.0039
Earth	27706-07-13 18:57 G	11840662.05	11840662.29	11840662.54	0.0138	0.0032 *
Earth	27707-07-18 07:12 G	11841031.65	11841031.80	11841032.00	0.0137	0.0099
Moon	27707-07-18 08:24 G	11841031.67	11841031.85	11841032.03	0.0137	0.0092 *
Venus	27710-06-20 16:19 G	11842100.15	11842100.18	11842100.22	0.0136	0.0133
Venus	27711-02-01 23:02 G	11842326.33	11842326.46	11842326.62	0.0136	0.0101
Venus	27711-09-16 06:00 G	11842552.57	11842552.75	11842552.94	0.0135	0.0068
Venus	27712-04-29 12:43 G	11842778.83	11842779.03	11842779.25	0.0135	0.0036
Venus	27712-12-11 19:26 G	11843005.09	11843005.31	11843005.53	0.0135	0.0004
Venus	27713-07-26 01:41 G	11843231.36	11843231.57	11843231.79	0.0135	0.0029
Venus	27714-03-09 07:55 G	11843457.64	11843457.83	11843458.03	0.0135	0.0061
Venus	27714-10-21 14:09 G	11843683.94	11843684.09	11843684.26	0.0134	0.0092
Venus	27715-06-04 20:09 G	11843910.27	11843910.34	11843910.44	0.0134	0.0123
Mercury	27720-08-19 08:38 G	11845812.84	11845812.86	11845812.90	0.0133	0.0131

Mercury	27720-11-15 14:38 G	11845901.01	11845901.11	11845901.21	0.0133	0.0109
Mercury	27721-02-11 20:09 G	11845989.21	11845989.34	11845989.48	0.0133	0.0087
Mercury	27721-05-11 01:55 G	11846077.43	11846077.58	11846077.73	0.0133	0.0066
Mercury	27721-08-07 07:26 G	11846165.65	11846165.81	11846165.97	0.0133	0.0044
Mercury	27721-11-03 12:57 G	11846253.87	11846254.04	11846254.21	0.0133	0.0023
Mercury	27722-01-30 18:29 G	11846342.10	11846342.27	11846342.44	0.0133	0.0002
Mercury	27722-04-28 23:45 G	11846430.33	11846430.49	11846430.67	0.0133	0.0019
Mercury	27722-07-26 05:17 G	11846518.56	11846518.72	11846518.89	0.0133	0.0039
Mercury	27722-10-22 10:33 G	11846606.79	11846606.94	11846607.10	0.0133	0.0060
Mercury	27723-01-18 15:50 G	11846695.03	11846695.16	11846695.30	0.0133	0.0081
Mercury	27723-04-16 20:53 G	11846783.28	11846783.37	11846783.50	0.0133	0.0101
Mercury	27723-07-14 02:09 G	11846871.54	11846871.59	11846871.67	0.0133	0.0121
Mars	27726-12-19 01:55 G	11848125.39	11848125.58	11848125.81	0.0133	0.0093
Mars	27728-11-17 18:00 G	11848825.10	11848825.25	11848825.43	0.0133	0.0108
Earth	27749-01-04 09:36 G	11856177.72	11856177.90	11856178.08	0.0140	0.0097
Moon	27749-01-04 11:45 G	11856177.84	11856177.99	11856178.18	0.0140	0.0103 *
Moon	27750-01-09 00:57 G	11856547.29	11856547.54	11856547.80	0.0140	0.0023
Earth	27750-01-09 03:21 G	11856547.40	11856547.64	11856547.90	0.0140	0.0026 *
Earth	27751-01-13 21:50 G	11856917.18	11856917.41	11856917.66	0.0141	0.0048
Moon	27751-01-13 23:31 G	11856917.26	11856917.48	11856917.72	0.0141	0.0051 *
Moon	27752-01-18 15:07 G	11857287.01	11857287.13	11857287.30	0.0141	0.0117
Earth	27752-01-18 17:02 G	11857287.10	11857287.21	11857287.36	0.0141	0.0122 *
Venus	27754-06-15 01:26 G	11858165.54	11858165.56	11858165.61	0.0142	0.0141
Venus	27755-01-27 12:00 G	11858391.86	11858392.00	11858392.16	0.0143	0.0104
Venus	27755-09-10 22:33 G	11858618.26	11858618.44	11858618.65	0.0143	0.0066
Venus	27756-04-24 09:36 G	11858844.69	11858844.90	11858845.12	0.0143	0.0028
Venus	27756-12-06 20:53 G	11859071.16	11859071.37	11859071.59	0.0143	0.0011
Venus	27757-07-21 07:55 G	11859297.63	11859297.83	11859298.04	0.0144	0.0050
Venus	27758-03-04 19:12 G	11859524.14	11859524.30	11859524.48	0.0144	0.0088
Venus	27758-10-17 06:29 G	11859750.68	11859750.77	11859750.88	0.0144	0.0127

Mercury	27763-02-11 18:00 G	11861329.21	11861329.25	11861329.30	0.0145	0.0136
Mercury	27763-05-10 22:19 G	11861417.35	11861417.43	11861417.52	0.0145	0.0115
Mercury	27763-08-07 02:38 G	11861505.51	11861505.61	11861505.72	0.0145	0.0093
Mercury	27763-11-03 06:57 G	11861593.67	11861593.79	11861593.92	0.0145	0.0071
Mercury	27764-01-30 11:31 G	11861681.85	11861681.98	11861682.12	0.0145	0.0048
Mercury	27764-04-27 15:50 G	11861770.02	11861770.16	11861770.31	0.0145	0.0026
Mercury	27764-07-24 20:24 G	11861858.21	11861858.35	11861858.50	0.0145	0.0003
Mercury	27764-10-21 00:57 G	11861946.40	11861946.54	11861946.68	0.0145	0.0021
Mercury	27765-01-17 05:31 G	11862034.59	11862034.73	11862034.87	0.0145	0.0044
Mercury	27765-04-15 09:50 G	11862122.79	11862122.91	11862123.05	0.0146	0.0068
Mercury	27765-07-12 14:38 G	11862211.00	11862211.11	11862211.22	0.0146	0.0091
Mercury	27765-10-08 19:12 G	11862299.22	11862299.30	11862299.39	0.0146	0.0114
Mercury	27766-01-04 23:45 G	11862387.46	11862387.49	11862387.54	0.0146	0.0139
Mars	27769-03-08 22:19 G	11863546.11	11863546.43	11863546.75	0.0145	0.0025
Moon	27788-07-05 03:21 G	11870604.48	11870604.64	11870604.83	0.0138	0.0102
Earth	27788-07-05 05:45 G	11870604.56	11870604.74	11870604.91	0.0138	0.0100 *
Earth	27789-07-09 19:41 G	11870974.08	11870974.32	11870974.57	0.0138	0.0031
Moon	27789-07-09 21:21 G	11870974.15	11870974.39	11870974.64	0.0138	0.0026 *
Moon	27790-07-14 07:26 G	11871343.56	11871343.81	11871344.07	0.0138	0.0031
Earth	27790-07-14 09:07 G	11871343.64	11871343.88	11871344.13	0.0138	0.0037 *
Earth	27791-07-18 21:50 G	11871713.25	11871713.41	11871713.58	0.0137	0.0104
Moon	27791-07-18 22:33 G	11871713.31	11871713.44	11871713.59	0.0137	0.0112 *
Venus	27794-10-02 10:33 G	11872884.82	11872884.94	11872885.06	0.0136	0.0112
Venus	27795-05-16 17:31 G	11873111.06	11873111.23	11873111.41	0.0135	0.0080
Venus	27795-12-29 00:14 G	11873337.31	11873337.51	11873337.72	0.0135	0.0047
Venus	27796-08-11 06:57 G	11873563.57	11873563.79	11873564.01	0.0135	0.0015
Venus	27797-03-25 13:26 G	11873789.84	11873790.06	11873790.28	0.0135	0.0017
Venus	27797-11-06 19:41 G	11874016.12	11874016.32	11874016.53	0.0135	0.0049
Venus	27798-06-21 02:09 G	11874242.42	11874242.59	11874242.77	0.0134	0.0081
Venus	27799-02-02 07:55 G	11874468.73	11874468.83	11874468.97	0.0134	0.0112

Mercury	27804-09-09 16:33 G	11876514.13	11876514.19	11876514.27	0.0133	0.0122
Mercury	27804-12-06 22:19 G	11876602.32	11876602.43	11876602.55	0.0133	0.0100
Mercury	27805-03-05 03:50 G	11876690.53	11876690.66	11876690.81	0.0133	0.0079
Mercury	27805-06-01 09:50 G	11876778.75	11876778.91	11876779.06	0.0133	0.0057
Mercury	27805-08-28 15:21 G	11876866.97	11876867.14	11876867.30	0.0133	0.0036
Mercury	27805-11-24 20:53 G	11876955.20	11876955.37	11876955.54	0.0133	0.0015
Mercury	27806-02-21 02:09 G	11877043.42	11877043.59	11877043.77	0.0133	0.0007
Mercury	27806-05-20 07:41 G	11877131.65	11877131.82	11877131.99	0.0133	0.0027
Mercury	27806-08-16 12:57 G	11877219.89	11877220.04	11877220.21	0.0133	0.0048
Mercury	27806-11-12 18:14 G	11877308.12	11877308.26	11877308.42	0.0133	0.0068
Mercury	27807-02-08 23:45 G	11877396.37	11877396.49	11877396.62	0.0133	0.0088
Mercury	27807-05-08 05:02 G	11877484.61	11877484.71	11877484.81	0.0133	0.0108
Mercury	27807-08-04 10:19 G	11877572.89	11877572.93	11877572.97	0.0133	0.0128
Mars	27811-08-14 14:24 G	11879043.81	11879044.10	11879044.39	0.0133	0.0012
Earth	27833-01-05 20:09 G	11886859.17	11886859.34	11886859.54	0.0140	0.0094
Moon	27833-01-05 23:31 G	11886859.29	11886859.48	11886859.67	0.0140	0.0088 *
Moon	27834-01-10 11:31 G	11887228.73	11887228.98	11887229.24	0.0140	0.0024
Earth	27834-01-10 14:24 G	11887228.85	11887229.10	11887229.35	0.0140	0.0022 *
Earth	27835-01-15 09:07 G	11887598.64	11887598.88	11887599.11	0.0141	0.0051
Moon	27835-01-15 11:17 G	11887598.75	11887598.97	11887599.22	0.0141	0.0051 *
Moon	27836-01-20 02:24 G	11887968.52	11887968.60	11887968.71	0.0141	0.0131
Earth	27836-01-20 04:05 G	11887968.58	11887968.67	11887968.81	0.0141	0.0126 *
Venus	27838-09-27 19:41 G	11888950.21	11888950.32	11888950.45	0.0143	0.0119
Venus	27839-05-12 06:29 G	11889176.60	11889176.77	11889176.95	0.0143	0.0081
Venus	27839-12-24 17:17 G	11889403.02	11889403.22	11889403.44	0.0143	0.0043
Venus	27840-08-07 04:19 G	11889629.47	11889629.68	11889629.90	0.0143	0.0006
Venus	27841-03-21 15:21 G	11889855.93	11889856.14	11889856.36	0.0144	0.0034
Venus	27841-11-03 02:38 G	11890082.43	11890082.61	11890082.80	0.0144	0.0072
Venus	27842-06-17 13:41 G	11890308.95	11890309.07	11890309.23	0.0144	0.0111
Mercury	27847-03-05 01:26 G	11892030.51	11892030.56	11892030.63	0.0145	0.0130

Mercury	27847-06-01 05:45 G	11892118.65	11892118.74	11892118.84	0.0145	0.0108
Mercury	27847-08-28 10:05 G	11892206.81	11892206.92	11892207.04	0.0145	0.0086
Mercury	27847-11-24 14:38 G	11892294.98	11892295.11	11892295.24	0.0145	0.0064
Mercury	27848-02-20 18:57 G	11892383.16	11892383.29	11892383.43	0.0145	0.0041
Mercury	27848-05-18 23:31 G	11892471.34	11892471.48	11892471.62	0.0145	0.0018
Mercury	27848-08-15 04:05 G	11892559.52	11892559.67	11892559.81	0.0145	0.0006
Mercury	27848-11-11 08:24 G	11892647.71	11892647.85	11892648.00	0.0145	0.0028
Mercury	27849-02-07 12:57 G	11892735.91	11892736.04	11892736.18	0.0145	0.0051
Mercury	27849-05-06 17:31 G	11892824.11	11892824.23	11892824.36	0.0146	0.0074
Mercury	27849-08-02 22:19 G	11892912.32	11892912.43	11892912.53	0.0146	0.0098
Mercury	27849-10-30 02:53 G	11893000.54	11893000.62	11893000.70	0.0146	0.0122
Mercury	27850-01-26 07:41 G	11893088.82	11893088.82	11893088.82	0.0146	0.0145
Mars	27853-11-04 07:12 G	11894466.57	11894466.80	11894467.07	0.0145	0.0092
Moon	27872-07-06 16:33 G	11901286.00	11901286.19	11901286.38	0.0139	0.0094
Earth	27872-07-06 19:12 G	11901286.12	11901286.30	11901286.49	0.0139	0.0095 *
Earth	27873-07-11 09:21 G	11901655.64	11901655.89	11901656.14	0.0138	0.0026
Moon	27873-07-11 11:31 G	11901655.74	11901655.98	11901656.22	0.0138	0.0029 *
Moon	27874-07-15 20:53 G	11902025.13	11902025.37	11902025.62	0.0138	0.0050
Earth	27874-07-15 22:48 G	11902025.21	11902025.45	11902025.69	0.0138	0.0043 *
Earth	27875-07-20 11:02 G	11902394.83	11902394.96	11902395.13	0.0137	0.0110
Moon	27875-07-20 13:12 G	11902394.90	11902395.05	11902395.22	0.0137	0.0103 *
Venus	27878-06-02 21:21 G	11903443.32	11903443.39	11903443.50	0.0136	0.0124
Venus	27879-01-15 04:48 G	11903669.54	11903669.70	11903669.86	0.0136	0.0091
Venus	27879-08-29 11:31 G	11903895.79	11903895.98	11903896.18	0.0135	0.0059
Venus	27880-04-11 18:14 G	11904122.05	11904122.26	11904122.48	0.0135	0.0026
Venus	27880-11-24 00:57 G	11904348.32	11904348.54	11904348.76	0.0135	0.0006
Venus	27881-07-08 07:26 G	11904574.60	11904574.81	11904575.02	0.0135	0.0038
Venus	27882-02-19 13:26 G	11904800.89	11904801.06	11904801.26	0.0135	0.0070
Venus	27882-10-03 19:41 G	11905027.19	11905027.32	11905027.47	0.0134	0.0101
Venus	27883-05-18 02:09 G	11905253.55	11905253.59	11905253.62	0.0134	0.0132

Mercury	27888-09-30 00:14 G	11907215.44	11907215.51	11907215.62	0.0133	0.0114
Mercury	27888-12-27 06:14 G	11907303.64	11907303.76	11907303.89	0.0133	0.0092
Mercury	27889-03-25 11:45 G	11907391.85	11907391.99	11907392.15	0.0133	0.0071
Mercury	27889-06-21 17:31 G	11907480.07	11907480.23	11907480.39	0.0133	0.0049
Mercury	27889-09-17 23:02 G	11907568.29	11907568.46	11907568.63	0.0133	0.0028
Mercury	27889-12-15 04:33 G	11907656.52	11907656.69	11907656.87	0.0133	0.0007
Mercury	27890-03-13 10:05 G	11907744.75	11907744.92	11907745.09	0.0133	0.0014
Mercury	27890-06-09 15:21 G	11907832.98	11907833.14	11907833.31	0.0133	0.0035
Mercury	27890-09-05 20:38 G	11907921.22	11907921.36	11907921.53	0.0133	0.0056
Mercury	27890-12-03 02:09 G	11908009.46	11908009.59	11908009.73	0.0133	0.0076
Mercury	27891-03-01 07:26 G	11908097.70	11908097.81	11908097.93	0.0133	0.0096
Mercury	27891-05-28 12:43 G	11908185.95	11908186.03	11908186.11	0.0133	0.0116
Mars	27896-04-08 01:12 G	11909962.32	11909962.55	11909962.82	0.0133	0.0068
Earth	27917-01-07 04:33 G	11917540.52	11917540.69	11917540.90	0.0140	0.0092
Moon	27917-01-07 08:09 G	11917540.68	11917540.84	11917541.03	0.0140	0.0098 *
Moon	27918-01-11 19:41 G	11917910.06	11917910.32	11917910.57	0.0140	0.0016
Earth	27918-01-11 22:48 G	11917910.20	11917910.45	11917910.71	0.0140	0.0020 *
Earth	27919-01-16 17:17 G	11918279.99	11918280.22	11918280.46	0.0141	0.0054
Moon	27919-01-16 20:09 G	11918280.11	11918280.34	11918280.57	0.0141	0.0055 *
Moon	27920-01-21 09:36 G	11918649.79	11918649.90	11918650.04	0.0141	0.0124
Earth	27920-01-21 12:29 G	11918649.93	11918650.02	11918650.14	0.0141	0.0128 *
Venus	27922-05-29 01:55 G	11919508.52	11919508.58	11919508.65	0.0142	0.0135
Venus	27923-01-10 12:14 G	11919734.87	11919735.01	11919735.18	0.0143	0.0098
Venus	27923-08-24 23:02 G	11919961.27	11919961.46	11919961.66	0.0143	0.0060
Venus	27924-04-07 10:05 G	11920187.70	11920187.92	11920188.13	0.0143	0.0022
Venus	27924-11-19 21:07 G	11920414.16	11920414.38	11920414.60	0.0143	0.0016
Venus	27925-07-04 07:55 G	11920640.64	11920640.83	11920641.04	0.0144	0.0055
Venus	27926-02-15 19:12 G	11920867.14	11920867.30	11920867.47	0.0144	0.0093
Venus	27926-09-30 06:29 G	11921093.69	11921093.77	11921093.87	0.0144	0.0132
Mercury	27931-03-26 08:24 G	11922731.79	11922731.85	11922731.92	0.0145	0.0126

Mercury	27931-06-22 12:43 G	11922819.94	11922820.03	11922820.13	0.0145	0.0104
Mercury	27931-09-18 17:17 G	11922908.10	11922908.22	11922908.33	0.0145	0.0082
Mercury	27931-12-15 21:36 G	11922996.27	11922996.40	11922996.53	0.0145	0.0059
Mercury	27932-03-13 01:55 G	11923084.44	11923084.58	11923084.72	0.0145	0.0037
Mercury	27932-06-09 06:29 G	11923172.62	11923172.77	11923172.91	0.0145	0.0014
Mercury	27932-09-05 10:48 G	11923260.81	11923260.95	11923261.10	0.0145	0.0010
Mercury	27932-12-02 15:21 G	11923349.00	11923349.14	11923349.28	0.0145	0.0032
Mercury	27933-02-28 19:55 G	11923437.20	11923437.33	11923437.47	0.0146	0.0055
Mercury	27933-05-28 00:29 G	11923525.40	11923525.52	11923525.65	0.0146	0.0079
Mercury	27933-08-24 05:02 G	11923613.62	11923613.71	11923613.82	0.0146	0.0103
Mercury	27933-11-20 09:36 G	11923701.84	11923701.90	11923701.98	0.0146	0.0127
Mars	27936-07-26 11:45 G	11924680.78	11924680.99	11924681.25	0.0146	0.0100
Moon	27956-07-08 05:17 G	11931967.52	11931967.72	11931967.92	0.0139	0.0090
Earth	27956-07-08 07:55 G	11931967.65	11931967.83	11931968.03	0.0139	0.0090 *
Earth	27957-07-12 22:05 G	11932337.18	11932337.42	11932337.68	0.0138	0.0022
Moon	27957-07-13 00:57 G	11932337.30	11932337.54	11932337.79	0.0138	0.0016 *
Moon	27958-07-17 08:53 G	11932706.63	11932706.87	11932707.13	0.0138	0.0043
Earth	27958-07-17 11:45 G	11932706.76	11932706.99	11932707.23	0.0138	0.0048 *
Earth	27959-07-22 00:14 G	11933076.39	11933076.51	11933076.66	0.0137	0.0115
Moon	27959-07-22 02:24 G	11933076.50	11933076.60	11933076.72	0.0137	0.0123 *
Venus	27962-02-01 08:24 G	11934001.84	11934001.85	11934001.89	0.0136	0.0136
Venus	27962-09-15 15:36 G	11934228.02	11934228.15	11934228.30	0.0136	0.0103
Venus	27963-04-29 22:33 G	11934454.27	11934454.44	11934454.64	0.0136	0.0071
Venus	27963-12-12 05:45 G	11934680.53	11934680.74	11934680.95	0.0135	0.0038
Venus	27964-07-25 12:14 G	11934906.80	11934907.01	11934907.23	0.0135	0.0006
Venus	27965-03-08 18:43 G	11935133.07	11935133.28	11935133.50	0.0135	0.0027
Venus	27965-10-21 01:12 G	11935359.35	11935359.55	11935359.75	0.0135	0.0058
Venus	27966-06-04 07:26 G	11935585.66	11935585.81	11935585.98	0.0135	0.0090
Venus	27967-01-16 13:26 G	11935811.98	11935812.06	11935812.17	0.0134	0.0121
Mercury	27972-07-25 02:38 G	11937828.57	11937828.61	11937828.67	0.0133	0.0127

Mercury	27972-10-21 08:24 G	11937916.75	11937916.85	11937916.97	0.0133	0.0105
Mercury	27973-01-17 14:09 G	11938004.96	11938005.09	11938005.23	0.0133	0.0083
Mercury	27973-04-15 19:41 G	11938093.18	11938093.32	11938093.49	0.0133	0.0062
Mercury	27973-07-13 01:26 G	11938181.40	11938181.56	11938181.73	0.0133	0.0041
Mercury	27973-10-09 07:12 G	11938269.63	11938269.80	11938269.97	0.0133	0.0019
Mercury	27974-01-05 12:43 G	11938357.85	11938358.03	11938358.20	0.0133	0.0003
Mercury	27974-04-03 18:00 G	11938446.08	11938446.25	11938446.42	0.0133	0.0023
Mercury	27974-06-30 23:17 G	11938534.32	11938534.47	11938534.64	0.0133	0.0044
Mercury	27974-09-27 04:48 G	11938622.55	11938622.70	11938622.85	0.0133	0.0064
Mercury	27974-12-24 10:05 G	11938710.80	11938710.92	11938711.06	0.0133	0.0085
Mercury	27975-03-22 15:21 G	11938799.04	11938799.14	11938799.25	0.0133	0.0105
Mercury	27975-06-18 20:38 G	11938887.31	11938887.36	11938887.42	0.0133	0.0125
Mars	27979-01-02 20:24 G	11940181.10	11940181.35	11940181.64	0.0133	0.0054

29TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 29th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	28001-01-07 16:19 G	11948222.00	11948222.18	11948222.39	0.0140	0.0088		
Moon	28001-01-07 19:55 G	11948222.13	11948222.33	11948222.54	0.0140	0.0081	*	
Moon	28002-01-12 06:43 G	11948591.53	11948591.78	11948592.04	0.0140	0.0019		
Earth	28002-01-12 10:19 G	11948591.68	11948591.93	11948592.19	0.0140	0.0015	*	
Earth	28003-01-17 04:33 G	11948961.47	11948961.69	11948961.93	0.0141	0.0058		
Moon	28003-01-17 07:55 G	11948961.62	11948961.83	11948962.07	0.0141	0.0059	*	

Moon	28004-01-21 21:07 G	11949331.32	11949331.38	11949331.46	0.0141	0.0136
Earth	28004-01-22 00:00 G	11949331.42	11949331.50	11949331.60	0.0141	0.0132 *
Venus	28006-09-09 19:55 G	11950293.21	11950293.33	11950293.47	0.0142	0.0113
Venus	28007-04-24 06:29 G	11950519.60	11950519.77	11950519.96	0.0143	0.0076
Venus	28007-12-06 17:31 G	11950746.02	11950746.23	11950746.44	0.0143	0.0038
Venus	28008-07-20 04:19 G	11950972.46	11950972.68	11950972.90	0.0143	0.0000
Venus	28009-03-03 15:07 G	11951198.93	11951199.13	11951199.34	0.0144	0.0038
Venus	28009-10-16 01:55 G	11951425.41	11951425.58	11951425.78	0.0144	0.0077
Venus	28010-05-30 13:12 G	11951651.94	11951652.05	11951652.20	0.0144	0.0115
Mercury	28015-01-17 11:17 G	11953344.96	11953344.97	11953345.01	0.0145	0.0143
Mercury	28015-04-15 15:36 G	11953433.08	11953433.15	11953433.24	0.0145	0.0121
Mercury	28015-07-12 19:55 G	11953521.24	11953521.33	11953521.44	0.0145	0.0099
Mercury	28015-10-09 00:14 G	11953609.40	11953609.51	11953609.64	0.0145	0.0077
Mercury	28016-01-05 04:48 G	11953697.57	11953697.70	11953697.84	0.0145	0.0054
Mercury	28016-04-02 09:21 G	11953785.75	11953785.89	11953786.03	0.0145	0.0031
Mercury	28016-06-29 13:41 G	11953873.93	11953874.07	11953874.22	0.0145	0.0008
Mercury	28016-09-25 18:14 G	11953962.12	11953962.26	11953962.40	0.0145	0.0015
Mercury	28016-12-22 22:48 G	11954050.31	11954050.45	11954050.59	0.0145	0.0038
Mercury	28017-03-21 03:21 G	11954138.51	11954138.64	11954138.77	0.0146	0.0062
Mercury	28017-06-17 07:41 G	11954226.71	11954226.82	11954226.95	0.0146	0.0086
Mercury	28017-09-13 12:29 G	11954314.93	11954315.02	11954315.12	0.0146	0.0109
Mercury	28017-12-10 17:02 G	11954403.16	11954403.21	11954403.28	0.0146	0.0133
Mars	28021-03-22 16:48 G	11955600.88	11955601.20	11955601.53	0.0146	0.0014
Moon	28040-07-08 16:05 G	11962648.99	11962649.17	11962649.39	0.0139	0.0087
Earth	28040-07-08 19:55 G	11962649.13	11962649.33	11962649.53	0.0139	0.0086 *
Earth	28041-07-13 10:05 G	11963018.67	11963018.92	11963019.18	0.0138	0.0017
Moon	28041-07-13 13:12 G	11963018.80	11963019.05	11963019.29	0.0138	0.0019 *
Moon	28042-07-17 20:38 G	11963388.14	11963388.36	11963388.61	0.0138	0.0059
Earth	28042-07-17 23:45 G	11963388.26	11963388.49	11963388.73	0.0138	0.0052 *
Earth	28043-07-22 12:43 G	11963757.91	11963758.03	11963758.16	0.0137	0.0120

Moon	28043-07-22 15:07 G	11963758.02	11963758.13	11963758.29	0.0137	0.0114 *
Venus	28046-05-16 01:55 G	11964786.48	11964786.58	11964786.71	0.0136	0.0115
Venus	28046-12-28 09:21 G	11965012.72	11965012.89	11965013.07	0.0136	0.0082
Venus	28047-08-11 16:19 G	11965238.98	11965239.18	11965239.38	0.0136	0.0050
Venus	28048-03-24 23:02 G	11965465.24	11965465.46	11965465.68	0.0135	0.0017
Venus	28048-11-06 05:45 G	11965691.52	11965691.74	11965691.96	0.0135	0.0015
Venus	28049-06-20 12:14 G	11965917.81	11965918.01	11965918.22	0.0135	0.0047
Venus	28050-02-01 18:29 G	11966144.10	11966144.27	11966144.46	0.0135	0.0078
Venus	28050-09-16 00:29 G	11966370.41	11966370.52	11966370.66	0.0135	0.0110
Mercury	28056-08-14 10:33 G	11968529.87	11968529.94	11968530.03	0.0133	0.0119
Mercury	28056-11-10 16:33 G	11968618.07	11968618.19	11968618.31	0.0133	0.0096
Mercury	28057-02-06 22:05 G	11968706.28	11968706.42	11968706.57	0.0133	0.0075
Mercury	28057-05-06 03:50 G	11968794.50	11968794.66	11968794.82	0.0133	0.0053
Mercury	28057-08-02 09:21 G	11968882.73	11968882.89	11968883.06	0.0133	0.0032
Mercury	28057-10-29 15:07 G	11968970.95	11968971.13	11968971.30	0.0133	0.0011
Mercury	28058-01-25 20:38 G	11969059.18	11969059.36	11969059.53	0.0133	0.0011
Mercury	28058-04-24 01:55 G	11969147.42	11969147.58	11969147.75	0.0133	0.0031
Mercury	28058-07-21 07:26 G	11969235.65	11969235.81	11969235.97	0.0133	0.0052
Mercury	28058-10-17 12:43 G	11969323.89	11969324.03	11969324.18	0.0133	0.0073
Mercury	28059-01-13 18:00 G	11969412.14	11969412.25	11969412.38	0.0133	0.0093
Mercury	28059-04-11 23:31 G	11969500.39	11969500.48	11969500.57	0.0133	0.0113
Mars	28063-08-28 10:48 G	11971099.67	11971099.95	11971100.24	0.0133	0.0029
Earth	28085-01-08 04:19 G	11978903.49	11978903.68	11978903.90	0.0140	0.0083
Moon	28085-01-08 08:09 G	11978903.66	11978903.84	11978904.05	0.0140	0.0090 *
Moon	28086-01-12 18:57 G	11979273.04	11979273.29	11979273.55	0.0140	0.0006
Earth	28086-01-12 22:33 G	11979273.19	11979273.44	11979273.69	0.0140	0.0011 *
Earth	28087-01-17 16:33 G	11979642.98	11979643.19	11979643.44	0.0141	0.0063
Moon	28087-01-17 20:09 G	11979643.13	11979643.34	11979643.58	0.0141	0.0063 *
Moon	28088-01-22 08:24 G	11980012.78	11980012.85	11980012.94	0.0141	0.0134
Earth	28088-01-22 11:45 G	11980012.94	11980012.99	11980013.07	0.0141	0.0136 *

Venus	28090-05-10 04:05 G	11980851.59	11980851.67	11980851.78	0.0142	0.0127
Venus	28090-12-22 14:38 G	11981077.95	11981078.11	11981078.28	0.0143	0.0091
Venus	28091-08-06 00:57 G	11981304.35	11981304.54	11981304.75	0.0143	0.0054
Venus	28092-03-19 11:45 G	11981530.78	11981530.99	11981531.21	0.0143	0.0016
Venus	28092-10-31 22:33 G	11981757.23	11981757.44	11981757.66	0.0143	0.0023
Venus	28093-06-15 09:21 G	11981983.71	11981983.89	11981984.10	0.0144	0.0061
Venus	28094-01-27 20:24 G	11982210.21	11982210.35	11982210.52	0.0144	0.0099
Venus	28094-09-11 07:26 G	11982436.77	11982436.81	11982436.90	0.0144	0.0137
Mercury	28099-02-06 18:43 G	11984046.25	11984046.28	11984046.34	0.0145	0.0136
Mercury	28099-05-05 23:02 G	11984134.38	11984134.46	11984134.56	0.0145	0.0114
Mercury	28099-08-02 03:21 G	11984222.54	11984222.64	11984222.76	0.0145	0.0092
Mercury	28099-10-29 07:55 G	11984310.71	11984310.83	11984310.95	0.0145	0.0070
Mercury	28100-01-25 12:14 G	11984398.88	11984399.01	11984399.15	0.0145	0.0047
Mercury	28100-04-23 16:48 G	11984487.06	11984487.20	11984487.34	0.0145	0.0025
Mercury	28100-07-20 21:07 G	11984575.24	11984575.38	11984575.53	0.0145	0.0003
Mercury	28100-10-17 01:41 G	11984663.43	11984663.57	11984663.71	0.0145	0.0021
Mercury	28101-01-13 06:14 G	11984751.62	11984751.76	11984751.89	0.0145	0.0045
Mercury	28101-04-11 10:48 G	11984839.82	11984839.95	11984840.08	0.0146	0.0068
Mercury	28101-07-08 15:21 G	11984928.03	11984928.14	11984928.25	0.0146	0.0092
Mercury	28101-10-04 19:41 G	11985016.25	11985016.32	11985016.42	0.0146	0.0116
Mercury	28102-01-01 00:43 G	11985104.49	11985104.53	11985104.57	0.0146	0.0139
Mars	28105-11-17 21:36 G	11986521.29	11986521.40	11986521.57	0.0146	0.0131
Moon	28124-07-10 04:33 G	11993330.50	11993330.69	11993330.92	0.0139	0.0081
Earth	28124-07-10 07:55 G	11993330.65	11993330.83	11993331.05	0.0139	0.0082 *
Earth	28125-07-14 22:48 G	11993700.20	11993700.45	11993700.70	0.0138	0.0012
Moon	28125-07-15 02:09 G	11993700.34	11993700.59	11993700.84	0.0138	0.0009 *
Moon	28126-07-19 09:07 G	11994069.65	11994069.88	11994070.13	0.0138	0.0053
Earth	28126-07-19 12:43 G	11994069.80	11994070.03	11994070.26	0.0138	0.0057 *
Earth	28127-07-24 01:41 G	11994439.48	11994439.57	11994439.68	0.0137	0.0125
Moon	28127-07-24 04:19 G	11994439.63	11994439.68	11994439.76	0.0137	0.0133 *

Venus	28130-01-14 12:57 G	11995344.97	11995345.04	11995345.13	0.0136	0.0127
Venus	28130-08-28 20:09 G	11995571.19	11995571.34	11995571.50	0.0136	0.0094
Venus	28131-04-12 03:07 G	11995797.45	11995797.63	11995797.84	0.0136	0.0062
Venus	28131-11-24 10:19 G	11996023.72	11996023.93	11996024.14	0.0136	0.0029
Venus	28132-07-07 17:02 G	11996250.00	11996250.21	11996250.43	0.0135	0.0004
Venus	28133-02-18 23:31 G	11996476.28	11996476.48	11996476.70	0.0135	0.0035
Venus	28133-10-03 05:45 G	11996702.56	11996702.74	11996702.94	0.0135	0.0067
Venus	28134-05-17 12:14 G	11996928.87	11996929.01	11996929.17	0.0135	0.0098
Venus	28134-12-29 18:29 G	11997155.22	11997155.27	11997155.33	0.0135	0.0129
Mercury	28140-06-08 12:43 G	11999143.02	11999143.03	11999143.08	0.0133	0.0132
Mercury	28140-09-04 18:43 G	11999231.19	11999231.28	11999231.39	0.0133	0.0109
Mercury	28140-12-02 00:29 G	11999319.40	11999319.52	11999319.66	0.0133	0.0087
Mercury	28141-02-28 06:00 G	11999407.61	11999407.75	11999407.92	0.0133	0.0066
Mercury	28141-05-27 12:00 G	11999495.84	11999496.00	11999496.16	0.0133	0.0044
Mercury	28141-08-23 17:31 G	11999584.06	11999584.23	11999584.40	0.0133	0.0023
Mercury	28141-11-19 23:02 G	11999672.29	11999672.46	11999672.64	0.0133	0.0004
Mercury	28142-02-16 04:33 G	11999760.52	11999760.69	11999760.86	0.0133	0.0020
Mercury	28142-05-15 10:05 G	11999848.76	11999848.92	11999849.09	0.0133	0.0040
Mercury	28142-08-11 15:36 G	11999937.00	11999937.15	11999937.30	0.0133	0.0061
Mercury	28142-11-07 20:38 G	12000025.24	12000025.36	12000025.51	0.0133	0.0082
Mercury	28143-02-04 02:09 G	12000113.49	12000113.59	12000113.70	0.0133	0.0102
Mercury	28143-05-03 07:26 G	12000201.75	12000201.81	12000201.88	0.0133	0.0122
Mars	28146-05-24 05:02 G	12001318.52	12001318.71	12001318.94	0.0133	0.0094
Mars	28148-04-22 23:31 G	12002018.35	12002018.48	12002018.66	0.0133	0.0113
Earth	28169-01-09 19:26 G	12009585.12	12009585.31	12009585.54	0.0140	0.0077
Moon	28169-01-09 23:02 G	12009585.25	12009585.46	12009585.69	0.0140	0.0070 *
Moon	28170-01-14 10:05 G	12009954.67	12009954.92	12009955.17	0.0140	0.0009
Earth	28170-01-14 13:55 G	12009954.82	12009955.08	12009955.33	0.0140	0.0005 *
Earth	28171-01-19 08:09 G	12010324.62	12010324.84	12010325.07	0.0141	0.0069
Moon	28171-01-19 11:45 G	12010324.78	12010324.99	12010325.22	0.0141	0.0071 *

Venus	28174-01-08 14:38 G	12011410.08	12011410.11	12011410.16	0.0142	0.0139
Venus	28174-08-23 00:43 G	12011636.40	12011636.53	12011636.69	0.0142	0.0103
Venus	28175-04-06 11:02 G	12011862.79	12011862.96	12011863.17	0.0143	0.0067
Venus	28175-11-18 22:05 G	12012089.21	12012089.42	12012089.63	0.0143	0.0029
Venus	28176-07-02 08:53 G	12012315.65	12012315.87	12012316.09	0.0143	0.0009
Venus	28177-02-13 19:26 G	12012542.11	12012542.31	12012542.52	0.0143	0.0047
Venus	28177-09-28 06:14 G	12012768.60	12012768.76	12012768.95	0.0144	0.0085
Venus	28178-05-12 17:17 G	12012995.13	12012995.22	12012995.35	0.0144	0.0123
Mercury	28183-02-28 03:07 G	12014747.57	12014747.63	12014747.70	0.0145	0.0126
Mercury	28183-05-27 07:26 G	12014835.72	12014835.81	12014835.91	0.0145	0.0104
Mercury	28183-08-23 11:45 G	12014923.88	12014923.99	12014924.11	0.0145	0.0082
Mercury	28183-11-19 16:19 G	12015012.05	12015012.18	12015012.30	0.0145	0.0060
Mercury	28184-02-15 20:38 G	12015100.22	12015100.36	12015100.50	0.0145	0.0037
Mercury	28184-05-14 00:57 G	12015188.40	12015188.54	12015188.68	0.0145	0.0015
Mercury	28184-08-10 05:31 G	12015276.58	12015276.73	12015276.87	0.0145	0.0009
Mercury	28184-11-06 09:50 G	12015364.77	12015364.91	12015365.06	0.0145	0.0032
Mercury	28185-02-02 14:24 G	12015452.97	12015453.10	12015453.24	0.0145	0.0055
Mercury	28185-05-01 18:57 G	12015541.17	12015541.29	12015541.42	0.0146	0.0078
Mercury	28185-07-28 23:45 G	12015629.38	12015629.49	12015629.59	0.0146	0.0102
Mercury	28185-10-25 04:05 G	12015717.61	12015717.67	12015717.75	0.0146	0.0126
Mars	28188-08-08 16:33 G	12016735.91	12016736.19	12016736.50	0.0146	0.0055
Moon	28208-07-11 18:29 G	12024012.07	12024012.27	12024012.49	0.0139	0.0078
Earth	28208-07-11 22:19 G	12024012.23	12024012.43	12024012.65	0.0139	0.0076 *
Earth	28209-07-16 12:57 G	12024381.78	12024382.04	12024382.29	0.0138	0.0006
Moon	28209-07-16 16:19 G	12024381.93	12024382.18	12024382.43	0.0138	0.0008 *
Moon	28210-07-20 23:02 G	12024751.26	12024751.46	12024751.70	0.0138	0.0069
Earth	28210-07-21 02:38 G	12024751.40	12024751.61	12024751.85	0.0138	0.0063 *
Earth	28211-07-25 15:50 G	12025121.10	12025121.16	12025121.25	0.0137	0.0131
Moon	28211-07-25 19:26 G	12025121.21	12025121.31	12025121.43	0.0137	0.0124 *
Venus	28214-04-29 07:26 G	12026129.69	12026129.81	12026129.96	0.0136	0.0105

Venus	28214-12-11 14:38 G	12026355.94	12026356.11	12026356.31	0.0136	0.0073
Venus	28215-07-25 21:50 G	12026582.20	12026582.41	12026582.62	0.0136	0.0040
Venus	28216-03-08 04:33 G	12026808.48	12026808.69	12026808.91	0.0135	0.0008
Venus	28216-10-20 11:17 G	12027034.76	12027034.97	12027035.19	0.0135	0.0024
Venus	28217-06-03 17:45 G	12027261.05	12027261.24	12027261.45	0.0135	0.0056
Venus	28218-01-16 00:14 G	12027487.35	12027487.51	12027487.68	0.0135	0.0087
Venus	28218-08-30 06:29 G	12027713.67	12027713.77	12027713.87	0.0135	0.0118
Mercury	28224-06-29 21:07 G	12029844.32	12029844.38	12029844.46	0.0133	0.0122
Mercury	28224-09-26 03:07 G	12029932.52	12029932.63	12029932.75	0.0133	0.0099
Mercury	28224-12-23 08:53 G	12030020.73	12030020.87	12030021.01	0.0133	0.0078
Mercury	28225-03-21 14:24 G	12030108.95	12030109.10	12030109.27	0.0133	0.0056
Mercury	28225-06-17 20:09 G	12030197.18	12030197.34	12030197.51	0.0133	0.0034
Mercury	28225-09-14 01:55 G	12030285.40	12030285.58	12030285.75	0.0133	0.0013
Mercury	28225-12-11 07:26 G	12030373.64	12030373.81	12030373.98	0.0133	0.0008
Mercury	28226-03-09 12:57 G	12030461.87	12030462.04	12030462.21	0.0133	0.0029
Mercury	28226-06-05 18:14 G	12030550.11	12030550.26	12030550.42	0.0133	0.0050
Mercury	28226-09-01 23:31 G	12030638.35	12030638.48	12030638.64	0.0133	0.0071
Mercury	28226-11-29 05:02 G	12030726.59	12030726.71	12030726.84	0.0133	0.0091
Mercury	28227-02-25 10:05 G	12030814.85	12030814.92	12030815.03	0.0133	0.0112
Mercury	28227-05-24 15:21 G	12030903.14	12030903.14	12030903.18	0.0133	0.0132
Mars	28231-01-17 20:24 G	12032237.06	12032237.35	12032237.65	0.0133	0.0009
Moon	28252-01-07 12:57 G	12039897.01	12039897.04	12039897.12	0.0139	0.0136
Earth	28253-01-11 09:21 G	12040266.68	12040266.89	12040267.12	0.0140	0.0071
Moon	28253-01-11 12:57 G	12040266.84	12040267.04	12040267.26	0.0140	0.0078 *
Moon	28254-01-16 00:00 G	12040636.25	12040636.50	12040636.76	0.0140	0.0008
Earth	28254-01-16 03:21 G	12040636.39	12040636.64	12040636.90	0.0140	0.0003 *
Earth	28255-01-20 21:50 G	12041006.20	12041006.41	12041006.63	0.0141	0.0075
Moon	28255-01-21 01:12 G	12041006.35	12041006.55	12041006.78	0.0141	0.0075 *
Venus	28258-04-23 10:19 G	12042194.81	12042194.93	12042195.05	0.0142	0.0117
Venus	28258-12-05 20:24 G	12042421.18	12042421.35	12042421.54	0.0143	0.0081

Venus	28259-07-20 07:12 G	12042647.59	12042647.80	12042648.01	0.0143	0.0043
Venus	28260-03-02 17:45 G	12042874.02	12042874.24	12042874.46	0.0143	0.0006
Venus	28260-10-15 04:19 G	12043100.47	12043100.68	12043100.90	0.0143	0.0032
Venus	28261-05-29 15:21 G	12043326.95	12043327.14	12043327.33	0.0144	0.0070
Venus	28262-01-11 02:24 G	12043553.46	12043553.60	12043553.75	0.0144	0.0108
Mercury	28266-12-23 06:57 G	12045360.76	12045360.79	12045360.83	0.0145	0.0139
Mercury	28267-03-21 11:17 G	12045448.89	12045448.97	12045449.05	0.0145	0.0117
Mercury	28267-06-17 15:21 G	12045537.04	12045537.14	12045537.25	0.0145	0.0096
Mercury	28267-09-13 19:41 G	12045625.21	12045625.32	12045625.45	0.0145	0.0074
Mercury	28267-12-11 00:14 G	12045713.38	12045713.51	12045713.64	0.0145	0.0051
Mercury	28268-03-08 04:33 G	12045801.55	12045801.69	12045801.83	0.0145	0.0028
Mercury	28268-06-04 09:07 G	12045889.73	12045889.88	12045890.02	0.0145	0.0006
Mercury	28268-08-31 13:26 G	12045977.92	12045978.06	12045978.21	0.0145	0.0018
Mercury	28268-11-27 18:00 G	12046066.11	12046066.25	12046066.39	0.0145	0.0041
Mercury	28269-02-23 22:19 G	12046154.31	12046154.43	12046154.57	0.0146	0.0065
Mercury	28269-05-23 03:07 G	12046242.51	12046242.63	12046242.74	0.0146	0.0088
Mercury	28269-08-19 07:26 G	12046330.73	12046330.81	12046330.91	0.0146	0.0112
Mercury	28269-11-15 12:14 G	12046418.96	12046419.01	12046419.07	0.0146	0.0135
Mars	28273-04-06 04:19 G	12047656.42	12047656.68	12047656.99	0.0146	0.0067
Moon	28292-07-12 09:36 G	12054693.69	12054693.90	12054694.13	0.0139	0.0068
Earth	28292-07-12 12:57 G	12054693.84	12054694.04	12054694.27	0.0139	0.0070 *
Earth	28293-07-17 03:50 G	12055063.41	12055063.66	12055063.92	0.0138	0.0001
Moon	28293-07-17 07:41 G	12055063.57	12055063.82	12055064.07	0.0138	0.0003 *
Moon	28294-07-21 14:24 G	12055432.88	12055433.10	12055433.32	0.0138	0.0065
Earth	28294-07-21 17:31 G	12055433.03	12055433.23	12055433.47	0.0138	0.0070 *
Earth	28295-07-26 06:57 G	12055802.79	12055802.79	12055802.82	0.0137	0.0137
Venus	28297-12-27 19:12 G	12056688.20	12056688.30	12056688.43	0.0136	0.0116
Venus	28298-08-11 02:38 G	12056914.44	12056914.61	12056914.79	0.0136	0.0083
Venus	28299-03-25 09:36 G	12057140.71	12057140.90	12057141.11	0.0136	0.0051
Venus	28299-11-06 16:33 G	12057366.98	12057367.19	12057367.41	0.0136	0.0019

Venus	28300-06-20 23:31 G	12057593.26	12057593.48	12057593.70	0.0135	0.0013
Venus	28301-02-02 05:45 G	12057819.55	12057819.74	12057819.96	0.0135	0.0045
Venus	28301-09-16 12:14 G	12058045.84	12058046.01	12058046.20	0.0135	0.0076
Venus	28302-04-30 18:14 G	12058272.15	12058272.26	12058272.41	0.0135	0.0108
Mercury	28308-04-24 00:00 G	12060457.50	12060457.50	12060457.50	0.0133	0.0133
Mercury	28308-07-21 05:31 G	12060545.65	12060545.73	12060545.84	0.0133	0.0111
Mercury	28308-10-17 11:17 G	12060633.85	12060633.97	12060634.11	0.0133	0.0090
Mercury	28309-01-13 17:17 G	12060722.07	12060722.22	12060722.37	0.0133	0.0067
Mercury	28309-04-11 22:48 G	12060810.29	12060810.45	12060810.62	0.0133	0.0046
Mercury	28309-07-09 04:33 G	12060898.52	12060898.69	12060898.86	0.0133	0.0024
Mercury	28309-10-05 10:05 G	12060986.75	12060986.92	12060987.10	0.0133	0.0005
Mercury	28310-01-01 15:50 G	12061074.99	12061075.16	12061075.33	0.0133	0.0018
Mercury	28310-03-30 21:07 G	12061163.22	12061163.38	12061163.55	0.0133	0.0039
Mercury	28310-06-27 02:38 G	12061251.46	12061251.61	12061251.77	0.0133	0.0060
Mercury	28310-09-23 07:55 G	12061339.70	12061339.83	12061339.97	0.0133	0.0081
Mercury	28310-12-20 13:12 G	12061427.95	12061428.05	12061428.17	0.0133	0.0101
Mercury	28311-03-18 18:43 G	12061516.22	12061516.28	12061516.35	0.0133	0.0121
Mars	28315-09-13 11:17 G	12063155.75	12063155.97	12063156.23	0.0133	0.0076
Earth	28336-01-09 06:43 G	12070578.73	12070578.78	12070578.84	0.0139	0.0136
Jupiter	28336-08-18 12:29 G	12070800.79	12070801.02	12070801.27	0.0139	0.0122
Earth	28337-01-12 23:45 G	12070948.27	12070948.49	12070948.72	0.0140	0.0065
Moon	28337-01-13 02:38 G	12070948.38	12070948.61	12070948.86	0.0140	0.0058 *
Moon	28338-01-17 14:09 G	12071317.84	12071318.09	12071318.35	0.0140	0.0004
Earth	28338-01-17 17:45 G	12071317.99	12071318.24	12071318.50	0.0140	0.0008 *
Earth	28339-01-22 12:00 G	12071687.80	12071688.00	12071688.21	0.0141	0.0081
Moon	28339-01-22 15:21 G	12071687.94	12071688.14	12071688.35	0.0141	0.0084 *
Venus	28341-12-22 20:09 G	12072753.25	12072753.34	12072753.43	0.0142	0.0129
Venus	28342-08-06 06:00 G	12072979.60	12072979.75	12072979.93	0.0142	0.0094
Venus	28343-03-20 16:33 G	12073206.00	12073206.19	12073206.39	0.0143	0.0057
Venus	28343-11-02 03:07 G	12073432.42	12073432.63	12073432.85	0.0143	0.0020

Venus	28344-06-15 13:55 G	12073658.86	12073659.08	12073659.30	0.0143	0.0018
Venus	28345-01-28 00:43 G	12073885.33	12073885.53	12073885.73	0.0143	0.0056
Venus	28345-09-11 11:31 G	12074111.83	12074111.98	12074112.15	0.0144	0.0094
Venus	28346-04-25 22:33 G	12074338.37	12074338.44	12074338.54	0.0144	0.0132
Mercury	28351-01-13 14:53 G	12076062.07	12076062.12	12076062.19	0.0145	0.0130
Mercury	28351-04-11 19:12 G	12076150.22	12076150.30	12076150.40	0.0145	0.0108
Mercury	28351-07-08 23:45 G	12076238.38	12076238.49	12076238.60	0.0145	0.0086
Mercury	28351-10-05 04:05 G	12076326.54	12076326.67	12076326.80	0.0145	0.0063
Mercury	28352-01-01 08:24 G	12076414.72	12076414.85	12076414.99	0.0145	0.0041
Mercury	28352-03-29 12:57 G	12076502.89	12076503.04	12076503.18	0.0145	0.0019
Mercury	28352-06-25 17:17 G	12076591.08	12076591.22	12076591.36	0.0145	0.0005
Mercury	28352-09-21 21:50 G	12076679.27	12076679.41	12076679.55	0.0145	0.0028
Mercury	28352-12-19 02:09 G	12076767.46	12076767.59	12076767.73	0.0146	0.0051
Mercury	28353-03-17 06:43 G	12076855.66	12076855.78	12076855.91	0.0146	0.0074
Mercury	28353-06-13 11:17 G	12076943.87	12076943.97	12076944.08	0.0146	0.0098
Mercury	28353-09-09 15:50 G	12077032.09	12077032.16	12077032.25	0.0146	0.0122
Mercury	28353-12-06 20:38 G	12077120.36	12077120.36	12077120.37	0.0146	0.0145
Mars	28355-12-28 03:36 G	12077871.48	12077871.65	12077871.86	0.0146	0.0118
Earth	28375-07-10 12:57 G	12085005.99	12085006.04	12085006.13	0.0139	0.0134
Moon	28375-07-10 16:19 G	12085006.11	12085006.18	12085006.29	0.0139	0.0130 *
Moon	28376-07-14 00:57 G	12085375.33	12085375.54	12085375.77	0.0139	0.0066
Earth	28376-07-14 04:48 G	12085375.48	12085375.70	12085375.93	0.0139	0.0063 *
Earth	28377-07-18 19:12 G	12085745.05	12085745.30	12085745.56	0.0138	0.0008
Moon	28377-07-18 22:48 G	12085745.20	12085745.45	12085745.71	0.0138	0.0006 *
Moon	28378-07-23 05:31 G	12086114.54	12086114.73	12086114.95	0.0138	0.0081
Earth	28378-07-23 09:07 G	12086114.68	12086114.88	12086115.11	0.0138	0.0076 *
Moon	28379-07-28 02:24 G	12086484.58	12086484.60	12086484.62	0.0137	0.0137
Venus	28381-08-28 07:12 G	12087246.73	12087246.80	12087246.89	0.0136	0.0127
Venus	28382-04-11 14:24 G	12087472.96	12087473.10	12087473.27	0.0136	0.0094
Venus	28382-11-23 21:36 G	12087699.21	12087699.40	12087699.60	0.0136	0.0062

Venus	28383-07-08 04:33 G	12087925.49	12087925.69	12087925.91	0.0136	0.0030
Venus	28384-02-19 11:31 G	12088151.76	12088151.98	12088152.20	0.0135	0.0003
Venus	28384-10-02 18:00 G	12088378.04	12088378.25	12088378.47	0.0135	0.0034
Venus	28385-05-17 00:29 G	12088604.34	12088604.52	12088604.72	0.0135	0.0066
Venus	28385-12-29 06:43 G	12088830.64	12088830.78	12088830.94	0.0135	0.0097
Venus	28386-08-12 12:57 G	12089056.98	12089057.04	12089057.12	0.0135	0.0128
Mercury	28392-05-14 08:09 G	12091158.78	12091158.84	12091158.91	0.0133	0.0123
Mercury	28392-08-10 13:55 G	12091246.98	12091247.08	12091247.20	0.0133	0.0101
Mercury	28392-11-06 19:41 G	12091335.19	12091335.32	12091335.47	0.0133	0.0079
Mercury	28393-02-03 01:41 G	12091423.41	12091423.57	12091423.73	0.0133	0.0057
Mercury	28393-05-02 07:12 G	12091511.64	12091511.80	12091511.97	0.0133	0.0036
Mercury	28393-07-29 12:57 G	12091599.87	12091600.04	12091600.21	0.0133	0.0014
Mercury	28393-10-25 18:29 G	12091688.10	12091688.27	12091688.45	0.0133	0.0007
Mercury	28394-01-22 00:00 G	12091776.33	12091776.50	12091776.67	0.0133	0.0028
Mercury	28394-04-20 05:31 G	12091864.57	12091864.73	12091864.89	0.0133	0.0049
Mercury	28394-07-17 10:48 G	12091952.81	12091952.95	12091953.10	0.0133	0.0070
Mercury	28394-10-13 16:19 G	12092041.06	12092041.18	12092041.31	0.0133	0.0090
Mercury	28395-01-09 21:21 G	12092129.31	12092129.39	12092129.50	0.0133	0.0111
Mercury	28395-04-08 02:38 G	12092217.60	12092217.61	12092217.65	0.0133	0.0131
Mars	28398-06-08 06:14 G	12093374.49	12093374.76	12093375.04	0.0133	0.0048
Moon	28420-01-09 16:05 G	12101260.08	12101260.17	12101260.29	0.0139	0.0126
Earth	28420-01-09 18:29 G	12101260.20	12101260.27	12101260.36	0.0139	0.0131 *
Earth	28421-01-13 11:17 G	12101629.75	12101629.97	12101630.21	0.0140	0.0061
Moon	28421-01-13 14:24 G	12101629.88	12101630.10	12101630.34	0.0140	0.0068 *
Moon	28422-01-18 02:24 G	12101999.36	12101999.60	12101999.85	0.0140	0.0018
Earth	28422-01-18 05:17 G	12101999.47	12101999.72	12101999.97	0.0140	0.0012 *
Earth	28423-01-22 23:02 G	12102369.28	12102369.46	12102369.68	0.0141	0.0086
Moon	28423-01-23 02:38 G	12102369.42	12102369.61	12102369.83	0.0141	0.0084 *
Venus	28426-04-05 13:55 G	12103537.94	12103538.08	12103538.22	0.0142	0.0108
Venus	28426-11-18 00:00 G	12103764.33	12103764.50	12103764.70	0.0142	0.0073

Venus	28427-07-02 10:33 G	12103990.74	12103990.94	12103991.16	0.0143	0.0036
Venus	28428-02-13 21:07 G	12104217.17	12104217.38	12104217.60	0.0143	0.0004
Venus	28428-09-27 07:55 G	12104443.62	12104443.83	12104444.04	0.0143	0.0040
Venus	28429-05-11 18:43 G	12104670.10	12104670.28	12104670.47	0.0143	0.0077
Venus	28429-12-24 05:45 G	12104896.63	12104896.74	12104896.88	0.0144	0.0116
Mercury	28435-02-02 22:19 G	12106763.37	12106763.43	12106763.51	0.0145	0.0124
Mercury	28435-05-02 02:38 G	12106851.52	12106851.61	12106851.72	0.0145	0.0102
Mercury	28435-07-29 07:12 G	12106939.68	12106939.80	12106939.91	0.0145	0.0080
Mercury	28435-10-25 11:17 G	12107027.85	12107027.97	12107028.11	0.0145	0.0058
Mercury	28436-01-21 15:50 G	12107116.02	12107116.16	12107116.30	0.0145	0.0035
Mercury	28436-04-18 20:09 G	12107204.20	12107204.34	12107204.48	0.0145	0.0012
Mercury	28436-07-16 00:43 G	12107292.38	12107292.53	12107292.67	0.0145	0.0011
Mercury	28436-10-12 05:02 G	12107380.57	12107380.71	12107380.85	0.0145	0.0034
Mercury	28437-01-08 09:36 G	12107468.77	12107468.90	12107469.03	0.0146	0.0057
Mercury	28437-04-06 14:09 G	12107556.97	12107557.09	12107557.21	0.0146	0.0080
Mercury	28437-07-03 18:43 G	12107645.18	12107645.28	12107645.38	0.0146	0.0104
Mercury	28437-09-29 23:17 G	12107733.41	12107733.47	12107733.54	0.0146	0.0128
Mars	28440-08-23 06:57 G	12108791.47	12108791.79	12108792.11	0.0146	0.0003
Earth	28459-07-11 02:53 G	12115687.54	12115687.62	12115687.73	0.0139	0.0129
Moon	28459-07-11 06:14 G	12115687.71	12115687.76	12115687.84	0.0139	0.0135 *
Moon	28460-07-14 15:21 G	12116056.92	12116057.14	12116057.38	0.0139	0.0055
Earth	28460-07-14 18:29 G	12116057.05	12116057.27	12116057.51	0.0139	0.0058 *
Earth	28461-07-19 09:36 G	12116426.65	12116426.90	12116427.15	0.0138	0.0013
Moon	28461-07-19 13:12 G	12116426.80	12116427.05	12116427.31	0.0138	0.0015 *
Moon	28462-07-23 19:55 G	12116796.14	12116796.33	12116796.56	0.0138	0.0079
Earth	28462-07-23 23:31 G	12116796.29	12116796.48	12116796.70	0.0138	0.0082 *
Venus	28465-12-10 01:55 G	12118031.45	12118031.58	12118031.73	0.0136	0.0106
Venus	28466-07-24 09:07 G	12118257.70	12118257.88	12118258.07	0.0136	0.0073
Venus	28467-03-07 16:05 G	12118483.97	12118484.17	12118484.39	0.0136	0.0041
Venus	28467-10-19 23:02 G	12118710.25	12118710.46	12118710.68	0.0136	0.0009

Venus	28468-06-02 05:45 G	12118936.53	12118936.74	12118936.96	0.0135	0.0024
Venus	28469-01-14 12:29 G	12119162.82	12119163.02	12119163.22	0.0135	0.0055
Venus	28469-08-28 18:43 G	12119389.12	12119389.28	12119389.45	0.0135	0.0086
Venus	28470-04-12 00:57 G	12119615.44	12119615.54	12119615.65	0.0135	0.0117
Mercury	28476-06-03 16:19 G	12121860.11	12121860.18	12121860.29	0.0133	0.0114
Mercury	28476-08-30 22:19 G	12121948.31	12121948.43	12121948.57	0.0133	0.0091
Mercury	28476-11-27 04:05 G	12122036.53	12122036.67	12122036.83	0.0133	0.0069
Mercury	28477-02-23 09:50 G	12122124.75	12122124.91	12122125.08	0.0133	0.0048
Mercury	28477-05-22 15:36 G	12122212.98	12122213.15	12122213.32	0.0133	0.0026
Mercury	28477-08-18 21:07 G	12122301.21	12122301.38	12122301.56	0.0133	0.0006
Mercury	28477-11-15 02:38 G	12122389.45	12122389.61	12122389.79	0.0133	0.0017
Mercury	28478-02-11 08:09 G	12122477.68	12122477.84	12122478.01	0.0133	0.0038
Mercury	28478-05-10 13:41 G	12122565.92	12122566.07	12122566.23	0.0133	0.0058
Mercury	28478-08-06 18:57 G	12122654.16	12122654.29	12122654.44	0.0133	0.0079
Mercury	28478-11-03 00:14 G	12122742.41	12122742.51	12122742.64	0.0133	0.0100
Mercury	28479-01-30 05:45 G	12122830.68	12122830.74	12122830.82	0.0133	0.0120
Mars	28483-01-31 21:50 G	12124293.14	12124293.41	12124293.71	0.0133	0.0037
Moon	28504-01-11 04:48 G	12131941.64	12131941.70	12131941.77	0.0139	0.0134
Earth	28504-01-11 06:29 G	12131941.69	12131941.77	12131941.89	0.0139	0.0127 *
Earth	28505-01-14 23:31 G	12132311.25	12132311.48	12132311.72	0.0140	0.0056
Moon	28505-01-15 01:41 G	12132311.33	12132311.57	12132311.82	0.0140	0.0049 *
Moon	28506-01-19 14:09 G	12132680.85	12132681.09	12132681.35	0.0140	0.0011
Earth	28506-01-19 17:02 G	12132680.96	12132681.21	12132681.47	0.0140	0.0017 *
Earth	28507-01-24 10:48 G	12133050.77	12133050.95	12133051.16	0.0141	0.0090
Moon	28507-01-24 13:41 G	12133050.89	12133051.07	12133051.27	0.0141	0.0094 *
Venus	28509-12-04 21:50 G	12134096.32	12134096.41	12134096.53	0.0142	0.0123
Venus	28510-07-19 07:55 G	12134322.67	12134322.83	12134323.02	0.0142	0.0087
Venus	28511-03-02 18:14 G	12134549.07	12134549.26	12134549.47	0.0143	0.0051
Venus	28511-10-15 04:48 G	12134775.49	12134775.70	12134775.92	0.0143	0.0014
Venus	28512-05-28 15:36 G	12135001.94	12135002.15	12135002.36	0.0143	0.0024

Venus	28513-01-10 02:09 G	12135228.41	12135228.59	12135228.80	0.0143	0.0063
Venus	28513-08-24 13:12 G	12135454.91	12135455.05	12135455.22	0.0144	0.0100
Venus	28514-04-08 00:14 G	12135681.47	12135681.51	12135681.59	0.0144	0.0138
Mercury	28518-11-28 01:41 G	12137376.54	12137376.57	12137376.61	0.0145	0.0139
Mercury	28519-02-24 06:00 G	12137464.67	12137464.75	12137464.83	0.0145	0.0117
Mercury	28519-05-23 10:19 G	12137552.83	12137552.93	12137553.04	0.0145	0.0095
Mercury	28519-08-19 14:24 G	12137640.99	12137641.10	12137641.23	0.0145	0.0074
Mercury	28519-11-15 18:57 G	12137729.16	12137729.29	12137729.42	0.0145	0.0051
Mercury	28520-02-11 23:17 G	12137817.33	12137817.47	12137817.61	0.0145	0.0028
Mercury	28520-05-10 03:36 G	12137905.51	12137905.65	12137905.80	0.0145	0.0007
Mercury	28520-08-06 08:09 G	12137993.70	12137993.84	12137993.98	0.0145	0.0018
Mercury	28520-11-02 12:43 G	12138081.89	12138082.03	12138082.16	0.0146	0.0041
Mercury	28521-01-29 17:02 G	12138170.09	12138170.21	12138170.34	0.0146	0.0064
Mercury	28521-04-27 21:36 G	12138258.29	12138258.40	12138258.52	0.0146	0.0087
Mercury	28521-07-25 02:09 G	12138346.50	12138346.59	12138346.69	0.0146	0.0111
Mercury	28521-10-21 06:43 G	12138434.73	12138434.78	12138434.84	0.0146	0.0135
Mars	28525-04-20 11:17 G	12139711.80	12139711.97	12139712.20	0.0146	0.0115
Earth	28543-07-12 16:19 G	12146369.08	12146369.18	12146369.31	0.0139	0.0124
Moon	28543-07-12 18:57 G	12146369.18	12146369.29	12146369.45	0.0139	0.0119 *
Moon	28544-07-16 05:02 G	12146738.49	12146738.71	12146738.94	0.0139	0.0056
Earth	28544-07-16 07:55 G	12146738.61	12146738.83	12146739.08	0.0139	0.0053 *
Earth	28545-07-20 23:02 G	12147108.21	12147108.46	12147108.72	0.0138	0.0018
Moon	28545-07-21 02:09 G	12147108.34	12147108.59	12147108.85	0.0138	0.0018 *
Moon	28546-07-25 09:36 G	12147477.72	12147477.90	12147478.10	0.0138	0.0092
Earth	28546-07-25 13:12 G	12147477.86	12147478.05	12147478.25	0.0138	0.0087 *
Venus	28549-08-10 12:29 G	12148589.93	12148590.02	12148590.15	0.0137	0.0118
Venus	28550-03-24 20:09 G	12148816.17	12148816.34	12148816.51	0.0136	0.0085
Venus	28550-11-06 03:21 G	12149042.44	12149042.64	12149042.84	0.0136	0.0052
Venus	28551-06-20 10:33 G	12149268.72	12149268.94	12149269.15	0.0136	0.0020
Venus	28552-02-01 17:17 G	12149495.00	12149495.22	12149495.44	0.0136	0.0012

Venus	28552-09-14 23:45 G	12149721.29	12149721.49	12149721.70	0.0135	0.0044
Venus	28553-04-29 06:14 G	12149947.59	12149947.76	12149947.95	0.0135	0.0075
Venus	28553-12-11 12:43 G	12150173.90	12150174.03	12150174.17	0.0135	0.0106
Mercury	28560-03-28 18:57 G	12152473.24	12152473.29	12152473.35	0.0133	0.0125
Mercury	28560-06-25 00:43 G	12152561.43	12152561.53	12152561.65	0.0133	0.0104
Mercury	28560-09-21 06:43 G	12152649.64	12152649.78	12152649.92	0.0133	0.0081
Mercury	28560-12-18 12:29 G	12152737.87	12152738.02	12152738.18	0.0133	0.0060
Mercury	28561-03-16 18:00 G	12152826.09	12152826.25	12152826.43	0.0133	0.0039
Mercury	28561-06-12 23:45 G	12152914.32	12152914.49	12152914.67	0.0133	0.0017
Mercury	28561-09-09 05:31 G	12153002.55	12153002.73	12153002.90	0.0133	0.0005
Mercury	28561-12-06 11:02 G	12153090.79	12153090.96	12153091.13	0.0133	0.0026
Mercury	28562-03-04 16:19 G	12153179.03	12153179.18	12153179.35	0.0133	0.0047
Mercury	28562-05-31 21:50 G	12153267.27	12153267.41	12153267.56	0.0133	0.0068
Mercury	28562-08-28 03:21 G	12153355.52	12153355.64	12153355.77	0.0133	0.0088
Mercury	28562-11-24 08:24 G	12153443.77	12153443.85	12153443.96	0.0133	0.0109
Mercury	28563-02-20 13:55 G	12153532.05	12153532.08	12153532.13	0.0133	0.0129
Mars	28565-10-27 14:09 G	12154511.89	12154512.09	12154512.33	0.0133	0.0089
Mars	28567-09-27 13:12 G	12155211.96	12155212.05	12155212.19	0.0133	0.0122
Moon	28588-01-11 18:00 G	12162623.14	12162623.25	12162623.41	0.0139	0.0117
Earth	28588-01-11 19:12 G	12162623.20	12162623.30	12162623.44	0.0139	0.0122 *
Earth	28589-01-15 12:00 G	12162992.77	12162993.00	12162993.25	0.0139	0.0051
Moon	28589-01-15 14:09 G	12162992.85	12162993.09	12162993.33	0.0139	0.0058 *
Moon	28590-01-20 03:21 G	12163362.40	12163362.64	12163362.89	0.0140	0.0029
Earth	28590-01-20 05:02 G	12163362.47	12163362.71	12163362.97	0.0140	0.0022 *
Earth	28591-01-24 23:02 G	12163732.28	12163732.46	12163732.65	0.0140	0.0095
Moon	28591-01-25 01:41 G	12163732.38	12163732.57	12163732.77	0.0140	0.0092 *
Venus	28593-08-04 06:14 G	12164654.71	12164654.76	12164654.82	0.0142	0.0137
Venus	28594-03-18 15:50 G	12164881.03	12164881.16	12164881.33	0.0142	0.0102
Venus	28594-10-31 02:09 G	12165107.41	12165107.59	12165107.79	0.0142	0.0066
Venus	28595-06-14 12:43 G	12165333.82	12165334.03	12165334.24	0.0143	0.0029

Venus	28596-01-26 23:02 G	12165560.25	12165560.46	12165560.68	0.0143	0.0009
Venus	28596-09-09 09:36 G	12165786.70	12165786.90	12165787.11	0.0143	0.0046
Venus	28597-04-23 20:24 G	12166013.18	12166013.35	12166013.53	0.0143	0.0084
Venus	28597-12-06 07:26 G	12166239.71	12166239.81	12166239.94	0.0143	0.0121
Mercury	28602-12-19 08:53 G	12168077.83	12168077.87	12168077.93	0.0145	0.0134
Mercury	28603-03-17 13:12 G	12168165.97	12168166.05	12168166.14	0.0145	0.0112
Mercury	28603-06-13 17:31 G	12168254.12	12168254.23	12168254.34	0.0145	0.0090
Mercury	28603-09-09 21:36 G	12168342.29	12168342.40	12168342.53	0.0145	0.0069
Mercury	28603-12-07 02:09 G	12168430.46	12168430.59	12168430.72	0.0145	0.0046
Mercury	28604-03-04 06:29 G	12168518.63	12168518.77	12168518.91	0.0145	0.0023
Mercury	28604-05-31 10:48 G	12168606.81	12168606.95	12168607.10	0.0145	0.0004
Mercury	28604-08-27 15:21 G	12168695.00	12168695.14	12168695.28	0.0145	0.0023
Mercury	28604-11-23 19:41 G	12168783.19	12168783.32	12168783.46	0.0145	0.0046
Mercury	28605-02-20 00:14 G	12168871.39	12168871.51	12168871.64	0.0146	0.0069
Mercury	28605-05-19 04:33 G	12168959.59	12168959.69	12168959.81	0.0146	0.0093
Mercury	28605-08-15 09:21 G	12169047.81	12169047.89	12169047.98	0.0146	0.0116
Mercury	28605-11-11 13:55 G	12169136.05	12169136.08	12169136.12	0.0146	0.0140
Mars	28608-01-10 23:31 G	12169926.23	12169926.48	12169926.76	0.0146	0.0081
Earth	28627-07-14 03:21 G	12177050.53	12177050.64	12177050.78	0.0140	0.0120
Moon	28627-07-14 05:31 G	12177050.65	12177050.73	12177050.86	0.0140	0.0127 *
Moon	28628-07-17 16:48 G	12177419.98	12177420.20	12177420.44	0.0139	0.0045
Earth	28628-07-17 19:26 G	12177420.08	12177420.31	12177420.55	0.0139	0.0048 *
Earth	28629-07-22 10:33 G	12177789.69	12177789.94	12177790.19	0.0139	0.0022
Moon	28629-07-22 13:41 G	12177789.82	12177790.07	12177790.33	0.0139	0.0023 *
Moon	28630-07-26 21:50 G	12178159.24	12178159.41	12178159.62	0.0138	0.0090
Earth	28630-07-27 00:43 G	12178159.36	12178159.53	12178159.73	0.0138	0.0092 *
Venus	28633-04-10 22:33 G	12179148.38	12179148.44	12179148.51	0.0137	0.0130
Venus	28633-11-23 06:00 G	12179374.61	12179374.75	12179374.91	0.0137	0.0098
Venus	28634-07-07 13:12 G	12179600.87	12179601.05	12179601.26	0.0136	0.0066
Venus	28635-02-18 20:24 G	12179827.15	12179827.35	12179827.57	0.0136	0.0034

Venus	28635-10-03 03:36 G	12180053.43	12180053.65	12180053.87	0.0136	0.0001
Venus	28636-05-16 10:19 G	12180279.73	12180279.93	12180280.15	0.0136	0.0032
Venus	28636-12-28 17:02 G	12180506.03	12180506.21	12180506.41	0.0135	0.0063
Venus	28637-08-11 23:31 G	12180732.34	12180732.48	12180732.65	0.0135	0.0095
Venus	28638-03-26 06:00 G	12180958.68	12180958.75	12180958.84	0.0135	0.0125
Mercury	28644-04-19 03:07 G	12183174.55	12183174.63	12183174.72	0.0133	0.0116
Mercury	28644-07-16 08:53 G	12183262.75	12183262.87	12183263.00	0.0133	0.0095
Mercury	28644-10-12 14:38 G	12183350.97	12183351.11	12183351.27	0.0133	0.0073
Mercury	28645-01-08 20:38 G	12183439.20	12183439.36	12183439.52	0.0133	0.0051
Mercury	28645-04-07 02:09 G	12183527.42	12183527.59	12183527.77	0.0133	0.0029
Mercury	28645-07-04 07:55 G	12183615.66	12183615.83	12183616.00	0.0133	0.0008
Mercury	28645-09-30 13:26 G	12183703.89	12183704.06	12183704.24	0.0133	0.0014
Mercury	28645-12-27 18:57 G	12183792.13	12183792.29	12183792.46	0.0133	0.0035
Mercury	28646-03-26 00:29 G	12183880.37	12183880.52	12183880.68	0.0133	0.0056
Mercury	28646-06-22 06:00 G	12183968.61	12183968.75	12183968.89	0.0133	0.0076
Mercury	28646-09-18 11:17 G	12184056.86	12184056.97	12184057.09	0.0133	0.0097
Mercury	28646-12-15 16:48 G	12184145.12	12184145.20	12184145.28	0.0133	0.0117
Mars	28650-06-23 08:09 G	12185430.54	12185430.84	12185431.14	0.0133	0.0002
Moon	28672-01-13 09:36 G	12193304.80	12193304.90	12193305.03	0.0139	0.0121
Earth	28672-01-13 10:33 G	12193304.81	12193304.94	12193305.09	0.0139	0.0115 *
Earth	28673-01-17 02:53 G	12193674.39	12193674.62	12193674.87	0.0139	0.0045
Moon	28673-01-17 03:50 G	12193674.42	12193674.66	12193674.92	0.0139	0.0038 *
Moon	28674-01-21 18:14 G	12194044.02	12194044.26	12194044.51	0.0140	0.0022
Earth	28674-01-21 20:09 G	12194044.09	12194044.34	12194044.59	0.0140	0.0028 *
Earth	28675-01-26 13:41 G	12194413.91	12194414.07	12194414.25	0.0140	0.0102
Moon	28675-01-26 15:07 G	12194413.99	12194414.13	12194414.33	0.0140	0.0107 *
Venus	28677-11-17 02:24 G	12195439.48	12195439.60	12195439.73	0.0142	0.0114
Venus	28678-07-01 12:14 G	12195665.84	12195666.01	12195666.20	0.0142	0.0078
Venus	28679-02-12 22:33 G	12195892.24	12195892.44	12195892.65	0.0142	0.0042
Venus	28679-09-27 08:53 G	12196118.66	12196118.87	12196119.09	0.0143	0.0005

Venus	28680-05-10 19:26 G	12196345.10	12196345.31	12196345.53	0.0143	0.0033
Venus	28680-12-23 06:14 G	12196571.58	12196571.76	12196571.96	0.0143	0.0070
Venus	28681-08-06 17:02 G	12196798.08	12196798.21	12196798.36	0.0143	0.0108
Mercury	28687-01-08 17:02 G	12198779.14	12198779.21	12198779.28	0.0145	0.0125
Mercury	28687-04-06 21:21 G	12198867.29	12198867.39	12198867.48	0.0145	0.0103
Mercury	28687-07-04 01:26 G	12198955.45	12198955.56	12198955.68	0.0145	0.0082
Mercury	28687-09-30 05:45 G	12199043.61	12199043.74	12199043.87	0.0145	0.0059
Mercury	28687-12-27 10:05 G	12199131.78	12199131.92	12199132.06	0.0145	0.0037
Mercury	28688-03-24 14:24 G	12199219.96	12199220.10	12199220.25	0.0145	0.0015
Mercury	28688-06-20 18:57 G	12199308.14	12199308.29	12199308.43	0.0145	0.0009
Mercury	28688-09-16 23:17 G	12199396.33	12199396.47	12199396.61	0.0145	0.0031
Mercury	28688-12-14 03:36 G	12199484.52	12199484.65	12199484.79	0.0145	0.0055
Mercury	28689-03-12 08:09 G	12199572.72	12199572.84	12199572.96	0.0145	0.0078
Mercury	28689-06-08 12:29 G	12199660.93	12199661.02	12199661.14	0.0146	0.0102
Mercury	28689-09-04 17:17 G	12199749.15	12199749.22	12199749.30	0.0146	0.0125
Mars	28692-09-06 06:43 G	12200846.48	12200846.78	12200847.10	0.0146	0.0040
Earth	28711-07-15 16:19 G	12207732.06	12207732.18	12207732.35	0.0140	0.0116
Moon	28711-07-15 18:43 G	12207732.13	12207732.28	12207732.45	0.0140	0.0109 *
Moon	28712-07-19 06:29 G	12208101.54	12208101.77	12208102.01	0.0139	0.0048
Earth	28712-07-19 08:53 G	12208101.63	12208101.87	12208102.11	0.0139	0.0043 *
Earth	28713-07-23 23:45 G	12208471.25	12208471.49	12208471.74	0.0139	0.0027
Moon	28713-07-24 02:09 G	12208471.34	12208471.59	12208471.85	0.0139	0.0028 *
Moon	28714-07-28 11:02 G	12208840.80	12208840.96	12208841.14	0.0138	0.0101
Earth	28714-07-28 13:55 G	12208840.91	12208841.08	12208841.27	0.0138	0.0097 *
Venus	28717-07-24 16:48 G	12209933.07	12209933.20	12209933.33	0.0137	0.0109
Venus	28718-03-08 00:00 G	12210159.33	12210159.50	12210159.69	0.0137	0.0077
Venus	28718-10-20 07:26 G	12210385.61	12210385.81	12210386.02	0.0136	0.0044
Venus	28719-06-03 14:38 G	12210611.90	12210612.11	12210612.33	0.0136	0.0012
Venus	28720-01-15 21:36 G	12210838.19	12210838.40	12210838.62	0.0136	0.0020
Venus	28720-08-29 04:19 G	12211064.48	12211064.68	12211064.89	0.0136	0.0052

Venus	28721-04-12 10:48 G	12211290.79	12211290.95	12211291.13	0.0135	0.0084
Venus	28721-11-24 17:31 G	12211517.12	12211517.23	12211517.35	0.0135	0.0114
Mercury	28728-02-12 05:17 G	12213787.69	12213787.72	12213787.77	0.0133	0.0130
Mercury	28728-05-10 11:02 G	12213875.87	12213875.96	12213876.08	0.0133	0.0108
Mercury	28728-08-06 17:02 G	12213964.08	12213964.21	12213964.35	0.0133	0.0085
Mercury	28728-11-02 22:48 G	12214052.30	12214052.45	12214052.61	0.0133	0.0063
Mercury	28729-01-30 04:33 G	12214140.53	12214140.69	12214140.86	0.0133	0.0042
Mercury	28729-04-28 10:19 G	12214228.76	12214228.93	12214229.11	0.0133	0.0020
Mercury	28729-07-25 16:05 G	12214316.99	12214317.17	12214317.34	0.0133	0.0002
Mercury	28729-10-21 21:36 G	12214405.23	12214405.40	12214405.57	0.0133	0.0023
Mercury	28730-01-18 03:07 G	12214493.47	12214493.63	12214493.80	0.0133	0.0044
Mercury	28730-04-16 08:24 G	12214581.71	12214581.85	12214582.01	0.0133	0.0065
Mercury	28730-07-13 14:09 G	12214669.96	12214670.09	12214670.22	0.0133	0.0086
Mercury	28730-10-09 19:26 G	12214758.21	12214758.31	12214758.42	0.0133	0.0106
Mercury	28731-01-06 00:43 G	12214846.49	12214846.53	12214846.59	0.0133	0.0127
Mars	28733-03-18 21:36 G	12215649.36	12215649.40	12215649.47	0.0133	0.0130
Mars	28735-02-16 23:45 G	12216349.27	12216349.49	12216349.73	0.0133	0.0084
Saturn	28749-01-17 08:09 G	12221432.51	12221432.84	12221433.25	0.0136	0.0109
Moon	28756-01-15 01:41 G	12223986.42	12223986.57	12223986.74	0.0139	0.0104
Earth	28756-01-15 01:55 G	12223986.43	12223986.58	12223986.74	0.0139	0.0108 *
Earth	28757-01-18 18:00 G	12224356.02	12224356.25	12224356.51	0.0139	0.0038
Moon	28757-01-18 18:57 G	12224356.05	12224356.29	12224356.55	0.0139	0.0044 *
Moon	28758-01-23 10:33 G	12224725.70	12224725.94	12224726.17	0.0140	0.0042
Earth	28758-01-23 11:17 G	12224725.72	12224725.97	12224726.21	0.0140	0.0035 *
Earth	28759-01-28 04:48 G	12225095.55	12225095.70	12225095.87	0.0140	0.0109
Moon	28759-01-28 06:29 G	12225095.61	12225095.77	12225095.96	0.0140	0.0105 *
Venus	28761-07-18 12:29 G	12225997.95	12225998.02	12225998.14	0.0142	0.0127
Venus	28762-03-01 22:33 G	12226224.29	12226224.44	12226224.62	0.0142	0.0091
Venus	28762-10-14 08:53 G	12226450.67	12226450.87	12226451.07	0.0142	0.0054
Venus	28763-05-28 19:12 G	12226677.09	12226677.30	12226677.52	0.0142	0.0018

Venus	28764-01-10 05:45 G	12226903.53	12226903.74	12226903.96	0.0143	0.0019
Venus	28764-08-23 16:05 G	12227129.98	12227130.17	12227130.38	0.0143	0.0057
Venus	28765-04-07 02:53 G	12227356.47	12227356.62	12227356.79	0.0143	0.0094
Venus	28765-11-19 13:41 G	12227583.01	12227583.07	12227583.18	0.0143	0.0132
Mercury	28770-11-02 20:53 G	12229392.33	12229392.37	12229392.41	0.0145	0.0138
Mercury	28771-01-30 00:57 G	12229480.46	12229480.54	12229480.63	0.0145	0.0117
Mercury	28771-04-28 05:02 G	12229568.62	12229568.71	12229568.83	0.0145	0.0095
Mercury	28771-07-25 09:21 G	12229656.78	12229656.89	12229657.02	0.0145	0.0073
Mercury	28771-10-21 13:55 G	12229744.94	12229745.08	12229745.21	0.0145	0.0051
Mercury	28772-01-17 18:14 G	12229833.12	12229833.26	12229833.40	0.0145	0.0028
Mercury	28772-04-14 22:33 G	12229921.30	12229921.44	12229921.58	0.0145	0.0006
Mercury	28772-07-12 02:53 G	12230009.48	12230009.62	12230009.76	0.0145	0.0017
Mercury	28772-10-08 07:12 G	12230097.67	12230097.80	12230097.94	0.0145	0.0040
Mercury	28773-01-04 11:45 G	12230185.86	12230185.99	12230186.12	0.0145	0.0063
Mercury	28773-04-02 16:05 G	12230274.06	12230274.17	12230274.29	0.0145	0.0087
Mercury	28773-06-29 20:38 G	12230362.27	12230362.36	12230362.46	0.0145	0.0110
Mercury	28773-09-26 01:12 G	12230450.50	12230450.55	12230450.61	0.0145	0.0134
Earth	28795-07-16 05:45 G	12238413.59	12238413.74	12238413.90	0.0140	0.0110
Moon	28795-07-16 06:57 G	12238413.66	12238413.79	12238413.94	0.0140	0.0117 *
Moon	28796-07-19 19:55 G	12238783.10	12238783.33	12238783.58	0.0139	0.0034
Earth	28796-07-19 21:36 G	12238783.16	12238783.40	12238783.65	0.0139	0.0038 *
Earth	28797-07-24 12:29 G	12239152.78	12239153.02	12239153.28	0.0139	0.0033
Moon	28797-07-24 14:53 G	12239152.87	12239153.12	12239153.38	0.0139	0.0032 *
Moon	28798-07-29 00:57 G	12239522.38	12239522.54	12239522.71	0.0138	0.0101
Earth	28798-07-29 02:53 G	12239522.46	12239522.62	12239522.80	0.0138	0.0102 *
Venus	28801-03-24 02:38 G	12240491.53	12240491.61	12240491.73	0.0137	0.0122
Venus	28801-11-05 10:33 G	12240717.78	12240717.94	12240718.11	0.0137	0.0089
Venus	28802-06-19 18:00 G	12240944.06	12240944.25	12240944.46	0.0136	0.0057
Venus	28803-02-01 01:12 G	12241170.34	12241170.55	12241170.77	0.0136	0.0025
Venus	28803-09-15 08:24 G	12241396.63	12241396.85	12241397.07	0.0136	0.0008

Venus	28804-04-28 15:21 G	12241622.93	12241623.14	12241623.35	0.0136	0.0040
Venus	28804-12-10 22:05 G	12241849.24	12241849.42	12241849.61	0.0135	0.0072
Venus	28805-07-25 04:48 G	12242075.57	12242075.70	12242075.85	0.0135	0.0103
Venus	28806-03-08 11:17 G	12242301.96	12242301.97	12242302.01	0.0135	0.0134
Mercury	28812-03-03 13:26 G	12244488.99	12244489.06	12244489.14	0.0134	0.0120
Mercury	28812-05-30 19:12 G	12244577.19	12244577.30	12244577.43	0.0133	0.0099
Mercury	28812-08-27 00:57 G	12244665.41	12244665.54	12244665.70	0.0133	0.0077
Mercury	28812-11-23 06:57 G	12244753.64	12244753.79	12244753.96	0.0133	0.0054
Mercury	28813-02-19 12:43 G	12244841.86	12244842.03	12244842.20	0.0133	0.0033
Mercury	28813-05-18 18:29 G	12244930.10	12244930.27	12244930.44	0.0133	0.0011
Mercury	28813-08-15 00:00 G	12245018.33	12245018.50	12245018.68	0.0133	0.0011
Mercury	28813-11-11 05:31 G	12245106.57	12245106.73	12245106.91	0.0133	0.0032
Mercury	28814-02-07 11:02 G	12245194.81	12245194.96	12245195.13	0.0133	0.0053
Mercury	28814-05-06 16:48 G	12245283.05	12245283.20	12245283.34	0.0133	0.0074
Mercury	28814-08-02 22:05 G	12245371.31	12245371.42	12245371.54	0.0133	0.0094
Mercury	28814-10-30 03:21 G	12245459.57	12245459.64	12245459.73	0.0133	0.0115
Mars	28817-11-11 14:53 G	12246567.84	12246568.12	12246568.41	0.0133	0.0042
Earth	28840-01-15 16:33 G	12254668.03	12254668.19	12254668.37	0.0139	0.0102
Moon	28840-01-15 17:02 G	12254668.06	12254668.21	12254668.36	0.0139	0.0107 *
Moon	28841-01-19 08:38 G	12255037.60	12255037.86	12255038.12	0.0139	0.0025
Earth	28841-01-19 08:38 G	12255037.62	12255037.86	12255038.12	0.0139	0.0032 *
Moon	28842-01-24 01:12 G	12255407.32	12255407.55	12255407.79	0.0140	0.0035
Earth	28842-01-24 01:55 G	12255407.34	12255407.58	12255407.83	0.0140	0.0042 *
Earth	28843-01-28 19:26 G	12255777.19	12255777.31	12255777.47	0.0140	0.0115
Moon	28843-01-28 20:09 G	12255777.23	12255777.34	12255777.49	0.0140	0.0121 *
Venus	28845-03-17 23:31 G	12256556.44	12256556.48	12256556.53	0.0141	0.0138
Venus	28845-10-30 09:07 G	12256782.75	12256782.88	12256783.04	0.0142	0.0103
Venus	28846-06-13 19:12 G	12257009.12	12257009.30	12257009.51	0.0142	0.0067
Venus	28847-01-26 05:31 G	12257235.53	12257235.73	12257235.95	0.0142	0.0031
Venus	28847-09-09 16:05 G	12257461.95	12257462.17	12257462.39	0.0142	0.0007

Venus	28848-04-23 02:24 G	12257688.40	12257688.60	12257688.82	0.0143	0.0044
Venus	28848-12-05 13:12 G	12257914.88	12257915.05	12257915.24	0.0143	0.0081
Venus	28849-07-20 00:00 G	12258141.39	12258141.50	12258141.64	0.0143	0.0118
Mercury	28854-11-23 05:02 G	12260093.65	12260093.71	12260093.78	0.0145	0.0128
Mercury	28855-02-19 09:07 G	12260181.80	12260181.88	12260181.98	0.0145	0.0107
Mercury	28855-05-18 13:26 G	12260269.95	12260270.06	12260270.18	0.0145	0.0085
Mercury	28855-08-14 17:45 G	12260358.12	12260358.24	12260358.37	0.0145	0.0063
Mercury	28855-11-10 22:05 G	12260446.29	12260446.42	12260446.56	0.0145	0.0040
Mercury	28856-02-07 02:24 G	12260534.46	12260534.60	12260534.74	0.0145	0.0018
Mercury	28856-05-05 06:43 G	12260622.64	12260622.78	12260622.93	0.0145	0.0007
Mercury	28856-08-01 11:17 G	12260710.83	12260710.97	12260711.11	0.0145	0.0028
Mercury	28856-10-28 15:36 G	12260799.02	12260799.15	12260799.29	0.0145	0.0051
Mercury	28857-01-24 19:55 G	12260887.22	12260887.33	12260887.46	0.0145	0.0074
Mercury	28857-04-23 00:29 G	12260975.42	12260975.52	12260975.63	0.0145	0.0098
Mercury	28857-07-20 05:02 G	12261063.64	12261063.71	12261063.79	0.0145	0.0121
Mercury	28857-10-16 09:36 G	12261151.89	12261151.90	12261151.92	0.0145	0.0145
Mars	28860-01-24 19:55 G	12261982.02	12261982.33	12261982.64	0.0146	0.0025
Earth	28879-07-16 20:53 G	12269095.20	12269095.37	12269095.54	0.0140	0.0104
Moon	28879-07-16 21:07 G	12269095.21	12269095.38	12269095.59	0.0140	0.0098 *
Moon	28880-07-20 11:17 G	12269464.74	12269464.97	12269465.21	0.0139	0.0038
Earth	28880-07-20 12:29 G	12269464.78	12269465.02	12269465.27	0.0139	0.0032 *
Earth	28881-07-25 03:21 G	12269834.41	12269834.64	12269834.89	0.0139	0.0039
Moon	28881-07-25 04:48 G	12269834.45	12269834.70	12269834.95	0.0139	0.0041 *
Moon	28882-07-29 15:07 G	12270204.01	12270204.13	12270204.30	0.0138	0.0112
Earth	28882-07-29 17:31 G	12270204.08	12270204.23	12270204.39	0.0138	0.0109 *
Venus	28884-11-21 14:24 G	12271050.05	12271050.10	12271050.15	0.0137	0.0132
Venus	28885-07-05 21:50 G	12271276.27	12271276.41	12271276.57	0.0137	0.0100
Venus	28886-02-17 05:17 G	12271502.54	12271502.72	12271502.92	0.0137	0.0068
Venus	28886-10-01 12:43 G	12271728.83	12271729.03	12271729.25	0.0136	0.0035
Venus	28887-05-15 20:09 G	12271955.12	12271955.34	12271955.56	0.0136	0.0003

Venus	28887-12-28 03:07 G	12272181.42	12272181.63	12272181.85	0.0136	0.0029
Venus	28888-08-10 10:05 G	12272407.73	12272407.92	12272408.12	0.0136	0.0061
Venus	28889-03-24 16:33 G	12272634.04	12272634.19	12272634.36	0.0135	0.0093
Venus	28889-11-05 23:17 G	12272860.39	12272860.47	12272860.56	0.0135	0.0123
Mercury	28895-12-26 15:36 G	12275102.15	12275102.15	12275102.17	0.0133	0.0133
Mercury	28896-03-23 21:50 G	12275190.31	12275190.41	12275190.50	0.0133	0.0111
Mercury	28896-06-20 03:36 G	12275278.52	12275278.65	12275278.78	0.0133	0.0089
Mercury	28896-09-16 09:21 G	12275366.74	12275366.89	12275367.05	0.0133	0.0067
Mercury	28896-12-13 15:07 G	12275454.97	12275455.13	12275455.30	0.0133	0.0045
Mercury	28897-03-11 20:53 G	12275543.20	12275543.37	12275543.55	0.0133	0.0023
Mercury	28897-06-08 02:38 G	12275631.43	12275631.61	12275631.78	0.0133	0.0002
Mercury	28897-09-04 08:09 G	12275719.67	12275719.84	12275720.02	0.0133	0.0020
Mercury	28897-12-01 13:41 G	12275807.91	12275808.07	12275808.24	0.0133	0.0041
Mercury	28898-02-27 19:12 G	12275896.15	12275896.30	12275896.46	0.0133	0.0062
Mercury	28898-05-27 00:43 G	12275984.40	12275984.53	12275984.67	0.0133	0.0083
Mercury	28898-08-23 06:14 G	12276072.66	12276072.76	12276072.87	0.0133	0.0103
Mercury	28898-11-19 11:31 G	12276160.93	12276160.98	12276161.05	0.0133	0.0124
Mars	28902-07-08 07:55 G	12277486.55	12277486.83	12277487.11	0.0133	0.0045
Earth	28924-01-17 05:31 G	12285349.57	12285349.73	12285349.94	0.0139	0.0097
Moon	28924-01-17 06:57 G	12285349.62	12285349.79	12285349.98	0.0139	0.0093 *
Moon	28925-01-20 22:05 G	12285719.16	12285719.42	12285719.67	0.0139	0.0032
Earth	28925-01-20 22:19 G	12285719.18	12285719.43	12285719.68	0.0139	0.0025 *
Earth	28926-01-25 15:07 G	12286088.90	12286089.13	12286089.38	0.0140	0.0048
Moon	28926-01-25 15:36 G	12286088.94	12286089.15	12286089.39	0.0140	0.0055 *
Earth	28927-01-30 08:53 G	12286458.76	12286458.87	12286459.01	0.0140	0.0121
Moon	28927-01-30 09:21 G	12286458.77	12286458.89	12286459.06	0.0140	0.0116 *
Venus	28929-06-30 18:43 G	12287341.17	12287341.28	12287341.42	0.0141	0.0116
Venus	28930-02-12 04:48 G	12287567.53	12287567.70	12287567.88	0.0142	0.0080
Venus	28930-09-26 14:53 G	12287793.92	12287794.12	12287794.33	0.0142	0.0044
Venus	28931-05-11 01:12 G	12288020.33	12288020.55	12288020.77	0.0142	0.0008

Venus	28931-12-23 11:31 G	12288246.78	12288246.98	12288247.20	0.0143	0.0030
Venus	28932-08-05 22:19 G	12288473.24	12288473.43	12288473.62	0.0143	0.0066
Venus	28933-03-20 08:53 G	12288699.73	12288699.87	12288700.03	0.0143	0.0103
Venus	28933-11-01 19:41 G	12288926.29	12288926.32	12288926.37	0.0143	0.0140
Mercury	28938-09-17 08:24 G	12290706.84	12290706.85	12290706.89	0.0145	0.0143
Mercury	28938-12-14 12:43 G	12290794.96	12290795.03	12290795.11	0.0145	0.0121
Mercury	28939-03-12 17:02 G	12290883.11	12290883.21	12290883.31	0.0145	0.0099
Mercury	28939-06-08 21:21 G	12290971.27	12290971.39	12290971.51	0.0145	0.0077
Mercury	28939-09-05 01:26 G	12291059.44	12291059.56	12291059.70	0.0145	0.0055
Mercury	28939-12-02 05:45 G	12291147.61	12291147.74	12291147.88	0.0145	0.0033
Mercury	28940-02-28 10:05 G	12291235.78	12291235.92	12291236.07	0.0145	0.0011
Mercury	28940-05-26 14:38 G	12291323.97	12291324.11	12291324.25	0.0145	0.0013
Mercury	28940-08-22 18:57 G	12291412.15	12291412.29	12291412.43	0.0145	0.0036
Mercury	28940-11-18 23:31 G	12291500.35	12291500.48	12291500.61	0.0145	0.0059
Mercury	28941-02-15 03:36 G	12291588.54	12291588.65	12291588.78	0.0145	0.0083
Mercury	28941-05-14 08:09 G	12291676.75	12291676.84	12291676.95	0.0145	0.0106
Mercury	28941-08-10 12:57 G	12291764.98	12291765.04	12291765.11	0.0145	0.0129
Mars	28944-09-21 01:26 G	12292902.34	12292902.56	12292902.82	0.0146	0.0097
Moon	28963-07-18 09:36 G	12299776.73	12299776.90	12299777.07	0.0140	0.0106
Earth	28963-07-18 09:36 G	12299776.73	12299776.90	12299777.08	0.0140	0.0099 *
Moon	28964-07-22 00:57 G	12300146.30	12300146.54	12300146.79	0.0139	0.0022
Earth	28964-07-22 01:12 G	12300146.31	12300146.55	12300146.81	0.0139	0.0027 *
Earth	28965-07-26 16:19 G	12300515.94	12300516.18	12300516.42	0.0139	0.0044
Moon	28965-07-26 17:17 G	12300515.97	12300516.22	12300516.47	0.0139	0.0042 *
Moon	28966-07-31 05:17 G	12300885.60	12300885.72	12300885.87	0.0138	0.0114
Earth	28966-07-31 06:00 G	12300885.63	12300885.75	12300885.91	0.0138	0.0114 *
Venus	28969-03-06 08:09 G	12301834.72	12301834.84	12301834.97	0.0137	0.0112
Venus	28969-10-18 15:36 G	12302060.99	12302061.15	12302061.34	0.0137	0.0080
Venus	28970-06-01 23:17 G	12302287.27	12302287.47	12302287.68	0.0136	0.0047
Venus	28971-01-14 06:43 G	12302513.57	12302513.78	12302514.00	0.0136	0.0015

Venus	28971-08-28 13:55 G	12302739.86	12302740.08	12302740.30	0.0136	0.0017
Venus	28972-04-10 20:38 G	12302966.17	12302966.36	12302966.57	0.0136	0.0049
Venus	28972-11-23 03:36 G	12303192.48	12303192.65	12303192.83	0.0135	0.0081
Venus	28973-07-07 10:05 G	12303418.82	12303418.92	12303419.06	0.0135	0.0113
Mercury	28980-01-16 23:17 G	12305803.43	12305803.47	12305803.55	0.0133	0.0126
Mercury	28980-04-14 05:31 G	12305891.62	12305891.73	12305891.85	0.0133	0.0103
Mercury	28980-07-11 11:17 G	12305979.84	12305979.97	12305980.12	0.0133	0.0081
Mercury	28980-10-07 17:17 G	12306068.06	12306068.22	12306068.38	0.0133	0.0059
Mercury	28981-01-03 23:02 G	12306156.29	12306156.46	12306156.63	0.0133	0.0037
Mercury	28981-04-02 04:48 G	12306244.52	12306244.70	12306244.87	0.0133	0.0015
Mercury	28981-06-29 10:33 G	12306332.76	12306332.94	12306333.11	0.0133	0.0007
Mercury	28981-09-25 16:05 G	12306421.00	12306421.17	12306421.34	0.0133	0.0028
Mercury	28981-12-22 21:36 G	12306509.24	12306509.40	12306509.56	0.0133	0.0049
Mercury	28982-03-21 03:07 G	12306597.49	12306597.63	12306597.78	0.0133	0.0070
Mercury	28982-06-17 08:24 G	12306685.74	12306685.85	12306685.99	0.0133	0.0091
Mercury	28982-09-13 14:09 G	12306774.00	12306774.09	12306774.18	0.0133	0.0112
Mercury	28982-12-10 19:26 G	12306862.30	12306862.31	12306862.33	0.0133	0.0132
Mars	28985-04-01 18:00 G	12307705.03	12307705.25	12307705.49	0.0133	0.0085
Mars	28987-03-02 21:50 G	12308405.40	12308405.41	12308405.47	0.0133	0.0132

30TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 30th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Earth	29008-01-18 17:45 G	12316031.05	12316031.24	12316031.43	0.0139	0.0092
Moon	29008-01-18 18:43 G	12316031.12	12316031.28	12316031.48	0.0139	0.0097 *
Moon	29009-01-22 08:09 G	12316400.58	12316400.84	12316401.11	0.0139	0.0016
Earth	29009-01-22 09:36 G	12316400.66	12316400.90	12316401.16	0.0139	0.0022 *
Earth	29010-01-27 02:38 G	12316770.39	12316770.61	12316770.86	0.0140	0.0052
Moon	29010-01-27 03:21 G	12316770.41	12316770.64	12316770.88	0.0140	0.0045 *
Moon	29011-01-31 19:41 G	12317140.25	12317140.32	12317140.43	0.0140	0.0132
Earth	29011-01-31 20:24 G	12317140.26	12317140.35	12317140.48	0.0140	0.0125 *
Venus	29013-03-01 03:07 G	12317899.56	12317899.63	12317899.73	0.0141	0.0129
Venus	29013-10-13 12:57 G	12318125.89	12318126.04	12318126.21	0.0142	0.0094
Venus	29014-05-27 23:02 G	12318352.27	12318352.46	12318352.66	0.0142	0.0058
Venus	29015-01-09 09:21 G	12318578.68	12318578.89	12318579.10	0.0142	0.0022
Venus	29015-08-23 19:41 G	12318805.10	12318805.32	12318805.53	0.0142	0.0015
Venus	29016-04-06 05:45 G	12319031.55	12319031.74	12319031.96	0.0143	0.0052
Venus	29016-11-18 16:33 G	12319258.03	12319258.19	12319258.37	0.0143	0.0088
Venus	29017-07-03 03:07 G	12319484.55	12319484.63	12319484.75	0.0143	0.0126
Mercury	29022-10-08 16:05 G	12321408.13	12321408.17	12321408.22	0.0145	0.0136
Mercury	29023-01-04 20:09 G	12321496.27	12321496.34	12321496.43	0.0145	0.0115
Mercury	29023-04-03 00:29 G	12321584.42	12321584.52	12321584.63	0.0145	0.0093
Mercury	29023-06-30 04:33 G	12321672.58	12321672.69	12321672.82	0.0145	0.0071
Mercury	29023-09-26 09:07 G	12321760.75	12321760.88	12321761.01	0.0145	0.0048
Mercury	29023-12-23 13:26 G	12321848.92	12321849.06	12321849.20	0.0145	0.0026
Mercury	29024-03-20 17:45 G	12321937.10	12321937.24	12321937.38	0.0145	0.0004
Mercury	29024-06-16 22:05 G	12322025.28	12322025.42	12322025.56	0.0145	0.0019
Mercury	29024-09-13 02:24 G	12322113.47	12322113.60	12322113.74	0.0145	0.0043
Mercury	29024-12-10 06:57 G	12322201.66	12322201.79	12322201.92	0.0145	0.0066
Mercury	29025-03-08 11:17 G	12322289.86	12322289.97	12322290.09	0.0145	0.0089
Mercury	29025-06-04 15:50 G	12322378.07	12322378.16	12322378.25	0.0145	0.0112
Mercury	29025-08-31 20:09 G	12322466.31	12322466.34	12322466.40	0.0145	0.0137
Mars	29027-06-13 23:31 G	12323117.27	12323117.48	12323117.74	0.0145	0.0097

Moon	29047-07-19 21:50 G	12330458.22	12330458.41	12330458.63	0.0140	0.0088
Earth	29047-07-19 22:19 G	12330458.26	12330458.43	12330458.64	0.0140	0.0095 *
Earth	29048-07-23 14:24 G	12330827.85	12330828.10	12330828.35	0.0139	0.0022
Moon	29048-07-23 14:24 G	12330827.87	12330828.10	12330828.35	0.0139	0.0028 *
Moon	29049-07-28 05:17 G	12331197.48	12331197.72	12331197.97	0.0139	0.0053
Earth	29049-07-28 05:31 G	12331197.49	12331197.73	12331197.97	0.0139	0.0049 *
Moon	29050-08-01 18:29 G	12331567.16	12331567.27	12331567.40	0.0138	0.0120
Earth	29050-08-01 19:12 G	12331567.19	12331567.30	12331567.45	0.0138	0.0119 *
Venus	29052-11-04 18:14 G	12332393.19	12332393.26	12332393.37	0.0137	0.0125
Venus	29053-06-19 02:24 G	12332619.45	12332619.60	12332619.77	0.0137	0.0091
Venus	29054-01-31 10:05 G	12332845.73	12332845.92	12332846.12	0.0137	0.0059
Venus	29054-09-14 17:31 G	12333072.02	12333072.23	12333072.44	0.0136	0.0026
Venus	29055-04-29 00:43 G	12333298.31	12333298.53	12333298.75	0.0136	0.0006
Venus	29055-12-11 07:41 G	12333524.62	12333524.82	12333525.04	0.0136	0.0038
Venus	29056-07-24 14:38 G	12333750.93	12333751.11	12333751.31	0.0136	0.0070
Venus	29057-03-07 21:36 G	12333977.26	12333977.40	12333977.55	0.0135	0.0101
Venus	29057-10-20 04:05 G	12334203.63	12334203.67	12334203.73	0.0135	0.0132
Mercury	29064-02-07 07:26 G	12336504.73	12336504.81	12336504.90	0.0133	0.0116
Mercury	29064-05-05 13:12 G	12336592.94	12336593.05	12336593.19	0.0133	0.0095
Mercury	29064-08-01 19:12 G	12336681.16	12336681.30	12336681.45	0.0133	0.0072
Mercury	29064-10-29 00:57 G	12336769.39	12336769.54	12336769.71	0.0133	0.0050
Mercury	29065-01-25 06:57 G	12336857.62	12336857.79	12336857.96	0.0133	0.0028
Mercury	29065-04-23 12:43 G	12336945.85	12336946.03	12336946.20	0.0133	0.0007
Mercury	29065-07-20 18:14 G	12337034.09	12337034.26	12337034.44	0.0133	0.0015
Mercury	29065-10-17 00:00 G	12337122.33	12337122.50	12337122.67	0.0133	0.0036
Mercury	29066-01-13 05:31 G	12337210.58	12337210.73	12337210.89	0.0133	0.0058
Mercury	29066-04-11 11:02 G	12337298.82	12337298.96	12337299.10	0.0133	0.0079
Mercury	29066-07-08 16:33 G	12337387.08	12337387.19	12337387.30	0.0133	0.0099
Mercury	29066-10-04 21:50 G	12337475.35	12337475.41	12337475.49	0.0133	0.0120
Mars	29069-11-26 10:19 G	12338623.64	12338623.93	12338624.23	0.0133	0.0003

Earth	29092-01-19 04:48 G	12346712.50	12346712.70	12346712.89	0.0139	0.0088
Moon	29092-01-19 06:43 G	12346712.60	12346712.78	12346712.99	0.0139	0.0087 *
Moon	29093-01-22 18:57 G	12347082.04	12347082.29	12347082.56	0.0139	0.0023
Earth	29093-01-22 20:53 G	12347082.12	12347082.37	12347082.63	0.0139	0.0017 *
Earth	29094-01-27 13:41 G	12347451.85	12347452.07	12347452.31	0.0140	0.0056
Moon	29094-01-27 15:36 G	12347451.94	12347452.15	12347452.38	0.0140	0.0063 *
Moon	29095-02-01 06:14 G	12347821.66	12347821.76	12347821.91	0.0140	0.0124
Earth	29095-02-01 07:26 G	12347821.73	12347821.81	12347821.92	0.0140	0.0129 *
Venus	29097-06-12 20:38 G	12348684.24	12348684.36	12348684.51	0.0141	0.0109
Venus	29098-01-25 06:43 G	12348910.60	12348910.78	12348910.97	0.0142	0.0073
Venus	29098-09-08 16:48 G	12349136.99	12349137.20	12349137.41	0.0142	0.0037
Venus	29099-04-23 02:53 G	12349363.40	12349363.62	12349363.83	0.0142	0.0002
Venus	29099-12-05 13:12 G	12349589.84	12349590.05	12349590.26	0.0142	0.0035
Venus	29100-07-19 23:31 G	12349816.30	12349816.48	12349816.67	0.0143	0.0072
Venus	29101-03-03 09:50 G	12350042.79	12350042.91	12350043.07	0.0143	0.0109
Mercury	29106-10-29 23:02 G	12352109.42	12352109.46	12352109.53	0.0145	0.0132
Mercury	29107-01-26 03:21 G	12352197.56	12352197.64	12352197.74	0.0145	0.0110
Mercury	29107-04-24 07:41 G	12352285.71	12352285.82	12352285.93	0.0145	0.0088
Mercury	29107-07-21 11:45 G	12352373.87	12352373.99	12352374.12	0.0145	0.0066
Mercury	29107-10-17 16:05 G	12352462.04	12352462.17	12352462.31	0.0145	0.0044
Mercury	29108-01-13 20:24 G	12352550.21	12352550.35	12352550.49	0.0145	0.0021
Mercury	29108-04-11 00:43 G	12352638.39	12352638.53	12352638.68	0.0145	0.0004
Mercury	29108-07-08 05:02 G	12352726.57	12352726.71	12352726.86	0.0145	0.0025
Mercury	29108-10-04 09:36 G	12352814.76	12352814.90	12352815.03	0.0145	0.0047
Mercury	29108-12-31 13:55 G	12352902.96	12352903.08	12352903.21	0.0145	0.0070
Mercury	29109-03-29 18:29 G	12352991.16	12352991.27	12352991.38	0.0145	0.0094
Mercury	29109-06-25 22:48 G	12353079.38	12353079.45	12353079.54	0.0145	0.0117
Mercury	29109-09-22 03:36 G	12353167.62	12353167.65	12353167.68	0.0145	0.0140
Mars	29112-02-08 18:57 G	12354036.98	12354037.29	12354037.61	0.0145	0.0018
Moon	29131-07-21 06:14 G	12361139.59	12361139.76	12361139.96	0.0140	0.0099

Earth	29131-07-21 07:41 G	12361139.64	12361139.82	12361140.02	0.0140	0.0092	*
Earth	29132-07-24 23:45 G	12361509.24	12361509.49	12361509.75	0.0139	0.0020	
Moon	29132-07-25 00:57 G	12361509.29	12361509.54	12361509.78	0.0139	0.0013	*
Moon	29133-07-29 14:24 G	12361878.86	12361879.10	12361879.35	0.0139	0.0048	
Earth	29133-07-29 14:53 G	12361878.89	12361879.12	12361879.36	0.0139	0.0052	*
Earth	29134-08-03 04:48 G	12362248.61	12362248.70	12362248.84	0.0138	0.0123	
Moon	29134-08-03 05:17 G	12362248.64	12362248.72	12362248.85	0.0138	0.0125	*
Venus	29136-07-06 03:07 G	12362951.63	12362951.63	12362951.64	0.0137	0.0137	
Venus	29137-02-17 10:48 G	12363177.83	12363177.95	12363178.11	0.0137	0.0105	
Venus	29137-10-01 18:43 G	12363404.10	12363404.28	12363404.47	0.0137	0.0072	
Venus	29138-05-16 02:24 G	12363630.40	12363630.60	12363630.81	0.0137	0.0040	
Venus	29138-12-28 09:50 G	12363856.70	12363856.91	12363857.13	0.0136	0.0008	
Venus	29139-08-11 17:02 G	12364083.00	12364083.21	12364083.43	0.0136	0.0025	
Venus	29140-03-25 00:00 G	12364309.31	12364309.50	12364309.71	0.0136	0.0057	
Venus	29140-11-06 06:57 G	12364535.63	12364535.79	12364535.96	0.0136	0.0088	
Venus	29141-06-20 13:55 G	12364761.98	12364762.08	12364762.19	0.0135	0.0119	
Mercury	29147-12-02 09:07 G	12367117.86	12367117.88	12367117.90	0.0134	0.0132	
Mercury	29148-02-28 14:53 G	12367206.03	12367206.12	12367206.23	0.0134	0.0110	
Mercury	29148-05-26 20:38 G	12367294.24	12367294.36	12367294.51	0.0133	0.0088	
Mercury	29148-08-23 02:38 G	12367382.46	12367382.61	12367382.77	0.0133	0.0065	
Mercury	29148-11-19 08:24 G	12367470.69	12367470.85	12367471.03	0.0133	0.0044	
Mercury	29149-02-15 14:24 G	12367558.93	12367559.10	12367559.27	0.0133	0.0021	
Mercury	29149-05-14 20:09 G	12367647.17	12367647.34	12367647.52	0.0133	0.0001	
Mercury	29149-08-11 01:55 G	12367735.41	12367735.58	12367735.75	0.0133	0.0022	
Mercury	29149-11-07 07:26 G	12367823.65	12367823.81	12367823.98	0.0133	0.0044	
Mercury	29150-02-03 12:57 G	12367911.90	12367912.04	12367912.20	0.0133	0.0065	
Mercury	29150-05-02 18:29 G	12368000.15	12368000.27	12368000.41	0.0133	0.0086	
Mercury	29150-07-30 00:14 G	12368088.41	12368088.51	12368088.61	0.0133	0.0107	
Mercury	29150-10-26 05:31 G	12368176.69	12368176.73	12368176.78	0.0133	0.0127	
Mars	29152-08-21 16:33 G	12368842.18	12368842.19	12368842.25	0.0133	0.0132	

Mars	29154-07-23 00:57 G	12369542.33	12369542.54	12369542.77	0.0133	0.0089
Earth	29176-01-20 16:33 G	12377394.00	12377394.19	12377394.41	0.0139	0.0084
Moon	29176-01-20 19:12 G	12377394.12	12377394.30	12377394.51	0.0139	0.0087 *
Moon	29177-01-24 06:14 G	12377763.50	12377763.76	12377764.02	0.0139	0.0008
Earth	29177-01-24 09:07 G	12377763.62	12377763.88	12377764.13	0.0139	0.0012 *
Earth	29178-01-29 01:41 G	12378133.35	12378133.57	12378133.81	0.0140	0.0061
Moon	29178-01-29 03:36 G	12378133.43	12378133.65	12378133.88	0.0140	0.0054 *
Earth	29179-02-02 19:26 G	12378503.25	12378503.31	12378503.40	0.0140	0.0134
Venus	29181-02-11 05:02 G	12379242.62	12379242.71	12379242.84	0.0141	0.0122
Venus	29181-09-25 14:38 G	12379468.96	12379469.11	12379469.30	0.0141	0.0088
Venus	29182-05-10 00:43 G	12379695.33	12379695.53	12379695.74	0.0142	0.0052
Venus	29182-12-22 10:48 G	12379921.74	12379921.95	12379922.17	0.0142	0.0016
Venus	29183-08-05 21:07 G	12380148.16	12380148.38	12380148.59	0.0142	0.0020
Venus	29184-03-19 07:12 G	12380374.60	12380374.80	12380375.00	0.0142	0.0057
Venus	29184-10-31 17:45 G	12380601.07	12380601.24	12380601.40	0.0143	0.0093
Venus	29185-06-15 03:50 G	12380827.59	12380827.66	12380827.77	0.0143	0.0130
Mercury	29190-11-19 06:29 G	12382810.71	12382810.77	12382810.84	0.0145	0.0126
Mercury	29191-02-15 10:48 G	12382898.85	12382898.95	12382899.05	0.0145	0.0104
Mercury	29191-05-14 14:53 G	12382987.01	12382987.12	12382987.24	0.0145	0.0082
Mercury	29191-08-10 19:12 G	12383075.17	12383075.30	12383075.43	0.0145	0.0060
Mercury	29191-11-06 23:31 G	12383163.34	12383163.48	12383163.61	0.0145	0.0038
Mercury	29192-02-03 03:50 G	12383251.52	12383251.66	12383251.80	0.0145	0.0016
Mercury	29192-05-01 08:09 G	12383339.70	12383339.84	12383339.98	0.0145	0.0007
Mercury	29192-07-28 12:29 G	12383427.88	12383428.02	12383428.16	0.0145	0.0030
Mercury	29192-10-24 16:48 G	12383516.07	12383516.20	12383516.34	0.0145	0.0053
Mercury	29193-01-20 21:07 G	12383604.27	12383604.38	12383604.51	0.0145	0.0077
Mercury	29193-04-19 01:41 G	12383692.47	12383692.57	12383692.68	0.0145	0.0100
Mercury	29193-07-16 06:00 G	12383780.69	12383780.75	12383780.84	0.0145	0.0124
Mars	29196-10-04 17:31 G	12384957.13	12384957.23	12384957.35	0.0145	0.0136
Moon	29215-07-21 16:05 G	12391820.96	12391821.17	12391821.38	0.0140	0.0082

Earth	29215-07-21 18:00 G	12391821.06	12391821.25	12391821.45	0.0140	0.0089	*
Earth	29216-07-25 09:50 G	12392190.66	12392190.91	12392191.17	0.0139	0.0017	
Moon	29216-07-25 11:17 G	12392190.74	12392190.97	12392191.22	0.0139	0.0024	*
Moon	29217-07-29 23:17 G	12392560.25	12392560.47	12392560.73	0.0139	0.0061	
Earth	29217-07-30 01:12 G	12392560.32	12392560.55	12392560.79	0.0139	0.0055	*
Earth	29218-08-03 15:36 G	12392930.06	12392930.15	12392930.27	0.0138	0.0126	
Moon	29218-08-03 16:05 G	12392930.09	12392930.17	12392930.29	0.0138	0.0125	*
Venus	29220-10-17 19:55 G	12393736.22	12393736.33	12393736.44	0.0137	0.0118	
Venus	29221-06-01 03:36 G	12393962.50	12393962.65	12393962.84	0.0137	0.0086	
Venus	29222-01-13 11:31 G	12394188.79	12394188.98	12394189.19	0.0137	0.0053	
Venus	29222-08-27 19:12 G	12394415.08	12394415.30	12394415.51	0.0137	0.0020	
Venus	29223-04-11 02:24 G	12394641.39	12394641.60	12394641.82	0.0136	0.0012	
Venus	29223-11-23 09:36 G	12394867.70	12394867.90	12394868.11	0.0136	0.0044	
Venus	29224-07-06 16:33 G	12395094.02	12395094.19	12395094.38	0.0136	0.0076	
Venus	29225-02-17 23:31 G	12395320.35	12395320.48	12395320.62	0.0136	0.0107	
Mercury	29231-12-22 16:19 G	12397819.13	12397819.18	12397819.26	0.0134	0.0125	
Mercury	29232-03-19 22:19 G	12397907.33	12397907.43	12397907.56	0.0134	0.0103	
Mercury	29232-06-16 04:19 G	12397995.55	12397995.68	12397995.83	0.0134	0.0080	
Mercury	29232-09-12 10:19 G	12398083.77	12398083.93	12398084.09	0.0134	0.0058	
Mercury	29232-12-09 16:05 G	12398172.01	12398172.17	12398172.35	0.0133	0.0036	
Mercury	29233-03-07 22:05 G	12398260.24	12398260.42	12398260.59	0.0133	0.0014	
Mercury	29233-06-04 03:50 G	12398348.48	12398348.66	12398348.83	0.0133	0.0009	
Mercury	29233-08-31 09:21 G	12398436.72	12398436.89	12398437.06	0.0133	0.0030	
Mercury	29233-11-27 14:53 G	12398524.97	12398525.12	12398525.29	0.0133	0.0051	
Mercury	29234-02-23 20:38 G	12398613.22	12398613.36	12398613.51	0.0133	0.0072	
Mercury	29234-05-23 02:09 G	12398701.47	12398701.59	12398701.72	0.0133	0.0093	
Mercury	29234-08-19 07:26 G	12398789.74	12398789.81	12398789.91	0.0133	0.0115	
Mars	29237-04-16 08:53 G	12399760.60	12399760.87	12399761.16	0.0133	0.0044	
Earth	29260-01-21 06:29 G	12408075.56	12408075.77	12408075.98	0.0139	0.0078	
Moon	29260-01-21 09:21 G	12408075.70	12408075.89	12408076.11	0.0139	0.0078	*

Moon	29261-01-24 19:55 G	12408445.08	12408445.33	12408445.60	0.0139	0.0012
Earth	29261-01-24 22:48 G	12408445.20	12408445.45	12408445.71	0.0139	0.0007 *
Earth	29262-01-29 15:50 G	12408814.94	12408815.16	12408815.38	0.0140	0.0066
Moon	29262-01-29 18:29 G	12408815.06	12408815.27	12408815.49	0.0140	0.0073 *
Moon	29263-02-03 07:12 G	12409184.72	12409184.80	12409184.89	0.0140	0.0132
Earth	29263-02-03 09:21 G	12409184.87	12409184.89	12409184.91	0.0140	0.0139 *
Venus	29264-10-11 15:07 G	12409801.07	12409801.13	12409801.20	0.0141	0.0134
Venus	29265-05-26 00:29 G	12410027.38	12410027.52	12410027.68	0.0141	0.0100
Venus	29266-01-07 10:19 G	12410253.74	12410253.93	12410254.13	0.0141	0.0065
Venus	29266-08-21 20:09 G	12410480.13	12410480.34	12410480.56	0.0142	0.0029
Venus	29267-04-05 06:14 G	12410706.54	12410706.76	12410706.97	0.0142	0.0007
Venus	29267-11-17 16:19 G	12410932.98	12410933.18	12410933.39	0.0142	0.0043
Venus	29268-07-01 02:38 G	12411159.43	12411159.61	12411159.79	0.0143	0.0079
Venus	29269-02-12 12:57 G	12411385.92	12411386.04	12411386.17	0.0143	0.0115
Mercury	29274-09-12 10:05 G	12413423.89	12413423.92	12413423.96	0.0145	0.0140
Mercury	29274-12-09 14:09 G	12413512.02	12413512.09	12413512.17	0.0145	0.0119
Mercury	29275-03-07 18:29 G	12413600.17	12413600.27	12413600.37	0.0145	0.0097
Mercury	29275-06-03 22:33 G	12413688.33	12413688.44	12413688.56	0.0145	0.0075
Mercury	29275-08-31 02:53 G	12413776.49	12413776.62	12413776.75	0.0145	0.0053
Mercury	29275-11-27 07:12 G	12413864.66	12413864.80	12413864.94	0.0145	0.0031
Mercury	29276-02-23 11:31 G	12413952.84	12413952.98	12413953.12	0.0145	0.0009
Mercury	29276-05-21 15:50 G	12414041.02	12414041.16	12414041.30	0.0145	0.0015
Mercury	29276-08-17 20:09 G	12414129.20	12414129.34	12414129.48	0.0145	0.0037
Mercury	29276-11-14 00:29 G	12414217.39	12414217.52	12414217.65	0.0145	0.0060
Mercury	29277-02-10 04:48 G	12414305.59	12414305.70	12414305.82	0.0145	0.0084
Mercury	29277-05-09 09:21 G	12414393.80	12414393.89	12414393.99	0.0145	0.0107
Mercury	29277-08-05 13:41 G	12414482.02	12414482.07	12414482.14	0.0145	0.0130
Mars	29279-06-26 16:48 G	12415171.91	12415172.20	12415172.49	0.0145	0.0059
Saturn	29296-02-23 21:21 G	12421258.20	12421258.39	12421258.64	0.0141	0.0133
Moon	29299-07-22 00:00 G	12422502.33	12422502.50	12422502.72	0.0140	0.0094

Earth	29299-07-22 02:53 G	12422502.44	12422502.62	12422502.84	0.0140	0.0087	*
Earth	29300-07-26 19:12 G	12422872.05	12422872.30	12422872.56	0.0139	0.0014	
Moon	29300-07-26 21:36 G	12422872.16	12422872.40	12422872.65	0.0139	0.0007	*
Moon	29301-07-31 08:38 G	12423241.63	12423241.86	12423242.11	0.0139	0.0053	
Earth	29301-07-31 10:33 G	12423241.71	12423241.94	12423242.18	0.0139	0.0058	*
Earth	29302-08-05 00:57 G	12423611.47	12423611.54	12423611.65	0.0138	0.0129	
Moon	29302-08-05 03:07 G	12423611.57	12423611.63	12423611.71	0.0138	0.0132	*
Venus	29304-06-18 03:50 G	12424294.61	12424294.66	12424294.74	0.0138	0.0132	
Venus	29305-01-30 12:00 G	12424520.86	12424521.00	12424521.16	0.0137	0.0099	
Venus	29305-09-13 19:41 G	12424747.14	12424747.32	12424747.52	0.0137	0.0066	
Venus	29306-04-28 03:21 G	12424973.44	12424973.64	12424973.86	0.0137	0.0034	
Venus	29306-12-10 11:02 G	12425199.74	12425199.96	12425200.18	0.0136	0.0002	
Venus	29307-07-24 18:29 G	12425426.06	12425426.27	12425426.48	0.0136	0.0031	
Venus	29308-03-07 01:26 G	12425652.37	12425652.56	12425652.76	0.0136	0.0062	
Venus	29308-10-19 08:09 G	12425878.70	12425878.84	12425879.01	0.0136	0.0094	
Venus	29309-06-02 14:53 G	12426105.06	12426105.12	12426105.22	0.0136	0.0125	
Mercury	29316-01-12 23:31 G	12428520.42	12428520.48	12428520.58	0.0134	0.0119	
Mercury	29316-04-10 05:45 G	12428608.62	12428608.74	12428608.87	0.0134	0.0096	
Mercury	29316-07-07 11:31 G	12428696.85	12428696.98	12428697.14	0.0134	0.0074	
Mercury	29316-10-03 17:31 G	12428785.08	12428785.23	12428785.40	0.0134	0.0051	
Mercury	29316-12-30 23:31 G	12428873.31	12428873.48	12428873.65	0.0134	0.0029	
Mercury	29317-03-29 05:17 G	12428961.55	12428961.72	12428961.90	0.0133	0.0007	
Mercury	29317-06-25 11:02 G	12429049.79	12429049.96	12429050.13	0.0133	0.0015	
Mercury	29317-09-21 16:33 G	12429138.03	12429138.19	12429138.37	0.0133	0.0037	
Mercury	29317-12-18 22:19 G	12429226.28	12429226.43	12429226.59	0.0133	0.0058	
Mercury	29318-03-17 04:05 G	12429314.53	12429314.67	12429314.81	0.0133	0.0079	
Mercury	29318-06-13 09:36 G	12429402.79	12429402.90	12429403.01	0.0133	0.0100	
Mercury	29318-09-09 15:07 G	12429491.06	12429491.13	12429491.20	0.0133	0.0121	
Mars	29321-12-10 21:36 G	12430679.12	12430679.40	12430679.69	0.0133	0.0043	
Earth	29344-01-22 19:41 G	12438757.11	12438757.32	12438757.55	0.0139	0.0073	

Moon	29344-01-22 23:02 G	12438757.26	12438757.46	12438757.68	0.0139	0.0075 *
Moon	29345-01-26 08:53 G	12439126.61	12439126.87	12439127.13	0.0139	0.0002
Earth	29345-01-26 12:14 G	12439126.76	12439127.01	12439127.27	0.0139	0.0003 *
Earth	29346-01-31 05:02 G	12439496.50	12439496.71	12439496.94	0.0140	0.0072
Moon	29346-01-31 07:55 G	12439496.61	12439496.83	12439497.05	0.0140	0.0065 *
Venus	29349-01-24 10:19 G	12440585.81	12440585.93	12440586.07	0.0141	0.0112
Venus	29349-09-07 19:55 G	12440812.15	12440812.33	12440812.52	0.0141	0.0077
Venus	29350-04-22 05:31 G	12441038.53	12441038.73	12441038.95	0.0142	0.0042
Venus	29350-12-04 15:36 G	12441264.94	12441265.15	12441265.37	0.0142	0.0007
Venus	29351-07-19 01:41 G	12441491.36	12441491.57	12441491.79	0.0142	0.0029
Venus	29352-03-01 11:45 G	12441717.80	12441717.99	12441718.19	0.0142	0.0065
Venus	29352-10-13 21:50 G	12441944.27	12441944.41	12441944.58	0.0143	0.0102
Venus	29353-05-28 08:24 G	12442170.81	12442170.85	12442170.92	0.0143	0.0138
Mercury	29358-10-03 18:00 G	12444125.20	12444125.25	12444125.31	0.0145	0.0132
Mercury	29358-12-30 22:19 G	12444213.34	12444213.43	12444213.52	0.0145	0.0110
Mercury	29359-03-29 02:09 G	12444301.49	12444301.59	12444301.71	0.0145	0.0089
Mercury	29359-06-25 06:29 G	12444389.65	12444389.77	12444389.90	0.0145	0.0067
Mercury	29359-09-21 10:48 G	12444477.82	12444477.95	12444478.09	0.0145	0.0044
Mercury	29359-12-18 15:07 G	12444565.99	12444566.13	12444566.27	0.0145	0.0022
Mercury	29360-03-15 19:26 G	12444654.17	12444654.31	12444654.45	0.0145	0.0001
Mercury	29360-06-11 23:45 G	12444742.35	12444742.49	12444742.63	0.0145	0.0023
Mercury	29360-09-08 04:05 G	12444830.54	12444830.67	12444830.81	0.0145	0.0046
Mercury	29360-12-05 08:24 G	12444918.73	12444918.85	12444918.98	0.0145	0.0069
Mercury	29361-03-03 12:57 G	12445006.93	12445007.04	12445007.15	0.0145	0.0092
Mercury	29361-05-30 17:17 G	12445095.14	12445095.22	12445095.31	0.0145	0.0115
Mercury	29361-08-26 21:36 G	12445183.37	12445183.40	12445183.45	0.0145	0.0139
Mars	29364-02-21 20:53 G	12446092.10	12446092.37	12446092.67	0.0145	0.0064
Moon	29383-07-23 12:00 G	12453183.80	12453184.00	12453184.23	0.0140	0.0077
Earth	29383-07-23 14:53 G	12453183.94	12453184.12	12453184.34	0.0140	0.0083 *
Earth	29384-07-27 07:12 G	12453553.55	12453553.80	12453554.06	0.0139	0.0010

Moon	29384-07-27 09:50 G	12453553.67	12453553.91	12453554.16	0.0139	0.0017	*
Moon	29385-07-31 19:41 G	12453923.11	12453923.32	12453923.56	0.0139	0.0069	
Earth	29385-07-31 22:33 G	12453923.22	12453923.44	12453923.68	0.0139	0.0062	*
Earth	29386-08-05 13:12 G	12454292.99	12454293.05	12454293.13	0.0138	0.0133	
Moon	29386-08-05 14:53 G	12454293.06	12454293.12	12454293.22	0.0138	0.0131	*
Venus	29388-09-29 21:07 G	12455079.27	12455079.38	12455079.53	0.0137	0.0112	
Venus	29389-05-14 05:31 G	12455305.55	12455305.73	12455305.91	0.0137	0.0078	
Venus	29389-12-26 13:12 G	12455531.85	12455532.05	12455532.26	0.0137	0.0046	
Venus	29390-08-09 20:53 G	12455758.15	12455758.37	12455758.58	0.0137	0.0014	
Venus	29391-03-24 04:05 G	12455984.45	12455984.67	12455984.89	0.0136	0.0018	
Venus	29391-11-05 11:02 G	12456210.77	12456210.96	12456211.17	0.0136	0.0050	
Venus	29392-06-18 18:29 G	12456437.10	12456437.27	12456437.44	0.0136	0.0081	
Venus	29393-01-31 00:57 G	12456663.44	12456663.54	12456663.68	0.0136	0.0113	
Mercury	29399-11-06 01:12 G	12459133.55	12459133.55	12459133.57	0.0134	0.0134	
Mercury	29400-02-02 07:12 G	12459221.71	12459221.80	12459221.91	0.0134	0.0111	
Mercury	29400-05-01 13:12 G	12459309.93	12459310.05	12459310.19	0.0134	0.0089	
Mercury	29400-07-28 19:12 G	12459398.16	12459398.30	12459398.46	0.0134	0.0066	
Mercury	29400-10-25 01:12 G	12459486.39	12459486.55	12459486.72	0.0134	0.0044	
Mercury	29401-01-21 07:12 G	12459574.62	12459574.80	12459574.97	0.0134	0.0022	
Mercury	29401-04-19 12:57 G	12459662.86	12459663.04	12459663.21	0.0133	0.0001	
Mercury	29401-07-16 18:29 G	12459751.11	12459751.27	12459751.45	0.0133	0.0023	
Mercury	29401-10-13 00:14 G	12459839.35	12459839.51	12459839.68	0.0133	0.0044	
Mercury	29402-01-09 05:45 G	12459927.60	12459927.74	12459927.90	0.0133	0.0066	
Mercury	29402-04-07 11:31 G	12460015.85	12460015.98	12460016.12	0.0133	0.0086	
Mercury	29402-07-04 17:02 G	12460104.12	12460104.21	12460104.32	0.0133	0.0107	
Mercury	29402-09-30 22:19 G	12460192.40	12460192.43	12460192.49	0.0133	0.0129	
Mars	29404-09-05 02:24 G	12460897.39	12460897.60	12460897.82	0.0133	0.0093	
Mars	29406-08-06 10:33 G	12461597.91	12461597.94	12461598.02	0.0133	0.0131	
Moon	29427-01-19 12:57 G	12469069.01	12469069.04	12469069.12	0.0138	0.0136	
Jupiter	29427-11-15 15:50 G	12469368.74	12469369.16	12469369.62	0.0139	0.0064	

Earth	29428-01-24 08:53 G	12469438.65	12469438.87	12469439.09	0.0139	0.0068
Moon	29428-01-24 12:00 G	12469438.80	12469439.00	12469439.24	0.0139	0.0069 *
Moon	29429-01-27 21:50 G	12469808.16	12469808.41	12469808.67	0.0139	0.0002
Earth	29429-01-28 01:26 G	12469808.30	12469808.56	12469808.81	0.0139	0.0004 *
Earth	29430-02-01 18:00 G	12470178.05	12470178.25	12470178.48	0.0140	0.0077
Moon	29430-02-01 21:21 G	12470178.21	12470178.39	12470178.61	0.0140	0.0084 *
Venus	29432-09-24 19:41 G	12471144.23	12471144.32	12471144.43	0.0141	0.0125
Venus	29433-05-09 05:17 G	12471370.56	12471370.72	12471370.89	0.0141	0.0090
Venus	29433-12-21 14:53 G	12471596.93	12471597.12	12471597.33	0.0141	0.0056
Venus	29434-08-05 00:43 G	12471823.32	12471823.53	12471823.75	0.0142	0.0020
Venus	29435-03-19 10:48 G	12472049.73	12472049.95	12472050.16	0.0142	0.0015
Venus	29435-10-31 20:38 G	12472276.17	12472276.36	12472276.57	0.0142	0.0052
Venus	29436-06-14 06:57 G	12472502.63	12472502.79	12472502.97	0.0142	0.0087
Venus	29437-01-26 17:17 G	12472729.13	12472729.22	12472729.34	0.0143	0.0124
Mercury	29442-10-25 01:55 G	12474826.51	12474826.58	12474826.65	0.0144	0.0123
Mercury	29443-01-21 06:00 G	12474914.66	12474914.75	12474914.85	0.0145	0.0102
Mercury	29443-04-19 10:19 G	12475002.81	12475002.93	12475003.05	0.0145	0.0080
Mercury	29443-07-16 14:24 G	12475090.98	12475091.10	12475091.23	0.0145	0.0058
Mercury	29443-10-12 18:43 G	12475179.14	12475179.28	12475179.42	0.0145	0.0036
Mercury	29444-01-08 23:02 G	12475267.32	12475267.46	12475267.60	0.0145	0.0014
Mercury	29444-04-06 03:21 G	12475355.50	12475355.64	12475355.78	0.0145	0.0009
Mercury	29444-07-03 07:41 G	12475443.68	12475443.82	12475443.96	0.0145	0.0032
Mercury	29444-09-29 12:00 G	12475531.87	12475532.00	12475532.13	0.0145	0.0054
Mercury	29444-12-26 16:19 G	12475620.06	12475620.18	12475620.30	0.0145	0.0077
Mercury	29445-03-24 20:38 G	12475708.26	12475708.36	12475708.47	0.0145	0.0101
Mercury	29445-06-21 00:57 G	12475796.48	12475796.54	12475796.63	0.0145	0.0124
Mars	29446-11-14 04:48 G	12476307.57	12476307.70	12476307.87	0.0145	0.0127
Moon	29467-07-24 22:48 G	12483865.25	12483865.45	12483865.65	0.0140	0.0085
Earth	29467-07-25 01:55 G	12483865.39	12483865.58	12483865.81	0.0140	0.0079 *
Earth	29468-07-28 18:14 G	12484235.01	12484235.26	12484235.52	0.0139	0.0006

Moon	29468-07-28 21:36 G	12484235.15	12484235.40	12484235.65	0.0139	0.0002 *
Moon	29469-08-02 06:57 G	12484604.55	12484604.79	12484605.02	0.0139	0.0059
Earth	29469-08-02 09:36 G	12484604.68	12484604.90	12484605.13	0.0139	0.0066 *
Earth	29470-08-07 00:00 G	12484974.48	12484974.50	12484974.56	0.0138	0.0136
Venus	29472-05-31 06:29 G	12485637.68	12485637.77	12485637.86	0.0137	0.0124
Venus	29473-01-12 14:09 G	12485863.94	12485864.09	12485864.26	0.0137	0.0092
Venus	29473-08-26 21:50 G	12486090.22	12486090.41	12486090.62	0.0137	0.0059
Venus	29474-04-10 05:31 G	12486316.52	12486316.73	12486316.95	0.0137	0.0027
Venus	29474-11-22 12:57 G	12486542.83	12486543.04	12486543.26	0.0136	0.0006
Venus	29475-07-06 20:09 G	12486769.14	12486769.34	12486769.56	0.0136	0.0038
Venus	29476-02-18 03:21 G	12486995.46	12486995.64	12486995.83	0.0136	0.0068
Venus	29476-10-01 10:05 G	12487221.79	12487221.92	12487222.08	0.0136	0.0100
Venus	29477-05-15 16:48 G	12487448.16	12487448.20	12487448.28	0.0136	0.0131
Mercury	29483-11-27 08:38 G	12489834.81	12489834.86	12489834.91	0.0134	0.0127
Mercury	29484-02-23 14:24 G	12489923.00	12489923.10	12489923.22	0.0134	0.0105
Mercury	29484-05-21 20:38 G	12490011.22	12490011.36	12490011.50	0.0134	0.0082
Mercury	29484-08-18 02:24 G	12490099.45	12490099.60	12490099.77	0.0134	0.0060
Mercury	29484-11-14 08:24 G	12490187.68	12490187.85	12490188.02	0.0134	0.0037
Mercury	29485-02-10 14:24 G	12490275.92	12490276.10	12490276.27	0.0134	0.0015
Mercury	29485-05-09 20:09 G	12490364.16	12490364.34	12490364.51	0.0133	0.0007
Mercury	29485-08-06 01:55 G	12490452.41	12490452.58	12490452.75	0.0133	0.0028
Mercury	29485-11-02 07:26 G	12490540.65	12490540.81	12490540.98	0.0133	0.0050
Mercury	29486-01-29 12:57 G	12490628.90	12490629.04	12490629.20	0.0133	0.0072
Mercury	29486-04-27 18:43 G	12490717.16	12490717.28	12490717.41	0.0133	0.0092
Mercury	29486-07-25 00:14 G	12490805.43	12490805.51	12490805.61	0.0133	0.0113
Mars	29489-04-30 14:53 G	12491815.82	12491816.12	12491816.43	0.0133	0.0006
Earth	29511-01-21 03:50 G	12499750.63	12499750.66	12499750.73	0.0138	0.0135
Earth	29512-01-25 19:26 G	12500120.10	12500120.31	12500120.55	0.0139	0.0065
Moon	29512-01-25 23:31 G	12500120.26	12500120.48	12500120.71	0.0139	0.0065 *
Moon	29513-01-29 08:38 G	12500489.61	12500489.86	12500490.11	0.0139	0.0010

Earth	29513-01-29 12:14 G	12500489.76	12500490.01	12500490.27	0.0139	0.0008 *
Earth	29514-02-03 04:48 G	12500859.50	12500859.70	12500859.92	0.0140	0.0081
Moon	29514-02-03 08:09 G	12500859.64	12500859.84	12500860.06	0.0140	0.0074 *
Venus	29516-05-26 03:36 G	12501702.63	12501702.65	12501702.70	0.0141	0.0139
Venus	29517-01-07 13:26 G	12501928.91	12501929.06	12501929.20	0.0141	0.0104
Venus	29517-08-21 22:33 G	12502155.27	12502155.44	12502155.64	0.0141	0.0070
Venus	29518-04-05 08:24 G	12502381.65	12502381.85	12502382.07	0.0142	0.0035
Venus	29518-11-17 18:29 G	12502608.05	12502608.27	12502608.49	0.0142	0.0001
Venus	29519-07-02 04:33 G	12502834.48	12502834.69	12502834.90	0.0142	0.0036
Venus	29520-02-13 14:24 G	12503060.92	12503061.10	12503061.30	0.0142	0.0073
Venus	29520-09-27 00:43 G	12503287.40	12503287.53	12503287.68	0.0143	0.0109
Mercury	29526-08-19 05:17 G	12505439.69	12505439.72	12505439.76	0.0144	0.0139
Mercury	29526-11-15 09:07 G	12505527.81	12505527.88	12505527.97	0.0145	0.0118
Mercury	29527-02-11 13:26 G	12505615.96	12505616.06	12505616.17	0.0145	0.0096
Mercury	29527-05-10 17:45 G	12505704.12	12505704.24	12505704.36	0.0145	0.0074
Mercury	29527-08-06 21:50 G	12505792.28	12505792.41	12505792.55	0.0145	0.0052
Mercury	29527-11-03 02:09 G	12505880.45	12505880.59	12505880.73	0.0145	0.0030
Mercury	29528-01-30 06:29 G	12505968.63	12505968.77	12505968.91	0.0145	0.0008
Mercury	29528-04-27 10:48 G	12506056.81	12506056.95	12506057.09	0.0145	0.0016
Mercury	29528-07-24 15:07 G	12506144.99	12506145.13	12506145.26	0.0145	0.0038
Mercury	29528-10-20 19:26 G	12506233.18	12506233.31	12506233.44	0.0145	0.0061
Mercury	29529-01-16 23:45 G	12506321.38	12506321.49	12506321.61	0.0145	0.0084
Mercury	29529-04-15 04:05 G	12506409.58	12506409.67	12506409.77	0.0145	0.0107
Mercury	29529-07-12 08:38 G	12506497.80	12506497.86	12506497.92	0.0145	0.0130
Mars	29531-07-12 02:38 G	12507227.30	12507227.61	12507227.93	0.0145	0.0010
Moon	29551-07-26 10:33 G	12514546.73	12514546.94	12514547.17	0.0140	0.0070
Earth	29551-07-26 14:09 G	12514546.88	12514547.09	12514547.31	0.0140	0.0075 *
Earth	29552-07-30 06:14 G	12514916.50	12514916.76	12514917.01	0.0139	0.0002
Moon	29552-07-30 09:36 G	12514916.65	12514916.90	12514917.15	0.0139	0.0010 *
Moon	29553-08-03 18:00 G	12515286.05	12515286.25	12515286.47	0.0139	0.0077

Earth	29553-08-03 21:21 G	12515286.19	12515286.39	12515286.62	0.0139	0.0070	*
Moon	29554-08-08 14:53 G	12515656.10	12515656.12	12515656.17	0.0138	0.0137	
Venus	29556-01-30 15:07 G	12516196.13	12516196.13	12516196.18	0.0138	0.0137	
Venus	29556-09-12 23:02 G	12516422.34	12516422.46	12516422.62	0.0137	0.0105	
Venus	29557-04-27 07:26 G	12516648.62	12516648.81	12516648.99	0.0137	0.0072	
Venus	29557-12-09 15:07 G	12516874.92	12516875.13	12516875.34	0.0137	0.0039	
Venus	29558-07-23 22:33 G	12517101.22	12517101.44	12517101.66	0.0137	0.0007	
Venus	29559-03-07 05:45 G	12517327.53	12517327.74	12517327.96	0.0136	0.0025	
Venus	29559-10-19 12:43 G	12517553.84	12517554.03	12517554.24	0.0136	0.0056	
Venus	29560-06-01 19:55 G	12517780.17	12517780.33	12517780.51	0.0136	0.0087	
Venus	29561-01-14 02:53 G	12518006.52	12518006.62	12518006.73	0.0136	0.0118	
Mercury	29567-12-18 15:36 G	12520536.09	12520536.15	12520536.24	0.0134	0.0121	
Mercury	29568-03-15 21:50 G	12520624.30	12520624.41	12520624.54	0.0134	0.0098	
Mercury	29568-06-12 03:50 G	12520712.52	12520712.66	12520712.81	0.0134	0.0075	
Mercury	29568-09-08 09:50 G	12520800.75	12520800.91	12520801.08	0.0134	0.0053	
Mercury	29568-12-05 15:50 G	12520888.99	12520889.16	12520889.33	0.0134	0.0031	
Mercury	29569-03-03 21:36 G	12520977.23	12520977.40	12520977.58	0.0133	0.0009	
Mercury	29569-05-31 03:21 G	12521065.47	12521065.64	12521065.82	0.0133	0.0013	
Mercury	29569-08-27 09:07 G	12521153.71	12521153.88	12521154.05	0.0133	0.0035	
Mercury	29569-11-23 14:38 G	12521241.96	12521242.11	12521242.28	0.0133	0.0057	
Mercury	29570-02-19 20:24 G	12521330.21	12521330.35	12521330.50	0.0133	0.0078	
Mercury	29570-05-19 02:09 G	12521418.47	12521418.59	12521418.70	0.0133	0.0099	
Mercury	29570-08-15 07:26 G	12521506.75	12521506.81	12521506.89	0.0133	0.0120	
Mars	29573-12-25 03:21 G	12522734.41	12522734.64	12522734.88	0.0133	0.0081	
Moon	29595-01-21 09:36 G	12530431.83	12530431.90	12530432.02	0.0138	0.0129	
Earth	29595-01-21 13:55 G	12530432.01	12530432.08	12530432.14	0.0138	0.0133	*
Earth	29596-01-26 05:02 G	12530801.49	12530801.71	12530801.95	0.0139	0.0062	
Moon	29596-01-26 08:24 G	12530801.63	12530801.85	12530802.09	0.0139	0.0064	*
Moon	29597-01-29 17:45 G	12531170.99	12531171.24	12531171.50	0.0139	0.0007	
Earth	29597-01-29 21:21 G	12531171.14	12531171.39	12531171.65	0.0139	0.0010	*

Earth	29598-02-03 14:09 G	12531540.89	12531541.09	12531541.29	0.0140	0.0083
Moon	29598-02-03 17:31 G	12531541.05	12531541.23	12531541.44	0.0140	0.0089 *
Venus	29600-09-06 20:09 G	12532487.24	12532487.34	12532487.46	0.0141	0.0119
Venus	29601-04-21 05:31 G	12532713.57	12532713.73	12532713.91	0.0141	0.0085
Venus	29601-12-03 15:21 G	12532939.94	12532940.14	12532940.35	0.0141	0.0050
Venus	29602-07-18 01:12 G	12533166.33	12533166.55	12533166.77	0.0142	0.0015
Venus	29603-03-01 11:02 G	12533392.75	12533392.96	12533393.18	0.0142	0.0021
Venus	29603-10-13 21:07 G	12533619.18	12533619.38	12533619.58	0.0142	0.0056
Venus	29604-05-27 07:12 G	12533845.65	12533845.80	12533845.97	0.0142	0.0093
Venus	29605-01-08 17:45 G	12534072.16	12534072.24	12534072.34	0.0143	0.0129
Mercury	29610-09-08 12:14 G	12536140.97	12536141.01	12536141.07	0.0144	0.0134
Mercury	29610-12-05 16:19 G	12536229.10	12536229.18	12536229.27	0.0144	0.0113
Mercury	29611-03-03 20:38 G	12536317.25	12536317.36	12536317.47	0.0145	0.0091
Mercury	29611-05-31 00:43 G	12536405.41	12536405.53	12536405.66	0.0145	0.0069
Mercury	29611-08-27 04:48 G	12536493.58	12536493.70	12536493.84	0.0145	0.0048
Mercury	29611-11-23 09:07 G	12536581.74	12536581.88	12536582.02	0.0145	0.0025
Mercury	29612-02-19 13:26 G	12536669.92	12536670.06	12536670.20	0.0145	0.0003
Mercury	29612-05-17 17:45 G	12536758.10	12536758.24	12536758.38	0.0145	0.0020
Mercury	29612-08-13 21:50 G	12536846.28	12536846.41	12536846.55	0.0145	0.0043
Mercury	29612-11-10 02:24 G	12536934.47	12536934.60	12536934.73	0.0145	0.0065
Mercury	29613-02-06 06:43 G	12537022.67	12537022.78	12537022.90	0.0145	0.0088
Mercury	29613-05-05 11:17 G	12537110.88	12537110.97	12537111.06	0.0145	0.0111
Mercury	29613-08-01 15:21 G	12537199.10	12537199.14	12537199.20	0.0145	0.0135
Mars	29616-03-06 19:55 G	12538147.12	12538147.33	12538147.56	0.0145	0.0106
Moon	29635-07-26 19:41 G	12545228.11	12545228.32	12545228.53	0.0140	0.0078
Earth	29635-07-26 23:02 G	12545228.26	12545228.46	12545228.69	0.0140	0.0073 *
Jupiter	29635-07-28 16:48 G	12545229.88	12545230.20	12545230.62	0.0140	0.0102
Earth	29636-07-30 15:21 G	12545597.89	12545598.14	12545598.40	0.0139	0.0003
Moon	29636-07-30 18:57 G	12545598.04	12545598.29	12545598.55	0.0139	0.0007 *
Moon	29637-08-04 03:21 G	12545967.42	12545967.64	12545967.87	0.0139	0.0065

Earth	29637-08-04 06:57 G	12545967.57	12545967.79	12545968.01	0.0139	0.0072 *
Venus	29640-05-13 07:12 G	12546980.70	12546980.80	12546980.92	0.0138	0.0118
Venus	29640-12-25 15:07 G	12547206.97	12547207.13	12547207.31	0.0137	0.0086
Venus	29641-08-08 22:48 G	12547433.26	12547433.45	12547433.66	0.0137	0.0053
Venus	29642-03-23 06:29 G	12547659.56	12547659.77	12547659.99	0.0137	0.0021
Venus	29642-11-04 13:55 G	12547885.86	12547886.08	12547886.30	0.0137	0.0011
Venus	29643-06-18 21:07 G	12548112.18	12548112.38	12548112.60	0.0136	0.0043
Venus	29644-01-31 04:05 G	12548338.50	12548338.67	12548338.87	0.0136	0.0074
Venus	29644-09-13 11:02 G	12548564.84	12548564.96	12548565.11	0.0136	0.0105
Venus	29645-04-27 18:00 G	12548791.25	12548791.25	12548791.27	0.0136	0.0135
Mercury	29652-01-07 22:48 G	12551237.37	12551237.45	12551237.54	0.0134	0.0115
Mercury	29652-04-05 04:48 G	12551325.58	12551325.70	12551325.83	0.0134	0.0093
Mercury	29652-07-02 10:48 G	12551413.80	12551413.95	12551414.11	0.0134	0.0070
Mercury	29652-09-28 16:48 G	12551502.04	12551502.20	12551502.37	0.0134	0.0048
Mercury	29652-12-25 22:33 G	12551590.27	12551590.44	12551590.62	0.0134	0.0026
Mercury	29653-03-24 04:33 G	12551678.51	12551678.69	12551678.87	0.0134	0.0004
Mercury	29653-06-20 10:19 G	12551766.76	12551766.93	12551767.10	0.0133	0.0018
Mercury	29653-09-16 16:05 G	12551855.00	12551855.17	12551855.34	0.0133	0.0040
Mercury	29653-12-13 21:36 G	12551943.25	12551943.40	12551943.56	0.0133	0.0062
Mercury	29654-03-12 03:21 G	12552031.51	12552031.64	12552031.78	0.0133	0.0083
Mercury	29654-06-08 08:53 G	12552119.77	12552119.87	12552119.98	0.0133	0.0104
Mercury	29654-09-04 14:24 G	12552208.05	12552208.10	12552208.16	0.0133	0.0125
Mars	29656-09-18 02:38 G	12552952.36	12552952.61	12552952.90	0.0133	0.0061
Moon	29679-01-21 19:26 G	12561113.29	12561113.31	12561113.37	0.0138	0.0136
Earth	29679-01-21 22:19 G	12561113.37	12561113.43	12561113.53	0.0138	0.0131 *
Earth	29680-01-26 13:41 G	12561482.85	12561483.07	12561483.31	0.0139	0.0060
Moon	29680-01-26 17:17 G	12561483.00	12561483.22	12561483.47	0.0139	0.0058 *
Moon	29681-01-30 02:38 G	12561852.37	12561852.61	12561852.87	0.0139	0.0013
Earth	29681-01-30 06:00 G	12561852.50	12561852.75	12561853.01	0.0139	0.0012 *
Earth	29682-02-03 22:05 G	12562222.23	12562222.42	12562222.64	0.0140	0.0086

Moon	29682-02-04 01:41 G	12562222.37	12562222.57	12562222.79	0.0140	0.0080 *
Venus	29684-05-07 02:53 G	12563045.56	12563045.62	12563045.68	0.0141	0.0134
Venus	29684-12-19 12:00 G	12563271.86	12563272.00	12563272.16	0.0141	0.0100
Venus	29685-08-02 21:21 G	12563498.21	12563498.39	12563498.60	0.0141	0.0066
Venus	29686-03-17 07:12 G	12563724.59	12563724.80	12563725.01	0.0141	0.0031
Venus	29686-10-29 17:02 G	12563950.99	12563951.21	12563951.43	0.0142	0.0005
Venus	29687-06-13 02:53 G	12564177.42	12564177.62	12564177.83	0.0142	0.0040
Venus	29688-01-25 12:57 G	12564403.87	12564404.04	12564404.23	0.0142	0.0076
Venus	29688-09-07 23:02 G	12564630.35	12564630.46	12564630.61	0.0142	0.0113
Mercury	29694-09-28 18:57 G	12566842.24	12566842.29	12566842.35	0.0144	0.0131
Mercury	29694-12-25 23:02 G	12566930.38	12566930.46	12566930.56	0.0144	0.0110
Mercury	29695-03-24 03:21 G	12567018.53	12567018.64	12567018.75	0.0145	0.0088
Mercury	29695-06-20 07:26 G	12567106.69	12567106.81	12567106.94	0.0145	0.0066
Mercury	29695-09-16 11:31 G	12567194.85	12567194.98	12567195.12	0.0145	0.0045
Mercury	29695-12-13 15:50 G	12567283.02	12567283.16	12567283.30	0.0145	0.0022
Mercury	29696-03-10 20:09 G	12567371.20	12567371.34	12567371.48	0.0145	0.0001
Mercury	29696-06-07 00:29 G	12567459.38	12567459.52	12567459.66	0.0145	0.0023
Mercury	29696-09-03 04:33 G	12567547.56	12567547.69	12567547.83	0.0145	0.0046
Mercury	29696-11-30 09:07 G	12567635.75	12567635.88	12567636.00	0.0145	0.0068
Mercury	29697-02-26 13:26 G	12567723.95	12567724.06	12567724.17	0.0145	0.0091
Mercury	29697-05-25 18:00 G	12567812.16	12567812.25	12567812.33	0.0145	0.0114
Mercury	29697-08-21 22:05 G	12567900.39	12567900.42	12567900.47	0.0145	0.0138
Mars	29698-11-26 18:00 G	12568362.03	12568362.25	12568362.49	0.0145	0.0096
Moon	29719-07-28 04:05 G	12575909.47	12575909.67	12575909.91	0.0140	0.0068
Earth	29719-07-28 07:41 G	12575909.61	12575909.82	12575910.04	0.0140	0.0071 *
Earth	29720-07-31 23:45 G	12576279.24	12576279.49	12576279.75	0.0139	0.0003
Moon	29720-08-01 03:36 G	12576279.39	12576279.65	12576279.90	0.0139	0.0005 *
Moon	29721-08-05 11:31 G	12576648.79	12576648.98	12576649.20	0.0139	0.0082
Earth	29721-08-05 15:21 G	12576648.93	12576649.14	12576649.36	0.0139	0.0074 *
Venus	29724-01-12 14:24 G	12577539.05	12577539.10	12577539.17	0.0138	0.0132

Venus	29724-08-25 22:19 G	12577765.30	12577765.43	12577765.60	0.0138	0.0100
Venus	29725-04-09 06:14 G	12577991.58	12577991.76	12577991.96	0.0137	0.0068
Venus	29725-11-21 14:09 G	12578217.88	12578218.09	12578218.30	0.0137	0.0035
Venus	29726-07-05 21:50 G	12578444.19	12578444.41	12578444.63	0.0137	0.0004
Venus	29727-02-17 05:17 G	12578670.51	12578670.72	12578670.93	0.0137	0.0029
Venus	29727-10-01 12:14 G	12578896.83	12578897.01	12578897.22	0.0136	0.0061
Venus	29728-05-14 19:12 G	12579123.16	12579123.30	12579123.48	0.0136	0.0092
Venus	29728-12-27 02:09 G	12579349.52	12579349.59	12579349.70	0.0136	0.0123
Mercury	29735-11-01 23:31 G	12581850.47	12581850.48	12581850.51	0.0134	0.0133
Mercury	29736-01-29 05:45 G	12581938.65	12581938.74	12581938.85	0.0134	0.0110
Mercury	29736-04-26 11:45 G	12582026.86	12582026.99	12582027.13	0.0134	0.0087
Mercury	29736-07-23 17:45 G	12582115.09	12582115.24	12582115.40	0.0134	0.0065
Mercury	29736-10-19 23:31 G	12582203.32	12582203.48	12582203.66	0.0134	0.0043
Mercury	29737-01-16 05:31 G	12582291.56	12582291.73	12582291.91	0.0134	0.0021
Mercury	29737-04-14 11:31 G	12582379.80	12582379.98	12582380.16	0.0134	0.0002
Mercury	29737-07-11 17:17 G	12582468.05	12582468.22	12582468.39	0.0134	0.0024
Mercury	29737-10-07 22:48 G	12582556.29	12582556.45	12582556.62	0.0134	0.0046
Mercury	29738-01-04 04:33 G	12582644.55	12582644.69	12582644.85	0.0133	0.0067
Mercury	29738-04-02 10:05 G	12582732.80	12582732.92	12582733.06	0.0133	0.0088
Mercury	29738-06-29 15:36 G	12582821.07	12582821.15	12582821.26	0.0133	0.0110
Mercury	29738-09-25 21:07 G	12582909.36	12582909.38	12582909.43	0.0133	0.0130
Mars	29741-05-14 16:05 G	12583870.89	12583871.17	12583871.48	0.0133	0.0027
Moon	29763-01-23 06:14 G	12591794.65	12591794.76	12591794.88	0.0138	0.0121
Earth	29763-01-23 08:53 G	12591794.79	12591794.87	12591794.98	0.0138	0.0127 *
Earth	29764-01-28 00:00 G	12592164.28	12592164.50	12592164.75	0.0139	0.0057
Moon	29764-01-28 02:53 G	12592164.39	12592164.62	12592164.86	0.0139	0.0060 *
Moon	29765-01-31 12:57 G	12592533.79	12592534.04	12592534.29	0.0139	0.0014
Earth	29765-01-31 16:05 G	12592533.92	12592534.17	12592534.43	0.0139	0.0016 *
Earth	29766-02-05 08:09 G	12592903.66	12592903.84	12592904.05	0.0140	0.0089
Moon	29766-02-05 11:31 G	12592903.80	12592903.98	12592904.19	0.0140	0.0093 *

Venus	29768-08-19 19:41 G	12593830.20	12593830.32	12593830.45	0.0141	0.0114
Venus	29769-04-03 05:02 G	12594056.54	12594056.71	12594056.89	0.0141	0.0080
Venus	29769-11-15 14:38 G	12594282.91	12594283.11	12594283.32	0.0141	0.0045
Venus	29770-06-30 00:29 G	12594509.30	12594509.52	12594509.73	0.0141	0.0010
Venus	29771-02-11 10:05 G	12594735.71	12594735.92	12594736.14	0.0142	0.0026
Venus	29771-09-25 19:55 G	12594962.15	12594962.33	12594962.54	0.0142	0.0061
Venus	29772-05-09 06:14 G	12595188.61	12595188.76	12595188.93	0.0142	0.0097
Venus	29772-12-21 16:33 G	12595415.13	12595415.19	12595415.29	0.0142	0.0133
Mercury	29778-10-20 02:09 G	12597543.53	12597543.59	12597543.66	0.0144	0.0127
Mercury	29779-01-16 06:00 G	12597631.67	12597631.75	12597631.85	0.0144	0.0106
Mercury	29779-04-14 10:19 G	12597719.82	12597719.93	12597720.05	0.0145	0.0084
Mercury	29779-07-11 14:24 G	12597807.98	12597808.10	12597808.23	0.0145	0.0062
Mercury	29779-10-07 18:43 G	12597896.14	12597896.28	12597896.41	0.0145	0.0040
Mercury	29780-01-03 22:48 G	12597984.31	12597984.45	12597984.59	0.0145	0.0018
Mercury	29780-04-01 03:07 G	12598072.49	12598072.63	12598072.77	0.0145	0.0005
Mercury	29780-06-28 07:26 G	12598160.67	12598160.81	12598160.95	0.0145	0.0027
Mercury	29780-09-24 11:45 G	12598248.86	12598248.99	12598249.12	0.0145	0.0050
Mercury	29780-12-21 15:50 G	12598337.05	12598337.16	12598337.29	0.0145	0.0073
Mercury	29781-03-19 20:09 G	12598425.24	12598425.34	12598425.46	0.0145	0.0096
Mercury	29781-06-16 00:29 G	12598513.45	12598513.52	12598513.62	0.0145	0.0119
Mercury	29781-09-12 05:02 G	12598601.69	12598601.71	12598601.75	0.0145	0.0142
Mars	29783-07-24 08:09 G	12599281.53	12599281.84	12599282.15	0.0145	0.0018
Moon	29803-07-29 11:02 G	12606590.76	12606590.96	12606591.18	0.0140	0.0075
Earth	29803-07-29 14:38 G	12606590.90	12606591.11	12606591.33	0.0140	0.0070 *
Earth	29804-08-02 06:57 G	12606960.53	12606960.79	12606961.04	0.0139	0.0003
Moon	29804-08-02 10:05 G	12606960.67	12606960.92	12606961.18	0.0139	0.0009 *
Moon	29805-08-06 18:43 G	12607330.07	12607330.28	12607330.51	0.0139	0.0068
Earth	29805-08-06 22:19 G	12607330.22	12607330.43	12607330.65	0.0139	0.0075 *
Venus	29808-04-26 04:48 G	12608323.59	12608323.70	12608323.83	0.0138	0.0115
Venus	29808-12-08 12:43 G	12608549.87	12608550.03	12608550.22	0.0138	0.0083

Venus	29809-07-22 20:38 G	12608776.17	12608776.36	12608776.58	0.0137	0.0051
Venus	29810-03-06 04:33 G	12609002.48	12609002.69	12609002.91	0.0137	0.0018
Venus	29810-10-18 12:00 G	12609228.79	12609229.00	12609229.22	0.0137	0.0015
Venus	29811-06-01 19:26 G	12609455.11	12609455.31	12609455.52	0.0136	0.0046
Venus	29812-01-14 02:53 G	12609681.44	12609681.62	12609681.80	0.0136	0.0077
Venus	29812-08-27 09:36 G	12609907.79	12609907.90	12609908.05	0.0136	0.0109
Mercury	29819-11-23 06:00 G	12612551.72	12612551.75	12612551.81	0.0134	0.0129
Mercury	29820-02-19 12:14 G	12612639.91	12612640.01	12612640.12	0.0134	0.0106
Mercury	29820-05-17 18:29 G	12612728.13	12612728.27	12612728.41	0.0134	0.0083
Mercury	29820-08-14 00:14 G	12612816.36	12612816.51	12612816.67	0.0134	0.0061
Mercury	29820-11-10 06:14 G	12612904.59	12612904.76	12612904.93	0.0134	0.0038
Mercury	29821-02-06 12:14 G	12612992.83	12612993.01	12612993.18	0.0134	0.0016
Mercury	29821-05-05 18:00 G	12613081.08	12613081.25	12613081.43	0.0134	0.0006
Mercury	29821-08-01 23:45 G	12613169.32	12613169.49	12613169.66	0.0134	0.0028
Mercury	29821-10-29 05:17 G	12613257.57	12613257.72	12613257.89	0.0134	0.0050
Mercury	29822-01-25 11:17 G	12613345.82	12613345.97	12613346.12	0.0134	0.0071
Mercury	29822-04-23 16:33 G	12613434.08	12613434.19	12613434.33	0.0134	0.0093
Mercury	29822-07-20 22:05 G	12613522.35	12613522.42	12613522.53	0.0134	0.0114
Mars	29824-02-07 10:19 G	12614088.82	12614088.93	12614089.09	0.0133	0.0120
Mars	29826-01-08 01:41 G	12614789.44	12614789.57	12614789.75	0.0133	0.0113
Moon	29847-01-24 17:45 G	12622476.18	12622476.24	12622476.35	0.0138	0.0131
Earth	29847-01-24 19:55 G	12622476.23	12622476.33	12622476.45	0.0138	0.0124 *
Earth	29848-01-29 11:02 G	12622845.73	12622845.96	12622846.20	0.0139	0.0053
Moon	29848-01-29 13:41 G	12622845.84	12622846.07	12622846.33	0.0139	0.0050 *
Moon	29849-02-02 00:29 G	12623215.28	12623215.52	12623215.78	0.0139	0.0020
Earth	29849-02-02 02:53 G	12623215.38	12623215.62	12623215.88	0.0139	0.0020 *
Earth	29850-02-06 19:26 G	12623585.12	12623585.31	12623585.50	0.0139	0.0093
Moon	29850-02-06 22:19 G	12623585.24	12623585.43	12623585.64	0.0139	0.0088 *
Venus	29852-04-20 03:50 G	12624388.59	12624388.66	12624388.77	0.0140	0.0128
Venus	29852-12-02 13:26 G	12624614.91	12624615.06	12624615.23	0.0141	0.0094

Venus	29853-07-16 23:02 G	12624841.27	12624841.46	12624841.66	0.0141	0.0059
Venus	29854-02-28 08:38 G	12625067.65	12625067.86	12625068.08	0.0141	0.0024
Venus	29854-10-12 18:14 G	12625294.05	12625294.26	12625294.48	0.0142	0.0012
Venus	29855-05-27 04:05 G	12625520.48	12625520.67	12625520.89	0.0142	0.0047
Venus	29856-01-08 14:24 G	12625746.93	12625747.10	12625747.29	0.0142	0.0082
Venus	29856-08-22 00:43 G	12625973.42	12625973.53	12625973.66	0.0142	0.0118
Mercury	29862-08-14 05:17 G	12628156.71	12628156.72	12628156.75	0.0144	0.0142
Mercury	29862-11-10 09:21 G	12628244.82	12628244.89	12628244.97	0.0144	0.0121
Mercury	29863-02-06 13:26 G	12628332.97	12628333.06	12628333.17	0.0144	0.0100
Mercury	29863-05-05 17:45 G	12628421.12	12628421.24	12628421.36	0.0144	0.0078
Mercury	29863-08-01 21:50 G	12628509.28	12628509.41	12628509.54	0.0145	0.0056
Mercury	29863-10-29 01:55 G	12628597.45	12628597.58	12628597.72	0.0145	0.0035
Mercury	29864-01-25 06:14 G	12628685.62	12628685.76	12628685.90	0.0145	0.0012
Mercury	29864-04-22 10:33 G	12628773.80	12628773.94	12628774.08	0.0145	0.0011
Mercury	29864-07-19 14:38 G	12628861.98	12628862.11	12628862.25	0.0145	0.0033
Mercury	29864-10-15 18:57 G	12628950.16	12628950.29	12628950.42	0.0145	0.0056
Mercury	29865-01-11 23:17 G	12629038.35	12629038.47	12629038.59	0.0145	0.0078
Mercury	29865-04-10 03:36 G	12629126.56	12629126.65	12629126.76	0.0145	0.0101
Mercury	29865-07-07 07:55 G	12629214.77	12629214.83	12629214.91	0.0145	0.0125
Mars	29868-03-20 04:05 G	12630201.60	12630201.67	12630201.80	0.0145	0.0137
Moon	29887-07-29 20:53 G	12637272.17	12637272.37	12637272.60	0.0140	0.0067
Earth	29887-07-29 23:45 G	12637272.27	12637272.49	12637272.71	0.0140	0.0068 *
Earth	29888-08-02 15:50 G	12637641.90	12637642.16	12637642.41	0.0139	0.0005
Moon	29888-08-02 19:12 G	12637642.04	12637642.30	12637642.55	0.0139	0.0002 *
Moon	29889-08-07 03:50 G	12638011.48	12638011.66	12638011.87	0.0139	0.0085
Earth	29889-08-07 07:12 G	12638011.59	12638011.80	12638012.01	0.0139	0.0077 *
Venus	29891-12-25 12:29 G	12638881.95	12638882.02	12638882.10	0.0138	0.0128
Venus	29892-08-07 20:38 G	12639108.21	12639108.36	12639108.52	0.0138	0.0096
Venus	29893-03-22 04:33 G	12639334.50	12639334.69	12639334.88	0.0137	0.0064
Venus	29893-11-03 12:14 G	12639560.80	12639561.01	12639561.23	0.0137	0.0032

Venus	29894-06-17 20:09 G	12639787.12	12639787.34	12639787.56	0.0137	0.0001
Venus	29895-01-30 03:36 G	12640013.44	12640013.65	12640013.87	0.0137	0.0033
Venus	29895-09-13 10:48 G	12640239.77	12640239.95	12640240.15	0.0136	0.0064
Venus	29896-04-26 18:00 G	12640466.11	12640466.25	12640466.42	0.0136	0.0096
Venus	29896-12-09 01:12 G	12640692.48	12640692.55	12640692.64	0.0136	0.0126
Mercury	29903-12-14 12:43 G	12643252.98	12643253.03	12643253.11	0.0134	0.0124
Mercury	29904-03-11 18:57 G	12643341.18	12643341.29	12643341.42	0.0134	0.0101
Mercury	29904-06-08 01:12 G	12643429.41	12643429.55	12643429.70	0.0134	0.0078
Mercury	29904-09-04 06:57 G	12643517.64	12643517.79	12643517.96	0.0134	0.0056
Mercury	29904-12-01 12:57 G	12643605.88	12643606.04	12643606.22	0.0134	0.0034
Mercury	29905-02-27 18:57 G	12643694.12	12643694.29	12643694.47	0.0134	0.0011
Mercury	29905-05-27 00:57 G	12643782.36	12643782.54	12643782.71	0.0134	0.0011
Mercury	29905-08-23 06:43 G	12643870.61	12643870.78	12643870.95	0.0134	0.0033
Mercury	29905-11-19 12:14 G	12643958.86	12643959.01	12643959.18	0.0134	0.0055
Mercury	29906-02-15 18:00 G	12644047.11	12644047.25	12644047.40	0.0134	0.0076
Mercury	29906-05-14 23:31 G	12644135.37	12644135.48	12644135.61	0.0134	0.0098
Mercury	29906-08-11 05:02 G	12644223.65	12644223.71	12644223.80	0.0134	0.0119
Mars	29908-10-03 00:14 G	12645007.22	12645007.51	12645007.81	0.0133	0.0030
Moon	29931-01-26 05:17 G	12653157.59	12653157.72	12653157.87	0.0138	0.0114
Earth	29931-01-26 06:43 G	12653157.68	12653157.78	12653157.93	0.0138	0.0120 *
Earth	29932-01-30 22:19 G	12653527.20	12653527.43	12653527.67	0.0139	0.0049
Moon	29932-01-31 00:00 G	12653527.26	12653527.50	12653527.74	0.0139	0.0053 *
Moon	29933-02-03 11:45 G	12653896.75	12653896.99	12653897.24	0.0139	0.0024
Earth	29933-02-03 14:09 G	12653896.84	12653897.09	12653897.35	0.0139	0.0024 *
Earth	29934-02-08 06:43 G	12654266.61	12654266.78	12654266.97	0.0140	0.0097
Moon	29934-02-08 08:53 G	12654266.71	12654266.87	12654267.07	0.0140	0.0100 *
Venus	29935-12-20 12:57 G	12654947.04	12654947.04	12654947.07	0.0140	0.0140
Venus	29936-08-02 22:05 G	12655173.30	12655173.42	12655173.58	0.0141	0.0107
Venus	29937-03-17 07:41 G	12655399.64	12655399.82	12655400.01	0.0141	0.0072
Venus	29937-10-29 17:17 G	12655626.02	12655626.22	12655626.43	0.0141	0.0038

Venus	29938-06-13 03:07 G	12655852.41	12655852.63	12655852.85	0.0141	0.0003
Venus	29939-01-25 12:57 G	12656078.83	12656079.04	12656079.26	0.0142	0.0033
Venus	29939-09-08 23:02 G	12656305.27	12656305.46	12656305.65	0.0142	0.0068
Venus	29940-04-22 08:53 G	12656531.74	12656531.87	12656532.03	0.0142	0.0104
Venus	29940-12-04 19:26 G	12656758.28	12656758.31	12656758.36	0.0142	0.0140
Mercury	29946-09-04 12:57 G	12658858.00	12658858.04	12658858.09	0.0144	0.0135
Mercury	29946-12-01 17:02 G	12658946.13	12658946.21	12658946.30	0.0144	0.0114
Mercury	29947-02-27 21:07 G	12659034.28	12659034.38	12659034.49	0.0144	0.0093
Mercury	29947-05-27 01:26 G	12659122.44	12659122.56	12659122.68	0.0144	0.0071
Mercury	29947-08-23 05:31 G	12659210.60	12659210.73	12659210.86	0.0145	0.0049
Mercury	29947-11-19 09:36 G	12659298.76	12659298.90	12659299.04	0.0145	0.0027
Mercury	29948-02-15 13:55 G	12659386.94	12659387.08	12659387.22	0.0145	0.0005
Mercury	29948-05-13 18:00 G	12659475.11	12659475.25	12659475.40	0.0145	0.0018
Mercury	29948-08-09 22:19 G	12659563.30	12659563.43	12659563.57	0.0145	0.0040
Mercury	29948-11-06 02:38 G	12659651.48	12659651.61	12659651.74	0.0145	0.0063
Mercury	29949-02-02 06:57 G	12659739.68	12659739.79	12659739.91	0.0145	0.0086
Mercury	29949-05-01 11:17 G	12659827.88	12659827.97	12659828.07	0.0145	0.0109
Mercury	29949-07-28 15:50 G	12659916.10	12659916.16	12659916.22	0.0145	0.0132
Mars	29950-12-11 15:21 G	12660416.87	12660417.14	12660417.43	0.0145	0.0059
Earth	29970-07-26 16:19 G	12667584.17	12667584.18	12667584.22	0.0140	0.0139
Moon	29971-07-31 06:43 G	12667953.57	12667953.78	12667954.00	0.0140	0.0068
Earth	29971-07-31 08:53 G	12667953.66	12667953.87	12667954.11	0.0140	0.0066 *
Earth	29972-08-04 01:12 G	12668323.30	12668323.55	12668323.81	0.0139	0.0008
Moon	29972-08-04 03:36 G	12668323.39	12668323.65	12668323.91	0.0139	0.0012 *
Moon	29973-08-08 13:26 G	12668692.86	12668693.06	12668693.28	0.0139	0.0073
Earth	29973-08-08 16:19 G	12668692.99	12668693.18	12668693.40	0.0139	0.0080 *
Venus	29976-04-08 03:50 G	12669666.55	12669666.66	12669666.81	0.0138	0.0110
Saturn	29976-09-17 17:02 G	12669828.76	12669829.21	12669829.74	0.0138	0.0086
Venus	29976-11-20 12:00 G	12669892.83	12669893.00	12669893.19	0.0137	0.0078
Venus	29977-07-04 20:09 G	12670119.14	12670119.34	12670119.55	0.0137	0.0045

Venus	29978-02-16 04:05 G	12670345.45	12670345.67	12670345.89	0.0137	0.0013
Venus	29978-09-30 11:31 G	12670571.77	12670571.98	12670572.20	0.0137	0.0019
Venus	29979-05-14 18:57 G	12670798.09	12670798.29	12670798.50	0.0136	0.0051
Venus	29979-12-27 02:09 G	12671024.43	12671024.59	12671024.78	0.0136	0.0082
Venus	29980-08-09 09:21 G	12671250.78	12671250.89	12671251.02	0.0136	0.0113
Mercury	29988-01-03 19:41 G	12673954.24	12673954.32	12673954.40	0.0134	0.0119
Mercury	29988-04-01 01:26 G	12674042.45	12674042.56	12674042.70	0.0134	0.0097
Mercury	29988-06-28 07:41 G	12674130.68	12674130.82	12674130.98	0.0134	0.0074
Mercury	29988-09-24 13:41 G	12674218.91	12674219.07	12674219.24	0.0134	0.0052
Mercury	29988-12-21 19:41 G	12674307.15	12674307.32	12674307.50	0.0134	0.0029
Mercury	29989-03-20 01:41 G	12674395.39	12674395.57	12674395.75	0.0134	0.0007
Mercury	29989-06-16 07:26 G	12674483.64	12674483.81	12674483.99	0.0134	0.0016
Mercury	29989-09-12 13:12 G	12674571.89	12674572.05	12674572.23	0.0134	0.0038
Mercury	29989-12-09 19:12 G	12674660.14	12674660.30	12674660.45	0.0134	0.0059
Mercury	29990-03-08 00:43 G	12674748.40	12674748.53	12674748.67	0.0134	0.0081
Mercury	29990-06-04 06:29 G	12674836.66	12674836.77	12674836.88	0.0134	0.0102
Mercury	29990-08-31 12:14 G	12674924.94	12674925.01	12674925.07	0.0134	0.0123
Mars	29993-05-28 11:45 G	12675925.72	12675925.99	12675926.27	0.0133	0.0058

31ST MILLENNIUM CE

This is a list of transits visible from Uranus in the 31st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	30015-01-26 17:02 G		12683839.08	12683839.21	12683839.35	0.0138	0.0117	

Moon	30015-01-26 16:33 G	12683839.09	12683839.19	12683839.31	0.0138	0.0124 *
Earth	30016-01-31 08:09 G	12684208.61	12684208.84	12684209.09	0.0139	0.0046
Moon	30016-01-31 09:50 G	12684208.66	12684208.91	12684209.16	0.0139	0.0041 *
Moon	30017-02-03 23:02 G	12684578.23	12684578.46	12684578.71	0.0139	0.0025
Earth	30017-02-04 00:29 G	12684578.27	12684578.52	12684578.77	0.0139	0.0027 *
Earth	30018-02-08 16:48 G	12684948.04	12684948.20	12684948.39	0.0140	0.0101
Moon	30018-02-08 18:57 G	12684948.12	12684948.29	12684948.49	0.0140	0.0098 *
Venus	30020-04-02 06:29 G	12685731.66	12685731.77	12685731.88	0.0140	0.0120
Venus	30020-11-14 15:50 G	12685957.99	12685958.16	12685958.34	0.0141	0.0086
Venus	30021-06-29 01:26 G	12686184.36	12686184.56	12686184.76	0.0141	0.0051
Venus	30022-02-10 11:02 G	12686410.75	12686410.96	12686411.18	0.0141	0.0017
Venus	30022-09-24 20:53 G	12686637.15	12686637.37	12686637.58	0.0142	0.0018
Venus	30023-05-09 06:43 G	12686863.58	12686863.78	12686863.98	0.0142	0.0054
Venus	30023-12-21 16:48 G	12687090.04	12687090.20	12687090.38	0.0142	0.0089
Venus	30024-08-04 03:07 G	12687316.54	12687316.63	12687316.74	0.0142	0.0125
Mercury	30030-09-24 20:24 G	12689559.30	12689559.35	12689559.42	0.0144	0.0129
Mercury	30030-12-22 00:29 G	12689647.44	12689647.52	12689647.62	0.0144	0.0108
Mercury	30031-03-20 04:33 G	12689735.59	12689735.69	12689735.81	0.0144	0.0086
Mercury	30031-06-16 08:38 G	12689823.74	12689823.86	12689823.99	0.0144	0.0065
Mercury	30031-09-12 12:57 G	12689911.91	12689912.04	12689912.17	0.0144	0.0042
Mercury	30031-12-09 17:02 G	12690000.07	12690000.21	12690000.35	0.0145	0.0021
Mercury	30032-03-06 21:21 G	12690088.25	12690088.39	12690088.53	0.0145	0.0002
Mercury	30032-06-03 01:41 G	12690176.43	12690176.57	12690176.71	0.0145	0.0025
Mercury	30032-08-30 05:45 G	12690264.61	12690264.74	12690264.88	0.0145	0.0047
Mercury	30032-11-26 10:05 G	12690352.80	12690352.92	12690353.05	0.0145	0.0070
Mercury	30033-02-22 14:24 G	12690441.00	12690441.10	12690441.21	0.0145	0.0093
Mercury	30033-05-21 18:43 G	12690529.20	12690529.28	12690529.37	0.0145	0.0116
Mercury	30033-08-17 23:17 G	12690617.44	12690617.47	12690617.51	0.0145	0.0139
Mars	30035-08-07 12:00 G	12691336.74	12691337.00	12691337.31	0.0145	0.0062
Earth	30054-07-27 02:53 G	12698265.58	12698265.62	12698265.69	0.0140	0.0136

Moon	30054-07-27 04:19 G	12698265.62	12698265.68	12698265.77	0.0140	0.0133	*
Moon	30055-07-31 18:29 G	12698635.06	12698635.27	12698635.49	0.0140	0.0062	
Earth	30055-07-31 19:26 G	12698635.10	12698635.31	12698635.56	0.0140	0.0063	*
Earth	30056-08-04 11:45 G	12699004.74	12699004.99	12699005.24	0.0139	0.0011	
Moon	30056-08-04 14:09 G	12699004.83	12699005.09	12699005.35	0.0139	0.0006	*
Moon	30057-08-09 00:43 G	12699374.35	12699374.53	12699374.73	0.0139	0.0090	
Earth	30057-08-09 02:38 G	12699374.42	12699374.61	12699374.83	0.0139	0.0083	*
Venus	30059-12-07 12:14 G	12700224.93	12700225.01	12700225.13	0.0138	0.0123	
Venus	30060-07-20 20:24 G	12700451.20	12700451.35	12700451.53	0.0138	0.0091	
Venus	30061-03-04 04:33 G	12700677.50	12700677.69	12700677.90	0.0137	0.0058	
Venus	30061-10-16 12:29 G	12700903.81	12700904.02	12700904.24	0.0137	0.0026	
Venus	30062-05-30 20:24 G	12701130.13	12701130.35	12701130.57	0.0137	0.0006	
Venus	30063-01-12 03:50 G	12701356.45	12701356.66	12701356.87	0.0137	0.0038	
Venus	30063-08-26 11:02 G	12701582.78	12701582.96	12701583.16	0.0136	0.0070	
Venus	30064-04-08 18:14 G	12701809.12	12701809.26	12701809.42	0.0136	0.0100	
Venus	30064-11-21 01:12 G	12702035.51	12702035.55	12702035.62	0.0136	0.0131	
Mercury	30072-01-24 02:24 G	12704655.52	12704655.60	12704655.70	0.0134	0.0114	
Mercury	30072-04-21 08:38 G	12704743.73	12704743.86	12704743.99	0.0134	0.0091	
Mercury	30072-07-18 14:38 G	12704831.96	12704832.11	12704832.27	0.0134	0.0069	
Mercury	30072-10-14 20:38 G	12704920.20	12704920.36	12704920.53	0.0134	0.0046	
Mercury	30073-01-11 02:38 G	12705008.44	12705008.61	12705008.79	0.0134	0.0024	
Mercury	30073-04-09 08:38 G	12705096.68	12705096.86	12705097.03	0.0134	0.0003	
Mercury	30073-07-06 14:24 G	12705184.93	12705185.10	12705185.28	0.0134	0.0021	
Mercury	30073-10-02 20:09 G	12705273.18	12705273.34	12705273.51	0.0134	0.0043	
Mercury	30073-12-30 01:41 G	12705361.43	12705361.57	12705361.74	0.0134	0.0065	
Mercury	30074-03-28 07:41 G	12705449.69	12705449.82	12705449.95	0.0134	0.0086	
Mercury	30074-06-24 12:57 G	12705537.96	12705538.04	12705538.16	0.0134	0.0108	
Mercury	30074-09-20 18:43 G	12705626.25	12705626.28	12705626.34	0.0133	0.0129	
Mars	30076-02-20 06:00 G	12706143.54	12706143.75	12706143.99	0.0133	0.0089	
Moon	30099-01-27 01:12 G	12714520.41	12714520.55	12714520.72	0.0138	0.0108	

Earth	30099-01-27 01:12 G	12714520.43	12714520.55	12714520.71	0.0138	0.0115	*
Moon	30100-01-31 17:02 G	12714889.96	12714890.21	12714890.46	0.0139	0.0049	
Earth	30100-01-31 16:48 G	12714889.97	12714890.20	12714890.45	0.0139	0.0044	*
Moon	30101-02-05 08:09 G	12715259.60	12715259.84	12715260.08	0.0139	0.0031	
Earth	30101-02-05 09:07 G	12715259.63	12715259.88	12715260.13	0.0139	0.0029	*
Earth	30102-02-10 01:41 G	12715629.41	12715629.57	12715629.75	0.0140	0.0103	
Moon	30102-02-10 02:38 G	12715629.45	12715629.61	12715629.80	0.0140	0.0104	*
Venus	30103-12-02 13:41 G	12716290.02	12716290.07	12716290.14	0.0140	0.0134	
Venus	30104-07-15 22:48 G	12716516.31	12716516.45	12716516.61	0.0141	0.0100	
Venus	30105-02-27 08:24 G	12716742.66	12716742.85	12716743.04	0.0141	0.0066	
Venus	30105-10-11 18:00 G	12716969.04	12716969.25	12716969.46	0.0141	0.0032	
Venus	30106-05-26 03:36 G	12717195.44	12717195.65	12717195.87	0.0141	0.0005	
Venus	30107-01-07 13:41 G	12717421.86	12717422.07	12717422.28	0.0142	0.0038	
Venus	30107-08-21 23:31 G	12717648.30	12717648.48	12717648.67	0.0142	0.0074	
Venus	30108-04-04 09:36 G	12717874.77	12717874.90	12717875.05	0.0142	0.0109	
Mercury	30114-10-16 03:36 G	12720260.59	12720260.65	12720260.72	0.0144	0.0124	
Mercury	30115-01-12 07:41 G	12720348.73	12720348.82	12720348.92	0.0144	0.0103	
Mercury	30115-04-10 11:45 G	12720436.88	12720436.99	12720437.11	0.0144	0.0081	
Mercury	30115-07-07 15:50 G	12720525.04	12720525.16	12720525.29	0.0144	0.0060	
Mercury	30115-10-03 20:09 G	12720613.20	12720613.34	12720613.47	0.0144	0.0037	
Mercury	30115-12-31 00:14 G	12720701.37	12720701.51	12720701.65	0.0145	0.0016	
Mercury	30116-03-28 04:33 G	12720789.55	12720789.69	12720789.83	0.0145	0.0007	
Mercury	30116-06-24 08:53 G	12720877.73	12720877.87	12720878.00	0.0145	0.0030	
Mercury	30116-09-20 12:57 G	12720965.91	12720966.04	12720966.18	0.0145	0.0053	
Mercury	30116-12-17 17:17 G	12721054.10	12721054.22	12721054.35	0.0145	0.0075	
Mercury	30117-03-15 21:50 G	12721142.30	12721142.41	12721142.51	0.0145	0.0098	
Mercury	30117-06-12 02:09 G	12721230.51	12721230.59	12721230.67	0.0145	0.0121	
Mercury	30117-09-08 06:29 G	12721318.77	12721318.77	12721318.78	0.0145	0.0144	
Mars	30118-04-29 23:02 G	12721552.38	12721552.46	12721552.58	0.0145	0.0137	
Earth	30138-07-28 12:43 G	12728946.97	12728947.03	12728947.12	0.0140	0.0134	

Moon	30138-07-28 12:43 G	12728947.01	12728947.03	12728947.11	0.0140	0.0138	*
Moon	30139-08-02 04:05 G	12729316.46	12729316.67	12729316.91	0.0140	0.0061	
Earth	30139-08-02 05:17 G	12729316.50	12729316.72	12729316.96	0.0140	0.0060	*
Earth	30140-08-05 21:21 G	12729686.14	12729686.39	12729686.64	0.0139	0.0014	
Moon	30140-08-05 22:19 G	12729686.17	12729686.43	12729686.69	0.0139	0.0017	*
Moon	30141-08-10 10:33 G	12730055.75	12730055.94	12730056.15	0.0139	0.0080	
Earth	30141-08-10 12:14 G	12730055.82	12730056.01	12730056.22	0.0139	0.0086	*
Venus	30143-08-07 20:09 G	12730783.32	12730783.34	12730783.39	0.0138	0.0136	
Venus	30144-03-21 04:19 G	12731009.55	12731009.68	12731009.84	0.0138	0.0104	
Venus	30144-11-02 12:29 G	12731235.84	12731236.02	12731236.21	0.0137	0.0072	
Venus	30145-06-16 20:38 G	12731462.15	12731462.36	12731462.57	0.0137	0.0039	
Venus	30146-01-29 04:19 G	12731688.47	12731688.68	12731688.90	0.0137	0.0008	
Venus	30146-09-12 12:00 G	12731914.79	12731915.00	12731915.22	0.0137	0.0024	
Venus	30147-04-26 19:12 G	12732141.11	12732141.30	12732141.51	0.0136	0.0056	
Venus	30147-12-09 02:24 G	12732367.45	12732367.60	12732367.78	0.0136	0.0088	
Venus	30148-07-22 09:36 G	12732593.81	12732593.90	12732594.03	0.0136	0.0118	
Mercury	30155-11-18 02:53 G	12735268.61	12735268.62	12735268.65	0.0134	0.0133	
Mercury	30156-02-14 08:53 G	12735356.78	12735356.87	12735356.98	0.0134	0.0110	
Mercury	30156-05-12 15:07 G	12735445.00	12735445.13	12735445.27	0.0134	0.0087	
Mercury	30156-08-08 21:07 G	12735533.23	12735533.38	12735533.54	0.0134	0.0065	
Mercury	30156-11-05 03:07 G	12735621.47	12735621.63	12735621.81	0.0134	0.0042	
Mercury	30157-02-01 09:07 G	12735709.71	12735709.88	12735710.06	0.0134	0.0020	
Mercury	30157-04-30 15:07 G	12735797.95	12735798.13	12735798.31	0.0134	0.0003	
Mercury	30157-07-27 20:53 G	12735886.20	12735886.37	12735886.55	0.0134	0.0025	
Mercury	30157-10-24 02:53 G	12735974.45	12735974.62	12735974.78	0.0134	0.0047	
Mercury	30158-01-20 08:24 G	12736062.71	12736062.85	12736063.01	0.0133	0.0069	
Mercury	30158-04-18 13:55 G	12736150.97	12736151.08	12736151.23	0.0133	0.0091	
Mercury	30158-07-15 19:41 G	12736239.24	12736239.32	12736239.43	0.0133	0.0112	
Mercury	30158-10-12 01:26 G	12736327.55	12736327.56	12736327.59	0.0133	0.0133	
Mars	30160-10-15 18:00 G	12737061.94	12737062.25	12737062.55	0.0133	0.0001	

Earth	30183-01-28 08:38 G	12745201.73	12745201.86	12745202.01	0.0138	0.0113
Moon	30183-01-28 09:50 G	12745201.80	12745201.91	12745202.04	0.0138	0.0120 *
Moon	30184-02-01 23:31 G	12745571.24	12745571.48	12745571.75	0.0139	0.0037
Earth	30184-02-01 23:45 G	12745571.26	12745571.49	12745571.75	0.0139	0.0043 *
Earth	30185-02-05 16:05 G	12745940.93	12745941.17	12745941.43	0.0139	0.0031
Moon	30185-02-05 16:33 G	12745940.95	12745941.19	12745941.43	0.0139	0.0027 *
Earth	30186-02-10 09:07 G	12746310.71	12746310.88	12746311.05	0.0140	0.0104
Moon	30186-02-10 09:07 G	12746310.73	12746310.88	12746311.08	0.0140	0.0104 *
Venus	30188-03-15 04:48 G	12747074.59	12747074.70	12747074.83	0.0140	0.0116
Venus	30188-10-27 14:09 G	12747300.92	12747301.09	12747301.28	0.0141	0.0082
Venus	30189-06-10 23:45 G	12747527.29	12747527.49	12747527.70	0.0141	0.0047
Venus	30190-01-23 09:21 G	12747753.68	12747753.89	12747754.11	0.0141	0.0013
Venus	30190-09-06 19:12 G	12747980.09	12747980.30	12747980.52	0.0142	0.0022
Venus	30191-04-21 05:02 G	12748206.51	12748206.71	12748206.91	0.0142	0.0057
Venus	30191-12-03 15:07 G	12748432.97	12748433.13	12748433.30	0.0142	0.0093
Venus	30192-07-17 01:26 G	12748659.47	12748659.56	12748659.66	0.0142	0.0128
Mercury	30198-08-09 06:14 G	12750873.75	12750873.76	12750873.79	0.0144	0.0143
Mercury	30198-11-05 10:19 G	12750961.86	12750961.93	12750962.01	0.0144	0.0121
Mercury	30199-02-01 14:24 G	12751050.01	12751050.10	12751050.20	0.0144	0.0100
Mercury	30199-04-30 18:29 G	12751138.16	12751138.27	12751138.39	0.0144	0.0078
Mercury	30199-07-27 22:33 G	12751226.32	12751226.44	12751226.58	0.0144	0.0057
Mercury	30199-10-24 02:53 G	12751314.48	12751314.62	12751314.76	0.0144	0.0034
Mercury	30200-01-20 06:57 G	12751402.65	12751402.79	12751402.93	0.0144	0.0013
Mercury	30200-04-18 11:17 G	12751490.83	12751490.97	12751491.11	0.0145	0.0010
Mercury	30200-07-15 15:36 G	12751579.01	12751579.15	12751579.28	0.0145	0.0033
Mercury	30200-10-11 19:41 G	12751667.19	12751667.32	12751667.46	0.0145	0.0056
Mercury	30201-01-08 00:00 G	12751755.39	12751755.50	12751755.62	0.0145	0.0079
Mercury	30201-04-06 04:19 G	12751843.59	12751843.68	12751843.79	0.0145	0.0102
Mercury	30201-07-03 08:38 G	12751931.80	12751931.86	12751931.94	0.0145	0.0125
Mars	30202-12-25 09:36 G	12752471.59	12752471.90	12752472.21	0.0145	0.0024

Moon	30222-07-29 20:38 G	12759628.28	12759628.36	12759628.49	0.0140	0.0128
Earth	30222-07-29 20:53 G	12759628.31	12759628.37	12759628.47	0.0140	0.0132 *
Earth	30223-08-03 13:41 G	12759997.85	12759998.07	12759998.31	0.0140	0.0058
Moon	30223-08-03 13:55 G	12759997.87	12759998.08	12759998.31	0.0140	0.0060 *
Earth	30224-08-07 06:00 G	12760367.49	12760367.75	12760368.00	0.0139	0.0016
Moon	30224-08-07 06:43 G	12760367.52	12760367.78	12760368.04	0.0139	0.0012 *
Moon	30225-08-11 19:55 G	12760737.17	12760737.33	12760737.53	0.0139	0.0094
Earth	30225-08-11 20:53 G	12760737.18	12760737.37	12760737.57	0.0139	0.0088 *
Venus	30227-11-20 11:45 G	12761567.89	12761567.99	12761568.12	0.0138	0.0118
Venus	30228-07-03 19:55 G	12761794.18	12761794.33	12761794.52	0.0138	0.0086
Venus	30229-02-15 04:05 G	12762020.48	12762020.67	12762020.88	0.0137	0.0054
Venus	30229-09-29 12:14 G	12762246.79	12762247.01	12762247.23	0.0137	0.0021
Venus	30230-05-13 19:55 G	12762473.11	12762473.33	12762473.55	0.0137	0.0011
Venus	30230-12-26 03:21 G	12762699.44	12762699.64	12762699.85	0.0137	0.0043
Venus	30231-08-09 10:33 G	12762925.77	12762925.94	12762926.14	0.0136	0.0075
Venus	30232-03-22 17:45 G	12763152.12	12763152.24	12763152.39	0.0136	0.0105
Venus	30232-11-04 00:57 G	12763378.53	12763378.54	12763378.57	0.0136	0.0135
Mercury	30239-12-09 09:36 G	12765969.86	12765969.90	12765969.96	0.0134	0.0128
Mercury	30240-03-06 15:50 G	12766058.05	12766058.16	12766058.27	0.0134	0.0105
Mercury	30240-06-02 22:05 G	12766146.28	12766146.42	12766146.56	0.0134	0.0082
Mercury	30240-08-30 03:50 G	12766234.51	12766234.66	12766234.83	0.0134	0.0060
Mercury	30240-11-26 10:05 G	12766322.75	12766322.92	12766323.09	0.0134	0.0037
Mercury	30241-02-22 16:05 G	12766410.99	12766411.17	12766411.34	0.0134	0.0015
Mercury	30241-05-21 21:50 G	12766499.24	12766499.41	12766499.59	0.0134	0.0008
Mercury	30241-08-18 03:50 G	12766587.49	12766587.66	12766587.83	0.0134	0.0030
Mercury	30241-11-14 09:36 G	12766675.74	12766675.90	12766676.06	0.0134	0.0052
Mercury	30242-02-10 15:07 G	12766764.00	12766764.13	12766764.29	0.0133	0.0074
Mercury	30242-05-09 21:07 G	12766852.26	12766852.38	12766852.50	0.0133	0.0095
Mercury	30242-08-06 02:24 G	12766940.53	12766940.60	12766940.70	0.0133	0.0117
Mars	30245-06-11 06:43 G	12767980.58	12767980.78	12767981.03	0.0133	0.0088

Earth	30267-01-29 16:05 G	12775883.03	12775883.17	12775883.33	0.0138	0.0112
Moon	30267-01-29 17:31 G	12775883.08	12775883.23	12775883.40	0.0138	0.0105 *
Moon	30268-02-03 05:45 G	12776252.50	12776252.74	12776253.00	0.0139	0.0048
Earth	30268-02-03 07:26 G	12776252.58	12776252.81	12776253.06	0.0139	0.0041 *
Earth	30269-02-06 23:31 G	12776622.24	12776622.48	12776622.74	0.0139	0.0032
Moon	30269-02-07 00:14 G	12776622.28	12776622.51	12776622.76	0.0139	0.0036 *
Moon	30270-02-11 15:36 G	12776991.99	12776992.15	12776992.34	0.0139	0.0104
Earth	30270-02-11 16:05 G	12776992.03	12776992.17	12776992.36	0.0139	0.0106 *
Venus	30271-11-14 10:48 G	12777632.89	12777632.95	12777633.05	0.0140	0.0131
Venus	30272-06-27 20:09 G	12777859.19	12777859.34	12777859.51	0.0141	0.0097
Venus	30273-02-09 05:31 G	12778085.54	12778085.73	12778085.93	0.0141	0.0063
Venus	30273-09-23 14:53 G	12778311.92	12778312.12	12778312.34	0.0141	0.0029
Venus	30274-05-08 00:43 G	12778538.31	12778538.53	12778538.75	0.0141	0.0006
Venus	30274-12-20 10:33 G	12778764.73	12778764.94	12778765.15	0.0142	0.0041
Venus	30275-08-03 20:09 G	12778991.17	12778991.34	12778991.54	0.0142	0.0076
Venus	30276-03-17 06:00 G	12779217.64	12779217.75	12779217.91	0.0142	0.0112
Mercury	30282-08-30 12:43 G	12781575.01	12781575.03	12781575.07	0.0144	0.0140
Mercury	30282-11-26 17:02 G	12781663.14	12781663.21	12781663.29	0.0144	0.0118
Mercury	30283-02-22 20:53 G	12781751.28	12781751.37	12781751.48	0.0144	0.0098
Mercury	30283-05-22 01:12 G	12781839.43	12781839.55	12781839.67	0.0144	0.0075
Mercury	30283-08-18 05:17 G	12781927.59	12781927.72	12781927.85	0.0144	0.0054
Mercury	30283-11-14 09:36 G	12782015.76	12782015.90	12782016.03	0.0144	0.0032
Mercury	30284-02-10 13:41 G	12782103.93	12782104.07	12782104.21	0.0144	0.0009
Mercury	30284-05-08 18:00 G	12782192.11	12782192.25	12782192.39	0.0145	0.0014
Mercury	30284-08-04 22:05 G	12782280.29	12782280.42	12782280.56	0.0145	0.0036
Mercury	30284-11-01 02:24 G	12782368.47	12782368.60	12782368.73	0.0145	0.0058
Mercury	30285-01-28 06:43 G	12782456.66	12782456.78	12782456.90	0.0145	0.0081
Mercury	30285-04-26 11:02 G	12782544.86	12782544.96	12782545.06	0.0145	0.0104
Mercury	30285-07-23 15:07 G	12782633.08	12782633.13	12782633.21	0.0145	0.0128
Mars	30287-08-20 18:43 G	12783391.06	12783391.28	12783391.54	0.0145	0.0090

Moon	30306-07-31 02:24 G	12790309.55	12790309.60	12790309.67	0.0140	0.0137
Earth	30306-07-31 03:36 G	12790309.58	12790309.65	12790309.75	0.0140	0.0131 *
Earth	30307-08-04 20:38 G	12790679.13	12790679.36	12790679.59	0.0140	0.0057
Moon	30307-08-04 20:53 G	12790679.16	12790679.37	12790679.61	0.0140	0.0056 *
Moon	30308-08-08 12:00 G	12791048.74	12791049.00	12791049.26	0.0139	0.0017
Earth	30308-08-08 12:43 G	12791048.78	12791049.03	12791049.28	0.0139	0.0017 *
Moon	30309-08-13 03:50 G	12791418.47	12791418.66	12791418.85	0.0139	0.0084
Earth	30309-08-13 03:50 G	12791418.48	12791418.66	12791418.86	0.0139	0.0089 *
Venus	30311-07-21 18:14 G	12792126.21	12792126.26	12792126.33	0.0138	0.0132
Venus	30312-03-04 02:24 G	12792352.47	12792352.60	12792352.77	0.0138	0.0100
Venus	30312-10-16 10:48 G	12792578.76	12792578.95	12792579.14	0.0137	0.0068
Venus	30313-05-30 18:57 G	12792805.08	12792805.29	12792805.50	0.0137	0.0035
Venus	30314-01-12 02:53 G	12793031.40	12793031.62	12793031.84	0.0137	0.0004
Venus	30314-08-26 10:19 G	12793257.72	12793257.93	12793258.15	0.0137	0.0028
Venus	30315-04-09 17:45 G	12793484.05	12793484.24	12793484.44	0.0137	0.0060
Venus	30315-11-22 00:57 G	12793710.39	12793710.54	12793710.71	0.0136	0.0091
Venus	30316-07-05 08:09 G	12793936.76	12793936.84	12793936.95	0.0136	0.0121
Mercury	30323-12-30 15:50 G	12796671.11	12796671.16	12796671.24	0.0134	0.0125
Mercury	30324-03-27 21:50 G	12796759.31	12796759.41	12796759.54	0.0134	0.0102
Mercury	30324-06-24 04:05 G	12796847.54	12796847.67	12796847.83	0.0134	0.0079
Mercury	30324-09-20 10:19 G	12796935.77	12796935.93	12796936.10	0.0134	0.0056
Mercury	30324-12-17 16:19 G	12797024.01	12797024.18	12797024.36	0.0134	0.0034
Mercury	30325-03-15 22:19 G	12797112.26	12797112.43	12797112.61	0.0134	0.0011
Mercury	30325-06-12 04:19 G	12797200.51	12797200.68	12797200.86	0.0134	0.0012
Mercury	30325-09-08 10:05 G	12797288.76	12797288.92	12797289.10	0.0134	0.0034
Mercury	30325-12-05 15:50 G	12797377.01	12797377.16	12797377.33	0.0134	0.0056
Mercury	30326-03-03 21:36 G	12797465.27	12797465.40	12797465.55	0.0134	0.0078
Mercury	30326-05-31 03:21 G	12797553.53	12797553.64	12797553.77	0.0134	0.0099
Mercury	30326-08-27 08:53 G	12797641.81	12797641.87	12797641.96	0.0133	0.0121
Mars	30328-03-05 21:21 G	12798198.12	12798198.39	12798198.66	0.0133	0.0063

Earth	30351-01-31 01:12 G	12806564.40	12806564.55	12806564.70	0.0138	0.0110
Moon	30351-01-31 03:21 G	12806564.52	12806564.64	12806564.79	0.0138	0.0117 *
Moon	30352-02-04 14:38 G	12806933.86	12806934.11	12806934.37	0.0139	0.0031
Earth	30352-02-04 16:19 G	12806933.95	12806934.18	12806934.44	0.0139	0.0039 *
Earth	30353-02-08 08:24 G	12807303.62	12807303.85	12807304.11	0.0139	0.0035
Moon	30353-02-08 10:33 G	12807303.70	12807303.94	12807304.18	0.0139	0.0029 *
Moon	30354-02-13 00:00 G	12807673.35	12807673.50	12807673.68	0.0139	0.0110
Earth	30354-02-13 01:26 G	12807673.41	12807673.56	12807673.73	0.0139	0.0108 *
Venus	30356-02-27 03:07 G	12808417.52	12808417.63	12808417.78	0.0140	0.0112
Venus	30356-10-10 12:29 G	12808643.84	12808644.02	12808644.21	0.0141	0.0078
Venus	30357-05-24 21:50 G	12808870.21	12808870.41	12808870.62	0.0141	0.0044
Venus	30358-01-06 07:26 G	12809096.60	12809096.81	12809097.03	0.0141	0.0009
Venus	30358-08-20 17:02 G	12809323.00	12809323.21	12809323.43	0.0141	0.0025
Venus	30359-04-04 02:38 G	12809549.42	12809549.61	12809549.81	0.0142	0.0060
Venus	30359-11-16 12:29 G	12809775.87	12809776.02	12809776.19	0.0142	0.0095
Venus	30360-06-29 22:19 G	12810002.37	12810002.43	12810002.54	0.0142	0.0131
Mercury	30366-09-20 19:41 G	12812276.29	12812276.32	12812276.38	0.0144	0.0137
Mercury	30366-12-18 00:00 G	12812364.42	12812364.50	12812364.58	0.0144	0.0115
Mercury	30367-03-16 03:50 G	12812452.56	12812452.66	12812452.77	0.0144	0.0094
Mercury	30367-06-12 08:09 G	12812540.72	12812540.84	12812540.96	0.0144	0.0072
Mercury	30367-09-08 12:14 G	12812628.88	12812629.01	12812629.14	0.0144	0.0050
Mercury	30367-12-05 16:19 G	12812717.05	12812717.18	12812717.32	0.0144	0.0028
Mercury	30368-03-02 20:38 G	12812805.22	12812805.36	12812805.50	0.0144	0.0006
Mercury	30368-05-30 00:43 G	12812893.39	12812893.53	12812893.67	0.0145	0.0017
Mercury	30368-08-26 05:02 G	12812981.57	12812981.71	12812981.85	0.0145	0.0039
Mercury	30368-11-22 09:21 G	12813069.76	12813069.89	12813070.02	0.0145	0.0062
Mercury	30369-02-18 13:26 G	12813157.95	12813158.06	12813158.18	0.0145	0.0085
Mercury	30369-05-17 17:45 G	12813246.15	12813246.24	12813246.34	0.0145	0.0108
Mercury	30369-08-13 22:05 G	12813334.37	12813334.42	12813334.49	0.0145	0.0131
Mars	30370-05-13 02:53 G	12813606.46	12813606.62	12813606.84	0.0145	0.0114

Moon	30390-07-31 08:38 G	12820990.76	12820990.86	12820991.00	0.0140	0.0125
Earth	30390-07-31 10:48 G	12820990.86	12820990.95	12820991.04	0.0140	0.0131 *
Earth	30391-08-05 03:36 G	12821360.42	12821360.65	12821360.88	0.0140	0.0056
Moon	30391-08-05 05:17 G	12821360.50	12821360.72	12821360.95	0.0140	0.0060 *
Moon	30392-08-08 18:57 G	12821730.03	12821730.29	12821730.55	0.0139	0.0017
Earth	30392-08-08 19:41 G	12821730.07	12821730.32	12821730.58	0.0139	0.0018 *
Earth	30393-08-13 11:02 G	12822099.78	12822099.96	12822100.16	0.0139	0.0090
Moon	30393-08-13 12:00 G	12822099.83	12822100.00	12822100.19	0.0139	0.0094 *
Venus	30395-11-02 09:07 G	12822910.77	12822910.88	12822911.01	0.0138	0.0114
Venus	30396-06-15 17:31 G	12823137.06	12823137.23	12823137.41	0.0138	0.0082
Venus	30397-01-28 01:41 G	12823363.37	12823363.57	12823363.78	0.0137	0.0050
Venus	30397-09-11 09:36 G	12823589.68	12823589.90	12823590.12	0.0137	0.0018
Venus	30398-04-25 17:17 G	12823816.01	12823816.22	12823816.44	0.0137	0.0014
Venus	30398-12-08 00:43 G	12824042.33	12824042.53	12824042.75	0.0137	0.0046
Venus	30399-07-22 08:24 G	12824268.67	12824268.85	12824269.03	0.0136	0.0077
Venus	30400-03-04 15:21 G	12824495.02	12824495.14	12824495.29	0.0136	0.0108
Mercury	30408-01-19 22:33 G	12827372.37	12827372.44	12827372.52	0.0134	0.0120
Mercury	30408-04-17 04:48 G	12827460.58	12827460.70	12827460.82	0.0134	0.0097
Mercury	30408-07-14 10:33 G	12827548.81	12827548.94	12827549.10	0.0134	0.0075
Mercury	30408-10-10 16:48 G	12827637.05	12827637.20	12827637.37	0.0134	0.0052
Mercury	30409-01-06 23:02 G	12827725.29	12827725.46	12827725.63	0.0134	0.0029
Mercury	30409-04-05 05:02 G	12827813.53	12827813.71	12827813.89	0.0134	0.0007
Mercury	30409-07-02 11:02 G	12827901.78	12827901.96	12827902.13	0.0134	0.0016
Mercury	30409-09-28 16:48 G	12827990.03	12827990.20	12827990.37	0.0134	0.0038
Mercury	30409-12-25 22:33 G	12828078.29	12828078.44	12828078.60	0.0134	0.0060
Mercury	30410-03-24 04:19 G	12828166.55	12828166.68	12828166.83	0.0134	0.0082
Mercury	30410-06-20 09:50 G	12828254.82	12828254.91	12828255.04	0.0134	0.0104
Mercury	30410-09-16 15:36 G	12828343.10	12828343.15	12828343.22	0.0134	0.0125
Mars	30412-10-29 09:36 G	12829116.61	12829116.90	12829117.20	0.0133	0.0028
Earth	30435-01-31 10:33 G	12837245.81	12837245.94	12837246.13	0.0138	0.0108

Moon	30435-01-31 13:26 G	12837245.90	12837246.06	12837246.25	0.0138	0.0100 *
Moon	30436-02-04 23:31 G	12837615.25	12837615.48	12837615.74	0.0139	0.0043
Earth	30436-02-05 02:53 G	12837615.37	12837615.62	12837615.86	0.0139	0.0035 *
Earth	30437-02-08 18:43 G	12837985.05	12837985.28	12837985.54	0.0139	0.0038
Moon	30437-02-08 20:53 G	12837985.14	12837985.37	12837985.61	0.0139	0.0043 *
Moon	30438-02-13 09:21 G	12838354.74	12838354.89	12838355.07	0.0139	0.0108
Earth	30438-02-13 11:17 G	12838354.84	12838354.97	12838355.14	0.0139	0.0112 *
Venus	30439-10-27 11:17 G	12838975.88	12838975.97	12838976.08	0.0140	0.0125
Venus	30440-06-09 20:09 G	12839202.19	12839202.34	12839202.52	0.0140	0.0092
Venus	30441-01-22 05:31 G	12839428.54	12839428.73	12839428.94	0.0141	0.0058
Venus	30441-09-05 15:07 G	12839654.92	12839655.13	12839655.35	0.0141	0.0023
Venus	30442-04-20 00:43 G	12839881.31	12839881.53	12839881.74	0.0141	0.0011
Venus	30442-12-02 10:19 G	12840107.73	12840107.93	12840108.14	0.0142	0.0046
Venus	30443-07-16 20:09 G	12840334.17	12840334.34	12840334.52	0.0142	0.0080
Venus	30444-02-28 06:00 G	12840560.64	12840560.75	12840560.89	0.0142	0.0115
Mercury	30450-10-11 03:07 G	12842977.58	12842977.63	12842977.70	0.0144	0.0130
Mercury	30451-01-07 07:12 G	12843065.72	12843065.80	12843065.90	0.0144	0.0109
Mercury	30451-04-05 11:17 G	12843153.87	12843153.97	12843154.08	0.0144	0.0088
Mercury	30451-07-02 15:21 G	12843242.02	12843242.14	12843242.27	0.0144	0.0066
Mercury	30451-09-28 19:26 G	12843330.18	12843330.31	12843330.45	0.0144	0.0044
Mercury	30451-12-25 23:45 G	12843418.35	12843418.49	12843418.63	0.0144	0.0022
Mercury	30452-03-23 03:50 G	12843506.52	12843506.66	12843506.80	0.0144	0.0003
Mercury	30452-06-19 08:09 G	12843594.70	12843594.84	12843594.98	0.0145	0.0023
Mercury	30452-09-15 12:14 G	12843682.88	12843683.01	12843683.15	0.0145	0.0045
Mercury	30452-12-12 16:33 G	12843771.07	12843771.19	12843771.32	0.0145	0.0068
Mercury	30453-03-10 20:53 G	12843859.26	12843859.37	12843859.48	0.0145	0.0091
Mercury	30453-06-07 01:12 G	12843947.47	12843947.55	12843947.64	0.0145	0.0114
Mercury	30453-09-03 05:31 G	12844035.69	12844035.73	12844035.78	0.0145	0.0137
Mars	30455-01-06 18:43 G	12844525.97	12844526.28	12844526.59	0.0145	0.0005
Moon	30474-07-31 16:19 G	12851672.13	12851672.18	12851672.26	0.0140	0.0135

Earth	30474-07-31 19:12 G	12851672.21	12851672.30	12851672.41	0.0140	0.0128	*
Earth	30475-08-05 12:14 G	12852041.78	12852042.01	12852042.24	0.0140	0.0054	
Moon	30475-08-05 13:55 G	12852041.86	12852042.08	12852042.32	0.0140	0.0051	*
Moon	30476-08-09 01:55 G	12852411.33	12852411.58	12852411.85	0.0139	0.0018	
Earth	30476-08-09 04:19 G	12852411.43	12852411.68	12852411.93	0.0139	0.0019	*
Earth	30477-08-13 19:41 G	12852781.14	12852781.32	12852781.52	0.0139	0.0092	
Moon	30477-08-13 21:07 G	12852781.20	12852781.38	12852781.57	0.0139	0.0089	*
Venus	30479-07-02 16:19 G	12853469.11	12853469.18	12853469.26	0.0138	0.0128	
Venus	30480-02-14 00:29 G	12853695.38	12853695.52	12853695.69	0.0138	0.0096	
Venus	30480-09-27 08:53 G	12853921.68	12853921.87	12853922.06	0.0138	0.0064	
Venus	30481-05-11 16:48 G	12854147.99	12854148.20	12854148.42	0.0137	0.0032	
Venus	30481-12-24 00:43 G	12854374.31	12854374.53	12854374.75	0.0137	0.0000	
Venus	30482-08-07 08:09 G	12854600.64	12854600.84	12854601.06	0.0137	0.0032	
Venus	30483-03-21 15:36 G	12854826.97	12854827.15	12854827.35	0.0137	0.0063	
Venus	30483-11-02 23:02 G	12855053.31	12855053.46	12855053.62	0.0136	0.0094	
Venus	30484-06-16 06:00 G	12855279.68	12855279.75	12855279.85	0.0136	0.0124	
Mercury	30492-02-09 05:02 G	12858073.63	12858073.71	12858073.80	0.0134	0.0116	
Mercury	30492-05-07 11:17 G	12858161.84	12858161.97	12858162.10	0.0134	0.0093	
Mercury	30492-08-03 17:31 G	12858250.08	12858250.23	12858250.38	0.0134	0.0070	
Mercury	30492-10-30 23:17 G	12858338.31	12858338.47	12858338.65	0.0134	0.0048	
Mercury	30493-01-27 05:31 G	12858426.56	12858426.73	12858426.91	0.0134	0.0025	
Mercury	30493-04-25 11:31 G	12858514.80	12858514.98	12858515.16	0.0134	0.0003	
Mercury	30493-07-22 17:31 G	12858603.05	12858603.23	12858603.40	0.0134	0.0020	
Mercury	30493-10-18 23:17 G	12858691.31	12858691.47	12858691.64	0.0134	0.0042	
Mercury	30494-01-15 05:02 G	12858779.56	12858779.71	12858779.87	0.0134	0.0064	
Mercury	30494-04-13 10:48 G	12858867.83	12858867.95	12858868.09	0.0134	0.0086	
Mercury	30494-07-10 16:48 G	12858956.10	12858956.20	12858956.30	0.0134	0.0107	
Mercury	30494-10-06 22:05 G	12859044.39	12859044.42	12859044.48	0.0134	0.0129	
Mars	30495-07-23 20:38 G	12859334.29	12859334.36	12859334.48	0.0134	0.0127	
Mars	30497-06-23 19:55 G	12860035.21	12860035.33	12860035.50	0.0133	0.0118	

Earth	30519-02-01 20:38 G	12867927.21	12867927.36	12867927.55	0.0138	0.0104
Moon	30519-02-02 00:29 G	12867927.37	12867927.52	12867927.67	0.0138	0.0109 *
Moon	30520-02-06 09:50 G	12868296.66	12868296.91	12868297.17	0.0139	0.0025
Earth	30520-02-06 12:43 G	12868296.79	12868297.03	12868297.28	0.0139	0.0032 *
Earth	30521-02-10 04:48 G	12868666.46	12868666.70	12868666.95	0.0139	0.0041
Moon	30521-02-10 07:55 G	12868666.59	12868666.83	12868667.08	0.0139	0.0034 *
Moon	30522-02-14 18:57 G	12869036.17	12869036.29	12869036.44	0.0139	0.0119
Earth	30522-02-14 21:36 G	12869036.27	12869036.40	12869036.56	0.0139	0.0115 *
Venus	30523-06-27 19:12 G	12869534.28	12869534.30	12869534.35	0.0140	0.0138
Venus	30524-02-09 04:33 G	12869760.55	12869760.69	12869760.83	0.0140	0.0105
Venus	30524-09-22 13:26 G	12869986.88	12869987.06	12869987.26	0.0141	0.0072
Venus	30525-05-06 22:48 G	12870213.25	12870213.45	12870213.67	0.0141	0.0038
Venus	30525-12-19 08:38 G	12870439.64	12870439.86	12870440.07	0.0141	0.0004
Venus	30526-08-02 18:00 G	12870666.05	12870666.25	12870666.47	0.0141	0.0031
Venus	30527-03-17 03:50 G	12870892.47	12870892.66	12870892.86	0.0142	0.0066
Venus	30527-10-29 13:55 G	12871118.93	12871119.08	12871119.23	0.0142	0.0100
Venus	30528-06-11 23:45 G	12871345.44	12871345.49	12871345.56	0.0142	0.0135
Mercury	30534-11-01 10:33 G	12873678.88	12873678.94	12873679.02	0.0144	0.0124
Mercury	30535-01-28 14:53 G	12873767.02	12873767.12	12873767.22	0.0144	0.0102
Mercury	30535-04-26 18:43 G	12873855.17	12873855.28	12873855.40	0.0144	0.0081
Mercury	30535-07-23 22:48 G	12873943.33	12873943.45	12873943.59	0.0144	0.0060
Mercury	30535-10-20 03:07 G	12874031.49	12874031.63	12874031.76	0.0144	0.0037
Mercury	30536-01-16 07:12 G	12874119.66	12874119.80	12874119.94	0.0144	0.0015
Mercury	30536-04-13 11:31 G	12874207.84	12874207.98	12874208.12	0.0145	0.0008
Mercury	30536-07-10 15:36 G	12874296.01	12874296.15	12874296.29	0.0145	0.0029
Mercury	30536-10-06 19:55 G	12874384.20	12874384.33	12874384.46	0.0145	0.0052
Mercury	30537-01-03 00:00 G	12874472.38	12874472.50	12874472.63	0.0145	0.0075
Mercury	30537-04-01 04:19 G	12874560.58	12874560.68	12874560.79	0.0145	0.0098
Mercury	30537-06-28 08:38 G	12874648.79	12874648.86	12874648.94	0.0145	0.0121
Mercury	30537-09-24 12:57 G	12874737.03	12874737.04	12874737.06	0.0145	0.0144

Mars	30539-09-03 13:26 G	12875445.94	12875446.06	12875446.23	0.0145	0.0128
Moon	30558-08-02 02:24 G	12882353.47	12882353.60	12882353.75	0.0140	0.0119
Earth	30558-08-02 05:02 G	12882353.62	12882353.71	12882353.84	0.0140	0.0126 *
Earth	30559-08-06 21:50 G	12882723.19	12882723.41	12882723.66	0.0140	0.0052
Moon	30559-08-07 00:57 G	12882723.32	12882723.54	12882723.78	0.0140	0.0057 *
Moon	30560-08-10 12:00 G	12883092.75	12883093.00	12883093.26	0.0139	0.0024
Earth	30560-08-10 14:24 G	12883092.85	12883093.10	12883093.35	0.0139	0.0022 *
Earth	30561-08-15 05:31 G	12883462.56	12883462.73	12883462.93	0.0139	0.0095
Moon	30561-08-15 08:09 G	12883462.67	12883462.84	12883463.02	0.0139	0.0097 *
Venus	30563-10-15 08:24 G	12884253.73	12884253.85	12884253.99	0.0138	0.0109
Venus	30564-05-28 16:48 G	12884480.03	12884480.20	12884480.39	0.0138	0.0077
Venus	30565-01-10 00:43 G	12884706.33	12884706.53	12884706.75	0.0137	0.0046
Venus	30565-08-24 08:53 G	12884932.65	12884932.87	12884933.08	0.0137	0.0013
Venus	30566-04-07 16:19 G	12885158.97	12885159.18	12885159.40	0.0137	0.0018
Venus	30566-11-19 23:45 G	12885385.29	12885385.49	12885385.70	0.0137	0.0050
Venus	30567-07-04 07:12 G	12885611.63	12885611.80	12885611.99	0.0136	0.0081
Venus	30568-02-15 14:09 G	12885837.99	12885838.09	12885838.24	0.0136	0.0112
Mercury	30576-03-01 11:45 G	12888774.90	12888774.99	12888775.10	0.0134	0.0111
Mercury	30576-05-28 18:00 G	12888863.12	12888863.25	12888863.39	0.0134	0.0088
Mercury	30576-08-25 00:14 G	12888951.36	12888951.51	12888951.67	0.0134	0.0065
Mercury	30576-11-21 06:14 G	12889039.60	12889039.76	12889039.93	0.0134	0.0043
Mercury	30577-02-17 12:29 G	12889127.84	12889128.02	12889128.19	0.0134	0.0020
Mercury	30577-05-16 18:14 G	12889216.09	12889216.26	12889216.44	0.0134	0.0005
Mercury	30577-08-13 00:14 G	12889304.34	12889304.51	12889304.69	0.0134	0.0025
Mercury	30577-11-09 06:00 G	12889392.59	12889392.75	12889392.92	0.0134	0.0047
Mercury	30578-02-05 12:00 G	12889480.85	12889481.00	12889481.15	0.0134	0.0069
Mercury	30578-05-04 17:31 G	12889569.11	12889569.23	12889569.37	0.0134	0.0091
Mercury	30578-07-31 23:31 G	12889657.39	12889657.48	12889657.58	0.0134	0.0112
Mercury	30578-10-28 05:02 G	12889745.71	12889745.71	12889745.73	0.0134	0.0133
Mars	30580-03-18 10:48 G	12890252.66	12890252.95	12890253.26	0.0133	0.0035

Earth	30603-02-03 06:14 G	12898608.59	12898608.76	12898608.93	0.0138	0.0102
Moon	30603-02-03 09:21 G	12898608.72	12898608.89	12898609.09	0.0138	0.0096 *
Moon	30604-02-07 18:14 G	12898978.02	12898978.26	12898978.51	0.0139	0.0037
Earth	30604-02-07 21:50 G	12898978.17	12898978.41	12898978.67	0.0139	0.0030 *
Earth	30605-02-11 14:09 G	12899347.85	12899348.09	12899348.33	0.0139	0.0043
Moon	30605-02-11 17:02 G	12899347.98	12899348.21	12899348.45	0.0139	0.0050 *
Moon	30606-02-16 03:07 G	12899717.50	12899717.63	12899717.81	0.0140	0.0113
Earth	30606-02-16 06:29 G	12899717.65	12899717.77	12899717.92	0.0140	0.0118 *
Venus	30607-10-10 11:45 G	12900318.88	12900318.99	12900319.11	0.0140	0.0119
Venus	30608-05-23 20:38 G	12900545.20	12900545.36	12900545.54	0.0141	0.0086
Venus	30609-01-05 06:14 G	12900771.56	12900771.76	12900771.96	0.0141	0.0052
Venus	30609-08-19 15:36 G	12900997.94	12900998.15	12900998.37	0.0141	0.0018
Venus	30610-04-03 01:12 G	12901224.33	12901224.55	12901224.77	0.0141	0.0016
Venus	30610-11-15 10:48 G	12901450.75	12901450.95	12901451.16	0.0142	0.0051
Venus	30611-06-29 20:38 G	12901677.20	12901677.36	12901677.54	0.0142	0.0086
Venus	30612-02-11 06:57 G	12901903.68	12901903.79	12901903.90	0.0142	0.0120
Mercury	30618-08-26 14:09 G	12904292.06	12904292.09	12904292.12	0.0144	0.0139
Mercury	30618-11-22 18:00 G	12904380.18	12904380.25	12904380.34	0.0144	0.0118
Mercury	30619-02-18 22:19 G	12904468.32	12904468.43	12904468.53	0.0144	0.0097
Mercury	30619-05-18 02:09 G	12904556.48	12904556.59	12904556.71	0.0144	0.0075
Mercury	30619-08-14 06:14 G	12904644.64	12904644.76	12904644.89	0.0144	0.0054
Mercury	30619-11-10 10:19 G	12904732.80	12904732.93	12904733.07	0.0144	0.0032
Mercury	30620-02-06 14:38 G	12904820.97	12904821.11	12904821.25	0.0145	0.0009
Mercury	30620-05-04 18:43 G	12904909.14	12904909.28	12904909.42	0.0145	0.0013
Mercury	30620-07-31 23:02 G	12904997.32	12904997.46	12904997.59	0.0145	0.0036
Mercury	30620-10-28 03:07 G	12905085.50	12905085.63	12905085.76	0.0145	0.0058
Mercury	30621-01-24 07:26 G	12905173.69	12905173.81	12905173.93	0.0145	0.0081
Mercury	30621-04-22 11:31 G	12905261.89	12905261.98	12905262.09	0.0145	0.0104
Mercury	30621-07-19 15:50 G	12905350.10	12905350.16	12905350.24	0.0145	0.0127
Mars	30622-05-27 06:00 G	12905661.50	12905661.75	12905662.03	0.0145	0.0073

Moon	30642-08-03 12:43 G	12913034.94	12913035.03	12913035.13	0.0140	0.0130
Earth	30642-08-03 15:50 G	12913035.06	12913035.16	12913035.30	0.0140	0.0123 *
Earth	30643-08-08 08:53 G	12913404.64	12913404.87	12913405.11	0.0140	0.0048
Moon	30643-08-08 11:31 G	12913404.76	12913404.98	12913405.23	0.0140	0.0044 *
Moon	30644-08-11 21:36 G	12913774.15	12913774.40	12913774.66	0.0139	0.0023
Earth	30644-08-12 00:43 G	12913774.29	12913774.53	12913774.79	0.0139	0.0027 *
Earth	30645-08-16 16:19 G	12914144.00	12914144.18	12914144.36	0.0139	0.0098
Moon	30645-08-16 18:29 G	12914144.11	12914144.27	12914144.46	0.0139	0.0097 *
Venus	30647-06-15 16:33 G	12914812.11	12914812.19	12914812.30	0.0138	0.0122
Venus	30648-01-28 00:43 G	12915038.38	12915038.53	12915038.71	0.0138	0.0091
Venus	30648-09-10 08:53 G	12915264.68	12915264.87	12915265.08	0.0137	0.0059
Venus	30649-04-24 17:02 G	12915490.99	12915491.21	12915491.42	0.0137	0.0027
Venus	30649-12-07 00:43 G	12915717.31	12915717.53	12915717.75	0.0137	0.0005
Venus	30650-07-21 08:09 G	12915943.64	12915943.84	12915944.06	0.0137	0.0037
Venus	30651-03-04 15:21 G	12916169.97	12916170.14	12916170.34	0.0136	0.0068
Venus	30651-10-16 22:33 G	12916396.31	12916396.44	12916396.61	0.0136	0.0098
Venus	30652-05-30 05:45 G	12916622.69	12916622.74	12916622.83	0.0136	0.0128
Mercury	30659-12-25 12:14 G	12919387.98	12919388.01	12919388.06	0.0134	0.0130
Mercury	30660-03-22 18:14 G	12919476.17	12919476.26	12919476.38	0.0134	0.0107
Mercury	30660-06-19 00:29 G	12919564.39	12919564.52	12919564.67	0.0134	0.0084
Mercury	30660-09-15 06:43 G	12919652.63	12919652.78	12919652.95	0.0134	0.0061
Mercury	30660-12-12 12:57 G	12919740.87	12919741.04	12919741.21	0.0134	0.0038
Mercury	30661-03-10 18:57 G	12919829.11	12919829.29	12919829.47	0.0134	0.0016
Mercury	30661-06-07 00:57 G	12919917.36	12919917.54	12919917.72	0.0134	0.0007
Mercury	30661-09-03 06:57 G	12920005.61	12920005.79	12920005.96	0.0134	0.0029
Mercury	30661-11-30 12:43 G	12920093.87	12920094.03	12920094.19	0.0134	0.0051
Mercury	30662-02-26 18:29 G	12920182.13	12920182.27	12920182.42	0.0134	0.0073
Mercury	30662-05-26 00:14 G	12920270.39	12920270.51	12920270.64	0.0134	0.0094
Mercury	30662-08-22 06:00 G	12920358.67	12920358.75	12920358.84	0.0134	0.0116
Mars	30664-11-11 23:02 G	12921171.18	12921171.46	12921171.74	0.0133	0.0056

Earth	30687-02-03 13:12 G	12929289.89	12929290.05	12929290.24	0.0138	0.0101
Moon	30687-02-03 17:17 G	12929290.05	12929290.22	12929290.39	0.0138	0.0105 *
Moon	30688-02-08 01:41 G	12929659.32	12929659.57	12929659.83	0.0139	0.0021
Earth	30688-02-08 05:02 G	12929659.47	12929659.71	12929659.97	0.0139	0.0029 *
Earth	30689-02-11 21:07 G	12930029.15	12930029.38	12930029.63	0.0139	0.0045
Moon	30689-02-12 00:57 G	12930029.30	12930029.54	12930029.78	0.0139	0.0038 *
Moon	30690-02-16 10:19 G	12930398.84	12930398.93	12930399.07	0.0140	0.0125
Earth	30690-02-16 13:55 G	12930398.96	12930399.08	12930399.22	0.0140	0.0119 *
Venus	30691-06-09 18:00 G	12930877.20	12930877.25	12930877.32	0.0140	0.0134
Venus	30692-01-22 03:07 G	12931103.48	12931103.63	12931103.78	0.0140	0.0101
Venus	30692-09-04 12:00 G	12931329.82	12931330.00	12931330.20	0.0141	0.0068
Venus	30693-04-18 21:36 G	12931556.19	12931556.40	12931556.61	0.0141	0.0034
Venus	30693-12-01 07:12 G	12931782.59	12931782.80	12931783.02	0.0141	0.0002
Venus	30694-07-15 16:48 G	12932009.00	12932009.20	12932009.42	0.0141	0.0035
Venus	30695-02-27 02:38 G	12932235.43	12932235.61	12932235.80	0.0142	0.0070
Venus	30695-10-11 12:29 G	12932461.89	12932462.02	12932462.18	0.0142	0.0105
Venus	30696-05-24 22:48 G	12932688.42	12932688.45	12932688.50	0.0142	0.0139
Mercury	30702-09-16 21:07 G	12934993.34	12934993.38	12934993.43	0.0144	0.0135
Mercury	30702-12-14 00:57 G	12935081.47	12935081.54	12935081.63	0.0144	0.0115
Mercury	30703-03-12 05:02 G	12935169.61	12935169.71	12935169.82	0.0144	0.0093
Mercury	30703-06-08 09:07 G	12935257.76	12935257.88	12935258.00	0.0144	0.0071
Mercury	30703-09-04 13:12 G	12935345.92	12935346.05	12935346.19	0.0144	0.0050
Mercury	30703-12-01 17:31 G	12935434.09	12935434.23	12935434.36	0.0145	0.0028
Mercury	30704-02-27 21:36 G	12935522.26	12935522.40	12935522.54	0.0145	0.0005
Mercury	30704-05-26 01:41 G	12935610.43	12935610.57	12935610.71	0.0145	0.0017
Mercury	30704-08-22 05:45 G	12935698.61	12935698.74	12935698.88	0.0145	0.0040
Mercury	30704-11-18 10:05 G	12935786.80	12935786.92	12935787.05	0.0145	0.0062
Mercury	30705-02-14 14:24 G	12935874.99	12935875.10	12935875.22	0.0145	0.0085
Mercury	30705-05-13 18:29 G	12935963.19	12935963.27	12935963.37	0.0145	0.0108
Mercury	30705-08-09 22:48 G	12936051.40	12936051.45	12936051.52	0.0145	0.0131

Mars	30707-01-21 17:31 G	12936580.95	12936581.23	12936581.54	0.0145	0.0044
Moon	30726-08-04 22:33 G	12943716.30	12943716.44	12943716.61	0.0140	0.0112
Earth	30726-08-05 02:24 G	12943716.48	12943716.60	12943716.73	0.0140	0.0120 *
Earth	30727-08-09 18:57 G	12944086.05	12944086.29	12944086.53	0.0140	0.0045
Moon	30727-08-09 22:19 G	12944086.21	12944086.43	12944086.68	0.0140	0.0052 *
Moon	30728-08-13 07:55 G	12944455.58	12944455.83	12944456.08	0.0139	0.0031
Earth	30728-08-13 11:02 G	12944455.72	12944455.96	12944456.21	0.0139	0.0029 *
Earth	30729-08-18 02:09 G	12944825.43	12944825.59	12944825.77	0.0139	0.0101
Moon	30729-08-18 05:17 G	12944825.57	12944825.72	12944825.90	0.0139	0.0102 *
Venus	30731-02-14 00:29 G	12945370.49	12945370.52	12945370.57	0.0138	0.0136
Venus	30731-09-28 08:38 G	12945596.73	12945596.86	12945597.02	0.0138	0.0104
Venus	30732-05-11 16:48 G	12945823.03	12945823.20	12945823.40	0.0138	0.0072
Venus	30732-12-24 01:12 G	12946049.34	12946049.55	12946049.76	0.0137	0.0040
Venus	30733-08-07 08:53 G	12946275.65	12946275.87	12946276.09	0.0137	0.0008
Venus	30734-03-21 16:33 G	12946501.97	12946502.19	12946502.40	0.0137	0.0023
Venus	30734-11-02 23:45 G	12946728.30	12946728.49	12946728.70	0.0137	0.0055
Venus	30735-06-17 06:57 G	12946954.64	12946954.79	12946954.98	0.0136	0.0086
Venus	30736-01-29 14:24 G	12947181.00	12947181.10	12947181.22	0.0136	0.0116
Mercury	30744-01-15 18:57 G	12950089.24	12950089.29	12950089.36	0.0134	0.0125
Mercury	30744-04-13 01:12 G	12950177.44	12950177.55	12950177.67	0.0134	0.0102
Mercury	30744-07-10 07:26 G	12950265.67	12950265.81	12950265.96	0.0134	0.0079
Mercury	30744-10-06 13:41 G	12950353.90	12950354.07	12950354.23	0.0134	0.0056
Mercury	30745-01-02 19:26 G	12950442.15	12950442.31	12950442.49	0.0134	0.0034
Mercury	30745-04-01 01:41 G	12950530.39	12950530.57	12950530.75	0.0134	0.0011
Mercury	30745-06-28 07:41 G	12950618.64	12950618.82	12950619.00	0.0134	0.0011
Mercury	30745-09-24 13:26 G	12950706.89	12950707.06	12950707.24	0.0134	0.0034
Mercury	30745-12-21 19:12 G	12950795.15	12950795.30	12950795.47	0.0134	0.0056
Mercury	30746-03-20 00:57 G	12950883.41	12950883.54	12950883.69	0.0134	0.0078
Mercury	30746-06-16 06:57 G	12950971.68	12950971.79	12950971.91	0.0133	0.0099
Mercury	30746-09-12 12:29 G	12951059.96	12951060.02	12951060.11	0.0133	0.0121

Mars	30747-08-07 09:36 G	12951388.72	12951388.90	12951389.13	0.0133	0.0100
Earth	30771-02-04 20:09 G	12959971.17	12959971.34	12959971.52	0.0138	0.0100
Moon	30771-02-04 23:45 G	12959971.31	12959971.49	12959971.68	0.0138	0.0095 *
Moon	30772-02-09 07:55 G	12960340.59	12960340.83	12960341.08	0.0139	0.0034
Earth	30772-02-09 11:31 G	12960340.73	12960340.98	12960341.23	0.0139	0.0028 *
Earth	30773-02-13 03:36 G	12960710.41	12960710.65	12960710.89	0.0139	0.0046
Moon	30773-02-13 06:43 G	12960710.56	12960710.78	12960711.03	0.0139	0.0053 *
Moon	30774-02-17 16:19 G	12961080.04	12961080.18	12961080.33	0.0140	0.0113
Earth	30774-02-17 19:55 G	12961080.21	12961080.33	12961080.47	0.0140	0.0120 *
Venus	30775-09-22 08:09 G	12961661.74	12961661.84	12961661.98	0.0140	0.0117
Venus	30776-05-05 17:17 G	12961888.06	12961888.22	12961888.41	0.0141	0.0083
Venus	30776-12-18 02:38 G	12962114.42	12962114.61	12962114.83	0.0141	0.0050
Venus	30777-08-01 12:14 G	12962340.80	12962341.01	12962341.23	0.0141	0.0016
Venus	30778-03-15 21:50 G	12962567.20	12962567.41	12962567.63	0.0141	0.0019
Venus	30778-10-28 07:26 G	12962793.62	12962793.81	12962794.02	0.0142	0.0053
Venus	30779-06-11 17:17 G	12963020.06	12963020.22	12963020.40	0.0142	0.0088
Venus	30780-01-24 03:21 G	12963246.55	12963246.64	12963246.77	0.0142	0.0123
Mercury	30786-10-07 03:36 G	12965694.60	12965694.65	12965694.70	0.0144	0.0133
Mercury	30787-01-03 07:26 G	12965782.74	12965782.81	12965782.91	0.0144	0.0113
Mercury	30787-04-01 11:45 G	12965870.88	12965870.99	12965871.10	0.0144	0.0091
Mercury	30787-06-28 15:36 G	12965959.04	12965959.15	12965959.28	0.0144	0.0069
Mercury	30787-09-24 19:41 G	12966047.20	12966047.32	12966047.46	0.0145	0.0048
Mercury	30787-12-22 00:00 G	12966135.36	12966135.50	12966135.64	0.0145	0.0025
Mercury	30788-03-19 04:05 G	12966223.53	12966223.67	12966223.81	0.0145	0.0003
Mercury	30788-06-15 08:09 G	12966311.71	12966311.84	12966311.98	0.0145	0.0020
Mercury	30788-09-11 12:29 G	12966399.88	12966400.02	12966400.15	0.0145	0.0042
Mercury	30788-12-08 16:33 G	12966488.07	12966488.19	12966488.32	0.0145	0.0065
Mercury	30789-03-06 20:53 G	12966576.26	12966576.37	12966576.49	0.0145	0.0087
Mercury	30789-06-03 01:12 G	12966664.46	12966664.55	12966664.64	0.0145	0.0110
Mercury	30789-08-30 05:31 G	12966752.68	12966752.73	12966752.79	0.0145	0.0133

Moon	30810-08-05 06:57 G	12974397.69	12974397.79	12974397.92	0.0140	0.0125
Earth	30810-08-05 10:19 G	12974397.82	12974397.93	12974398.09	0.0140	0.0118 *
Earth	30811-08-10 03:21 G	12974767.41	12974767.64	12974767.89	0.0140	0.0044
Moon	30811-08-10 06:43 G	12974767.55	12974767.78	12974768.04	0.0140	0.0038 *
Moon	30812-08-13 15:36 G	12975136.91	12975137.15	12975137.41	0.0139	0.0027
Earth	30812-08-13 19:41 G	12975137.07	12975137.32	12975137.57	0.0139	0.0031 *
Earth	30813-08-18 10:48 G	12975506.78	12975506.95	12975507.12	0.0139	0.0103
Moon	30813-08-18 13:41 G	12975506.92	12975507.07	12975507.25	0.0139	0.0104 *
Venus	30815-05-28 16:05 G	12976155.06	12976155.17	12976155.29	0.0138	0.0117
Venus	30816-01-10 00:00 G	12976381.35	12976381.50	12976381.69	0.0138	0.0086
Venus	30816-08-23 08:24 G	12976607.65	12976607.85	12976608.05	0.0138	0.0054
Venus	30817-04-06 16:05 G	12976833.96	12976834.17	12976834.39	0.0137	0.0022
Venus	30817-11-19 00:00 G	12977060.28	12977060.50	12977060.72	0.0137	0.0009
Venus	30818-07-03 07:26 G	12977286.61	12977286.81	12977287.03	0.0137	0.0041
Venus	30819-02-14 14:53 G	12977512.94	12977513.12	12977513.32	0.0137	0.0072
Venus	30819-09-28 22:05 G	12977739.29	12977739.42	12977739.58	0.0136	0.0102
Venus	30820-05-12 05:17 G	12977965.68	12977965.72	12977965.78	0.0136	0.0132
Mercury	30828-02-05 01:26 G	12980790.49	12980790.56	12980790.64	0.0134	0.0121
Mercury	30828-05-03 07:41 G	12980878.71	12980878.82	12980878.95	0.0134	0.0098
Mercury	30828-07-30 13:55 G	12980966.94	12980967.08	12980967.23	0.0134	0.0075
Mercury	30828-10-26 19:55 G	12981055.17	12981055.33	12981055.50	0.0134	0.0053
Mercury	30829-01-23 02:09 G	12981143.42	12981143.59	12981143.76	0.0134	0.0030
Mercury	30829-04-21 08:09 G	12981231.66	12981231.84	12981232.02	0.0134	0.0007
Mercury	30829-07-18 14:09 G	12981319.91	12981320.09	12981320.27	0.0134	0.0015
Mercury	30829-10-14 19:55 G	12981408.17	12981408.33	12981408.51	0.0134	0.0038
Mercury	30830-01-11 01:41 G	12981496.42	12981496.57	12981496.74	0.0134	0.0060
Mercury	30830-04-09 07:26 G	12981584.68	12981584.81	12981584.96	0.0134	0.0082
Mercury	30830-07-06 13:26 G	12981672.95	12981673.06	12981673.17	0.0133	0.0103
Mercury	30830-10-02 18:57 G	12981761.24	12981761.29	12981761.36	0.0133	0.0124
Mars	30832-03-31 23:45 G	12982307.18	12982307.49	12982307.80	0.0133	0.0008

Earth	30855-02-05 02:53 G	12990652.45	12990652.62	12990652.80	0.0138	0.0098
Moon	30855-02-05 05:45 G	12990652.58	12990652.74	12990652.93	0.0138	0.0101 *
Moon	30856-02-09 14:53 G	12991021.88	12991022.12	12991022.37	0.0139	0.0021
Earth	30856-02-09 18:14 G	12991022.01	12991022.26	12991022.51	0.0139	0.0027 *
Earth	30857-02-13 09:36 G	12991391.68	12991391.90	12991392.16	0.0139	0.0047
Moon	30857-02-13 13:26 G	12991391.82	12991392.06	12991392.32	0.0139	0.0039 *
Moon	30858-02-17 22:48 G	12991761.37	12991761.45	12991761.57	0.0140	0.0128
Earth	30858-02-18 02:09 G	12991761.48	12991761.59	12991761.74	0.0140	0.0121 *
Venus	30859-05-22 14:09 G	12992220.02	12992220.09	12992220.17	0.0140	0.0131
Venus	30860-01-03 23:17 G	12992446.32	12992446.47	12992446.63	0.0140	0.0099
Venus	30860-08-17 08:09 G	12992672.66	12992672.84	12992673.04	0.0141	0.0066
Venus	30861-03-31 17:31 G	12992899.03	12992899.23	12992899.45	0.0141	0.0032
Venus	30861-11-13 03:07 G	12993125.42	12993125.63	12993125.85	0.0141	0.0003
Venus	30862-06-27 12:57 G	12993351.83	12993352.04	12993352.25	0.0141	0.0037
Venus	30863-02-08 22:33 G	12993578.26	12993578.44	12993578.64	0.0142	0.0072
Venus	30863-09-23 08:24 G	12993804.72	12993804.85	12993805.01	0.0142	0.0106
Venus	30864-05-06 18:57 G	12994031.26	12994031.29	12994031.32	0.0142	0.0141
Mercury	30870-10-27 10:05 G	12996395.87	12996395.92	12996395.98	0.0144	0.0132
Mercury	30871-01-23 14:09 G	12996484.00	12996484.09	12996484.18	0.0144	0.0110
Mercury	30871-04-21 18:14 G	12996572.15	12996572.26	12996572.37	0.0144	0.0089
Mercury	30871-07-18 22:05 G	12996660.31	12996660.42	12996660.55	0.0144	0.0068
Mercury	30871-10-15 02:24 G	12996748.47	12996748.60	12996748.73	0.0145	0.0045
Mercury	30872-01-11 06:29 G	12996836.63	12996836.77	12996836.91	0.0145	0.0023
Mercury	30872-04-08 10:33 G	12996924.80	12996924.94	12996925.08	0.0145	0.0001
Mercury	30872-07-05 14:38 G	12997012.98	12997013.11	12997013.25	0.0145	0.0022
Mercury	30872-10-01 18:57 G	12997101.16	12997101.29	12997101.42	0.0145	0.0044
Mercury	30872-12-28 23:02 G	12997189.34	12997189.46	12997189.59	0.0145	0.0067
Mercury	30873-03-27 03:21 G	12997277.53	12997277.64	12997277.75	0.0145	0.0089
Mercury	30873-06-23 07:41 G	12997365.73	12997365.82	12997365.91	0.0145	0.0112
Mercury	30873-09-19 12:00 G	12997453.95	12997454.00	12997454.05	0.0145	0.0135

Mars	30874-06-08 09:36 G	12997715.61	12997715.90	12997716.19	0.0145	0.0050
Moon	30894-08-05 13:55 G	13005078.94	13005079.08	13005079.25	0.0140	0.0110
Earth	30894-08-05 17:31 G	13005079.11	13005079.23	13005079.38	0.0140	0.0118 *
Earth	30895-08-10 10:19 G	13005448.70	13005448.93	13005449.18	0.0140	0.0043
Moon	30895-08-10 13:55 G	13005448.85	13005449.08	13005449.33	0.0140	0.0050 *
Moon	30896-08-13 23:02 G	13005818.22	13005818.46	13005818.71	0.0139	0.0036
Earth	30896-08-14 02:38 G	13005818.37	13005818.61	13005818.86	0.0139	0.0032 *
Earth	30897-08-18 18:00 G	13006188.08	13006188.25	13006188.41	0.0139	0.0104
Moon	30897-08-18 21:36 G	13006188.24	13006188.40	13006188.57	0.0139	0.0103 *
Venus	30899-01-25 22:05 G	13006713.38	13006713.42	13006713.50	0.0138	0.0132
Venus	30899-09-09 06:29 G	13006939.63	13006939.77	13006939.93	0.0138	0.0100
Venus	30900-04-23 14:53 G	13007165.93	13007166.12	13007166.31	0.0138	0.0068
Venus	30900-12-05 22:48 G	13007392.25	13007392.45	13007392.67	0.0138	0.0037
Venus	30901-07-20 06:57 G	13007618.57	13007618.79	13007619.01	0.0137	0.0005
Venus	30902-03-03 14:24 G	13007844.90	13007845.10	13007845.32	0.0137	0.0027
Venus	30902-10-15 22:05 G	13008071.23	13008071.42	13008071.62	0.0137	0.0058
Venus	30903-05-30 05:31 G	13008297.57	13008297.73	13008297.90	0.0136	0.0089
Venus	30904-01-11 12:43 G	13008523.94	13008524.03	13008524.15	0.0136	0.0119
Mercury	30912-02-26 07:55 G	13011491.75	13011491.83	13011491.92	0.0134	0.0117
Mercury	30912-05-24 14:09 G	13011579.97	13011580.09	13011580.22	0.0134	0.0094
Mercury	30912-08-20 20:24 G	13011668.20	13011668.35	13011668.51	0.0134	0.0071
Mercury	30912-11-17 02:38 G	13011756.44	13011756.61	13011756.78	0.0134	0.0048
Mercury	30913-02-13 08:38 G	13011844.69	13011844.86	13011845.04	0.0134	0.0026
Mercury	30913-05-12 14:38 G	13011932.93	13011933.11	13011933.29	0.0134	0.0003
Mercury	30913-08-08 20:38 G	13012021.18	13012021.36	13012021.54	0.0134	0.0019
Mercury	30913-11-05 02:24 G	13012109.44	13012109.60	13012109.78	0.0134	0.0042
Mercury	30914-02-01 08:24 G	13012197.70	13012197.85	13012198.01	0.0134	0.0063
Mercury	30914-04-30 13:55 G	13012285.96	13012286.08	13012286.23	0.0134	0.0086
Mercury	30914-07-27 19:55 G	13012374.23	13012374.33	13012374.44	0.0134	0.0107
Mercury	30914-10-24 01:26 G	13012462.53	13012462.56	13012462.62	0.0134	0.0129

Mars	30916-11-25 12:43 G	13013225.80	13013226.03	13013226.27	0.0133	0.0085
Earth	30939-02-06 11:31 G	13021333.81	13021333.98	13021334.17	0.0138	0.0096
Moon	30939-02-06 14:24 G	13021333.92	13021334.10	13021334.31	0.0138	0.0093 *
Moon	30940-02-10 23:45 G	13021703.25	13021703.49	13021703.74	0.0139	0.0030
Earth	30940-02-11 02:38 G	13021703.37	13021703.61	13021703.87	0.0139	0.0025 *
Earth	30941-02-14 18:29 G	13022073.04	13022073.27	13022073.51	0.0139	0.0049
Moon	30941-02-14 21:36 G	13022073.17	13022073.40	13022073.64	0.0139	0.0056 *
Moon	30942-02-19 07:26 G	13022442.68	13022442.81	13022442.96	0.0139	0.0116
Earth	30942-02-19 11:17 G	13022442.85	13022442.97	13022443.09	0.0139	0.0123 *
Venus	30943-09-04 06:14 G	13023004.64	13023004.76	13023004.89	0.0140	0.0112
Venus	30944-04-17 15:07 G	13023230.96	13023231.13	13023231.32	0.0140	0.0080
Venus	30944-11-30 00:43 G	13023457.32	13023457.53	13023457.73	0.0141	0.0046
Venus	30945-07-14 10:05 G	13023683.70	13023683.92	13023684.14	0.0141	0.0012
Venus	30946-02-25 19:26 G	13023910.10	13023910.31	13023910.53	0.0141	0.0022
Venus	30946-10-10 05:02 G	13024136.52	13024136.71	13024136.92	0.0141	0.0057
Venus	30947-05-24 14:53 G	13024362.97	13024363.12	13024363.30	0.0142	0.0091
Venus	30948-01-06 01:12 G	13024589.46	13024589.55	13024589.66	0.0142	0.0125
Mercury	30954-11-17 16:48 G	13027097.15	13027097.20	13027097.27	0.0144	0.0129
Mercury	30955-02-13 21:07 G	13027185.29	13027185.38	13027185.47	0.0144	0.0107
Mercury	30955-05-13 00:57 G	13027273.43	13027273.54	13027273.65	0.0144	0.0085
Mercury	30955-08-09 05:02 G	13027361.59	13027361.71	13027361.84	0.0144	0.0064
Mercury	30955-11-05 09:07 G	13027449.75	13027449.88	13027450.02	0.0145	0.0042
Mercury	30956-02-01 13:12 G	13027537.92	13027538.05	13027538.19	0.0145	0.0020
Mercury	30956-04-29 17:17 G	13027626.09	13027626.22	13027626.36	0.0145	0.0006
Mercury	30956-07-26 21:36 G	13027714.26	13027714.40	13027714.54	0.0145	0.0025
Mercury	30956-10-23 01:41 G	13027802.44	13027802.57	13027802.71	0.0145	0.0047
Mercury	30957-01-19 06:00 G	13027890.63	13027890.75	13027890.87	0.0145	0.0070
Mercury	30957-04-17 10:05 G	13027978.82	13027978.92	13027979.03	0.0145	0.0093
Mercury	30957-07-14 14:24 G	13028067.02	13028067.10	13028067.19	0.0145	0.0116
Mercury	30957-10-10 18:43 G	13028155.25	13028155.28	13028155.32	0.0145	0.0139

Mars	30959-02-02 18:29 G	13028635.01	13028635.27	13028635.56	0.0145	0.0067
Moon	30978-08-06 22:05 G	13035760.32	13035760.42	13035760.56	0.0140	0.0123
Earth	30978-08-07 00:57 G	13035760.42	13035760.54	13035760.70	0.0140	0.0116 *
Earth	30979-08-11 18:14 G	13036130.02	13036130.26	13036130.50	0.0140	0.0041
Moon	30979-08-11 21:36 G	13036130.15	13036130.40	13036130.65	0.0140	0.0034 *
Moon	30980-08-15 06:43 G	13036499.54	13036499.78	13036500.03	0.0139	0.0027
Earth	30980-08-15 10:05 G	13036499.69	13036499.92	13036500.18	0.0139	0.0034 *
Earth	30981-08-20 01:12 G	13036869.40	13036869.55	13036869.72	0.0139	0.0106
Moon	30981-08-20 04:33 G	13036869.55	13036869.69	13036869.87	0.0139	0.0108 *
Venus	30983-05-10 13:12 G	13037497.94	13037498.05	13037498.18	0.0138	0.0114
Venus	30983-12-22 21:21 G	13037724.23	13037724.39	13037724.58	0.0138	0.0083
Venus	30984-08-05 05:45 G	13037950.54	13037950.74	13037950.95	0.0138	0.0051
Venus	30985-03-19 13:41 G	13038176.86	13038177.07	13038177.29	0.0137	0.0019
Venus	30985-10-31 21:36 G	13038403.18	13038403.40	13038403.62	0.0137	0.0013
Venus	30986-06-15 05:17 G	13038629.52	13038629.72	13038629.94	0.0137	0.0044
Venus	30987-01-27 12:57 G	13038855.86	13038856.04	13038856.23	0.0137	0.0075
Venus	30987-09-10 20:09 G	13039082.21	13039082.34	13039082.49	0.0136	0.0106
Venus	30988-04-24 03:36 G	13039308.64	13039308.65	13039308.67	0.0136	0.0136
Mercury	30996-03-17 14:09 G	13042193.01	13042193.09	13042193.20	0.0134	0.0114
Mercury	30996-06-13 20:24 G	13042281.23	13042281.35	13042281.50	0.0134	0.0091
Mercury	30996-09-10 02:38 G	13042369.47	13042369.61	13042369.78	0.0134	0.0068
Mercury	30996-12-07 08:53 G	13042457.71	13042457.87	13042458.05	0.0134	0.0045
Mercury	30997-03-05 15:07 G	13042545.95	13042546.13	13042546.31	0.0134	0.0022
Mercury	30997-06-01 21:07 G	13042634.20	13042634.38	13042634.56	0.0134	0.0001
Mercury	30997-08-29 03:07 G	13042722.45	13042722.63	13042722.80	0.0134	0.0023
Mercury	30997-11-25 08:53 G	13042810.71	13042810.87	13042811.04	0.0134	0.0045
Mercury	30998-02-21 14:38 G	13042898.97	13042899.11	13042899.27	0.0134	0.0068
Mercury	30998-05-20 20:24 G	13042987.24	13042987.35	13042987.50	0.0134	0.0090
Mercury	30998-08-17 02:24 G	13043075.51	13043075.60	13043075.70	0.0134	0.0111
Mercury	30998-11-13 07:55 G	13043163.83	13043163.83	13043163.87	0.0134	0.0133

Mars 30999-08-19 21:21 G 13043443.14 13043443.39 13043443.66 0.0133 0.0073

32ND MILLENNIUM CE

This is a list of transits visible from Uranus in the 32nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	31023-02-07 20:53	G	13052015.19	13052015.37	13052015.56	0.0138	0.0093	
Moon	31023-02-07 22:48	G	13052015.27	13052015.45	13052015.65	0.0138	0.0094	*
Moon	31024-02-12 09:36	G	13052384.66	13052384.90	13052385.15	0.0139	0.0017	
Earth	31024-02-12 12:00	G	13052384.76	13052385.00	13052385.26	0.0139	0.0022	*
Earth	31025-02-16 03:50	G	13052754.43	13052754.66	13052754.91	0.0139	0.0052	
Moon	31025-02-16 06:43	G	13052754.55	13052754.78	13052755.04	0.0139	0.0045	*
Moon	31026-02-20 17:31	G	13053124.18	13053124.23	13053124.32	0.0139	0.0134	
Earth	31026-02-20 20:53	G	13053124.26	13053124.37	13053124.48	0.0139	0.0126	*
Venus	31027-05-05 13:41	G	13053563.00	13053563.07	13053563.18	0.0140	0.0126	
Venus	31027-12-17 23:02	G	13053789.31	13053789.46	13053789.63	0.0140	0.0093	
Venus	31028-07-31 08:24	G	13054015.66	13054015.85	13054016.05	0.0141	0.0060	
Venus	31029-03-14 17:45	G	13054242.03	13054242.24	13054242.45	0.0141	0.0026	
Venus	31029-10-27 03:07	G	13054468.42	13054468.63	13054468.85	0.0141	0.0008	
Venus	31030-06-10 12:43	G	13054694.83	13054695.03	13054695.25	0.0141	0.0042	
Venus	31031-01-22 22:33	G	13054921.27	13054921.44	13054921.64	0.0142	0.0077	
Venus	31031-09-06 08:24	G	13055147.74	13055147.85	13055148.00	0.0142	0.0111	
Mercury	31038-09-11 20:24	G	13057710.34	13057710.35	13057710.36	0.0144	0.0144	
Mercury	31038-12-09 00:14	G	13057798.45	13057798.51	13057798.59	0.0144	0.0123	

Mercury	31039-03-07 04:19 G	13057886.59	13057886.68	13057886.78	0.0144	0.0101
Mercury	31039-06-03 08:24 G	13057974.74	13057974.85	13057974.97	0.0144	0.0080
Mercury	31039-08-30 12:29 G	13058062.89	13058063.02	13058063.15	0.0144	0.0058
Mercury	31039-11-26 16:19 G	13058151.05	13058151.18	13058151.32	0.0145	0.0037
Mercury	31040-02-22 20:38 G	13058239.22	13058239.36	13058239.50	0.0145	0.0014
Mercury	31040-05-21 00:43 G	13058327.39	13058327.53	13058327.67	0.0145	0.0008
Mercury	31040-08-17 04:48 G	13058415.57	13058415.70	13058415.84	0.0145	0.0031
Mercury	31040-11-13 08:53 G	13058503.75	13058503.87	13058504.01	0.0145	0.0054
Mercury	31041-02-09 13:12 G	13058591.94	13058592.05	13058592.18	0.0145	0.0076
Mercury	31041-05-08 17:31 G	13058680.13	13058680.23	13058680.34	0.0145	0.0099
Mercury	31041-08-04 21:50 G	13058768.34	13058768.41	13058768.49	0.0145	0.0122
Mars	31041-10-26 16:19 G	13058851.07	13058851.18	13058851.29	0.0145	0.0134
Moon	31062-08-08 07:41 G	13066441.68	13066441.82	13066442.00	0.0140	0.0108
Earth	31062-08-08 11:02 G	13066441.82	13066441.96	13066442.11	0.0140	0.0114 *
Earth	31063-08-13 03:21 G	13066811.41	13066811.64	13066811.90	0.0140	0.0039
Moon	31063-08-13 06:29 G	13066811.53	13066811.77	13066812.02	0.0140	0.0046 *
Moon	31064-08-16 16:19 G	13067180.95	13067181.18	13067181.43	0.0139	0.0042
Earth	31064-08-16 19:41 G	13067181.08	13067181.32	13067181.57	0.0139	0.0036 *
Earth	31065-08-21 10:19 G	13067550.80	13067550.93	13067551.11	0.0139	0.0109
Moon	31065-08-21 13:55 G	13067550.94	13067551.08	13067551.27	0.0139	0.0106 *
Venus	31067-01-08 20:53 G	13068056.29	13068056.37	13068056.46	0.0138	0.0128
Venus	31067-08-23 05:02 G	13068282.57	13068282.71	13068282.88	0.0138	0.0096
Venus	31068-04-05 13:26 G	13068508.87	13068509.06	13068509.26	0.0138	0.0064
Venus	31068-11-17 21:21 G	13068735.19	13068735.39	13068735.61	0.0137	0.0033
Venus	31069-07-02 05:45 G	13068961.52	13068961.74	13068961.96	0.0137	0.0001
Venus	31070-02-13 13:26 G	13069187.85	13069188.06	13069188.28	0.0137	0.0031
Venus	31070-09-27 21:07 G	13069414.19	13069414.38	13069414.58	0.0137	0.0062
Venus	31071-05-12 04:33 G	13069640.53	13069640.69	13069640.85	0.0136	0.0093
Venus	31071-12-24 11:31 G	13069866.91	13069866.98	13069867.09	0.0136	0.0124
Mercury	31080-01-10 14:38 G	13072806.10	13072806.11	13072806.15	0.0134	0.0132

Mercury	31080-04-07 20:53 G	13072894.28	13072894.37	13072894.49	0.0134	0.0109
Mercury	31080-07-05 03:07 G	13072982.51	13072982.63	13072982.78	0.0134	0.0086
Mercury	31080-10-01 09:21 G	13073070.74	13073070.89	13073071.06	0.0134	0.0063
Mercury	31080-12-28 15:36 G	13073158.99	13073159.15	13073159.33	0.0134	0.0040
Mercury	31081-03-26 21:50 G	13073247.23	13073247.41	13073247.59	0.0134	0.0017
Mercury	31081-06-23 03:50 G	13073335.49	13073335.66	13073335.84	0.0134	0.0006
Mercury	31081-09-19 09:50 G	13073423.74	13073423.91	13073424.09	0.0134	0.0028
Mercury	31081-12-16 15:36 G	13073512.00	13073512.15	13073512.32	0.0134	0.0051
Mercury	31082-03-14 21:36 G	13073600.26	13073600.40	13073600.55	0.0134	0.0073
Mercury	31082-06-11 03:21 G	13073688.53	13073688.64	13073688.77	0.0134	0.0095
Mercury	31082-09-07 09:21 G	13073776.81	13073776.89	13073776.98	0.0134	0.0116
Mars	31084-04-14 12:57 G	13074361.74	13074362.04	13074362.34	0.0133	0.0023
Earth	31107-02-09 06:43 G	13082696.59	13082696.78	13082696.98	0.0138	0.0091
Moon	31107-02-09 08:24 G	13082696.66	13082696.85	13082697.06	0.0138	0.0089 *
Moon	31108-02-13 20:09 G	13083066.10	13083066.34	13083066.59	0.0139	0.0022
Earth	31108-02-13 21:50 G	13083066.17	13083066.41	13083066.67	0.0139	0.0019 *
Earth	31109-02-17 13:55 G	13083435.85	13083436.08	13083436.32	0.0139	0.0055
Moon	31109-02-17 16:19 G	13083435.95	13083436.18	13083436.42	0.0139	0.0061 *
Moon	31110-02-22 03:50 G	13083805.56	13083805.66	13083805.80	0.0139	0.0122
Earth	31110-02-22 06:29 G	13083805.70	13083805.77	13083805.89	0.0139	0.0130 *
Venus	31111-01-03 22:05 G	13084121.41	13084121.42	13084121.46	0.0140	0.0139
Venus	31111-08-18 07:12 G	13084347.67	13084347.80	13084347.95	0.0140	0.0106
Venus	31112-03-31 16:05 G	13084574.00	13084574.17	13084574.37	0.0140	0.0074
Venus	31112-11-13 01:41 G	13084800.37	13084800.57	13084800.78	0.0141	0.0040
Venus	31113-06-27 11:17 G	13085026.75	13085026.97	13085027.19	0.0141	0.0006
Venus	31114-02-08 20:53 G	13085253.16	13085253.37	13085253.58	0.0141	0.0028
Venus	31114-09-23 06:29 G	13085479.58	13085479.77	13085479.97	0.0141	0.0062
Venus	31115-05-07 16:19 G	13085706.03	13085706.18	13085706.35	0.0142	0.0097
Venus	31115-12-20 02:24 G	13085932.53	13085932.60	13085932.69	0.0142	0.0131
Mercury	31122-10-03 03:50 G	13088411.63	13088411.66	13088411.70	0.0144	0.0138

Mercury	31122-12-30 07:41 G	13088499.75	13088499.82	13088499.91	0.0144	0.0117
Mercury	31123-03-28 12:00 G	13088587.89	13088588.00	13088588.10	0.0144	0.0095
Mercury	31123-06-24 15:50 G	13088676.04	13088676.16	13088676.28	0.0144	0.0073
Mercury	31123-09-20 19:55 G	13088764.20	13088764.33	13088764.46	0.0144	0.0051
Mercury	31123-12-18 00:00 G	13088852.37	13088852.50	13088852.64	0.0145	0.0029
Mercury	31124-03-15 04:05 G	13088940.53	13088940.67	13088940.81	0.0145	0.0008
Mercury	31124-06-11 08:09 G	13089028.71	13089028.84	13089028.98	0.0145	0.0016
Mercury	31124-09-07 12:29 G	13089116.88	13089117.02	13089117.15	0.0145	0.0038
Mercury	31124-12-04 16:33 G	13089205.07	13089205.19	13089205.32	0.0145	0.0060
Mercury	31125-03-02 20:53 G	13089293.26	13089293.37	13089293.49	0.0145	0.0083
Mercury	31125-05-30 00:57 G	13089381.45	13089381.54	13089381.64	0.0145	0.0106
Mercury	31125-08-26 05:17 G	13089469.67	13089469.72	13089469.79	0.0145	0.0129
Mars	31126-06-23 07:55 G	13089770.53	13089770.83	13089771.13	0.0145	0.0012
Moon	31146-08-09 19:41 G	13097123.20	13097123.32	13097123.48	0.0140	0.0116
Earth	31146-08-09 22:05 G	13097123.26	13097123.42	13097123.57	0.0140	0.0110 *
Earth	31147-08-14 14:24 G	13097492.86	13097493.10	13097493.35	0.0140	0.0035
Moon	31147-08-14 17:17 G	13097492.97	13097493.22	13097493.48	0.0140	0.0028 *
Moon	31148-08-18 03:50 G	13097862.42	13097862.66	13097862.90	0.0139	0.0032
Earth	31148-08-18 06:29 G	13097862.53	13097862.77	13097863.02	0.0139	0.0039 *
Earth	31149-08-22 21:21 G	13098232.25	13098232.39	13098232.55	0.0139	0.0112
Moon	31149-08-23 00:29 G	13098232.38	13098232.52	13098232.67	0.0139	0.0115 *
Venus	31151-04-23 13:41 G	13098840.94	13098841.07	13098841.21	0.0138	0.0108
Venus	31151-12-05 21:50 G	13099067.24	13099067.41	13099067.60	0.0138	0.0077
Venus	31152-07-19 06:14 G	13099293.56	13099293.76	13099293.97	0.0138	0.0045
Venus	31153-03-02 14:24 G	13099519.88	13099520.10	13099520.32	0.0137	0.0013
Venus	31153-10-14 22:19 G	13099746.21	13099746.43	13099746.64	0.0137	0.0018
Venus	31154-05-29 05:45 G	13099972.55	13099972.74	13099972.95	0.0137	0.0050
Venus	31155-01-10 13:12 G	13100198.89	13100199.05	13100199.24	0.0137	0.0081
Venus	31155-08-24 20:53 G	13100425.25	13100425.37	13100425.50	0.0136	0.0111
Mercury	31164-01-31 21:36 G	13103507.36	13103507.40	13103507.47	0.0134	0.0127

Mercury	31164-04-29 03:50 G	13103595.56	13103595.66	13103595.79	0.0134	0.0104
Mercury	31164-07-26 10:19 G	13103683.79	13103683.93	13103684.08	0.0134	0.0080
Mercury	31164-10-22 16:33 G	13103772.03	13103772.19	13103772.35	0.0134	0.0057
Mercury	31165-01-18 22:33 G	13103860.27	13103860.44	13103860.62	0.0134	0.0034
Mercury	31165-04-17 04:48 G	13103948.52	13103948.70	13103948.88	0.0134	0.0012
Mercury	31165-07-14 10:48 G	13104036.77	13104036.95	13104037.13	0.0134	0.0011
Mercury	31165-10-10 16:33 G	13104125.03	13104125.19	13104125.37	0.0134	0.0034
Mercury	31166-01-06 22:33 G	13104213.29	13104213.44	13104213.61	0.0134	0.0056
Mercury	31166-04-05 04:19 G	13104301.55	13104301.68	13104301.84	0.0134	0.0078
Mercury	31166-07-02 10:19 G	13104389.82	13104389.93	13104390.05	0.0133	0.0099
Mercury	31166-09-28 16:19 G	13104478.11	13104478.18	13104478.25	0.0133	0.0121
Mars	31168-12-09 03:36 G	13105280.52	13105280.65	13105280.81	0.0133	0.0118
Earth	31191-02-09 15:07 G	13113377.94	13113378.13	13113378.33	0.0138	0.0089
Moon	31191-02-09 15:36 G	13113377.95	13113378.15	13113378.36	0.0138	0.0087 *
Moon	31192-02-14 05:17 G	13113747.48	13113747.72	13113747.97	0.0139	0.0013
Earth	31192-02-14 06:29 G	13113747.52	13113747.77	13113748.03	0.0139	0.0016 *
Earth	31193-02-17 22:33 G	13114117.22	13114117.44	13114117.68	0.0139	0.0058
Moon	31193-02-18 00:29 G	13114117.28	13114117.52	13114117.77	0.0139	0.0051 *
Moon	31194-02-22 14:09 G	13114487.07	13114487.09	13114487.11	0.0140	0.0139
Earth	31194-02-22 15:36 G	13114487.08	13114487.15	13114487.24	0.0140	0.0132 *
Venus	31195-04-17 14:09 G	13114906.00	13114906.09	13114906.22	0.0140	0.0120
Venus	31195-11-29 23:31 G	13115132.32	13115132.48	13115132.66	0.0140	0.0087
Venus	31196-07-13 08:53 G	13115358.68	13115358.87	13115359.08	0.0141	0.0054
Venus	31197-02-24 18:29 G	13115585.05	13115585.27	13115585.48	0.0141	0.0020
Venus	31197-10-09 03:50 G	13115811.45	13115811.66	13115811.88	0.0141	0.0014
Venus	31198-05-23 13:26 G	13116037.86	13116038.06	13116038.27	0.0141	0.0048
Venus	31199-01-04 23:31 G	13116264.31	13116264.48	13116264.66	0.0142	0.0082
Venus	31199-08-19 09:21 G	13116490.78	13116490.89	13116491.02	0.0142	0.0116
Mercury	31206-10-23 11:02 G	13119112.92	13119112.96	13119113.02	0.0144	0.0132
Mercury	31207-01-19 15:07 G	13119201.05	13119201.13	13119201.22	0.0144	0.0111

Mercury	31207-04-17 18:57 G	13119289.19	13119289.29	13119289.41	0.0144	0.0090
Mercury	31207-07-14 23:17 G	13119377.35	13119377.47	13119377.59	0.0144	0.0067
Mercury	31207-10-11 03:21 G	13119465.51	13119465.64	13119465.77	0.0145	0.0045
Mercury	31208-01-07 07:26 G	13119553.67	13119553.81	13119553.95	0.0145	0.0023
Mercury	31208-04-04 11:31 G	13119641.84	13119641.98	13119642.12	0.0145	0.0002
Mercury	31208-07-01 15:36 G	13119730.02	13119730.15	13119730.29	0.0145	0.0022
Mercury	31208-09-27 19:55 G	13119818.20	13119818.33	13119818.46	0.0145	0.0044
Mercury	31208-12-25 00:00 G	13119906.38	13119906.50	13119906.63	0.0145	0.0067
Mercury	31209-03-23 04:05 G	13119994.57	13119994.67	13119994.79	0.0145	0.0090
Mercury	31209-06-19 08:24 G	13120082.77	13120082.85	13120082.95	0.0145	0.0113
Mercury	31209-09-15 12:43 G	13120170.99	13120171.03	13120171.09	0.0145	0.0136
Mars	31211-02-16 22:48 G	13120690.28	13120690.45	13120690.67	0.0145	0.0112
Moon	31230-08-10 07:41 G	13127804.66	13127804.82	13127805.00	0.0140	0.0100
Earth	31230-08-10 09:21 G	13127804.74	13127804.89	13127805.07	0.0140	0.0106 *
Earth	31231-08-15 02:09 G	13128174.35	13128174.59	13128174.84	0.0140	0.0031
Moon	31231-08-15 04:05 G	13128174.42	13128174.67	13128174.92	0.0140	0.0038 *
Moon	31232-08-18 15:36 G	13128543.93	13128544.15	13128544.39	0.0139	0.0050
Earth	31232-08-18 17:45 G	13128544.01	13128544.24	13128544.49	0.0139	0.0044 *
Earth	31233-08-23 08:53 G	13128913.75	13128913.87	13128914.02	0.0139	0.0116
Moon	31233-08-23 11:31 G	13128913.85	13128913.98	13128914.15	0.0139	0.0112 *
Venus	31234-12-21 22:33 G	13129399.34	13129399.44	13129399.55	0.0138	0.0120
Venus	31235-08-05 06:43 G	13129625.63	13129625.78	13129625.96	0.0138	0.0089
Venus	31236-03-18 15:07 G	13129851.94	13129852.13	13129852.34	0.0138	0.0057
Venus	31236-10-30 23:17 G	13130078.26	13130078.47	13130078.69	0.0137	0.0025
Venus	31237-06-14 07:26 G	13130304.59	13130304.81	13130305.03	0.0137	0.0006
Venus	31238-01-26 15:07 G	13130530.93	13130531.13	13130531.35	0.0137	0.0038
Venus	31238-09-09 22:33 G	13130757.26	13130757.44	13130757.64	0.0137	0.0069
Venus	31239-04-24 06:14 G	13130983.61	13130983.76	13130983.91	0.0136	0.0099
Venus	31239-12-06 13:12 G	13131210.00	13131210.05	13131210.14	0.0136	0.0129
Mercury	31248-02-21 04:33 G	13134208.63	13134208.69	13134208.78	0.0134	0.0121

Mercury	31248-05-19 10:48 G	13134296.84	13134296.95	13134297.09	0.0134	0.0098
Mercury	31248-08-15 17:02 G	13134385.08	13134385.21	13134385.38	0.0134	0.0075
Mercury	31248-11-11 23:17 G	13134473.32	13134473.47	13134473.65	0.0134	0.0052
Mercury	31249-02-08 05:31 G	13134561.56	13134561.73	13134561.91	0.0134	0.0029
Mercury	31249-05-07 11:45 G	13134649.81	13134649.99	13134650.17	0.0134	0.0006
Mercury	31249-08-03 17:45 G	13134738.07	13134738.24	13134738.42	0.0134	0.0017
Mercury	31249-10-30 23:45 G	13134826.32	13134826.49	13134826.66	0.0133	0.0039
Mercury	31250-01-27 05:31 G	13134914.58	13134914.73	13134914.90	0.0133	0.0062
Mercury	31250-04-25 11:31 G	13135002.85	13135002.98	13135003.12	0.0133	0.0083
Mercury	31250-07-22 17:17 G	13135091.12	13135091.22	13135091.34	0.0133	0.0105
Mercury	31250-10-18 23:17 G	13135179.42	13135179.47	13135179.52	0.0133	0.0127
Mars	31251-09-02 14:24 G	13135497.81	13135498.10	13135498.40	0.0133	0.0040
Earth	31275-02-09 22:48 G	13144059.27	13144059.45	13144059.66	0.0138	0.0087
Moon	31275-02-09 22:48 G	13144059.27	13144059.45	13144059.68	0.0138	0.0089 *
Moon	31276-02-14 14:09 G	13144428.85	13144429.09	13144429.34	0.0139	0.0016
Earth	31276-02-14 14:24 G	13144428.85	13144429.10	13144429.36	0.0139	0.0015 *
Earth	31277-02-18 06:43 G	13144798.55	13144798.78	13144799.01	0.0139	0.0059
Moon	31277-02-18 07:12 G	13144798.58	13144798.80	13144799.05	0.0139	0.0064 *
Moon	31278-02-22 22:05 G	13145168.33	13145168.42	13145168.53	0.0140	0.0127
Earth	31278-02-22 23:31 G	13145168.43	13145168.48	13145168.57	0.0140	0.0134 *
Venus	31278-12-15 21:07 G	13145464.34	13145464.38	13145464.46	0.0140	0.0134
Venus	31279-07-30 06:14 G	13145690.62	13145690.76	13145690.92	0.0140	0.0101
Venus	31280-03-12 15:21 G	13145916.96	13145917.14	13145917.34	0.0140	0.0069
Venus	31280-10-25 00:43 G	13146143.32	13146143.53	13146143.74	0.0141	0.0035
Venus	31281-06-08 10:19 G	13146369.71	13146369.93	13146370.14	0.0141	0.0002
Venus	31282-01-20 19:55 G	13146596.12	13146596.33	13146596.54	0.0141	0.0033
Venus	31282-09-04 05:31 G	13146822.55	13146822.73	13146822.93	0.0142	0.0067
Venus	31283-04-18 15:07 G	13147049.00	13147049.13	13147049.30	0.0142	0.0101
Venus	31283-12-01 01:12 G	13147275.50	13147275.55	13147275.63	0.0142	0.0135
Mercury	31290-11-12 18:14 G	13149814.20	13149814.26	13149814.32	0.0144	0.0128

Mercury	31291-02-08 22:05 G	13149902.34	13149902.42	13149902.52	0.0144	0.0107
Mercury	31291-05-08 02:09 G	13149990.48	13149990.59	13149990.70	0.0144	0.0085
Mercury	31291-08-04 06:14 G	13150078.64	13150078.76	13150078.89	0.0144	0.0063
Mercury	31291-10-31 10:19 G	13150166.80	13150166.93	13150167.06	0.0145	0.0041
Mercury	31292-01-27 14:24 G	13150254.96	13150255.10	13150255.24	0.0145	0.0019
Mercury	31292-04-24 18:29 G	13150343.13	13150343.27	13150343.41	0.0145	0.0005
Mercury	31292-07-21 22:48 G	13150431.31	13150431.45	13150431.58	0.0145	0.0026
Mercury	31292-10-18 02:53 G	13150519.49	13150519.62	13150519.75	0.0145	0.0048
Mercury	31293-01-14 07:12 G	13150607.68	13150607.80	13150607.92	0.0145	0.0071
Mercury	31293-04-12 11:17 G	13150695.87	13150695.97	13150696.08	0.0145	0.0094
Mercury	31293-07-09 15:36 G	13150784.07	13150784.15	13150784.23	0.0145	0.0117
Mercury	31293-10-05 19:55 G	13150872.30	13150872.33	13150872.37	0.0145	0.0140
Mars	31293-11-08 17:31 G	13150906.03	13150906.23	13150906.48	0.0145	0.0096
Moon	31314-08-11 19:41 G	13158486.18	13158486.32	13158486.49	0.0140	0.0108
Earth	31314-08-11 20:24 G	13158486.19	13158486.35	13158486.53	0.0140	0.0102 *
Earth	31315-08-16 12:57 G	13158855.80	13158856.04	13158856.30	0.0140	0.0028
Moon	31315-08-16 14:38 G	13158855.85	13158856.11	13158856.37	0.0140	0.0021 *
Moon	31316-08-20 03:21 G	13159225.41	13159225.64	13159225.88	0.0139	0.0040
Earth	31316-08-20 04:48 G	13159225.47	13159225.70	13159225.95	0.0139	0.0047 *
Earth	31317-08-24 19:41 G	13159595.21	13159595.32	13159595.47	0.0139	0.0120
Moon	31317-08-24 21:50 G	13159595.31	13159595.41	13159595.54	0.0139	0.0124 *
Venus	31318-08-22 07:12 G	13159957.75	13159957.80	13159957.86	0.0138	0.0133
Venus	31319-04-05 15:21 G	13160184.01	13160184.14	13160184.31	0.0138	0.0102
Venus	31319-11-18 00:00 G	13160410.32	13160410.50	13160410.69	0.0138	0.0069
Venus	31320-07-01 08:24 G	13160636.64	13160636.85	13160637.06	0.0138	0.0038
Venus	31321-02-12 16:33 G	13160862.97	13160863.19	13160863.40	0.0137	0.0007
Venus	31321-09-27 00:14 G	13161089.30	13161089.51	13161089.73	0.0137	0.0025
Venus	31322-05-11 07:55 G	13161315.63	13161315.83	13161316.03	0.0137	0.0056
Venus	31322-12-23 15:21 G	13161541.98	13161542.14	13161542.31	0.0137	0.0087
Venus	31323-08-06 22:33 G	13161768.34	13161768.44	13161768.57	0.0136	0.0117

Mercury	31332-03-13 11:45 G	13164909.91	13164909.99	13164910.09	0.0134	0.0115
Mercury	31332-06-09 18:00 G	13164998.13	13164998.25	13164998.39	0.0134	0.0092
Mercury	31332-09-06 00:14 G	13165086.36	13165086.51	13165086.67	0.0134	0.0069
Mercury	31332-12-03 06:29 G	13165174.61	13165174.77	13165174.94	0.0134	0.0046
Mercury	31333-03-01 12:43 G	13165262.85	13165263.03	13165263.21	0.0134	0.0023
Mercury	31333-05-28 18:43 G	13165351.10	13165351.28	13165351.46	0.0133	0.0003
Mercury	31333-08-25 00:43 G	13165439.36	13165439.53	13165439.71	0.0133	0.0023
Mercury	31333-11-21 06:43 G	13165527.62	13165527.78	13165527.95	0.0133	0.0045
Mercury	31334-02-17 12:29 G	13165615.88	13165616.02	13165616.18	0.0133	0.0067
Mercury	31334-05-16 18:43 G	13165704.15	13165704.28	13165704.41	0.0133	0.0089
Mercury	31334-08-13 00:14 G	13165792.42	13165792.51	13165792.62	0.0133	0.0111
Mercury	31334-11-09 06:00 G	13165880.74	13165880.75	13165880.78	0.0133	0.0132
Mars	31336-04-28 07:12 G	13166416.54	13166416.80	13166417.10	0.0133	0.0057
Moon	31359-02-11 04:05 G	13174740.48	13174740.67	13174740.90	0.0138	0.0084
Earth	31359-02-11 05:17 G	13174740.54	13174740.72	13174740.93	0.0138	0.0087 *
Earth	31360-02-15 21:07 G	13175110.13	13175110.38	13175110.63	0.0139	0.0014
Moon	31360-02-15 21:36 G	13175110.15	13175110.40	13175110.64	0.0139	0.0013 *
Moon	31361-02-19 13:12 G	13175479.82	13175480.05	13175480.31	0.0139	0.0055
Earth	31361-02-19 13:12 G	13175479.83	13175480.05	13175480.29	0.0139	0.0060 *
Earth	31362-02-24 05:45 G	13175849.69	13175849.74	13175849.83	0.0140	0.0135
Venus	31363-03-30 12:00 G	13176248.89	13176249.00	13176249.13	0.0140	0.0116
Venus	31363-11-11 21:07 G	13176475.21	13176475.38	13176475.55	0.0140	0.0084
Venus	31364-06-25 06:14 G	13176701.56	13176701.76	13176701.96	0.0141	0.0051
Venus	31365-02-06 15:36 G	13176927.93	13176928.15	13176928.37	0.0141	0.0017
Venus	31365-09-21 00:57 G	13177154.33	13177154.54	13177154.76	0.0141	0.0016
Venus	31366-05-05 10:19 G	13177380.74	13177380.93	13177381.15	0.0141	0.0051
Venus	31366-12-17 20:09 G	13177607.18	13177607.34	13177607.53	0.0142	0.0085
Venus	31367-08-01 06:14 G	13177833.65	13177833.76	13177833.89	0.0142	0.0118
Mercury	31374-12-04 00:43 G	13180515.47	13180515.53	13180515.60	0.0144	0.0125
Mercury	31375-03-02 04:48 G	13180603.61	13180603.70	13180603.80	0.0144	0.0104

Mercury	31375-05-29 08:53 G	13180691.76	13180691.87	13180691.99	0.0145	0.0082
Mercury	31375-08-25 12:57 G	13180779.92	13180780.04	13180780.17	0.0145	0.0060
Mercury	31375-11-21 17:02 G	13180868.08	13180868.21	13180868.34	0.0145	0.0038
Mercury	31376-02-17 21:07 G	13180956.24	13180956.38	13180956.52	0.0145	0.0016
Mercury	31376-05-16 01:12 G	13181044.41	13181044.55	13181044.69	0.0145	0.0007
Mercury	31376-08-12 05:31 G	13181132.59	13181132.73	13181132.86	0.0145	0.0029
Mercury	31376-11-08 09:36 G	13181220.77	13181220.90	13181221.03	0.0145	0.0051
Mercury	31377-02-04 13:41 G	13181308.96	13181309.07	13181309.20	0.0145	0.0074
Mercury	31377-05-03 18:00 G	13181397.15	13181397.25	13181397.36	0.0145	0.0097
Mercury	31377-07-30 22:19 G	13181485.35	13181485.43	13181485.51	0.0145	0.0120
Mercury	31377-10-27 02:38 G	13181573.59	13181573.61	13181573.63	0.0145	0.0143
Mars	31378-07-05 23:17 G	13181825.17	13181825.47	13181825.77	0.0145	0.0021
Moon	31398-08-12 05:31 G	13189167.55	13189167.73	13189167.91	0.0140	0.0096
Earth	31398-08-12 05:31 G	13189167.57	13189167.73	13189167.92	0.0140	0.0100 *
Earth	31399-08-16 22:33 G	13189537.20	13189537.44	13189537.70	0.0140	0.0025
Moon	31399-08-16 23:02 G	13189537.21	13189537.46	13189537.72	0.0140	0.0031 *
Moon	31400-08-21 13:26 G	13189906.85	13189907.06	13189907.30	0.0139	0.0056
Earth	31400-08-21 14:38 G	13189906.87	13189907.11	13189907.35	0.0139	0.0050 *
Earth	31401-08-26 05:31 G	13190276.64	13190276.73	13190276.87	0.0139	0.0123
Moon	31401-08-26 07:12 G	13190276.68	13190276.80	13190276.96	0.0139	0.0117 *
Venus	31402-12-04 23:17 G	13190742.37	13190742.47	13190742.61	0.0138	0.0115
Venus	31403-07-19 08:09 G	13190968.67	13190968.84	13190969.02	0.0138	0.0082
Venus	31404-03-01 16:19 G	13191194.99	13191195.18	13191195.40	0.0138	0.0051
Venus	31404-10-14 00:43 G	13191421.31	13191421.53	13191421.75	0.0137	0.0019
Venus	31405-05-28 08:38 G	13191647.65	13191647.86	13191648.08	0.0137	0.0013
Venus	31406-01-09 16:19 G	13191873.98	13191874.18	13191874.40	0.0137	0.0044
Venus	31406-08-23 23:45 G	13192100.32	13192100.49	13192100.69	0.0137	0.0075
Venus	31407-04-07 07:26 G	13192326.68	13192326.81	13192326.95	0.0136	0.0105
Venus	31407-11-19 14:38 G	13192553.09	13192553.11	13192553.15	0.0136	0.0135
Mercury	31416-01-06 12:29 G	13195523.01	13195523.02	13195523.06	0.0134	0.0132

Mercury	31416-04-03 18:43 G	13195611.19	13195611.28	13195611.40	0.0134	0.0109
Mercury	31416-07-01 00:57 G	13195699.42	13195699.54	13195699.70	0.0134	0.0086
Mercury	31416-09-27 07:26 G	13195787.66	13195787.81	13195787.98	0.0134	0.0062
Mercury	31416-12-24 13:41 G	13195875.90	13195876.07	13195876.24	0.0134	0.0039
Mercury	31417-03-22 19:55 G	13195964.15	13195964.33	13195964.51	0.0134	0.0017
Mercury	31417-06-19 01:55 G	13196052.40	13196052.58	13196052.76	0.0133	0.0006
Mercury	31417-09-15 07:55 G	13196140.66	13196140.83	13196141.01	0.0133	0.0029
Mercury	31417-12-12 13:41 G	13196228.92	13196229.07	13196229.25	0.0133	0.0052
Mercury	31418-03-10 19:41 G	13196317.18	13196317.32	13196317.48	0.0133	0.0073
Mercury	31418-06-07 01:26 G	13196405.45	13196405.56	13196405.70	0.0133	0.0095
Mercury	31418-09-03 07:26 G	13196493.73	13196493.81	13196493.90	0.0133	0.0117
Mars	31419-01-21 15:07 G	13196633.94	13196634.13	13196634.34	0.0133	0.0103
Moon	31443-02-12 12:43 G	13205421.84	13205422.03	13205422.25	0.0138	0.0087
Earth	31443-02-12 14:09 G	13205421.90	13205422.09	13205422.30	0.0138	0.0084 *
Earth	31444-02-17 05:45 G	13205791.49	13205791.74	13205792.00	0.0138	0.0011
Moon	31444-02-17 06:57 G	13205791.55	13205791.79	13205792.04	0.0138	0.0012 *
Moon	31445-02-20 20:38 G	13206161.14	13206161.36	13206161.60	0.0139	0.0065
Earth	31445-02-20 21:50 G	13206161.19	13206161.41	13206161.64	0.0139	0.0062 *
Moon	31446-02-25 14:24 G	13206531.03	13206531.10	13206531.20	0.0139	0.0131
Earth	31446-02-25 14:24 G	13206531.06	13206531.10	13206531.16	0.0139	0.0137 *
Venus	31446-11-28 18:43 G	13206807.22	13206807.28	13206807.38	0.0140	0.0130
Venus	31447-07-13 04:05 G	13207033.51	13207033.67	13207033.82	0.0140	0.0098
Venus	31448-02-24 12:43 G	13207259.85	13207260.03	13207260.23	0.0140	0.0065
Venus	31448-10-07 22:05 G	13207486.21	13207486.42	13207486.63	0.0141	0.0032
Venus	31449-05-22 07:12 G	13207712.59	13207712.80	13207713.02	0.0141	0.0003
Venus	31450-01-03 16:48 G	13207938.99	13207939.20	13207939.41	0.0141	0.0035
Venus	31450-08-18 02:24 G	13208165.41	13208165.60	13208165.79	0.0142	0.0069
Venus	31451-04-01 11:45 G	13208391.86	13208391.99	13208392.16	0.0142	0.0103
Venus	31451-11-13 22:05 G	13208618.37	13208618.42	13208618.48	0.0142	0.0136
Mercury	31458-09-28 03:36 G	13211128.65	13211128.65	13211128.67	0.0144	0.0144

Mercury	31458-12-25 07:26 G	13211216.75	13211216.81	13211216.89	0.0144	0.0123
Mercury	31459-03-23 11:31 G	13211304.89	13211304.98	13211305.08	0.0144	0.0101
Mercury	31459-06-19 15:36 G	13211393.04	13211393.15	13211393.27	0.0145	0.0079
Mercury	31459-09-15 19:41 G	13211481.19	13211481.32	13211481.45	0.0145	0.0057
Mercury	31459-12-12 23:45 G	13211569.36	13211569.49	13211569.63	0.0145	0.0035
Mercury	31460-03-10 03:50 G	13211657.52	13211657.66	13211657.80	0.0145	0.0013
Mercury	31460-06-06 07:55 G	13211745.69	13211745.83	13211745.97	0.0145	0.0009
Mercury	31460-09-02 12:00 G	13211833.87	13211834.00	13211834.14	0.0145	0.0032
Mercury	31460-11-29 16:19 G	13211922.05	13211922.18	13211922.31	0.0145	0.0054
Mercury	31461-02-25 20:24 G	13212010.24	13212010.35	13212010.47	0.0145	0.0077
Mercury	31461-05-25 00:43 G	13212098.43	13212098.53	13212098.63	0.0145	0.0100
Mercury	31461-08-21 04:48 G	13212186.64	13212186.70	13212186.78	0.0145	0.0123
Mars	31463-03-02 06:29 G	13212744.71	13212744.77	13212744.85	0.0145	0.0141
Earth	31482-08-13 13:41 G	13219848.91	13219849.07	13219849.27	0.0140	0.0099
Moon	31482-08-13 14:53 G	13219848.96	13219849.12	13219849.29	0.0140	0.0102 *
Moon	31483-08-18 06:57 G	13220218.53	13220218.79	13220219.05	0.0140	0.0017
Earth	31483-08-18 06:57 G	13220218.54	13220218.79	13220219.04	0.0140	0.0023 *
Moon	31484-08-21 22:48 G	13220588.23	13220588.45	13220588.69	0.0139	0.0045
Earth	31484-08-21 23:17 G	13220588.24	13220588.47	13220588.71	0.0139	0.0052 *
Earth	31485-08-26 14:24 G	13220958.01	13220958.10	13220958.23	0.0139	0.0125
Moon	31485-08-26 15:07 G	13220958.05	13220958.13	13220958.23	0.0139	0.0130 *
Venus	31486-08-04 06:43 G	13221300.71	13221300.78	13221300.88	0.0139	0.0128
Venus	31487-03-18 15:36 G	13221527.00	13221527.15	13221527.31	0.0138	0.0095
Venus	31487-10-30 23:45 G	13221753.31	13221753.49	13221753.70	0.0138	0.0064
Venus	31488-06-13 08:24 G	13221979.64	13221979.85	13221980.06	0.0138	0.0032
Venus	31489-01-25 16:33 G	13222205.97	13222206.19	13222206.41	0.0137	0.0001
Venus	31489-09-09 00:14 G	13222432.30	13222432.51	13222432.73	0.0137	0.0031
Venus	31490-04-23 07:55 G	13222658.64	13222658.83	13222659.03	0.0137	0.0061
Venus	31490-12-05 15:21 G	13222884.99	13222885.14	13222885.31	0.0137	0.0092
Venus	31491-07-19 22:48 G	13223111.37	13223111.45	13223111.56	0.0136	0.0122

Mercury	31500-01-26 19:26 G	13226224.27	13226224.31	13226224.38	0.0134	0.0127
Mercury	31500-04-25 01:55 G	13226312.47	13226312.58	13226312.70	0.0134	0.0103
Mercury	31500-07-22 08:09 G	13226400.70	13226400.84	13226400.99	0.0134	0.0080
Mercury	31500-10-18 14:24 G	13226488.94	13226489.10	13226489.27	0.0134	0.0057
Mercury	31501-01-14 20:38 G	13226577.19	13226577.36	13226577.54	0.0134	0.0034
Mercury	31501-04-13 02:53 G	13226665.44	13226665.62	13226665.80	0.0134	0.0011
Mercury	31501-07-10 08:53 G	13226753.69	13226753.87	13226754.05	0.0134	0.0012
Mercury	31501-10-06 14:53 G	13226841.95	13226842.12	13226842.30	0.0133	0.0034
Mercury	31502-01-02 20:53 G	13226930.21	13226930.37	13226930.53	0.0133	0.0056
Mercury	31502-04-01 02:38 G	13227018.48	13227018.61	13227018.76	0.0133	0.0079
Mercury	31502-06-28 08:38 G	13227106.75	13227106.86	13227106.98	0.0133	0.0100
Mercury	31502-09-24 14:09 G	13227195.04	13227195.09	13227195.18	0.0133	0.0123
Mars	31503-09-17 10:05 G	13227552.61	13227552.92	13227553.23	0.0133	0.0004
Moon	31527-02-13 21:21 G	13236103.19	13236103.39	13236103.62	0.0138	0.0076
Earth	31527-02-14 00:00 G	13236103.30	13236103.50	13236103.71	0.0138	0.0081 *
Jupiter	31527-04-17 14:24 G	13236165.75	13236166.10	13236166.53	0.0138	0.0086
Earth	31528-02-18 15:36 G	13236472.89	13236473.15	13236473.40	0.0138	0.0008
Moon	31528-02-18 17:31 G	13236472.98	13236473.23	13236473.47	0.0138	0.0010 *
Moon	31529-02-22 06:00 G	13236842.53	13236842.75	13236843.00	0.0139	0.0062
Earth	31529-02-22 07:26 G	13236842.60	13236842.81	13236843.04	0.0139	0.0065 *
Earth	31530-02-27 00:14 G	13237212.51	13237212.51	13237212.51	0.0139	0.0139
Venus	31531-03-13 11:17 G	13237591.86	13237591.97	13237592.12	0.0140	0.0111
Venus	31531-10-25 20:24 G	13237818.17	13237818.35	13237818.53	0.0140	0.0079
Venus	31532-06-08 05:31 G	13238044.52	13238044.73	13238044.93	0.0140	0.0046
Venus	31533-01-20 14:38 G	13238270.90	13238271.11	13238271.33	0.0141	0.0013
Venus	31533-09-04 00:00 G	13238497.29	13238497.50	13238497.72	0.0141	0.0021
Venus	31534-04-18 09:21 G	13238723.70	13238723.89	13238724.10	0.0141	0.0054
Venus	31534-11-30 19:12 G	13238950.13	13238950.30	13238950.47	0.0142	0.0088
Venus	31535-07-15 04:48 G	13239176.60	13239176.70	13239176.82	0.0142	0.0122
Mercury	31542-10-19 10:48 G	13241829.92	13241829.95	13241829.99	0.0144	0.0139

Mercury	31543-01-15 14:38 G	13241918.04	13241918.11	13241918.20	0.0144	0.0118
Mercury	31543-04-13 18:43 G	13242006.18	13242006.28	13242006.39	0.0145	0.0096
Mercury	31543-07-10 22:48 G	13242094.33	13242094.45	13242094.57	0.0145	0.0074
Mercury	31543-10-07 02:53 G	13242182.49	13242182.62	13242182.75	0.0145	0.0052
Mercury	31544-01-03 06:57 G	13242270.65	13242270.79	13242270.92	0.0145	0.0030
Mercury	31544-03-31 11:02 G	13242358.82	13242358.96	13242359.10	0.0145	0.0008
Mercury	31544-06-27 15:07 G	13242446.99	13242447.13	13242447.27	0.0145	0.0014
Mercury	31544-09-23 19:12 G	13242535.17	13242535.30	13242535.44	0.0145	0.0037
Mercury	31544-12-20 23:31 G	13242623.35	13242623.48	13242623.60	0.0145	0.0059
Mercury	31545-03-19 03:36 G	13242711.54	13242711.65	13242711.77	0.0145	0.0082
Mercury	31545-06-15 07:41 G	13242799.73	13242799.82	13242799.93	0.0145	0.0105
Mercury	31545-09-11 12:00 G	13242887.94	13242888.00	13242888.07	0.0145	0.0128
Mars	31545-11-23 03:50 G	13242960.41	13242960.66	13242960.95	0.0145	0.0068
Earth	31566-08-14 23:45 G	13250530.32	13250530.49	13250530.68	0.0140	0.0096
Moon	31566-08-15 00:57 G	13250530.36	13250530.54	13250530.73	0.0140	0.0093 *
Moon	31567-08-19 15:50 G	13250899.91	13250900.16	13250900.42	0.0140	0.0026
Earth	31567-08-19 17:02 G	13250899.96	13250900.21	13250900.46	0.0140	0.0020 *
Earth	31568-08-23 09:07 G	13251269.66	13251269.88	13251270.12	0.0139	0.0055
Moon	31568-08-23 09:36 G	13251269.69	13251269.90	13251270.13	0.0139	0.0062 *
Moon	31569-08-28 00:43 G	13251639.42	13251639.53	13251639.67	0.0139	0.0121
Earth	31569-08-28 00:43 G	13251639.45	13251639.53	13251639.64	0.0139	0.0128 *
Venus	31570-11-16 23:17 G	13252085.35	13252085.47	13252085.62	0.0138	0.0109
Venus	31571-07-01 08:24 G	13252311.67	13252311.85	13252312.03	0.0138	0.0077
Venus	31572-02-12 16:33 G	13252537.99	13252538.19	13252538.40	0.0138	0.0045
Venus	31572-09-26 00:43 G	13252764.31	13252764.53	13252764.75	0.0138	0.0014
Venus	31573-05-10 08:38 G	13252990.65	13252990.86	13252991.08	0.0137	0.0018
Venus	31573-12-22 16:19 G	13253216.99	13253217.18	13253217.40	0.0137	0.0049
Venus	31574-08-06 00:14 G	13253443.34	13253443.51	13253443.69	0.0137	0.0079
Venus	31575-03-20 07:26 G	13253669.69	13253669.81	13253669.95	0.0137	0.0110
Mercury	31584-02-17 02:38 G	13256925.54	13256925.61	13256925.70	0.0134	0.0120

Mercury	31584-05-15 08:53 G	13257013.76	13257013.87	13257014.01	0.0134	0.0097
Mercury	31584-08-11 15:21 G	13257102.00	13257102.14	13257102.30	0.0134	0.0073
Mercury	31584-11-07 21:36 G	13257190.24	13257190.40	13257190.57	0.0134	0.0050
Mercury	31585-02-04 03:50 G	13257278.49	13257278.66	13257278.84	0.0134	0.0027
Mercury	31585-05-03 10:05 G	13257366.74	13257366.92	13257367.10	0.0134	0.0004
Mercury	31585-07-30 16:05 G	13257454.99	13257455.17	13257455.35	0.0134	0.0018
Mercury	31585-10-26 22:05 G	13257543.25	13257543.42	13257543.59	0.0134	0.0041
Mercury	31586-01-23 04:05 G	13257631.52	13257631.67	13257631.83	0.0134	0.0063
Mercury	31586-04-21 10:05 G	13257719.79	13257719.92	13257720.06	0.0133	0.0085
Mercury	31586-07-18 15:50 G	13257808.06	13257808.16	13257808.27	0.0133	0.0107
Mercury	31586-10-14 21:36 G	13257896.37	13257896.40	13257896.45	0.0133	0.0129
Mars	31588-05-12 04:19 G	13258471.49	13258471.68	13258471.92	0.0133	0.0096
Moon	31611-02-14 09:21 G	13266784.69	13266784.89	13266785.11	0.0138	0.0081
Earth	31611-02-14 11:45 G	13266784.80	13266784.99	13266785.22	0.0138	0.0077 *
Earth	31612-02-19 03:36 G	13267154.39	13267154.65	13267154.90	0.0138	0.0004
Moon	31612-02-19 06:00 G	13267154.50	13267154.75	13267155.00	0.0138	0.0003 *
Moon	31613-02-22 16:48 G	13267523.99	13267524.20	13267524.44	0.0139	0.0071
Earth	31613-02-22 19:12 G	13267524.09	13267524.30	13267524.53	0.0139	0.0070 *
Moon	31614-02-27 13:12 G	13267894.04	13267894.05	13267894.09	0.0139	0.0139
Venus	31614-11-10 20:38 G	13268150.27	13268150.36	13268150.47	0.0140	0.0123
Venus	31615-06-25 05:17 G	13268376.57	13268376.72	13268376.90	0.0140	0.0091
Venus	31616-02-06 14:24 G	13268602.91	13268603.10	13268603.31	0.0140	0.0058
Venus	31616-09-19 23:31 G	13268829.27	13268829.48	13268829.70	0.0141	0.0026
Venus	31617-05-04 08:53 G	13269055.65	13269055.87	13269056.09	0.0141	0.0008
Venus	31617-12-16 18:14 G	13269282.06	13269282.26	13269282.48	0.0141	0.0042
Venus	31618-07-31 04:05 G	13269508.49	13269508.67	13269508.85	0.0141	0.0075
Venus	31619-03-14 13:26 G	13269734.94	13269735.06	13269735.21	0.0142	0.0109
Mercury	31626-11-08 18:29 G	13272531.22	13272531.27	13272531.33	0.0144	0.0131
Mercury	31627-02-04 22:33 G	13272619.35	13272619.44	13272619.53	0.0144	0.0110
Mercury	31627-05-04 02:24 G	13272707.50	13272707.60	13272707.72	0.0145	0.0089

Mercury	31627-07-31 06:29 G	13272795.65	13272795.77	13272795.90	0.0145	0.0067
Mercury	31627-10-27 10:33 G	13272883.81	13272883.94	13272884.07	0.0145	0.0045
Mercury	31628-01-23 14:38 G	13272971.97	13272972.11	13272972.25	0.0145	0.0023
Mercury	31628-04-20 18:43 G	13273060.14	13273060.28	13273060.42	0.0145	0.0001
Mercury	31628-07-17 22:48 G	13273148.31	13273148.45	13273148.59	0.0145	0.0022
Mercury	31628-10-14 02:53 G	13273236.49	13273236.62	13273236.76	0.0145	0.0044
Mercury	31629-01-10 06:57 G	13273324.67	13273324.79	13273324.92	0.0145	0.0067
Mercury	31629-04-08 11:17 G	13273412.86	13273412.97	13273413.08	0.0145	0.0090
Mercury	31629-07-05 15:21 G	13273501.06	13273501.14	13273501.24	0.0145	0.0113
Mercury	31629-10-01 19:41 G	13273589.28	13273589.32	13273589.38	0.0145	0.0136
Mars	31630-07-19 19:41 G	13273880.06	13273880.32	13273880.62	0.0145	0.0059
Earth	31650-08-15 11:31 G	13281211.80	13281211.98	13281212.19	0.0140	0.0092
Moon	31650-08-15 13:41 G	13281211.90	13281212.07	13281212.27	0.0140	0.0094 *
Moon	31651-08-20 03:21 G	13281581.38	13281581.64	13281581.90	0.0140	0.0011
Earth	31651-08-20 04:48 G	13281581.45	13281581.70	13281581.96	0.0140	0.0016 *
Earth	31652-08-23 20:53 G	13281951.16	13281951.37	13281951.62	0.0139	0.0059
Moon	31652-08-23 22:19 G	13281951.20	13281951.43	13281951.66	0.0139	0.0052 *
Earth	31653-08-28 12:29 G	13282320.96	13282321.02	13282321.11	0.0139	0.0132
Moon	31653-08-28 11:31 G	13282320.97	13282320.98	13282321.02	0.0139	0.0138 *
Venus	31654-07-17 08:24 G	13282643.76	13282643.85	13282643.97	0.0139	0.0121
Venus	31655-02-28 17:17 G	13282870.05	13282870.22	13282870.39	0.0138	0.0089
Venus	31655-10-13 01:26 G	13283096.37	13283096.56	13283096.77	0.0138	0.0057
Venus	31656-05-26 09:50 G	13283322.70	13283322.91	13283323.13	0.0138	0.0025
Venus	31657-01-07 18:00 G	13283549.03	13283549.25	13283549.47	0.0137	0.0006
Venus	31657-08-22 01:41 G	13283775.37	13283775.57	13283775.79	0.0137	0.0037
Venus	31658-04-05 09:36 G	13284001.71	13284001.90	13284002.09	0.0137	0.0067
Venus	31658-11-17 16:48 G	13284228.06	13284228.20	13284228.36	0.0137	0.0098
Venus	31659-07-02 00:14 G	13284454.45	13284454.51	13284454.60	0.0136	0.0128
Mercury	31668-03-08 10:05 G	13287626.84	13287626.92	13287627.03	0.0134	0.0113
Mercury	31668-06-04 16:19 G	13287715.06	13287715.18	13287715.33	0.0134	0.0090

Mercury	31668-08-31 23:02 G	13287803.30	13287803.46	13287803.61	0.0134	0.0066
Mercury	31668-11-28 05:02 G	13287891.54	13287891.71	13287891.89	0.0134	0.0043
Mercury	31669-02-24 11:17 G	13287979.79	13287979.97	13287980.15	0.0134	0.0020
Mercury	31669-05-23 17:31 G	13288068.05	13288068.23	13288068.41	0.0134	0.0004
Mercury	31669-08-19 23:17 G	13288156.30	13288156.47	13288156.66	0.0134	0.0026
Mercury	31669-11-16 05:31 G	13288244.56	13288244.73	13288244.90	0.0134	0.0047
Mercury	31670-02-12 11:17 G	13288332.83	13288332.97	13288333.13	0.0134	0.0070
Mercury	31670-05-11 17:17 G	13288421.10	13288421.22	13288421.35	0.0133	0.0092
Mercury	31670-08-07 23:02 G	13288509.38	13288509.46	13288509.56	0.0133	0.0114
Mars	31671-02-03 13:12 G	13288688.78	13288689.05	13288689.33	0.0133	0.0065
Moon	31695-02-14 19:26 G	13297466.09	13297466.31	13297466.54	0.0138	0.0067
Earth	31695-02-14 22:48 G	13297466.24	13297466.45	13297466.67	0.0138	0.0073 *
Earth	31696-02-19 14:09 G	13297835.84	13297836.09	13297836.35	0.0139	0.0001
Moon	31696-02-19 17:02 G	13297835.96	13297836.21	13297836.46	0.0139	0.0003 *
Moon	31697-02-23 03:21 G	13298205.43	13298205.64	13298205.88	0.0139	0.0072
Earth	31697-02-23 05:45 G	13298205.55	13298205.74	13298205.98	0.0139	0.0074 *
Venus	31698-07-11 05:31 G	13298708.68	13298708.73	13298708.78	0.0140	0.0135
Venus	31699-02-22 14:09 G	13298934.95	13298935.09	13298935.23	0.0140	0.0103
Venus	31699-10-06 22:48 G	13299161.27	13299161.45	13299161.64	0.0140	0.0071
Venus	31700-05-21 07:55 G	13299387.62	13299387.83	13299388.04	0.0141	0.0039
Venus	31701-01-02 17:17 G	13299614.00	13299614.22	13299614.44	0.0141	0.0006
Venus	31701-08-17 02:38 G	13299840.40	13299840.61	13299840.83	0.0141	0.0028
Venus	31702-03-31 12:00 G	13300066.81	13300067.00	13300067.20	0.0141	0.0062
Venus	31702-11-12 21:50 G	13300293.25	13300293.41	13300293.57	0.0142	0.0095
Venus	31703-06-27 07:26 G	13300519.74	13300519.81	13300519.92	0.0142	0.0129
Mercury	31710-11-30 02:09 G	13303232.53	13303232.59	13303232.67	0.0145	0.0124
Mercury	31711-02-26 06:14 G	13303320.67	13303320.76	13303320.86	0.0145	0.0103
Mercury	31711-05-25 10:19 G	13303408.82	13303408.93	13303409.04	0.0145	0.0081
Mercury	31711-08-21 14:09 G	13303496.97	13303497.09	13303497.22	0.0145	0.0060
Mercury	31711-11-17 18:14 G	13303585.13	13303585.26	13303585.40	0.0145	0.0038

Mercury	31712-02-13 22:19 G	13303673.30	13303673.43	13303673.57	0.0145	0.0016
Mercury	31712-05-12 02:24 G	13303761.46	13303761.60	13303761.74	0.0145	0.0008
Mercury	31712-08-08 06:29 G	13303849.64	13303849.77	13303849.91	0.0145	0.0030
Mercury	31712-11-04 10:48 G	13303937.82	13303937.95	13303938.08	0.0145	0.0052
Mercury	31713-01-31 14:53 G	13304026.00	13304026.12	13304026.24	0.0145	0.0075
Mars	31713-04-12 04:48 G	13304096.67	13304096.70	13304096.77	0.0145	0.0143
Mercury	31713-04-29 18:57 G	13304114.19	13304114.29	13304114.40	0.0145	0.0098
Mercury	31713-07-26 23:02 G	13304202.40	13304202.46	13304202.55	0.0145	0.0121
Mercury	31713-10-23 03:21 G	13304290.64	13304290.64	13304290.67	0.0145	0.0144
Earth	31734-08-17 01:12 G	13311893.37	13311893.55	13311893.77	0.0140	0.0087
Moon	31734-08-17 03:36 G	13311893.47	13311893.65	13311893.86	0.0140	0.0085 *
Jupiter	31734-11-29 05:45 G	13311997.36	13311997.74	13311998.19	0.0140	0.0089
Moon	31735-08-21 16:19 G	13312262.93	13312263.18	13312263.45	0.0140	0.0016
Earth	31735-08-21 18:43 G	13312263.03	13312263.28	13312263.54	0.0140	0.0011 *
Earth	31736-08-25 10:48 G	13312632.73	13312632.95	13312633.18	0.0139	0.0064
Moon	31736-08-25 12:43 G	13312632.82	13312633.03	13312633.24	0.0139	0.0071 *
Moon	31737-08-30 00:57 G	13313002.47	13313002.54	13313002.64	0.0139	0.0130
Earth	31737-08-30 01:55 G	13313002.58	13313002.58	13313002.64	0.0139	0.0138 *
Venus	31738-03-17 18:14 G	13313202.21	13313202.26	13313202.35	0.0139	0.0132
Venus	31738-10-30 03:07 G	13313428.49	13313428.63	13313428.79	0.0138	0.0100
Venus	31739-06-13 11:31 G	13313654.81	13313654.98	13313655.18	0.0138	0.0069
Venus	31740-01-25 19:55 G	13313881.13	13313881.33	13313881.55	0.0138	0.0037
Venus	31740-09-08 04:19 G	13314107.46	13314107.68	13314107.89	0.0138	0.0006
Venus	31741-04-22 12:00 G	13314333.79	13314334.00	13314334.22	0.0137	0.0026
Venus	31741-12-04 19:41 G	13314560.13	13314560.32	13314560.53	0.0137	0.0056
Venus	31742-07-19 03:21 G	13314786.48	13314786.64	13314786.82	0.0137	0.0087
Venus	31743-03-02 10:48 G	13315012.85	13315012.95	13315013.07	0.0137	0.0117
Mercury	31752-01-01 11:31 G	13318239.94	13318239.98	13318240.04	0.0134	0.0128
Mercury	31752-03-29 17:45 G	13318328.14	13318328.24	13318328.37	0.0134	0.0105
Mercury	31752-06-26 00:00 G	13318416.37	13318416.50	13318416.66	0.0134	0.0082

Mercury	31752-09-22 06:43 G	13318504.61	13318504.78	13318504.94	0.0134	0.0058
Mercury	31752-12-19 12:43 G	13318592.86	13318593.03	13318593.21	0.0134	0.0035
Mercury	31753-03-17 18:57 G	13318681.11	13318681.29	13318681.47	0.0134	0.0012
Mercury	31753-06-14 01:12 G	13318769.37	13318769.55	13318769.73	0.0134	0.0011
Mercury	31753-09-10 07:12 G	13318857.62	13318857.80	13318857.97	0.0134	0.0033
Mercury	31753-12-07 12:57 G	13318945.89	13318946.04	13318946.21	0.0133	0.0056
Mercury	31754-03-05 18:57 G	13319034.15	13319034.29	13319034.44	0.0133	0.0078
Mercury	31754-06-02 00:43 G	13319122.43	13319122.53	13319122.66	0.0133	0.0100
Mercury	31754-08-29 06:29 G	13319210.72	13319210.77	13319210.86	0.0133	0.0122
Mars	31755-09-30 12:43 G	13319607.73	13319608.03	13319608.33	0.0133	0.0038
Moon	31778-02-11 22:33 G	13327778.40	13327778.44	13327778.52	0.0138	0.0134
Moon	31779-02-16 06:43 G	13328147.57	13328147.78	13328148.00	0.0138	0.0075
Earth	31779-02-16 10:05 G	13328147.71	13328147.92	13328148.15	0.0138	0.0069 *
Earth	31780-02-21 01:26 G	13328517.31	13328517.56	13328517.82	0.0139	0.0004
Moon	31780-02-21 04:48 G	13328517.45	13328517.70	13328517.95	0.0139	0.0006 *
Moon	31781-02-24 13:55 G	13328886.87	13328887.08	13328887.30	0.0139	0.0077
Earth	31781-02-24 17:02 G	13328887.01	13328887.21	13328887.43	0.0139	0.0078 *
Venus	31782-10-23 22:33 G	13329493.33	13329493.44	13329493.57	0.0140	0.0116
Venus	31783-06-07 07:26 G	13329719.65	13329719.81	13329719.99	0.0140	0.0084
Venus	31784-01-19 16:33 G	13329945.99	13329946.19	13329946.40	0.0140	0.0051
Venus	31784-09-02 01:41 G	13330172.36	13330172.57	13330172.79	0.0141	0.0019
Venus	31785-04-16 11:02 G	13330398.75	13330398.96	13330399.18	0.0141	0.0015
Venus	31785-11-28 20:24 G	13330625.16	13330625.35	13330625.56	0.0141	0.0049
Venus	31786-07-13 06:14 G	13330851.59	13330851.76	13330851.94	0.0141	0.0082
Venus	31787-02-24 15:50 G	13331078.05	13331078.16	13331078.30	0.0142	0.0116
Mercury	31794-09-23 06:00 G	13333845.72	13333845.75	13333845.79	0.0144	0.0139
Mercury	31794-12-20 09:50 G	13333933.84	13333933.91	13333933.99	0.0145	0.0117
Mercury	31795-03-18 13:55 G	13334021.98	13334022.08	13334022.18	0.0145	0.0096
Mercury	31795-06-14 17:45 G	13334110.13	13334110.24	13334110.36	0.0145	0.0074
Mercury	31795-09-10 21:50 G	13334198.29	13334198.41	13334198.54	0.0145	0.0052

Mercury	31795-12-08 01:55 G	13334286.45	13334286.58	13334286.72	0.0145	0.0030
Mercury	31796-03-05 06:00 G	13334374.61	13334374.75	13334374.89	0.0145	0.0008
Mercury	31796-06-01 10:05 G	13334462.78	13334462.92	13334463.06	0.0145	0.0014
Mercury	31796-08-28 14:09 G	13334550.96	13334551.09	13334551.23	0.0145	0.0037
Mercury	31796-11-24 18:29 G	13334639.14	13334639.27	13334639.39	0.0145	0.0059
Mercury	31797-02-20 22:33 G	13334727.33	13334727.44	13334727.56	0.0145	0.0082
Mercury	31797-05-20 02:38 G	13334815.52	13334815.61	13334815.71	0.0145	0.0105
Mercury	31797-08-16 06:57 G	13334903.73	13334903.79	13334903.86	0.0145	0.0128
Mars	31797-12-06 19:12 G	13335016.01	13335016.30	13335016.61	0.0145	0.0018
Earth	31818-08-18 15:21 G	13342574.95	13342575.14	13342575.36	0.0140	0.0081
Moon	31818-08-18 18:29 G	13342575.08	13342575.27	13342575.48	0.0140	0.0081 *
Moon	31819-08-23 06:00 G	13342944.49	13342944.75	13342945.01	0.0140	0.0002
Earth	31819-08-23 08:38 G	13342944.60	13342944.86	13342945.11	0.0140	0.0005 *
Earth	31820-08-27 00:29 G	13343314.31	13343314.52	13343314.75	0.0139	0.0070
Moon	31820-08-27 02:38 G	13343314.40	13343314.61	13343314.84	0.0139	0.0063 *
Venus	31822-06-30 13:12 G	13343986.93	13343987.05	13343987.19	0.0139	0.0111
Venus	31823-02-11 21:50 G	13344213.24	13344213.41	13344213.60	0.0138	0.0079
Venus	31823-09-26 06:00 G	13344439.56	13344439.75	13344439.97	0.0138	0.0048
Venus	31824-05-09 14:24 G	13344665.88	13344666.10	13344666.32	0.0138	0.0016
Venus	31824-12-21 22:19 G	13344892.22	13344892.43	13344892.65	0.0137	0.0015
Venus	31825-08-05 06:14 G	13345118.56	13345118.76	13345118.97	0.0137	0.0045
Venus	31826-03-19 13:41 G	13345344.90	13345345.07	13345345.27	0.0137	0.0076
Venus	31826-10-31 21:21 G	13345571.26	13345571.39	13345571.53	0.0137	0.0106
Venus	31827-06-15 04:48 G	13345797.69	13345797.70	13345797.73	0.0136	0.0136
Mercury	31836-01-22 19:12 G	13348941.23	13348941.30	13348941.39	0.0134	0.0120
Mercury	31836-04-20 01:26 G	13349029.45	13349029.56	13349029.70	0.0134	0.0097
Mercury	31836-07-17 07:55 G	13349117.69	13349117.83	13349117.99	0.0134	0.0073
Mercury	31836-10-13 14:09 G	13349205.93	13349206.09	13349206.26	0.0134	0.0050
Mercury	31837-01-09 20:24 G	13349294.18	13349294.35	13349294.53	0.0134	0.0027
Mercury	31837-04-08 02:38 G	13349382.43	13349382.61	13349382.79	0.0133	0.0004

Mercury	31837-07-05 08:38 G	13349470.68	13349470.86	13349471.04	0.0133	0.0018
Mercury	31837-10-01 14:38 G	13349558.94	13349559.11	13349559.28	0.0133	0.0041
Mercury	31837-12-28 20:38 G	13349647.21	13349647.36	13349647.52	0.0133	0.0063
Mercury	31838-03-27 02:38 G	13349735.48	13349735.61	13349735.75	0.0133	0.0085
Mercury	31838-06-23 08:24 G	13349823.75	13349823.85	13349823.96	0.0133	0.0107
Mars	31838-06-24 19:26 G	13349825.22	13349825.31	13349825.45	0.0133	0.0125
Mercury	31838-09-19 14:09 G	13349912.06	13349912.09	13349912.15	0.0133	0.0129
Moon	31863-02-17 14:53 G	13358828.90	13358829.12	13358829.36	0.0138	0.0061
Earth	31863-02-17 18:43 G	13358829.06	13358829.28	13358829.51	0.0138	0.0067 *
Earth	31864-02-22 09:50 G	13359198.65	13359198.91	13359199.16	0.0139	0.0006
Moon	31864-02-22 13:12 G	13359198.80	13359199.05	13359199.30	0.0139	0.0002 *
Moon	31865-02-25 22:05 G	13359568.22	13359568.42	13359568.64	0.0139	0.0079
Earth	31865-02-26 01:12 G	13359568.36	13359568.55	13359568.78	0.0139	0.0080 *
Venus	31866-06-24 06:00 G	13360051.67	13360051.75	13360051.83	0.0140	0.0129
Venus	31867-02-05 14:38 G	13360277.96	13360278.11	13360278.26	0.0140	0.0097
Venus	31867-09-19 23:17 G	13360504.29	13360504.47	13360504.67	0.0140	0.0065
Venus	31868-05-03 08:24 G	13360730.64	13360730.85	13360731.06	0.0141	0.0033
Venus	31868-12-15 17:45 G	13360957.03	13360957.24	13360957.46	0.0141	0.0001
Venus	31869-07-30 03:07 G	13361183.42	13361183.63	13361183.85	0.0141	0.0034
Venus	31870-03-13 12:29 G	13361409.84	13361410.02	13361410.22	0.0141	0.0068
Venus	31870-10-25 22:19 G	13361636.29	13361636.43	13361636.59	0.0142	0.0101
Venus	31871-06-09 08:09 G	13361862.79	13361862.84	13361862.92	0.0142	0.0135
Mercury	31878-10-14 12:57 G	13364547.00	13364547.04	13364547.09	0.0145	0.0134
Mercury	31879-01-10 17:02 G	13364635.13	13364635.21	13364635.29	0.0145	0.0113
Mercury	31879-04-08 20:53 G	13364723.27	13364723.37	13364723.48	0.0145	0.0092
Mercury	31879-07-06 00:57 G	13364811.42	13364811.54	13364811.66	0.0145	0.0070
Mercury	31879-10-02 05:02 G	13364899.58	13364899.71	13364899.84	0.0145	0.0048
Mercury	31879-12-29 09:07 G	13364987.74	13364987.88	13364988.01	0.0145	0.0026
Mercury	31880-03-26 13:12 G	13365075.91	13365076.05	13365076.18	0.0145	0.0005
Mercury	31880-06-22 17:17 G	13365164.08	13365164.22	13365164.36	0.0145	0.0019

Mercury	31880-09-18 21:21 G	13365252.26	13365252.39	13365252.52	0.0145	0.0041
Mercury	31880-12-16 01:26 G	13365340.44	13365340.56	13365340.69	0.0145	0.0064
Mercury	31881-03-14 05:31 G	13365428.63	13365428.73	13365428.85	0.0145	0.0087
Mercury	31881-06-10 09:50 G	13365516.82	13365516.91	13365517.00	0.0145	0.0110
Mercury	31881-09-06 13:55 G	13365605.04	13365605.08	13365605.14	0.0145	0.0134
Mars	31882-08-03 03:50 G	13365935.48	13365935.66	13365935.89	0.0145	0.0106
Earth	31902-08-20 04:33 G	13373256.49	13373256.69	13373256.92	0.0140	0.0076
Moon	31902-08-20 07:41 G	13373256.62	13373256.82	13373257.04	0.0140	0.0075 *
Moon	31903-08-24 18:43 G	13373626.03	13373626.28	13373626.54	0.0140	0.0004
Earth	31903-08-24 22:05 G	13373626.16	13373626.42	13373626.67	0.0140	0.0002 *
Earth	31904-08-28 13:41 G	13373995.88	13373996.07	13373996.30	0.0139	0.0076
Moon	31904-08-28 16:33 G	13373996.00	13373996.19	13373996.40	0.0139	0.0081 *
Venus	31906-02-28 23:02 G	13374545.37	13374545.46	13374545.58	0.0139	0.0122
Venus	31906-10-13 07:41 G	13374771.67	13374771.82	13374772.00	0.0138	0.0091
Venus	31907-05-27 16:05 G	13374997.99	13374998.17	13374998.38	0.0138	0.0060
Venus	31908-01-09 00:29 G	13375224.31	13375224.52	13375224.74	0.0138	0.0028
Venus	31908-08-22 08:53 G	13375450.65	13375450.87	13375451.09	0.0138	0.0004
Venus	31909-04-05 16:33 G	13375676.98	13375677.19	13375677.41	0.0137	0.0035
Venus	31909-11-18 00:14 G	13375903.33	13375903.51	13375903.71	0.0137	0.0065
Venus	31910-07-02 07:41 G	13376129.69	13376129.82	13376130.00	0.0137	0.0096
Venus	31911-02-13 15:07 G	13376356.07	13376356.13	13376356.24	0.0137	0.0126
Mercury	31920-02-13 02:53 G	13379642.54	13379642.62	13379642.74	0.0134	0.0112
Mercury	31920-05-11 09:36 G	13379730.77	13379730.90	13379731.04	0.0134	0.0088
Mercury	31920-08-07 15:50 G	13379819.00	13379819.16	13379819.32	0.0134	0.0065
Mercury	31920-11-03 22:05 G	13379907.25	13379907.42	13379907.59	0.0134	0.0042
Mercury	31921-01-31 04:05 G	13379995.50	13379995.67	13379995.86	0.0133	0.0020
Mercury	31921-04-29 10:19 G	13380083.75	13380083.93	13380084.11	0.0133	0.0004
Mercury	31921-07-26 16:19 G	13380172.01	13380172.18	13380172.36	0.0133	0.0027
Mercury	31921-10-22 22:33 G	13380260.27	13380260.44	13380260.60	0.0133	0.0049
Mercury	31922-01-19 04:05 G	13380348.54	13380348.67	13380348.84	0.0133	0.0072

Mercury	31922-04-17 10:05 G	13380436.81	13380436.92	13380437.06	0.0133	0.0093
Mercury	31922-07-14 16:19 G	13380525.09	13380525.18	13380525.27	0.0133	0.0115
Mars	31923-02-18 21:50 G	13380744.10	13380744.41	13380744.73	0.0133	0.0020
Earth	31946-02-14 13:55 G	13389141.06	13389141.08	13389141.13	0.0138	0.0136
Moon	31946-02-14 17:17 G	13389141.16	13389141.22	13389141.34	0.0138	0.0129
Moon	31947-02-19 00:43 G	13389510.33	13389510.53	13389510.76	0.0138	0.0071
Earth	31947-02-19 04:19 G	13389510.46	13389510.68	13389510.91	0.0138	0.0064 *
Earth	31948-02-23 19:26 G	13389880.05	13389880.31	13389880.56	0.0139	0.0009
Moon	31948-02-23 23:02 G	13389880.21	13389880.46	13389880.72	0.0139	0.0013 *
Moon	31949-02-27 07:12 G	13390249.60	13390249.80	13390250.02	0.0139	0.0080
Earth	31949-02-27 10:33 G	13390249.75	13390249.94	13390250.16	0.0139	0.0083 *
Venus	31950-10-06 21:50 G	13390836.29	13390836.41	13390836.55	0.0140	0.0111
Venus	31951-05-21 06:29 G	13391062.61	13391062.77	13391062.97	0.0140	0.0079
Venus	31952-01-02 15:50 G	13391288.96	13391289.16	13391289.37	0.0140	0.0046
Venus	31952-08-16 00:57 G	13391515.33	13391515.54	13391515.76	0.0141	0.0014
Venus	31953-03-30 10:05 G	13391741.71	13391741.92	13391742.14	0.0141	0.0020
Venus	31953-11-11 19:26 G	13391968.12	13391968.31	13391968.52	0.0141	0.0053
Venus	31954-06-26 05:02 G	13392194.55	13392194.71	13392194.90	0.0141	0.0087
Venus	31955-02-07 15:07 G	13392421.03	13392421.13	13392421.25	0.0142	0.0120
Mercury	31962-11-04 19:55 G	13395248.28	13395248.33	13395248.39	0.0145	0.0131
Mercury	31963-02-01 00:00 G	13395336.41	13395336.50	13395336.59	0.0145	0.0109
Mercury	31963-04-30 03:50 G	13395424.56	13395424.66	13395424.77	0.0145	0.0088
Mercury	31963-07-27 07:55 G	13395512.71	13395512.83	13395512.95	0.0145	0.0066
Mercury	31963-10-23 12:00 G	13395600.87	13395601.00	13395601.13	0.0145	0.0044
Mercury	31964-01-19 16:05 G	13395689.03	13395689.17	13395689.30	0.0145	0.0022
Mercury	31964-04-16 20:09 G	13395777.20	13395777.34	13395777.48	0.0145	0.0003
Mercury	31964-07-14 00:14 G	13395865.37	13395865.51	13395865.64	0.0145	0.0023
Mercury	31964-10-10 04:19 G	13395953.55	13395953.68	13395953.81	0.0145	0.0046
Mercury	31965-01-06 08:24 G	13396041.73	13396041.85	13396041.98	0.0145	0.0069
Mercury	31965-04-04 12:43 G	13396129.92	13396130.03	13396130.14	0.0145	0.0091

Mars	31965-04-26 05:45 G	13396151.57	13396151.74	13396151.97	0.0145	0.0108
Mercury	31965-07-01 16:48 G	13396218.12	13396218.20	13396218.29	0.0145	0.0114
Mercury	31965-09-27 21:07 G	13396306.34	13396306.38	13396306.42	0.0145	0.0138
Earth	31986-08-20 15:21 G	13403937.94	13403938.14	13403938.37	0.0140	0.0073
Moon	31986-08-20 19:12 G	13403938.09	13403938.30	13403938.52	0.0140	0.0071 *
Moon	31987-08-25 05:45 G	13404307.48	13404307.74	13404307.99	0.0140	0.0007
Earth	31987-08-25 08:53 G	13404307.62	13404307.87	13404308.13	0.0140	0.0004 *
Earth	31988-08-29 00:43 G	13404677.34	13404677.53	13404677.75	0.0140	0.0080
Moon	31988-08-29 03:50 G	13404677.46	13404677.66	13404677.89	0.0140	0.0073 *
Venus	31989-10-29 07:41 G	13405103.77	13405103.82	13405103.88	0.0139	0.0134
Venus	31990-06-12 16:19 G	13405330.05	13405330.18	13405330.34	0.0139	0.0103
Venus	31991-01-25 00:57 G	13405556.37	13405556.54	13405556.74	0.0138	0.0072
Venus	31991-09-08 09:21 G	13405782.69	13405782.89	13405783.11	0.0138	0.0040
Venus	31992-04-21 17:45 G	13406009.02	13406009.24	13406009.46	0.0138	0.0009
Venus	31992-12-04 01:55 G	13406235.36	13406235.58	13406235.80	0.0138	0.0023
Venus	31993-07-18 09:50 G	13406461.71	13406461.91	13406462.12	0.0137	0.0054
Venus	31994-03-01 17:31 G	13406688.07	13406688.23	13406688.41	0.0137	0.0084
Venus	31994-10-14 01:12 G	13406914.44	13406914.55	13406914.67	0.0137	0.0114

33RD MILLENNIUM CE

This is a list of transits visible from Uranus in the 33rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	32003-12-07 04:19 G	13410255.64	13410255.68	13410255.75	0.0134	0.0127		

Mercury	32004-03-04 10:33 G	13410343.84	13410343.94	13410344.07	0.0134	0.0104
Mercury	32004-05-31 17:02 G	13410432.07	13410432.21	13410432.36	0.0134	0.0080
Mercury	32004-08-27 23:31 G	13410520.31	13410520.48	13410520.64	0.0134	0.0057
Mercury	32004-11-24 05:45 G	13410608.56	13410608.74	13410608.91	0.0134	0.0034
Mercury	32005-02-20 11:45 G	13410696.81	13410696.99	13410697.18	0.0133	0.0012
Mercury	32005-05-19 18:00 G	13410785.07	13410785.25	13410785.43	0.0133	0.0012
Mercury	32005-08-16 00:00 G	13410873.33	13410873.50	13410873.68	0.0133	0.0034
Mercury	32005-11-12 06:00 G	13410961.59	13410961.75	13410961.92	0.0133	0.0057
Mercury	32006-02-08 12:00 G	13411049.86	13411050.00	13411050.15	0.0133	0.0079
Mercury	32006-05-07 18:00 G	13411138.14	13411138.25	13411138.37	0.0133	0.0101
Mercury	32006-08-03 23:45 G	13411226.43	13411226.49	13411226.56	0.0133	0.0122
Mars	32007-10-14 21:36 G	13411663.17	13411663.40	13411663.66	0.0133	0.0083
Earth	32030-02-14 23:31 G	13419822.44	13419822.48	13419822.57	0.0137	0.0133
Moon	32031-02-19 10:19 G	13420191.71	13420191.93	13420192.17	0.0138	0.0054
Earth	32031-02-19 14:09 G	13420191.86	13420192.09	13420192.32	0.0138	0.0061 *
Earth	32032-02-24 04:48 G	13420561.44	13420561.70	13420561.95	0.0138	0.0012
Moon	32032-02-24 08:09 G	13420561.58	13420561.84	13420562.10	0.0138	0.0007 *
Moon	32033-02-27 16:19 G	13420931.00	13420931.18	13420931.39	0.0139	0.0087
Earth	32033-02-27 20:24 G	13420931.15	13420931.35	13420931.55	0.0139	0.0085 *
Venus	32034-06-06 05:31 G	13421394.65	13421394.73	13421394.84	0.0139	0.0124
Venus	32035-01-18 14:24 G	13421620.94	13421621.10	13421621.27	0.0140	0.0092
Venus	32035-09-01 23:02 G	13421847.28	13421847.46	13421847.67	0.0140	0.0060
Venus	32036-04-15 08:09 G	13422073.63	13422073.84	13422074.06	0.0140	0.0028
Venus	32036-11-27 17:31 G	13422300.01	13422300.23	13422300.44	0.0141	0.0006
Venus	32037-07-12 02:38 G	13422526.41	13422526.61	13422526.83	0.0141	0.0039
Venus	32038-02-23 12:00 G	13422752.83	13422753.00	13422753.20	0.0141	0.0073
Venus	32038-10-07 21:36 G	13422979.27	13422979.40	13422979.56	0.0141	0.0106
Venus	32039-05-22 07:41 G	13423205.79	13423205.82	13423205.87	0.0142	0.0139
Mercury	32046-11-25 02:53 G	13425949.56	13425949.62	13425949.69	0.0145	0.0127
Mercury	32047-02-21 06:43 G	13426037.70	13426037.78	13426037.88	0.0145	0.0106

Mercury	32047-05-20 10:48 G	13426125.84	13426125.95	13426126.06	0.0145	0.0084
Mercury	32047-08-16 14:53 G	13426213.99	13426214.12	13426214.24	0.0145	0.0062
Mercury	32047-11-12 18:57 G	13426302.15	13426302.29	13426302.42	0.0145	0.0040
Mercury	32048-02-08 22:48 G	13426390.32	13426390.45	13426390.59	0.0145	0.0018
Mercury	32048-05-07 02:53 G	13426478.49	13426478.62	13426478.76	0.0145	0.0006
Mercury	32048-08-03 06:57 G	13426566.66	13426566.79	13426566.93	0.0145	0.0027
Mercury	32048-10-30 11:02 G	13426654.84	13426654.96	13426655.10	0.0145	0.0050
Mercury	32049-01-26 15:21 G	13426743.02	13426743.14	13426743.26	0.0145	0.0072
Mercury	32049-04-24 19:26 G	13426831.21	13426831.31	13426831.42	0.0145	0.0096
Mercury	32049-07-21 23:45 G	13426919.41	13426919.49	13426919.57	0.0145	0.0118
Mercury	32049-10-18 04:05 G	13427007.64	13427007.67	13427007.70	0.0145	0.0142
Mars	32049-12-20 12:14 G	13427070.71	13427071.01	13427071.31	0.0145	0.0014
Moon	32069-08-16 04:05 G	13434249.67	13434249.67	13434249.72	0.0141	0.0141
Earth	32070-08-21 01:55 G	13434619.37	13434619.58	13434619.81	0.0141	0.0069
Moon	32070-08-21 05:17 G	13434619.52	13434619.72	13434619.95	0.0141	0.0070 *
Moon	32071-08-25 15:50 G	13434988.90	13434989.16	13434989.41	0.0140	0.0005
Earth	32071-08-25 19:26 G	13434989.06	13434989.31	13434989.57	0.0140	0.0008 *
Earth	32072-08-29 11:31 G	13435358.79	13435358.98	13435359.20	0.0140	0.0083
Moon	32072-08-29 14:53 G	13435358.94	13435359.12	13435359.33	0.0140	0.0089 *
Venus	32074-02-10 00:57 G	13435888.42	13435888.54	13435888.66	0.0139	0.0115
Venus	32074-09-24 09:36 G	13436114.73	13436114.90	13436115.08	0.0139	0.0084
Venus	32075-05-08 18:00 G	13436341.06	13436341.25	13436341.47	0.0138	0.0053
Venus	32075-12-21 02:38 G	13436567.40	13436567.61	13436567.83	0.0138	0.0021
Venus	32076-08-03 11:02 G	13436793.74	13436793.96	13436794.18	0.0138	0.0011
Venus	32077-03-17 18:57 G	13437020.09	13437020.29	13437020.51	0.0138	0.0042
Venus	32077-10-30 02:53 G	13437246.44	13437246.62	13437246.81	0.0137	0.0072
Venus	32078-06-13 10:33 G	13437472.81	13437472.94	13437473.10	0.0137	0.0103
Venus	32079-01-25 18:00 G	13437699.22	13437699.25	13437699.32	0.0137	0.0133
Mercury	32087-12-27 12:00 G	13440956.93	13440957.00	13440957.09	0.0134	0.0119
Mercury	32088-03-24 18:14 G	13441045.15	13441045.26	13441045.40	0.0134	0.0096

Mercury	32088-06-21 00:43 G	13441133.39	13441133.53	13441133.69	0.0134	0.0072
Mercury	32088-09-17 07:12 G	13441221.63	13441221.80	13441221.97	0.0134	0.0049
Mercury	32088-12-14 13:26 G	13441309.88	13441310.06	13441310.24	0.0134	0.0026
Mercury	32089-03-12 19:26 G	13441398.13	13441398.31	13441398.50	0.0134	0.0005
Mercury	32089-06-09 01:41 G	13441486.39	13441486.57	13441486.75	0.0133	0.0020
Mercury	32089-09-05 07:41 G	13441574.65	13441574.82	13441574.99	0.0133	0.0042
Mercury	32089-12-02 13:41 G	13441662.92	13441663.07	13441663.23	0.0133	0.0065
Mercury	32090-02-28 19:41 G	13441751.19	13441751.32	13441751.46	0.0133	0.0087
Mercury	32090-05-28 01:41 G	13441839.47	13441839.57	13441839.67	0.0133	0.0109
Mars	32090-07-08 05:31 G	13441880.50	13441880.73	13441881.00	0.0133	0.0079
Mercury	32090-08-24 07:26 G	13441927.79	13441927.81	13441927.85	0.0133	0.0131
Earth	32114-02-16 12:43 G	13450503.96	13450504.03	13450504.14	0.0137	0.0128
Moon	32114-02-16 16:19 G	13450504.06	13450504.18	13450504.30	0.0137	0.0120 *
Moon	32115-02-20 23:45 G	13450873.28	13450873.49	13450873.73	0.0138	0.0063
Earth	32115-02-21 02:53 G	13450873.40	13450873.62	13450873.87	0.0138	0.0056 *
Earth	32116-02-25 17:45 G	13451242.99	13451243.24	13451243.50	0.0138	0.0017
Moon	32116-02-25 21:21 G	13451243.14	13451243.39	13451243.65	0.0138	0.0023 *
Moon	32117-03-01 05:45 G	13451612.56	13451612.74	13451612.95	0.0139	0.0088
Earth	32117-03-01 09:21 G	13451612.71	13451612.89	13451613.09	0.0139	0.0091 *
Venus	32118-02-04 15:50 G	13451953.12	13451953.16	13451953.23	0.0139	0.0134
Venus	32118-09-19 00:29 G	13452179.38	13452179.52	13452179.67	0.0140	0.0103
Venus	32119-05-03 09:07 G	13452405.70	13452405.88	13452406.07	0.0140	0.0071
Venus	32119-12-15 18:00 G	13452632.05	13452632.25	13452632.47	0.0140	0.0039
Venus	32120-07-29 03:21 G	13452858.42	13452858.64	13452858.85	0.0140	0.0006
Venus	32121-03-12 12:29 G	13453084.81	13453085.02	13453085.23	0.0141	0.0027
Venus	32121-10-24 21:36 G	13453311.22	13453311.40	13453311.61	0.0141	0.0060
Venus	32122-06-08 07:12 G	13453537.65	13453537.80	13453537.97	0.0141	0.0093
Venus	32123-01-20 17:02 G	13453764.13	13453764.21	13453764.32	0.0142	0.0127
Mercury	32130-09-19 06:43 G	13456562.76	13456562.78	13456562.81	0.0145	0.0141
Mercury	32130-12-16 10:33 G	13456650.87	13456650.94	13456651.02	0.0145	0.0120

Mercury	32131-03-14 14:38 G	13456739.01	13456739.11	13456739.21	0.0145	0.0098
Mercury	32131-06-10 18:29 G	13456827.16	13456827.27	13456827.39	0.0145	0.0076
Mercury	32131-09-06 22:33 G	13456915.31	13456915.44	13456915.57	0.0145	0.0055
Mercury	32131-12-04 02:24 G	13457003.47	13457003.60	13457003.74	0.0145	0.0033
Mercury	32132-03-01 06:29 G	13457091.64	13457091.77	13457091.91	0.0145	0.0011
Mercury	32132-05-28 10:33 G	13457179.81	13457179.94	13457180.08	0.0145	0.0013
Mercury	32132-08-24 14:38 G	13457267.98	13457268.11	13457268.25	0.0145	0.0035
Mercury	32132-11-20 18:57 G	13457356.16	13457356.29	13457356.42	0.0145	0.0057
Mercury	32133-02-16 23:02 G	13457444.35	13457444.46	13457444.58	0.0145	0.0080
Mercury	32133-05-16 03:07 G	13457532.54	13457532.63	13457532.73	0.0145	0.0103
Mercury	32133-08-12 07:26 G	13457620.75	13457620.81	13457620.88	0.0145	0.0126
Mars	32134-08-17 02:53 G	13457990.60	13457990.62	13457990.70	0.0145	0.0144
Earth	32154-08-22 13:41 G	13465300.86	13465301.07	13465301.31	0.0141	0.0065
Moon	32154-08-22 17:31 G	13465301.01	13465301.23	13465301.47	0.0141	0.0063 *
Moon	32155-08-27 03:50 G	13465670.41	13465670.66	13465670.91	0.0140	0.0014
Earth	32155-08-27 07:12 G	13465670.55	13465670.80	13465671.06	0.0140	0.0012 *
Earth	32156-08-30 23:31 G	13466040.29	13466040.48	13466040.68	0.0140	0.0087
Moon	32156-08-31 03:07 G	13466040.43	13466040.63	13466040.84	0.0140	0.0081 *
Venus	32157-10-11 09:36 G	13466446.82	13466446.90	13466446.99	0.0139	0.0127
Venus	32158-05-25 18:29 G	13466673.12	13466673.27	13466673.44	0.0139	0.0096
Venus	32159-01-07 03:21 G	13466899.45	13466899.64	13466899.84	0.0139	0.0064
Venus	32159-08-21 12:00 G	13467125.79	13467126.00	13467126.22	0.0138	0.0032
Venus	32160-04-03 20:24 G	13467352.13	13467352.35	13467352.57	0.0138	0.0001
Venus	32160-11-16 04:33 G	13467578.48	13467578.69	13467578.91	0.0138	0.0030
Venus	32161-06-30 12:29 G	13467804.84	13467805.02	13467805.23	0.0137	0.0062
Venus	32162-02-11 20:38 G	13468031.20	13468031.36	13468031.53	0.0137	0.0091
Venus	32162-09-26 04:05 G	13468257.59	13468257.67	13468257.78	0.0137	0.0122
Mercury	32172-01-17 19:41 G	13471658.23	13471658.32	13471658.44	0.0134	0.0111
Mercury	32172-04-15 02:24 G	13471746.46	13471746.60	13471746.74	0.0134	0.0087
Mercury	32172-07-12 08:38 G	13471834.70	13471834.86	13471835.02	0.0134	0.0064

Mercury	32172-10-08 14:53 G	13471922.95	13471923.12	13471923.30	0.0134	0.0041
Mercury	32173-01-04 21:07 G	13472011.20	13472011.38	13472011.56	0.0134	0.0018
Mercury	32173-04-03 03:21 G	13472099.46	13472099.64	13472099.82	0.0134	0.0005
Mercury	32173-06-30 09:21 G	13472187.72	13472187.89	13472188.07	0.0134	0.0029
Mercury	32173-09-26 15:36 G	13472275.98	13472276.15	13472276.32	0.0133	0.0051
Mercury	32173-12-23 21:21 G	13472364.25	13472364.39	13472364.55	0.0133	0.0074
Mercury	32174-03-22 03:21 G	13472452.53	13472452.64	13472452.78	0.0133	0.0096
Mercury	32174-06-18 09:21 G	13472540.82	13472540.89	13472540.98	0.0133	0.0117
Mars	32175-03-04 08:09 G	13472799.53	13472799.84	13472800.15	0.0133	0.0028
Earth	32198-02-17 01:12 G	13481185.45	13481185.55	13481185.68	0.0137	0.0123
Moon	32198-02-17 04:05 G	13481185.59	13481185.67	13481185.77	0.0137	0.0129 *
Moon	32199-02-21 12:43 G	13481554.79	13481555.03	13481555.27	0.0138	0.0043
Earth	32199-02-21 15:36 G	13481554.92	13481555.15	13481555.39	0.0138	0.0051 *
Earth	32200-02-26 06:14 G	13481924.51	13481924.76	13481925.02	0.0138	0.0023
Moon	32200-02-26 09:21 G	13481924.63	13481924.89	13481925.15	0.0138	0.0016 *
Moon	32201-03-02 18:14 G	13482294.10	13482294.26	13482294.46	0.0139	0.0099
Earth	32201-03-02 22:05 G	13482294.24	13482294.42	13482294.61	0.0139	0.0096 *
Venus	32202-05-20 10:05 G	13482737.81	13482737.92	13482738.05	0.0139	0.0114
Venus	32203-01-01 18:57 G	13482964.12	13482964.29	13482964.47	0.0140	0.0083
Venus	32203-08-16 03:36 G	13483190.46	13483190.65	13483190.87	0.0140	0.0051
Venus	32204-03-29 12:43 G	13483416.82	13483417.03	13483417.25	0.0140	0.0019
Venus	32204-11-10 21:50 G	13483643.20	13483643.41	13483643.63	0.0141	0.0015
Venus	32205-06-25 06:57 G	13483869.60	13483869.79	13483870.01	0.0141	0.0048
Venus	32206-02-06 16:48 G	13484096.03	13484096.20	13484096.38	0.0141	0.0081
Venus	32206-09-21 02:24 G	13484322.48	13484322.60	13484322.73	0.0141	0.0114
Mercury	32214-10-10 14:24 G	13487264.06	13487264.10	13487264.16	0.0145	0.0133
Mercury	32215-01-06 18:29 G	13487352.19	13487352.27	13487352.36	0.0145	0.0112
Mercury	32215-04-04 22:19 G	13487440.33	13487440.43	13487440.54	0.0145	0.0090
Mercury	32215-07-02 02:09 G	13487528.48	13487528.59	13487528.72	0.0145	0.0069
Mercury	32215-09-28 06:14 G	13487616.64	13487616.76	13487616.90	0.0145	0.0047

Mercury	32215-12-25 10:19 G	13487704.80	13487704.93	13487705.07	0.0145	0.0025
Mercury	32216-03-22 14:24 G	13487792.96	13487793.10	13487793.24	0.0145	0.0003
Mercury	32216-06-18 18:29 G	13487881.14	13487881.27	13487881.41	0.0145	0.0021
Mercury	32216-09-14 22:33 G	13487969.31	13487969.44	13487969.58	0.0145	0.0043
Mercury	32216-12-12 02:38 G	13488057.49	13488057.61	13488057.74	0.0145	0.0066
Mercury	32217-03-10 06:57 G	13488145.68	13488145.79	13488145.90	0.0145	0.0089
Mars	32217-05-10 15:07 G	13488206.87	13488207.13	13488207.41	0.0145	0.0063
Mercury	32217-06-06 11:17 G	13488233.88	13488233.97	13488234.05	0.0145	0.0112
Mercury	32217-09-02 15:07 G	13488322.09	13488322.13	13488322.19	0.0145	0.0135
Moon	32237-08-19 06:43 G	13495612.68	13495612.78	13495612.88	0.0141	0.0130
Earth	32237-08-19 09:36 G	13495612.85	13495612.90	13495612.98	0.0141	0.0136 *
Earth	32238-08-24 03:36 G	13495982.43	13495982.65	13495982.89	0.0141	0.0059
Moon	32238-08-24 07:26 G	13495982.58	13495982.81	13495983.04	0.0141	0.0060 *
Moon	32239-08-28 17:31 G	13496351.98	13496352.23	13496352.48	0.0140	0.0016
Earth	32239-08-28 21:07 G	13496352.13	13496352.38	13496352.64	0.0140	0.0018 *
Earth	32240-09-01 13:26 G	13496721.88	13496722.06	13496722.26	0.0140	0.0093
Moon	32240-09-01 16:48 G	13496722.03	13496722.20	13496722.39	0.0140	0.0098 *
Venus	32241-06-11 19:41 G	13497005.32	13497005.32	13497005.36	0.0139	0.0139
Venus	32242-01-24 04:33 G	13497231.57	13497231.69	13497231.85	0.0139	0.0107
Venus	32242-09-07 13:41 G	13497457.90	13497458.07	13497458.26	0.0139	0.0075
Venus	32243-04-21 22:19 G	13497684.23	13497684.43	13497684.65	0.0138	0.0043
Venus	32243-12-04 06:57 G	13497910.57	13497910.79	13497911.01	0.0138	0.0012
Venus	32244-07-17 15:21 G	13498136.93	13498137.14	13498137.36	0.0138	0.0020
Venus	32245-02-28 23:31 G	13498363.28	13498363.48	13498363.69	0.0138	0.0051
Venus	32245-10-13 07:26 G	13498589.64	13498589.81	13498589.99	0.0137	0.0081
Venus	32246-05-27 15:21 G	13498816.02	13498816.14	13498816.27	0.0137	0.0111
Mercury	32255-11-11 21:50 G	13502271.35	13502271.41	13502271.48	0.0134	0.0124
Mercury	32256-02-08 04:05 G	13502359.56	13502359.67	13502359.80	0.0134	0.0101
Mercury	32256-05-06 10:33 G	13502447.80	13502447.94	13502448.09	0.0134	0.0077
Mercury	32256-08-02 16:48 G	13502536.04	13502536.20	13502536.37	0.0134	0.0054

Mercury	32256-10-29 23:17 G	13502624.29	13502624.47	13502624.64	0.0134	0.0031
Mercury	32257-01-26 05:31 G	13502712.55	13502712.73	13502712.91	0.0134	0.0008
Mercury	32257-04-24 11:31 G	13502800.80	13502800.98	13502801.16	0.0134	0.0016
Mercury	32257-07-21 17:31 G	13502889.07	13502889.23	13502889.41	0.0133	0.0039
Mercury	32257-10-17 23:45 G	13502977.33	13502977.49	13502977.65	0.0133	0.0061
Mercury	32258-01-14 05:45 G	13503065.61	13503065.74	13503065.88	0.0133	0.0083
Mercury	32258-04-12 11:31 G	13503153.89	13503153.98	13503154.10	0.0133	0.0105
Mercury	32258-07-09 17:17 G	13503242.19	13503242.22	13503242.29	0.0133	0.0128
Earth	32282-02-18 15:21 G	13511867.02	13511867.14	13511867.29	0.0137	0.0117
Moon	32282-02-18 17:45 G	13511867.09	13511867.24	13511867.41	0.0137	0.0110 *
Moon	32283-02-23 03:07 G	13512236.41	13512236.63	13512236.87	0.0138	0.0052
Earth	32283-02-23 05:31 G	13512236.50	13512236.73	13512236.98	0.0138	0.0045 *
Earth	32284-02-27 20:38 G	13512606.11	13512606.36	13512606.61	0.0138	0.0028
Moon	32284-02-27 23:31 G	13512606.24	13512606.48	13512606.74	0.0138	0.0035 *
Moon	32285-03-03 09:21 G	13512975.73	13512975.89	13512976.08	0.0139	0.0099
Earth	32285-03-03 12:00 G	13512975.85	13512976.00	13512976.19	0.0139	0.0103 *
Venus	32286-01-17 21:07 G	13513296.30	13513296.38	13513296.49	0.0139	0.0124
Venus	32286-09-01 06:00 G	13513522.59	13513522.75	13513522.91	0.0139	0.0093
Venus	32287-04-15 14:38 G	13513748.92	13513749.11	13513749.31	0.0140	0.0061
Venus	32287-11-27 23:31 G	13513975.27	13513975.48	13513975.70	0.0140	0.0029
Venus	32288-07-11 08:38 G	13514201.64	13514201.86	13514202.08	0.0140	0.0004
Venus	32289-02-22 17:45 G	13514428.04	13514428.24	13514428.46	0.0141	0.0037
Venus	32289-10-07 03:07 G	13514654.45	13514654.63	13514654.83	0.0141	0.0069
Venus	32290-05-21 12:29 G	13514880.89	13514881.02	13514881.18	0.0141	0.0103
Venus	32291-01-02 22:19 G	13515107.39	13515107.43	13515107.51	0.0142	0.0136
Mercury	32298-10-30 22:33 G	13517965.38	13517965.44	13517965.52	0.0145	0.0124
Mercury	32299-01-27 02:38 G	13518053.52	13518053.61	13518053.71	0.0145	0.0102
Mercury	32299-04-25 06:29 G	13518141.66	13518141.77	13518141.89	0.0145	0.0081
Mercury	32299-07-22 10:33 G	13518229.82	13518229.94	13518230.07	0.0145	0.0059
Mercury	32299-10-18 14:38 G	13518317.98	13518318.11	13518318.24	0.0145	0.0036

Mercury	32300-01-14 18:43 G	13518406.14	13518406.28	13518406.42	0.0145	0.0014
Mercury	32300-04-12 22:48 G	13518494.31	13518494.45	13518494.59	0.0145	0.0008
Mercury	32300-07-10 02:53 G	13518582.48	13518582.62	13518582.75	0.0145	0.0031
Mercury	32300-10-06 06:57 G	13518670.66	13518670.79	13518670.92	0.0145	0.0053
Mercury	32301-01-02 11:02 G	13518758.85	13518758.96	13518759.08	0.0145	0.0076
Mercury	32301-03-31 15:07 G	13518847.04	13518847.13	13518847.24	0.0145	0.0099
Mercury	32301-06-27 19:26 G	13518935.24	13518935.31	13518935.39	0.0145	0.0122
Mars	32302-01-05 10:48 G	13519126.69	13519126.95	13519127.21	0.0145	0.0071
Moon	32321-08-20 21:36 G	13526294.35	13526294.40	13526294.49	0.0141	0.0135
Earth	32321-08-21 00:57 G	13526294.45	13526294.54	13526294.65	0.0141	0.0129 *
Earth	32322-08-25 19:12 G	13526664.06	13526664.30	13526664.53	0.0141	0.0052
Moon	32322-08-25 22:33 G	13526664.20	13526664.44	13526664.68	0.0141	0.0049 *
Moon	32323-08-30 09:07 G	13527033.64	13527033.88	13527034.13	0.0140	0.0025
Earth	32323-08-30 12:29 G	13527033.77	13527034.02	13527034.27	0.0140	0.0024 *
Earth	32324-09-03 04:33 G	13527403.52	13527403.69	13527403.87	0.0140	0.0100
Moon	32324-09-03 07:55 G	13527403.67	13527403.83	13527404.04	0.0140	0.0095 *
Venus	32325-09-24 15:36 G	13527790.05	13527790.15	13527790.28	0.0139	0.0117
Venus	32326-05-09 00:43 G	13528016.36	13528016.53	13528016.71	0.0139	0.0085
Venus	32326-12-21 09:21 G	13528242.70	13528242.89	13528243.10	0.0139	0.0054
Venus	32327-08-04 18:14 G	13528469.05	13528469.26	13528469.48	0.0138	0.0022
Venus	32328-03-18 02:38 G	13528695.40	13528695.61	13528695.83	0.0138	0.0010
Venus	32328-10-30 10:48 G	13528921.75	13528921.95	13528922.17	0.0138	0.0041
Venus	32329-06-13 18:57 G	13529148.11	13529148.29	13529148.48	0.0137	0.0071
Venus	32330-01-26 02:53 G	13529374.48	13529374.62	13529374.77	0.0137	0.0102
Venus	32330-09-09 10:48 G	13529600.89	13529600.95	13529601.01	0.0137	0.0131
Mercury	32339-12-03 06:00 G	13532972.67	13532972.75	13532972.85	0.0134	0.0114
Mercury	32340-02-29 12:14 G	13533060.89	13533061.01	13533061.16	0.0134	0.0091
Mercury	32340-05-27 18:57 G	13533149.13	13533149.29	13533149.45	0.0134	0.0067
Mercury	32340-08-24 01:12 G	13533237.38	13533237.55	13533237.73	0.0134	0.0044
Mercury	32340-11-20 07:26 G	13533325.63	13533325.81	13533325.99	0.0134	0.0021

Mercury	32341-02-16 13:41 G	13533413.89	13533414.07	13533414.25	0.0133	0.0003
Mercury	32341-05-15 19:55 G	13533502.15	13533502.33	13533502.51	0.0133	0.0025
Mercury	32341-08-12 01:55 G	13533590.42	13533590.58	13533590.75	0.0133	0.0048
Mercury	32341-11-08 07:55 G	13533678.69	13533678.83	13533678.99	0.0133	0.0071
Mercury	32342-02-04 14:09 G	13533766.96	13533767.09	13533767.22	0.0133	0.0093
Mercury	32342-05-03 19:41 G	13533855.25	13533855.32	13533855.43	0.0133	0.0116
Mars	32342-07-23 21:50 G	13533936.11	13533936.41	13533936.73	0.0133	0.0027
Earth	32366-02-20 03:21 G	13542548.50	13542548.64	13542548.79	0.0137	0.0112
Moon	32366-02-20 04:48 G	13542548.59	13542548.70	13542548.85	0.0137	0.0118 *
Moon	32367-02-24 15:36 G	13542917.91	13542918.15	13542918.39	0.0138	0.0033
Earth	32367-02-24 17:45 G	13542917.99	13542918.24	13542918.48	0.0138	0.0040 *
Earth	32368-02-29 08:24 G	13543287.61	13543287.85	13543288.11	0.0138	0.0033
Moon	32368-02-29 10:33 G	13543287.69	13543287.94	13543288.20	0.0138	0.0027 *
Moon	32369-03-04 21:07 G	13543657.25	13543657.38	13543657.55	0.0139	0.0111
Earth	32369-03-05 00:14 G	13543657.36	13543657.51	13543657.68	0.0139	0.0107 *
Venus	32369-09-18 06:14 G	13543854.74	13543854.76	13543854.83	0.0139	0.0136
Venus	32370-05-02 15:07 G	13544080.99	13544081.13	13544081.28	0.0139	0.0105
Venus	32370-12-14 23:31 G	13544307.31	13544307.48	13544307.68	0.0140	0.0074
Venus	32371-07-29 08:38 G	13544533.66	13544533.86	13544534.07	0.0140	0.0041
Venus	32372-03-11 17:31 G	13544760.02	13544760.23	13544760.45	0.0140	0.0009
Venus	32372-10-24 02:38 G	13544986.40	13544986.61	13544986.82	0.0141	0.0024
Venus	32373-06-07 11:31 G	13545212.80	13545212.98	13545213.19	0.0141	0.0057
Venus	32374-01-19 21:21 G	13545439.23	13545439.39	13545439.56	0.0141	0.0089
Venus	32374-09-03 06:43 G	13545665.69	13545665.78	13545665.90	0.0141	0.0122
Mercury	32382-08-25 02:09 G	13548578.56	13548578.59	13548578.64	0.0144	0.0138
Mercury	32382-11-21 06:14 G	13548666.69	13548666.76	13548666.84	0.0145	0.0117
Mercury	32383-02-17 10:19 G	13548754.83	13548754.93	13548755.03	0.0145	0.0095
Mercury	32383-05-16 14:09 G	13548842.98	13548843.09	13548843.21	0.0145	0.0073
Mercury	32383-08-12 18:14 G	13548931.13	13548931.26	13548931.39	0.0145	0.0051
Mercury	32383-11-08 22:05 G	13549019.29	13549019.42	13549019.56	0.0145	0.0030

Mercury	32384-02-05 02:24 G	13549107.46	13549107.60	13549107.73	0.0145	0.0008
Mercury	32384-05-03 06:29 G	13549195.63	13549195.77	13549195.90	0.0145	0.0016
Mercury	32384-07-30 10:33 G	13549283.80	13549283.94	13549284.07	0.0145	0.0038
Mars	32384-09-27 22:33 G	13549343.37	13549343.44	13549343.56	0.0145	0.0137
Mercury	32384-10-26 14:24 G	13549371.98	13549372.10	13549372.24	0.0145	0.0061
Mercury	32385-01-22 18:43 G	13549460.17	13549460.28	13549460.40	0.0145	0.0084
Mercury	32385-04-20 23:02 G	13549548.36	13549548.46	13549548.55	0.0145	0.0106
Mercury	32385-07-18 03:07 G	13549636.57	13549636.63	13549636.69	0.0145	0.0130
Moon	32405-08-21 13:26 G	13556975.93	13556976.06	13556976.21	0.0141	0.0116
Earth	32405-08-21 16:19 G	13556976.06	13556976.18	13556976.30	0.0141	0.0123 *
Earth	32406-08-26 10:19 G	13557345.69	13557345.93	13557346.17	0.0141	0.0045
Moon	32406-08-26 13:12 G	13557345.82	13557346.05	13557346.30	0.0141	0.0048 *
Moon	32407-08-31 00:14 G	13557715.26	13557715.51	13557715.75	0.0140	0.0031
Earth	32407-08-31 03:36 G	13557715.40	13557715.65	13557715.90	0.0140	0.0031 *
Earth	32408-09-03 19:41 G	13558085.17	13558085.32	13558085.50	0.0140	0.0107
Moon	32408-09-03 23:02 G	13558085.32	13558085.46	13558085.63	0.0140	0.0111 *
Venus	32409-05-25 02:24 G	13558348.54	13558348.60	13558348.71	0.0139	0.0128
Venus	32410-01-06 11:45 G	13558574.84	13558574.99	13558575.16	0.0139	0.0095
Venus	32410-08-20 20:38 G	13558801.18	13558801.36	13558801.57	0.0139	0.0064
Venus	32411-04-04 05:17 G	13559027.52	13559027.72	13559027.95	0.0138	0.0033
Venus	32411-11-16 14:09 G	13559253.87	13559254.09	13559254.31	0.0138	0.0001
Venus	32412-06-29 22:33 G	13559480.23	13559480.44	13559480.65	0.0138	0.0031
Venus	32413-02-11 06:29 G	13559706.59	13559706.77	13559706.98	0.0138	0.0062
Venus	32413-09-25 14:38 G	13559932.95	13559933.11	13559933.28	0.0137	0.0092
Venus	32414-05-09 22:05 G	13560159.34	13560159.42	13560159.54	0.0137	0.0122
Mercury	32423-09-26 08:09 G	13563585.79	13563585.84	13563585.90	0.0134	0.0127
Mercury	32423-12-23 14:24 G	13563674.00	13563674.10	13563674.23	0.0134	0.0104
Mercury	32424-03-20 20:53 G	13563762.23	13563762.37	13563762.52	0.0134	0.0080
Mercury	32424-06-17 03:07 G	13563850.48	13563850.63	13563850.81	0.0134	0.0057
Mercury	32424-09-13 09:36 G	13563938.73	13563938.90	13563939.08	0.0133	0.0033

Mercury	32424-12-10 15:50 G	13564026.98	13564027.16	13564027.35	0.0133	0.0010
Mercury	32425-03-08 22:05 G	13564115.24	13564115.42	13564115.60	0.0133	0.0013
Mercury	32425-06-05 04:19 G	13564203.51	13564203.68	13564203.85	0.0133	0.0036
Mercury	32425-09-01 10:19 G	13564291.77	13564291.93	13564292.10	0.0133	0.0058
Mercury	32425-11-28 16:33 G	13564380.05	13564380.19	13564380.33	0.0133	0.0081
Mercury	32426-02-24 22:05 G	13564468.33	13564468.42	13564468.55	0.0133	0.0104
Mercury	32426-05-24 04:05 G	13564556.63	13564556.67	13564556.74	0.0133	0.0125
Mars	32427-03-19 03:50 G	13564855.44	13564855.66	13564855.92	0.0133	0.0084
Earth	32450-02-20 15:21 G	13573230.00	13573230.14	13573230.31	0.0137	0.0108
Moon	32450-02-20 16:19 G	13573230.02	13573230.18	13573230.38	0.0137	0.0102 *
Moon	32451-02-25 04:19 G	13573599.45	13573599.68	13573599.92	0.0138	0.0042
Earth	32451-02-25 05:31 G	13573599.49	13573599.73	13573599.98	0.0138	0.0036 *
Earth	32452-02-29 20:38 G	13573969.11	13573969.36	13573969.61	0.0138	0.0037
Moon	32452-02-29 22:19 G	13573969.20	13573969.43	13573969.70	0.0138	0.0045 *
Moon	32453-03-05 10:19 G	13574338.79	13574338.93	13574339.10	0.0139	0.0107
Earth	32453-03-05 12:00 G	13574338.87	13574339.00	13574339.17	0.0139	0.0112 *
Venus	32453-12-31 00:14 G	13574639.41	13574639.51	13574639.65	0.0139	0.0117
Venus	32454-08-14 09:07 G	13574865.71	13574865.88	13574866.05	0.0139	0.0085
Venus	32455-03-28 17:45 G	13575092.04	13575092.24	13575092.44	0.0140	0.0053
Venus	32455-11-10 02:24 G	13575318.39	13575318.60	13575318.82	0.0140	0.0021
Venus	32456-06-23 11:17 G	13575544.76	13575544.97	13575545.19	0.0140	0.0012
Venus	32457-02-04 20:24 G	13575771.15	13575771.35	13575771.57	0.0141	0.0044
Venus	32457-09-19 05:45 G	13575997.57	13575997.74	13575997.93	0.0141	0.0076
Venus	32458-05-03 15:07 G	13576224.00	13576224.13	13576224.28	0.0141	0.0109
Mercury	32466-09-14 09:50 G	13579279.86	13579279.91	13579279.97	0.0145	0.0132
Mercury	32466-12-11 13:55 G	13579367.99	13579368.08	13579368.17	0.0145	0.0110
Mercury	32467-03-09 17:45 G	13579456.14	13579456.24	13579456.35	0.0145	0.0088
Mercury	32467-06-05 21:36 G	13579544.29	13579544.40	13579544.53	0.0145	0.0067
Mercury	32467-09-02 01:41 G	13579632.45	13579632.57	13579632.71	0.0145	0.0045
Mercury	32467-11-29 05:45 G	13579720.61	13579720.74	13579720.88	0.0145	0.0023

Mercury	32468-02-25 09:50 G	13579808.77	13579808.91	13579809.05	0.0145	0.0001
Mercury	32468-05-23 13:55 G	13579896.94	13579897.08	13579897.22	0.0145	0.0022
Mercury	32468-08-19 18:00 G	13579985.12	13579985.25	13579985.38	0.0145	0.0045
Mercury	32468-11-15 22:05 G	13580073.30	13580073.42	13580073.55	0.0145	0.0068
Mercury	32469-02-12 02:24 G	13580161.49	13580161.60	13580161.71	0.0145	0.0091
Mercury	32469-05-11 06:29 G	13580249.69	13580249.77	13580249.86	0.0145	0.0114
Mars	32469-05-24 09:50 G	13580262.61	13580262.91	13580263.21	0.0145	0.0010
Mercury	32469-08-07 10:33 G	13580337.91	13580337.94	13580337.99	0.0145	0.0137
Moon	32489-08-22 03:07 G	13587657.53	13587657.63	13587657.77	0.0141	0.0124
Earth	32489-08-22 05:31 G	13587657.61	13587657.73	13587657.89	0.0141	0.0118 *
Earth	32490-08-27 00:00 G	13588027.26	13588027.50	13588027.75	0.0141	0.0040
Moon	32490-08-27 02:53 G	13588027.37	13588027.62	13588027.88	0.0141	0.0036 *
Moon	32491-08-31 14:53 G	13588396.88	13588397.12	13588397.36	0.0140	0.0037
Earth	32491-08-31 17:31 G	13588396.99	13588397.23	13588397.48	0.0140	0.0038 *
Earth	32492-09-04 09:50 G	13588766.78	13588766.91	13588767.07	0.0140	0.0113
Moon	32492-09-04 13:26 G	13588766.91	13588767.06	13588767.23	0.0140	0.0108 *
Venus	32493-01-22 12:57 G	13588907.02	13588907.04	13588907.08	0.0140	0.0138
Venus	32493-09-05 22:05 G	13589133.29	13589133.42	13589133.57	0.0139	0.0106
Venus	32494-04-20 07:12 G	13589359.62	13589359.80	13589359.99	0.0139	0.0074
Venus	32494-12-02 16:05 G	13589585.97	13589586.17	13589586.38	0.0139	0.0043
Venus	32495-07-17 00:57 G	13589812.32	13589812.54	13589812.76	0.0138	0.0011
Venus	32496-02-28 09:21 G	13590038.68	13590038.89	13590039.11	0.0138	0.0020
Venus	32496-10-11 17:31 G	13590265.03	13590265.23	13590265.44	0.0138	0.0051
Venus	32497-05-26 01:41 G	13590491.40	13590491.57	13590491.75	0.0137	0.0082
Venus	32498-01-07 09:36 G	13590717.78	13590717.90	13590718.03	0.0137	0.0112
Mercury	32507-10-17 16:19 G	13594287.10	13594287.18	13594287.28	0.0134	0.0117
Mercury	32508-01-13 22:48 G	13594375.33	13594375.45	13594375.59	0.0134	0.0093
Mercury	32508-04-11 05:17 G	13594463.57	13594463.72	13594463.88	0.0134	0.0069
Mercury	32508-07-08 11:45 G	13594551.82	13594551.99	13594552.16	0.0134	0.0046
Mercury	32508-10-04 18:00 G	13594640.07	13594640.25	13594640.43	0.0133	0.0023

Mercury	32509-01-01 00:14 G	13594728.33	13594728.51	13594728.69	0.0133	0.0002
Mercury	32509-03-30 06:29 G	13594816.59	13594816.77	13594816.95	0.0133	0.0023
Mercury	32509-06-26 12:29 G	13594904.86	13594905.02	13594905.20	0.0133	0.0046
Mercury	32509-09-22 18:43 G	13594993.13	13594993.28	13594993.43	0.0133	0.0068
Mars	32509-12-11 11:02 G	13595072.71	13595072.96	13595073.22	0.0133	0.0080
Mercury	32509-12-20 00:43 G	13595081.40	13595081.53	13595081.66	0.0133	0.0091
Mercury	32510-03-18 06:29 G	13595169.69	13595169.77	13595169.88	0.0133	0.0113
Earth	32534-02-22 02:09 G	13603911.44	13603911.59	13603911.78	0.0137	0.0103
Moon	32534-02-22 02:53 G	13603911.46	13603911.62	13603911.79	0.0137	0.0107 *
Moon	32535-02-26 15:36 G	13604280.91	13604281.15	13604281.40	0.0138	0.0025
Earth	32535-02-26 16:33 G	13604280.94	13604281.19	13604281.44	0.0138	0.0032 *
Earth	32536-03-02 07:26 G	13604650.56	13604650.81	13604651.05	0.0138	0.0041
Moon	32536-03-02 07:55 G	13604650.59	13604650.83	13604651.10	0.0138	0.0035 *
Moon	32537-03-06 20:53 G	13605020.26	13605020.37	13605020.50	0.0139	0.0120
Earth	32537-03-06 22:48 G	13605020.31	13605020.45	13605020.59	0.0139	0.0115 *
Venus	32537-08-31 08:53 G	13605197.80	13605197.87	13605197.96	0.0139	0.0128
Venus	32538-04-14 17:17 G	13605424.07	13605424.22	13605424.38	0.0139	0.0097
Venus	32538-11-27 01:26 G	13605650.38	13605650.56	13605650.77	0.0139	0.0067
Venus	32539-07-11 10:19 G	13605876.72	13605876.93	13605877.14	0.0140	0.0035
Venus	32540-02-22 19:12 G	13606103.08	13606103.30	13606103.51	0.0140	0.0003
Venus	32540-10-06 04:05 G	13606329.45	13606329.67	13606329.88	0.0140	0.0030
Venus	32541-05-20 13:12 G	13606555.85	13606556.05	13606556.24	0.0141	0.0062
Venus	32542-01-01 22:05 G	13606782.28	13606782.42	13606782.60	0.0141	0.0095
Venus	32542-08-16 07:41 G	13607008.74	13607008.82	13607008.92	0.0141	0.0127
Mercury	32550-10-05 16:48 G	13609981.15	13609981.20	13609981.27	0.0145	0.0128
Mercury	32551-01-01 20:38 G	13610069.28	13610069.36	13610069.46	0.0145	0.0107
Mercury	32551-03-31 00:43 G	13610157.42	13610157.53	13610157.64	0.0145	0.0085
Mercury	32551-06-27 04:33 G	13610245.57	13610245.69	13610245.82	0.0145	0.0063
Mercury	32551-09-23 08:38 G	13610333.73	13610333.86	13610334.00	0.0145	0.0041
Mercury	32551-12-20 12:43 G	13610421.89	13610422.03	13610422.17	0.0145	0.0019

Mercury	32552-03-17 16:48 G	13610510.06	13610510.20	13610510.34	0.0145	0.0004
Mercury	32552-06-13 20:53 G	13610598.23	13610598.37	13610598.50	0.0145	0.0026
Mercury	32552-09-10 00:57 G	13610686.41	13610686.54	13610686.67	0.0145	0.0049
Mercury	32552-12-07 05:02 G	13610774.59	13610774.71	13610774.83	0.0145	0.0072
Mercury	32553-03-05 09:07 G	13610862.78	13610862.88	13610862.99	0.0145	0.0095
Mercury	32553-06-01 13:26 G	13610950.98	13610951.06	13610951.14	0.0145	0.0117
Mercury	32553-08-28 17:31 G	13611039.20	13611039.23	13611039.27	0.0145	0.0141
Mars	32554-01-18 13:55 G	13611181.91	13611182.08	13611182.28	0.0145	0.0114
Moon	32573-08-23 14:53 G	13618338.97	13618339.12	13618339.29	0.0141	0.0107
Earth	32573-08-23 16:19 G	13618339.04	13618339.18	13618339.34	0.0141	0.0114 *
Earth	32574-08-28 10:48 G	13618708.72	13618708.95	13618709.21	0.0141	0.0036
Moon	32574-08-28 13:12 G	13618708.81	13618709.05	13618709.31	0.0141	0.0039 *
Moon	32575-09-02 01:55 G	13619078.36	13619078.58	13619078.83	0.0140	0.0043
Earth	32575-09-02 04:48 G	13619078.46	13619078.70	13619078.95	0.0140	0.0042 *
Earth	32576-09-05 21:36 G	13619448.28	13619448.40	13619448.55	0.0140	0.0117
Moon	32576-09-06 00:14 G	13619448.39	13619448.51	13619448.65	0.0140	0.0120 *
Venus	32577-05-07 06:43 G	13619691.68	13619691.78	13619691.91	0.0140	0.0119
Venus	32577-12-19 16:05 G	13619918.01	13619918.17	13619918.35	0.0139	0.0087
Venus	32578-08-03 01:12 G	13620144.36	13620144.55	13620144.76	0.0139	0.0055
Venus	32579-03-17 10:05 G	13620370.71	13620370.92	13620371.14	0.0139	0.0023
Venus	32579-10-29 18:43 G	13620597.06	13620597.28	13620597.50	0.0138	0.0009
Venus	32580-06-12 03:21 G	13620823.43	13620823.64	13620823.85	0.0138	0.0040
Venus	32581-01-24 11:31 G	13621049.79	13621049.98	13621050.17	0.0138	0.0070
Venus	32581-09-07 19:26 G	13621276.17	13621276.31	13621276.47	0.0138	0.0101
Venus	32582-04-22 03:07 G	13621502.58	13621502.63	13621502.71	0.0137	0.0131
Mercury	32591-08-10 18:00 G	13624900.23	13624900.25	13624900.30	0.0134	0.0131
Mercury	32591-11-07 00:29 G	13624988.43	13624988.52	13624988.64	0.0134	0.0107
Mercury	32592-02-03 07:12 G	13625076.66	13625076.80	13625076.95	0.0134	0.0083
Mercury	32592-05-01 13:26 G	13625164.91	13625165.06	13625165.23	0.0134	0.0060
Mercury	32592-07-28 19:55 G	13625253.16	13625253.33	13625253.51	0.0134	0.0036

Mercury	32592-10-25 02:09 G	13625341.41	13625341.59	13625341.78	0.0134	0.0013
Mercury	32593-01-21 08:24 G	13625429.67	13625429.85	13625430.03	0.0133	0.0011
Mercury	32593-04-19 14:38 G	13625517.94	13625518.11	13625518.29	0.0133	0.0033
Mercury	32593-07-16 20:38 G	13625606.20	13625606.36	13625606.53	0.0133	0.0056
Mercury	32593-10-13 02:38 G	13625694.48	13625694.61	13625694.77	0.0133	0.0078
Mercury	32594-01-09 08:38 G	13625782.76	13625782.86	13625782.99	0.0133	0.0101
Mercury	32594-04-07 14:38 G	13625871.06	13625871.11	13625871.19	0.0133	0.0123
Mars	32594-08-06 18:00 G	13625991.95	13625992.25	13625992.57	0.0133	0.0031
Moon	32618-02-23 16:05 G	13634592.98	13634593.17	13634593.37	0.0137	0.0092
Earth	32618-02-23 16:19 G	13634593.01	13634593.18	13634593.36	0.0137	0.0097 *
Earth	32619-02-28 06:14 G	13634962.51	13634962.76	13634963.01	0.0138	0.0026
Moon	32619-02-28 06:14 G	13634962.53	13634962.76	13634963.00	0.0138	0.0032 *
Earth	32620-03-03 20:38 G	13635332.13	13635332.36	13635332.61	0.0138	0.0047
Moon	32620-03-03 21:21 G	13635332.16	13635332.39	13635332.65	0.0138	0.0054 *
Moon	32621-03-08 11:02 G	13635701.85	13635701.96	13635702.12	0.0139	0.0116
Earth	32621-03-08 12:00 G	13635701.88	13635702.00	13635702.13	0.0139	0.0121 *
Venus	32621-05-01 19:12 G	13635756.30	13635756.30	13635756.32	0.0139	0.0138
Venus	32621-12-14 03:21 G	13635982.52	13635982.64	13635982.79	0.0139	0.0108
Venus	32622-07-28 11:45 G	13636208.82	13636208.99	13636209.18	0.0139	0.0077
Venus	32623-03-11 20:09 G	13636435.14	13636435.34	13636435.55	0.0140	0.0046
Venus	32623-10-24 04:48 G	13636661.48	13636661.70	13636661.92	0.0140	0.0014
Venus	32624-06-06 13:26 G	13636887.85	13636888.06	13636888.28	0.0140	0.0018
Venus	32625-01-18 22:19 G	13637114.24	13637114.43	13637114.65	0.0140	0.0051
Venus	32625-09-02 07:26 G	13637340.65	13637340.81	13637341.00	0.0141	0.0083
Venus	32626-04-16 16:33 G	13637567.08	13637567.19	13637567.33	0.0141	0.0115
Mercury	32634-07-30 20:24 G	13640594.34	13640594.35	13640594.38	0.0144	0.0143
Mercury	32634-10-27 00:14 G	13640682.45	13640682.51	13640682.59	0.0144	0.0122
Mercury	32635-01-23 04:19 G	13640770.59	13640770.68	13640770.78	0.0145	0.0100
Mercury	32635-04-21 08:24 G	13640858.73	13640858.85	13640858.96	0.0145	0.0078
Mercury	32635-07-18 12:14 G	13640946.89	13640947.01	13640947.14	0.0145	0.0056

Mercury	32635-10-14 16:05 G	13641035.04	13641035.17	13641035.31	0.0145	0.0035
Mercury	32636-01-10 20:09 G	13641123.21	13641123.34	13641123.48	0.0145	0.0013
Mercury	32636-04-08 00:14 G	13641211.37	13641211.51	13641211.65	0.0145	0.0011
Mercury	32636-07-05 04:19 G	13641299.55	13641299.68	13641299.82	0.0145	0.0033
Mercury	32636-10-01 08:24 G	13641387.72	13641387.85	13641387.98	0.0145	0.0055
Mars	32636-10-12 01:41 G	13641398.37	13641398.57	13641398.81	0.0145	0.0098
Mercury	32636-12-28 12:29 G	13641475.91	13641476.02	13641476.14	0.0145	0.0078
Mercury	32637-03-26 16:33 G	13641564.10	13641564.19	13641564.30	0.0145	0.0101
Mercury	32637-06-22 20:38 G	13641652.30	13641652.36	13641652.44	0.0145	0.0124
Moon	32657-08-25 02:09 G	13649020.47	13649020.59	13649020.75	0.0141	0.0117
Earth	32657-08-25 03:36 G	13649020.51	13649020.65	13649020.83	0.0141	0.0110 *
Earth	32658-08-29 22:19 G	13649390.19	13649390.43	13649390.69	0.0141	0.0032
Moon	32658-08-30 00:14 G	13649390.25	13649390.51	13649390.77	0.0141	0.0026 *
Moon	32659-09-03 14:38 G	13649759.88	13649760.11	13649760.35	0.0140	0.0045
Earth	32659-09-03 16:33 G	13649759.95	13649760.19	13649760.43	0.0140	0.0046 *
Earth	32660-09-07 09:07 G	13650129.78	13650129.88	13650130.02	0.0140	0.0122
Moon	32660-09-07 11:45 G	13650129.88	13650129.99	13650130.15	0.0140	0.0118 *
Venus	32661-01-05 15:07 G	13650250.08	13650250.13	13650250.23	0.0140	0.0131
Venus	32661-08-20 00:43 G	13650476.39	13650476.53	13650476.70	0.0139	0.0099
Venus	32662-04-03 10:05 G	13650702.73	13650702.92	13650703.11	0.0139	0.0067
Venus	32662-11-15 18:57 G	13650929.08	13650929.29	13650929.51	0.0139	0.0035
Venus	32663-06-30 04:05 G	13651155.45	13651155.67	13651155.89	0.0139	0.0004
Venus	32664-02-11 12:29 G	13651381.81	13651382.02	13651382.24	0.0138	0.0028
Venus	32664-09-24 20:38 G	13651608.17	13651608.36	13651608.57	0.0138	0.0059
Venus	32665-05-09 05:02 G	13651834.55	13651834.71	13651834.88	0.0138	0.0089
Venus	32665-12-21 12:29 G	13652060.94	13652061.02	13652061.15	0.0137	0.0120
Mercury	32675-09-01 02:24 G	13655601.53	13655601.60	13655601.68	0.0134	0.0121
Mercury	32675-11-28 08:38 G	13655689.75	13655689.86	13655690.00	0.0134	0.0098
Mercury	32676-02-24 15:07 G	13655777.99	13655778.13	13655778.29	0.0134	0.0074
Mercury	32676-05-22 21:36 G	13655866.24	13655866.40	13655866.57	0.0134	0.0050

Mercury	32676-08-19 04:05 G	13655954.49	13655954.67	13655954.85	0.0134	0.0027
Mercury	32676-11-15 10:19 G	13656042.75	13656042.93	13656043.11	0.0134	0.0004
Mercury	32677-02-11 16:33 G	13656131.01	13656131.19	13656131.37	0.0134	0.0019
Mercury	32677-05-10 22:33 G	13656219.28	13656219.44	13656219.62	0.0134	0.0042
Mercury	32677-08-07 04:48 G	13656307.55	13656307.70	13656307.86	0.0134	0.0065
Mercury	32677-11-03 10:48 G	13656395.82	13656395.95	13656396.09	0.0133	0.0087
Mercury	32678-01-30 16:48 G	13656484.11	13656484.20	13656484.31	0.0133	0.0110
Mercury	32678-04-28 22:48 G	13656572.43	13656572.45	13656572.48	0.0133	0.0132
Moon	32702-02-25 05:45 G	13665274.56	13665274.74	13665274.94	0.0137	0.0094
Earth	32702-02-25 06:29 G	13665274.60	13665274.77	13665274.98	0.0137	0.0091 *
Earth	32703-03-01 20:38 G	13665644.11	13665644.36	13665644.62	0.0137	0.0019
Moon	32703-03-01 20:53 G	13665644.13	13665644.37	13665644.62	0.0137	0.0013 *
Moon	32704-03-05 10:33 G	13666013.70	13666013.94	13666014.20	0.0138	0.0047
Earth	32704-03-05 10:48 G	13666013.73	13666013.95	13666014.20	0.0138	0.0054 *
Earth	32705-03-10 01:41 G	13666383.49	13666383.57	13666383.69	0.0138	0.0128
Moon	32705-03-10 01:12 G	13666383.50	13666383.55	13666383.63	0.0138	0.0133 *
Venus	32705-08-14 14:09 G	13666540.99	13666541.09	13666541.22	0.0139	0.0119
Venus	32706-03-28 22:19 G	13666767.27	13666767.43	13666767.61	0.0139	0.0088
Venus	32706-11-10 06:29 G	13666993.59	13666993.77	13666993.98	0.0139	0.0058
Venus	32707-06-24 15:07 G	13667219.92	13667220.13	13667220.35	0.0140	0.0026
Venus	32708-02-06 00:00 G	13667446.28	13667446.50	13667446.71	0.0140	0.0006
Venus	32708-09-19 08:38 G	13667672.65	13667672.86	13667673.07	0.0140	0.0038
Venus	32709-05-03 17:31 G	13667899.05	13667899.23	13667899.42	0.0140	0.0070
Venus	32709-12-16 02:38 G	13668125.47	13668125.61	13668125.77	0.0141	0.0103
Venus	32710-07-30 12:00 G	13668351.95	13668352.00	13668352.07	0.0141	0.0135
Mercury	32718-08-21 04:05 G	13671295.64	13671295.67	13671295.73	0.0144	0.0136
Mercury	32718-11-17 08:09 G	13671383.76	13671383.84	13671383.92	0.0144	0.0114
Mercury	32719-02-13 12:00 G	13671471.90	13671472.00	13671472.11	0.0145	0.0092
Mercury	32719-05-12 16:05 G	13671560.05	13671560.17	13671560.29	0.0145	0.0071
Mercury	32719-08-08 19:55 G	13671648.20	13671648.33	13671648.46	0.0145	0.0049

Mercury	32719-11-05 00:00 G	13671736.36	13671736.50	13671736.63	0.0145	0.0027
Mercury	32720-02-01 03:50 G	13671824.53	13671824.66	13671824.80	0.0145	0.0006
Mercury	32720-04-29 07:55 G	13671912.69	13671912.83	13671912.97	0.0145	0.0018
Mercury	32720-07-26 12:00 G	13672000.87	13672001.00	13672001.13	0.0145	0.0040
Mercury	32720-10-22 16:05 G	13672089.05	13672089.17	13672089.30	0.0145	0.0063
Mercury	32721-01-18 20:09 G	13672177.23	13672177.34	13672177.45	0.0145	0.0085
Mercury	32721-04-17 00:14 G	13672265.42	13672265.51	13672265.61	0.0145	0.0108
Mars	32721-06-08 13:12 G	13672317.77	13672318.05	13672318.35	0.0145	0.0032
Mercury	32721-07-14 04:19 G	13672353.63	13672353.68	13672353.75	0.0145	0.0131
Moon	32741-08-26 15:21 G	13679701.97	13679702.14	13679702.33	0.0141	0.0098
Earth	32741-08-26 15:50 G	13679701.99	13679702.16	13679702.33	0.0141	0.0105 *
Earth	32742-08-31 10:48 G	13680071.70	13680071.95	13680072.20	0.0141	0.0026
Moon	32742-08-31 11:45 G	13680071.74	13680071.99	13680072.25	0.0141	0.0031 *
Moon	32743-09-05 02:53 G	13680441.40	13680441.62	13680441.86	0.0140	0.0053
Earth	32743-09-05 04:33 G	13680441.46	13680441.69	13680441.93	0.0140	0.0051 *
Earth	32744-09-08 21:21 G	13680811.31	13680811.39	13680811.52	0.0140	0.0127
Moon	32744-09-08 23:17 G	13680811.38	13680811.47	13680811.59	0.0140	0.0128 *
Venus	32745-04-20 09:36 G	13681034.78	13681034.90	13681035.05	0.0140	0.0111
Venus	32745-12-02 19:12 G	13681261.12	13681261.30	13681261.48	0.0139	0.0079
Venus	32746-07-17 04:19 G	13681487.48	13681487.68	13681487.89	0.0139	0.0047
Venus	32747-02-28 13:12 G	13681713.84	13681714.05	13681714.27	0.0139	0.0016
Venus	32747-10-12 21:50 G	13681940.20	13681940.41	13681940.63	0.0139	0.0016
Venus	32748-05-26 06:14 G	13682166.57	13682166.76	13682166.98	0.0138	0.0047
Venus	32749-01-07 14:24 G	13682392.94	13682393.10	13682393.30	0.0138	0.0078
Venus	32749-08-21 22:48 G	13682619.33	13682619.45	13682619.60	0.0138	0.0108
Venus	32750-04-05 06:57 G	13682845.79	13682845.79	13682845.79	0.0137	0.0137
Mercury	32759-09-22 10:19 G	13686302.85	13686302.93	13686303.05	0.0134	0.0112
Mercury	32759-12-19 16:48 G	13686391.08	13686391.20	13686391.35	0.0134	0.0088
Mercury	32760-03-16 23:31 G	13686479.32	13686479.48	13686479.64	0.0134	0.0064
Mercury	32760-06-13 05:45 G	13686567.57	13686567.74	13686567.92	0.0134	0.0041

Mercury	32760-09-09 12:14 G	13686655.83	13686656.01	13686656.19	0.0134	0.0017
Mercury	32760-12-06 18:29 G	13686744.09	13686744.27	13686744.45	0.0134	0.0006
Mercury	32761-03-05 00:43 G	13686832.35	13686832.53	13686832.71	0.0134	0.0029
Mercury	32761-06-01 06:57 G	13686920.62	13686920.79	13686920.95	0.0134	0.0052
Mercury	32761-08-28 12:57 G	13687008.90	13687009.04	13687009.19	0.0134	0.0074
Mercury	32761-11-24 18:57 G	13687097.18	13687097.29	13687097.42	0.0134	0.0097
Mars	32761-12-26 03:07 G	13687128.32	13687128.63	13687128.95	0.0134	0.0025
Mercury	32762-02-21 01:12 G	13687185.47	13687185.55	13687185.63	0.0133	0.0119
Moon	32786-02-25 20:38 G	13695956.17	13695956.36	13695956.60	0.0137	0.0081
Earth	32786-02-25 22:19 G	13695956.24	13695956.43	13695956.64	0.0137	0.0084 *
Earth	32787-03-02 12:14 G	13696325.76	13696326.01	13696326.27	0.0138	0.0012
Moon	32787-03-02 13:26 G	13696325.82	13696326.06	13696326.30	0.0138	0.0018 *
Moon	32788-03-06 01:55 G	13696695.37	13696695.58	13696695.83	0.0138	0.0068
Earth	32788-03-06 02:24 G	13696695.38	13696695.60	13696695.84	0.0138	0.0061 *
Moon	32789-03-10 18:00 G	13697065.17	13697065.25	13697065.35	0.0138	0.0129
Earth	32789-03-10 17:17 G	13697065.18	13697065.22	13697065.30	0.0138	0.0135 *
Venus	32789-04-14 02:09 G	13697099.52	13697099.59	13697099.68	0.0139	0.0128
Venus	32789-11-26 10:05 G	13697325.78	13697325.92	13697326.09	0.0139	0.0098
Venus	32790-07-10 18:14 G	13697552.08	13697552.26	13697552.46	0.0139	0.0067
Venus	32791-02-22 02:53 G	13697778.41	13697778.62	13697778.83	0.0139	0.0036
Venus	32791-10-06 11:31 G	13698004.76	13698004.98	13698005.19	0.0140	0.0005
Venus	32792-05-19 19:55 G	13698231.13	13698231.33	13698231.55	0.0140	0.0028
Venus	32793-01-01 04:48 G	13698457.52	13698457.70	13698457.91	0.0140	0.0061
Venus	32793-08-15 13:55 G	13698683.93	13698684.08	13698684.26	0.0141	0.0093
Venus	32794-03-29 23:02 G	13698910.38	13698910.46	13698910.58	0.0141	0.0125
Mercury	32802-09-10 12:43 G	13701996.96	13701997.03	13701997.10	0.0144	0.0125
Mercury	32802-12-07 16:33 G	13702085.10	13702085.19	13702085.28	0.0144	0.0103
Mercury	32803-03-05 20:24 G	13702173.24	13702173.35	13702173.46	0.0145	0.0082
Mercury	32803-06-02 00:14 G	13702261.39	13702261.51	13702261.64	0.0145	0.0061
Mercury	32803-08-29 04:19 G	13702349.55	13702349.68	13702349.81	0.0145	0.0038

Mercury	32803-11-25 08:24 G	13702437.71	13702437.85	13702437.98	0.0145	0.0017
Mercury	32804-02-21 12:14 G	13702525.88	13702526.01	13702526.15	0.0145	0.0007
Mercury	32804-05-19 16:19 G	13702614.05	13702614.18	13702614.32	0.0145	0.0028
Mercury	32804-08-15 20:24 G	13702702.22	13702702.35	13702702.48	0.0145	0.0051
Mercury	32804-11-12 00:29 G	13702790.40	13702790.52	13702790.64	0.0145	0.0073
Mercury	32805-02-08 04:33 G	13702878.59	13702878.69	13702878.80	0.0145	0.0096
Mercury	32805-05-07 08:38 G	13702966.79	13702966.86	13702966.94	0.0145	0.0119
Mercury	32805-08-03 12:43 G	13703055.01	13703055.03	13703055.06	0.0145	0.0142
Earth	32825-08-27 06:57 G	13710383.63	13710383.79	13710383.99	0.0141	0.0098
Moon	32825-08-27 07:12 G	13710383.64	13710383.80	13710383.97	0.0141	0.0105 *
Earth	32826-09-01 01:55 G	13710753.34	13710753.58	13710753.84	0.0141	0.0020
Moon	32826-09-01 02:38 G	13710753.35	13710753.61	13710753.87	0.0141	0.0014 *
Moon	32827-09-05 19:12 G	13711123.08	13711123.30	13711123.53	0.0140	0.0055
Earth	32827-09-05 19:55 G	13711123.11	13711123.33	13711123.57	0.0140	0.0058 *
Earth	32828-09-09 13:12 G	13711492.98	13711493.05	13711493.13	0.0140	0.0133
Moon	32828-09-09 14:53 G	13711493.03	13711493.12	13711493.22	0.0140	0.0130 *
Venus	32828-12-18 20:24 G	13711593.25	13711593.35	13711593.47	0.0140	0.0121
Venus	32829-08-02 06:00 G	13711819.59	13711819.75	13711819.92	0.0140	0.0089
Venus	32830-03-16 15:07 G	13712045.93	13712046.13	13712046.33	0.0139	0.0057
Venus	32830-10-29 00:00 G	13712272.29	13712272.50	13712272.72	0.0139	0.0026
Venus	32831-06-12 08:53 G	13712498.65	13712498.87	13712499.09	0.0139	0.0006
Venus	32832-01-24 17:31 G	13712725.02	13712725.23	13712725.44	0.0138	0.0037
Venus	32832-09-07 01:55 G	13712951.39	13712951.58	13712951.77	0.0138	0.0067
Venus	32833-04-21 09:50 G	13713177.77	13713177.91	13713178.07	0.0138	0.0098
Venus	32833-12-03 17:45 G	13713404.18	13713404.24	13713404.34	0.0138	0.0128
Mercury	32843-07-16 12:14 G	13716915.96	13716916.01	13716916.09	0.0134	0.0125
Mercury	32843-10-12 18:57 G	13717004.18	13717004.29	13717004.42	0.0134	0.0101
Mercury	32844-01-09 01:26 G	13717092.42	13717092.56	13717092.72	0.0134	0.0077
Mercury	32844-04-06 07:55 G	13717180.67	13717180.83	13717181.00	0.0134	0.0054
Mercury	32844-07-03 14:24 G	13717268.92	13717269.10	13717269.28	0.0134	0.0030

Mercury	32844-09-29 20:38 G	13717357.18	13717357.36	13717357.54	0.0134	0.0007
Mercury	32844-12-27 02:53 G	13717445.44	13717445.62	13717445.80	0.0134	0.0017
Mercury	32845-03-25 09:07 G	13717533.71	13717533.88	13717534.06	0.0134	0.0039
Mercury	32845-06-21 15:07 G	13717621.98	13717622.13	13717622.30	0.0134	0.0062
Mercury	32845-09-17 21:21 G	13717710.25	13717710.39	13717710.53	0.0134	0.0085
Mercury	32845-12-15 03:07 G	13717798.54	13717798.63	13717798.75	0.0134	0.0108
Mercury	32846-03-13 09:07 G	13717886.86	13717886.88	13717886.94	0.0133	0.0130
Mars	32846-08-21 10:48 G	13718047.74	13718047.95	13718048.21	0.0133	0.0089
Moon	32870-02-26 11:17 G	13726637.77	13726637.97	13726638.20	0.0137	0.0080
Earth	32870-02-26 13:12 G	13726637.85	13726638.05	13726638.27	0.0137	0.0077 *
Earth	32871-03-03 03:07 G	13727007.38	13727007.63	13727007.89	0.0138	0.0005
Moon	32871-03-03 04:33 G	13727007.44	13727007.69	13727007.93	0.0138	0.0003 *
Moon	32872-03-06 15:36 G	13727376.93	13727377.15	13727377.40	0.0138	0.0061
Earth	32872-03-06 17:17 G	13727377.01	13727377.22	13727377.45	0.0138	0.0068 *
Venus	32872-12-12 13:26 G	13727658.05	13727658.06	13727658.09	0.0138	0.0138
Venus	32873-07-26 21:21 G	13727884.27	13727884.39	13727884.54	0.0139	0.0108
Venus	32874-03-10 05:31 G	13728110.56	13728110.73	13728110.92	0.0139	0.0077
Venus	32874-10-22 13:41 G	13728336.87	13728337.07	13728337.28	0.0139	0.0046
Venus	32875-06-05 22:19 G	13728563.21	13728563.43	13728563.64	0.0140	0.0015
Venus	32876-01-18 06:57 G	13728789.58	13728789.79	13728790.01	0.0140	0.0017
Venus	32876-08-31 15:50 G	13729015.96	13729016.16	13729016.36	0.0140	0.0049
Venus	32877-04-15 00:43 G	13729242.36	13729242.53	13729242.71	0.0140	0.0081
Venus	32877-11-27 09:50 G	13729468.79	13729468.91	13729469.04	0.0141	0.0113
Mercury	32886-07-04 16:48 G	13732610.16	13732610.20	13732610.24	0.0144	0.0137
Mercury	32886-09-30 20:24 G	13732698.28	13732698.35	13732698.44	0.0144	0.0117
Mercury	32886-12-28 00:29 G	13732786.42	13732786.52	13732786.62	0.0144	0.0095
Mercury	32887-03-26 04:19 G	13732874.57	13732874.68	13732874.80	0.0145	0.0074
Mercury	32887-06-22 08:24 G	13732962.72	13732962.85	13732962.98	0.0145	0.0052
Mercury	32887-09-18 12:14 G	13733050.88	13733051.01	13733051.15	0.0145	0.0030
Mercury	32887-12-15 16:19 G	13733139.04	13733139.18	13733139.32	0.0145	0.0008

Mercury	32888-03-12 20:24 G	13733227.21	13733227.35	13733227.48	0.0145	0.0015
Mercury	32888-06-09 00:29 G	13733315.38	13733315.52	13733315.65	0.0145	0.0037
Mercury	32888-09-05 04:19 G	13733403.56	13733403.68	13733403.81	0.0145	0.0060
Mars	32888-10-26 03:36 G	13733454.37	13733454.65	13733454.94	0.0145	0.0039
Mercury	32888-12-02 08:24 G	13733491.74	13733491.85	13733491.97	0.0145	0.0082
Mercury	32889-02-28 12:29 G	13733579.93	13733580.02	13733580.12	0.0145	0.0105
Mercury	32889-05-27 16:33 G	13733668.14	13733668.19	13733668.26	0.0145	0.0128
Earth	32909-08-28 21:50 G	13741065.23	13741065.41	13741065.61	0.0141	0.0092
Moon	32909-08-28 22:33 G	13741065.25	13741065.44	13741065.65	0.0141	0.0085 *
Moon	32910-09-02 16:33 G	13741434.94	13741435.19	13741435.46	0.0141	0.0019
Earth	32910-09-02 16:48 G	13741434.95	13741435.20	13741435.45	0.0141	0.0013 *
Moon	32911-09-07 10:05 G	13741804.71	13741804.92	13741805.14	0.0140	0.0067
Earth	32911-09-07 10:19 G	13741804.72	13741804.93	13741805.17	0.0140	0.0065 *
Venus	32912-08-19 06:29 G	13742151.72	13742151.77	13742151.86	0.0140	0.0132
Earth	32912-09-11 03:50 G	13742174.66	13742174.66	13742174.66	0.0140	0.0140
Venus	32913-04-02 16:05 G	13742378.03	13742378.17	13742378.33	0.0140	0.0100
Venus	32913-11-15 01:12 G	13742604.37	13742604.55	13742604.75	0.0139	0.0069
Venus	32914-06-29 10:48 G	13742830.74	13742830.95	13742831.16	0.0139	0.0037
Venus	32915-02-10 19:41 G	13743057.10	13743057.32	13743057.54	0.0139	0.0006
Venus	32915-09-25 04:19 G	13743283.46	13743283.68	13743283.89	0.0139	0.0026
Venus	32916-05-08 12:43 G	13743509.83	13743510.03	13743510.23	0.0138	0.0057
Venus	32916-12-20 20:53 G	13743736.21	13743736.37	13743736.54	0.0138	0.0087
Venus	32917-08-04 05:17 G	13743962.61	13743962.72	13743962.83	0.0138	0.0117
Mercury	32927-08-06 21:07 G	13747617.28	13747617.38	13747617.47	0.0134	0.0114
Mercury	32927-11-03 03:21 G	13747705.51	13747705.64	13747705.78	0.0134	0.0091
Mercury	32928-01-30 09:50 G	13747793.76	13747793.91	13747794.08	0.0134	0.0067
Mercury	32928-04-27 16:19 G	13747882.01	13747882.18	13747882.36	0.0134	0.0043
Mercury	32928-07-24 22:48 G	13747970.27	13747970.45	13747970.63	0.0134	0.0020
Mercury	32928-10-21 05:02 G	13748058.53	13748058.71	13748058.89	0.0134	0.0004
Mercury	32929-01-17 11:17 G	13748146.79	13748146.97	13748147.15	0.0134	0.0027

Mercury	32929-04-15 17:17 G	13748235.06	13748235.22	13748235.40	0.0134	0.0050
Mars	32929-05-15 13:26 G	13748264.83	13748265.06	13748265.34	0.0134	0.0081
Mercury	32929-07-12 23:31 G	13748323.33	13748323.48	13748323.64	0.0134	0.0072
Mercury	32929-10-09 05:31 G	13748411.61	13748411.73	13748411.87	0.0134	0.0095
Mercury	32930-01-05 11:45 G	13748499.91	13748499.99	13748500.08	0.0133	0.0117
Moon	32954-02-28 00:43 G	13757319.32	13757319.53	13757319.77	0.0137	0.0068
Earth	32954-02-28 03:21 G	13757319.43	13757319.64	13757319.86	0.0137	0.0072 *
Earth	32955-03-04 17:02 G	13757688.95	13757689.21	13757689.46	0.0138	0.0002
Moon	32955-03-04 18:57 G	13757689.05	13757689.29	13757689.54	0.0138	0.0006 *
Moon	32956-03-08 05:31 G	13758058.52	13758058.73	13758058.95	0.0138	0.0080
Earth	32956-03-08 06:57 G	13758058.58	13758058.79	13758059.01	0.0138	0.0074 *
Venus	32957-03-27 08:09 G	13758442.73	13758442.84	13758442.96	0.0139	0.0118
Venus	32957-11-08 15:50 G	13758669.01	13758669.16	13758669.34	0.0139	0.0088
Venus	32958-06-23 00:14 G	13758895.32	13758895.51	13758895.71	0.0139	0.0057
Venus	32959-02-04 08:53 G	13759121.66	13759121.87	13759122.08	0.0139	0.0026
Venus	32959-09-18 17:17 G	13759348.01	13759348.22	13759348.44	0.0140	0.0006
Venus	32960-05-02 01:55 G	13759574.38	13759574.58	13759574.80	0.0140	0.0038
Venus	32960-12-14 11:02 G	13759800.77	13759800.96	13759801.15	0.0140	0.0070
Venus	32961-07-28 19:55 G	13760027.19	13760027.33	13760027.49	0.0141	0.0102
Venus	32962-03-12 05:17 G	13760253.67	13760253.72	13760253.79	0.0141	0.0134
Mercury	32970-07-26 00:29 G	13763311.48	13763311.52	13763311.59	0.0144	0.0130
Mercury	32970-10-22 04:33 G	13763399.60	13763399.69	13763399.78	0.0144	0.0108
Mercury	32971-01-18 08:24 G	13763487.75	13763487.85	13763487.96	0.0144	0.0086
Mercury	32971-04-16 12:29 G	13763575.90	13763576.02	13763576.14	0.0145	0.0065
Mercury	32971-07-13 16:19 G	13763664.05	13763664.18	13763664.31	0.0145	0.0043
Mercury	32971-10-09 20:09 G	13763752.21	13763752.34	13763752.48	0.0145	0.0022
Mercury	32972-01-06 00:14 G	13763840.37	13763840.51	13763840.65	0.0145	0.0002
Mercury	32972-04-03 04:19 G	13763928.54	13763928.68	13763928.81	0.0145	0.0024
Mercury	32972-06-30 08:24 G	13764016.72	13764016.85	13764016.98	0.0145	0.0046
Mercury	32972-09-26 12:14 G	13764104.90	13764105.01	13764105.14	0.0145	0.0069

Mercury	32972-12-23 16:33 G	13764193.08	13764193.19	13764193.30	0.0145	0.0091
Mercury	32973-03-21 20:38 G	13764281.28	13764281.36	13764281.44	0.0145	0.0114
Mercury	32973-06-18 00:43 G	13764369.49	13764369.53	13764369.58	0.0145	0.0137
Mars	32973-06-22 17:17 G	13764374.00	13764374.22	13764374.45	0.0145	0.0094
Earth	32993-08-29 13:41 G	13771746.88	13771747.07	13771747.28	0.0141	0.0085
Moon	32993-08-29 14:38 G	13771746.93	13771747.11	13771747.31	0.0141	0.0092 *
Moon	32994-09-03 07:55 G	13772116.57	13772116.83	13772117.09	0.0141	0.0001
Earth	32994-09-03 08:38 G	13772116.60	13772116.86	13772117.11	0.0141	0.0006 *
Earth	32995-09-08 02:09 G	13772486.39	13772486.59	13772486.82	0.0141	0.0072
Moon	32995-09-08 02:24 G	13772486.40	13772486.60	13772486.83	0.0141	0.0069 *
Venus	32996-12-01 02:53 G	13772936.50	13772936.62	13772936.77	0.0140	0.0110
Venus	32997-07-15 12:14 G	13773162.85	13773163.01	13773163.21	0.0140	0.0079
Venus	32998-02-26 21:50 G	13773389.20	13773389.41	13773389.61	0.0139	0.0047
Venus	32998-10-11 06:43 G	13773615.56	13773615.78	13773615.99	0.0139	0.0015
Venus	32999-05-25 15:21 G	13773841.92	13773842.14	13773842.36	0.0139	0.0016
Venus	33000-01-07 00:00 G	13774068.30	13774068.50	13774068.71	0.0138	0.0047
Venus	33000-08-21 08:24 G	13774294.67	13774294.85	13774295.04	0.0138	0.0078

34TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 34th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	33001-04-04 16:19 G		13774521.06	13774521.18	13774521.33	0.0138	0.0108	
Venus	33001-11-17 00:29 G		13774747.52	13774747.52	13774747.54	0.0138	0.0138	

Mercury	33011-05-31 22:33 G	13778230.41	13778230.44	13778230.51	0.0134	0.0128
Mercury	33011-08-28 05:17 G	13778318.61	13778318.72	13778318.85	0.0134	0.0104
Mercury	33011-11-24 11:45 G	13778406.85	13778406.99	13778407.15	0.0134	0.0080
Mercury	33012-02-20 18:29 G	13778495.10	13778495.27	13778495.43	0.0134	0.0056
Mercury	33012-05-19 00:43 G	13778583.36	13778583.53	13778583.71	0.0134	0.0033
Mercury	33012-08-15 07:12 G	13778671.61	13778671.80	13778671.98	0.0134	0.0010
Mercury	33012-11-11 13:26 G	13778759.88	13778760.06	13778760.24	0.0134	0.0014
Mercury	33013-02-07 19:41 G	13778848.14	13778848.32	13778848.49	0.0134	0.0037
Mercury	33013-05-07 01:41 G	13778936.42	13778936.57	13778936.74	0.0134	0.0060
Mercury	33013-08-03 07:41 G	13779024.69	13779024.82	13779024.97	0.0134	0.0083
Mercury	33013-10-30 13:55 G	13779112.98	13779113.08	13779113.20	0.0133	0.0105
Mars	33014-01-09 23:02 G	13779184.17	13779184.46	13779184.78	0.0133	0.0034
Mercury	33014-01-26 19:41 G	13779201.29	13779201.32	13779201.39	0.0133	0.0128
Moon	33038-03-01 12:43 G	13788000.82	13788001.03	13788001.27	0.0137	0.0068
Earth	33038-03-01 15:36 G	13788000.94	13788001.15	13788001.38	0.0137	0.0067 *
Earth	33039-03-06 05:02 G	13788370.46	13788370.71	13788370.97	0.0137	0.0006
Moon	33039-03-06 07:26 G	13788370.56	13788370.81	13788371.06	0.0137	0.0012 *
Moon	33040-03-09 16:19 G	13788739.97	13788740.18	13788740.41	0.0138	0.0072
Earth	33040-03-09 18:43 G	13788740.09	13788740.28	13788740.51	0.0138	0.0079 *
Venus	33040-11-25 18:00 G	13789001.18	13789001.25	13789001.33	0.0138	0.0129
Venus	33041-07-10 01:41 G	13789227.43	13789227.57	13789227.73	0.0139	0.0099
Venus	33042-02-21 09:36 G	13789453.72	13789453.90	13789454.10	0.0139	0.0069
Venus	33042-10-05 18:00 G	13789680.04	13789680.25	13789680.46	0.0139	0.0038
Venus	33043-05-20 02:24 G	13789906.38	13789906.60	13789906.82	0.0139	0.0006
Venus	33044-01-01 11:02 G	13790132.75	13790132.96	13790133.18	0.0140	0.0025
Venus	33044-08-14 19:41 G	13790359.13	13790359.32	13790359.53	0.0140	0.0057
Venus	33045-03-29 04:33 G	13790585.54	13790585.69	13790585.87	0.0140	0.0089
Venus	33045-11-10 13:55 G	13790811.98	13790812.08	13790812.19	0.0141	0.0121
Mercury	33054-08-16 07:55 G	13794012.77	13794012.83	13794012.90	0.0144	0.0124
Mercury	33054-11-12 11:45 G	13794100.90	13794100.99	13794101.09	0.0144	0.0103

Mercury	33055-02-08 15:36 G	13794189.05	13794189.15	13794189.27	0.0144	0.0081
Mercury	33055-05-07 19:41 G	13794277.20	13794277.32	13794277.44	0.0144	0.0059
Mercury	33055-08-03 23:31 G	13794365.35	13794365.48	13794365.62	0.0145	0.0038
Mercury	33055-10-31 03:36 G	13794453.51	13794453.65	13794453.79	0.0145	0.0016
Mercury	33056-01-27 07:26 G	13794541.68	13794541.81	13794541.95	0.0145	0.0008
Mars	33056-03-16 08:09 G	13794590.69	13794590.84	13794591.02	0.0145	0.0119
Mercury	33056-04-24 11:31 G	13794629.85	13794629.98	13794630.12	0.0145	0.0029
Mercury	33056-07-21 15:21 G	13794718.02	13794718.14	13794718.28	0.0145	0.0052
Mercury	33056-10-17 19:41 G	13794806.20	13794806.32	13794806.44	0.0145	0.0074
Mercury	33057-01-13 23:31 G	13794894.39	13794894.48	13794894.59	0.0145	0.0097
Mercury	33057-04-12 03:36 G	13794982.59	13794982.65	13794982.74	0.0145	0.0120
Mercury	33057-07-09 07:55 G	13795070.82	13795070.83	13795070.86	0.0145	0.0143
Earth	33077-08-31 00:57 G	13802428.35	13802428.54	13802428.77	0.0142	0.0081
Moon	33077-08-31 03:07 G	13802428.42	13802428.63	13802428.84	0.0142	0.0073 *
Moon	33078-09-04 18:57 G	13802798.03	13802798.29	13802798.55	0.0141	0.0008
Earth	33078-09-04 20:09 G	13802798.09	13802798.34	13802798.60	0.0141	0.0003 *
Earth	33079-09-09 14:09 G	13803167.88	13803168.09	13803168.31	0.0141	0.0076
Moon	33079-09-09 14:38 G	13803167.92	13803168.11	13803168.32	0.0141	0.0080 *
Venus	33080-08-01 11:45 G	13803494.89	13803494.99	13803495.10	0.0140	0.0123
Venus	33081-03-15 20:53 G	13803721.22	13803721.37	13803721.55	0.0140	0.0091
Venus	33081-10-28 06:29 G	13803947.57	13803947.77	13803947.97	0.0140	0.0059
Venus	33082-06-11 15:36 G	13804173.94	13804174.15	13804174.37	0.0139	0.0028
Venus	33083-01-24 00:43 G	13804400.31	13804400.53	13804400.75	0.0139	0.0004
Venus	33083-09-07 09:21 G	13804626.68	13804626.89	13804627.10	0.0139	0.0035
Venus	33084-04-20 17:31 G	13804853.06	13804853.23	13804853.44	0.0138	0.0067
Venus	33084-12-03 02:09 G	13805079.44	13805079.59	13805079.75	0.0138	0.0096
Venus	33085-07-17 10:48 G	13805305.86	13805305.95	13805306.03	0.0138	0.0126
Mercury	33095-06-21 06:43 G	13808931.71	13808931.78	13808931.88	0.0134	0.0119
Mercury	33095-09-17 13:12 G	13809019.94	13809020.05	13809020.19	0.0134	0.0095
Mercury	33095-12-14 19:55 G	13809108.18	13809108.33	13809108.49	0.0134	0.0071

Mercury	33096-03-12 02:24 G	13809196.43	13809196.60	13809196.77	0.0134	0.0047
Mercury	33096-06-08 08:38 G	13809284.69	13809284.86	13809285.05	0.0134	0.0024
Mercury	33096-09-04 15:07 G	13809372.95	13809373.13	13809373.31	0.0134	0.0001
Mercury	33096-12-01 21:21 G	13809461.21	13809461.39	13809461.57	0.0134	0.0023
Mercury	33097-02-28 03:36 G	13809549.48	13809549.65	13809549.82	0.0134	0.0046
Mercury	33097-05-27 09:50 G	13809637.76	13809637.91	13809638.07	0.0134	0.0069
Mercury	33097-08-23 15:50 G	13809726.04	13809726.16	13809726.30	0.0134	0.0092
Mercury	33097-11-19 22:05 G	13809814.33	13809814.42	13809814.51	0.0133	0.0114
Earth	33121-02-26 14:53 G	13818313.08	13818313.12	13818313.21	0.0136	0.0133
Moon	33121-02-26 18:29 G	13818313.21	13818313.27	13818313.34	0.0136	0.0131 *
Moon	33122-03-03 00:43 G	13818682.30	13818682.53	13818682.77	0.0137	0.0059
Earth	33122-03-03 03:36 G	13818682.44	13818682.65	13818682.90	0.0137	0.0062 *
Earth	33123-03-07 17:17 G	13819051.96	13819052.22	13819052.47	0.0137	0.0011
Moon	33123-03-07 20:09 G	13819052.09	13819052.34	13819052.59	0.0137	0.0006 *
Moon	33124-03-11 04:19 G	13819421.49	13819421.68	13819421.88	0.0138	0.0090
Earth	33124-03-11 06:57 G	13819421.59	13819421.79	13819422.00	0.0138	0.0083 *
Venus	33125-03-10 11:31 G	13819785.85	13819785.98	13819786.11	0.0138	0.0110
Venus	33125-10-22 19:12 G	13820012.13	13820012.30	13820012.48	0.0139	0.0080
Venus	33126-06-06 03:21 G	13820238.44	13820238.64	13820238.84	0.0139	0.0049
Venus	33127-01-18 11:45 G	13820464.78	13820464.99	13820465.21	0.0139	0.0018
Venus	33127-09-01 20:09 G	13820691.13	13820691.34	13820691.56	0.0139	0.0013
Venus	33128-04-15 04:48 G	13820917.50	13820917.70	13820917.91	0.0140	0.0045
Venus	33128-11-27 13:12 G	13821143.89	13821144.05	13821144.25	0.0140	0.0077
Venus	33129-07-11 22:33 G	13821370.31	13821370.44	13821370.58	0.0140	0.0108
Venus	33130-02-23 07:41 G	13821596.82	13821596.82	13821596.84	0.0141	0.0141
Mercury	33138-06-10 11:17 G	13824625.95	13824625.97	13824626.01	0.0144	0.0140
Mercury	33138-09-06 15:21 G	13824714.06	13824714.14	13824714.21	0.0144	0.0119
Mercury	33138-12-03 18:57 G	13824802.20	13824802.29	13824802.40	0.0144	0.0098
Mercury	33139-03-01 23:02 G	13824890.35	13824890.46	13824890.58	0.0144	0.0076
Mercury	33139-05-29 02:53 G	13824978.50	13824978.62	13824978.75	0.0144	0.0054

Mercury	33139-08-25 06:43 G	13825066.65	13825066.78	13825066.92	0.0145	0.0033
Mercury	33139-11-21 10:48 G	13825154.81	13825154.95	13825155.09	0.0145	0.0010
Mercury	33140-02-17 14:53 G	13825242.98	13825243.12	13825243.25	0.0145	0.0012
Mercury	33140-05-15 18:43 G	13825331.15	13825331.28	13825331.42	0.0145	0.0035
Mercury	33140-08-11 22:48 G	13825419.33	13825419.45	13825419.58	0.0145	0.0057
Mercury	33140-11-08 02:53 G	13825507.51	13825507.62	13825507.74	0.0145	0.0080
Mars	33140-11-10 12:43 G	13825509.74	13825510.03	13825510.33	0.0145	0.0007
Mercury	33141-02-04 06:43 G	13825595.70	13825595.78	13825595.89	0.0145	0.0103
Mercury	33141-05-03 11:17 G	13825683.90	13825683.97	13825684.03	0.0145	0.0125
Earth	33161-09-01 12:00 G	13833109.80	13833110.00	13833110.23	0.0142	0.0077
Moon	33161-09-01 14:09 G	13833109.90	13833110.09	13833110.30	0.0142	0.0084 *
Moon	33162-09-06 05:17 G	13833479.46	13833479.72	13833479.98	0.0141	0.0009
Earth	33162-09-06 07:12 G	13833479.55	13833479.80	13833480.05	0.0141	0.0002 *
Earth	33163-09-11 01:12 G	13833849.34	13833849.55	13833849.76	0.0141	0.0080
Moon	33163-09-11 02:38 G	13833849.41	13833849.61	13833849.82	0.0141	0.0076 *
Venus	33164-04-01 19:12 G	13834053.27	13834053.30	13834053.38	0.0140	0.0136
Venus	33164-11-14 05:02 G	13834279.58	13834279.71	13834279.87	0.0140	0.0104
Venus	33165-06-28 14:53 G	13834505.94	13834506.12	13834506.31	0.0140	0.0071
Venus	33166-02-10 00:14 G	13834732.30	13834732.51	13834732.72	0.0140	0.0040
Venus	33166-09-24 09:21 G	13834958.67	13834958.89	13834959.11	0.0139	0.0008
Venus	33167-05-08 18:14 G	13835185.04	13835185.26	13835185.47	0.0139	0.0023
Venus	33167-12-21 02:38 G	13835411.42	13835411.61	13835411.82	0.0139	0.0055
Venus	33168-08-03 11:17 G	13835637.81	13835637.97	13835638.16	0.0138	0.0086
Venus	33169-03-17 19:55 G	13835864.22	13835864.33	13835864.46	0.0138	0.0115
Mercury	33179-04-15 08:09 G	13839544.84	13839544.84	13839544.85	0.0134	0.0134
Mercury	33179-07-12 14:38 G	13839633.02	13839633.11	13839633.23	0.0134	0.0110
Mercury	33179-10-08 21:07 G	13839721.25	13839721.38	13839721.53	0.0134	0.0086
Mercury	33180-01-05 03:50 G	13839809.50	13839809.66	13839809.83	0.0134	0.0062
Mercury	33180-04-02 10:19 G	13839897.76	13839897.93	13839898.11	0.0134	0.0038
Mercury	33180-06-29 16:48 G	13839986.02	13839986.20	13839986.38	0.0134	0.0015

Mercury	33180-09-25 23:02 G	13840074.28	13840074.46	13840074.64	0.0134	0.0009
Mercury	33180-12-23 05:17 G	13840162.55	13840162.72	13840162.90	0.0134	0.0032
Mercury	33181-03-21 11:31 G	13840250.82	13840250.98	13840251.15	0.0134	0.0055
Mars	33181-05-30 05:17 G	13840320.41	13840320.72	13840321.04	0.0134	0.0025
Mercury	33181-06-17 17:45 G	13840339.10	13840339.24	13840339.39	0.0134	0.0078
Mercury	33181-09-13 23:45 G	13840427.38	13840427.49	13840427.62	0.0134	0.0101
Mercury	33181-12-11 06:00 G	13840515.69	13840515.75	13840515.82	0.0134	0.0123
Earth	33205-02-27 05:17 G	13848994.62	13848994.72	13848994.81	0.0136	0.0126
Moon	33205-02-27 08:53 G	13848994.79	13848994.87	13848994.96	0.0136	0.0128 *
Moon	33206-03-03 14:24 G	13849363.87	13849364.10	13849364.34	0.0137	0.0056
Earth	33206-03-03 17:45 G	13849364.01	13849364.24	13849364.47	0.0137	0.0055 *
Earth	33207-03-08 06:43 G	13849733.53	13849733.78	13849734.03	0.0137	0.0016
Moon	33207-03-08 09:50 G	13849733.66	13849733.91	13849734.16	0.0137	0.0022 *
Moon	33208-03-11 17:02 G	13850103.02	13850103.21	13850103.43	0.0138	0.0083
Earth	33208-03-11 20:09 G	13850103.17	13850103.34	13850103.55	0.0138	0.0090 *
Venus	33208-11-07 21:50 G	13850344.32	13850344.41	13850344.53	0.0138	0.0120
Venus	33209-06-22 05:45 G	13850570.58	13850570.74	13850570.91	0.0138	0.0090
Venus	33210-02-03 13:55 G	13850796.89	13850797.08	13850797.28	0.0139	0.0060
Venus	33210-09-17 22:05 G	13851023.21	13851023.42	13851023.63	0.0139	0.0029
Venus	33211-05-02 06:29 G	13851249.55	13851249.77	13851249.98	0.0139	0.0003
Venus	33211-12-14 14:53 G	13851475.91	13851476.12	13851476.33	0.0139	0.0033
Venus	33212-07-27 23:31 G	13851702.29	13851702.48	13851702.68	0.0140	0.0065
Venus	33213-03-11 08:09 G	13851928.70	13851928.84	13851929.01	0.0140	0.0097
Venus	33213-10-23 17:02 G	13852155.14	13852155.21	13852155.31	0.0140	0.0129
Mercury	33222-06-30 18:43 G	13855327.24	13855327.28	13855327.33	0.0144	0.0134
Mercury	33222-09-26 22:33 G	13855415.36	13855415.44	13855415.53	0.0144	0.0113
Mercury	33222-12-24 02:38 G	13855503.50	13855503.61	13855503.71	0.0144	0.0092
Mercury	33223-03-22 06:14 G	13855591.65	13855591.76	13855591.89	0.0144	0.0070
Mercury	33223-06-18 10:19 G	13855679.80	13855679.93	13855680.06	0.0144	0.0048
Mercury	33223-09-14 14:09 G	13855767.96	13855768.09	13855768.23	0.0144	0.0027

Mercury	33223-12-11 18:14 G	13855856.12	13855856.26	13855856.40	0.0144	0.0005
Mercury	33224-03-08 22:05 G	13855944.29	13855944.42	13855944.56	0.0145	0.0018
Mercury	33224-06-05 02:09 G	13856032.46	13856032.59	13856032.72	0.0145	0.0040
Mercury	33224-09-01 06:14 G	13856120.64	13856120.76	13856120.88	0.0145	0.0063
Mercury	33224-11-28 10:05 G	13856208.82	13856208.92	13856209.04	0.0145	0.0086
Mercury	33225-02-24 14:24 G	13856297.01	13856297.10	13856297.19	0.0145	0.0108
Mercury	33225-05-23 18:29 G	13856385.22	13856385.27	13856385.33	0.0145	0.0131
Mars	33225-07-06 19:41 G	13856429.22	13856429.32	13856429.43	0.0145	0.0135
Earth	33245-09-01 20:24 G	13863791.15	13863791.35	13863791.58	0.0142	0.0075
Moon	33245-09-01 23:45 G	13863791.27	13863791.49	13863791.71	0.0142	0.0067 *
Moon	33246-09-06 13:12 G	13864160.79	13864161.05	13864161.32	0.0141	0.0003
Earth	33246-09-06 15:50 G	13864160.91	13864161.16	13864161.41	0.0141	0.0005 *
Earth	33247-09-11 09:36 G	13864530.71	13864530.90	13864531.12	0.0141	0.0083
Moon	33247-09-11 11:31 G	13864530.81	13864530.98	13864531.19	0.0141	0.0088 *
Venus	33248-07-14 11:45 G	13864837.89	13864837.99	13864838.12	0.0140	0.0117
Venus	33249-02-25 21:36 G	13865064.23	13865064.40	13865064.58	0.0140	0.0085
Venus	33249-10-10 06:57 G	13865290.60	13865290.79	13865291.00	0.0140	0.0054
Venus	33250-05-24 16:19 G	13865516.97	13865517.18	13865517.40	0.0139	0.0022
Venus	33251-01-06 01:26 G	13865743.35	13865743.56	13865743.78	0.0139	0.0010
Venus	33251-08-20 10:33 G	13865969.73	13865969.94	13865970.15	0.0139	0.0041
Venus	33252-04-02 18:57 G	13866196.12	13866196.29	13866196.49	0.0139	0.0073
Venus	33252-11-15 03:50 G	13866422.52	13866422.66	13866422.81	0.0138	0.0103
Venus	33253-06-29 12:00 G	13866648.96	13866649.00	13866649.08	0.0138	0.0133
Mercury	33263-05-05 15:21 G	13870246.10	13870246.14	13870246.22	0.0134	0.0128
Mercury	33263-08-01 22:19 G	13870334.32	13870334.43	13870334.55	0.0134	0.0103
Mercury	33263-10-29 04:48 G	13870422.56	13870422.70	13870422.86	0.0134	0.0079
Mercury	33264-01-25 11:17 G	13870510.81	13870510.97	13870511.14	0.0134	0.0055
Mercury	33264-04-22 17:45 G	13870599.07	13870599.24	13870599.42	0.0134	0.0031
Mercury	33264-07-20 00:14 G	13870687.33	13870687.51	13870687.69	0.0134	0.0007
Mercury	33264-10-16 06:29 G	13870775.60	13870775.77	13870775.96	0.0134	0.0017

Mercury	33265-01-12 12:43 G	13870863.87	13870864.03	13870864.21	0.0134	0.0040
Mercury	33265-04-10 18:57 G	13870952.14	13870952.29	13870952.46	0.0134	0.0063
Mercury	33265-07-08 01:12 G	13871040.42	13871040.55	13871040.70	0.0134	0.0086
Mercury	33265-10-04 07:12 G	13871128.71	13871128.80	13871128.92	0.0134	0.0109
Mercury	33265-12-31 13:26 G	13871217.04	13871217.06	13871217.10	0.0134	0.0131
Mars	33266-01-23 09:36 G	13871239.67	13871239.90	13871240.15	0.0134	0.0088
Earth	33289-02-27 18:57 G	13879676.19	13879676.29	13879676.43	0.0136	0.0121
Moon	33289-02-27 22:19 G	13879676.33	13879676.43	13879676.58	0.0136	0.0119 *
Moon	33290-03-04 04:05 G	13880045.44	13880045.67	13880045.92	0.0137	0.0048
Earth	33290-03-04 07:55 G	13880045.60	13880045.83	13880046.07	0.0137	0.0049 *
Earth	33291-03-08 20:53 G	13880415.13	13880415.37	13880415.63	0.0137	0.0023
Moon	33291-03-09 00:29 G	13880415.27	13880415.52	13880415.77	0.0137	0.0019 *
Moon	33292-03-12 07:26 G	13880784.66	13880784.81	13880785.00	0.0138	0.0103
Earth	33292-03-12 10:48 G	13880784.78	13880784.95	13880785.15	0.0138	0.0096 *
Venus	33292-07-08 09:36 G	13880902.83	13880902.90	13880902.97	0.0138	0.0129
Venus	33293-02-19 17:02 G	13881129.07	13881129.21	13881129.37	0.0138	0.0100
Venus	33293-10-04 00:57 G	13881355.36	13881355.54	13881355.74	0.0138	0.0070
Venus	33294-05-18 09:21 G	13881581.68	13881581.89	13881582.09	0.0139	0.0039
Venus	33294-12-30 17:31 G	13881808.02	13881808.23	13881808.45	0.0139	0.0009
Venus	33295-08-14 01:55 G	13882034.37	13882034.58	13882034.80	0.0139	0.0023
Venus	33296-03-27 10:19 G	13882260.74	13882260.93	13882261.14	0.0140	0.0055
Venus	33296-11-08 18:57 G	13882487.13	13882487.29	13882487.47	0.0140	0.0086
Venus	33297-06-23 04:05 G	13882713.56	13882713.67	13882713.79	0.0140	0.0117
Mercury	33306-07-22 02:53 G	13886028.56	13886028.62	13886028.68	0.0144	0.0125
Mercury	33306-10-18 06:29 G	13886116.69	13886116.77	13886116.87	0.0144	0.0104
Mercury	33307-01-14 10:33 G	13886204.83	13886204.94	13886205.05	0.0144	0.0083
Mercury	33307-04-12 14:24 G	13886292.98	13886293.10	13886293.22	0.0144	0.0061
Mercury	33307-07-09 18:14 G	13886381.13	13886381.26	13886381.40	0.0144	0.0040
Mercury	33307-10-05 22:19 G	13886469.29	13886469.43	13886469.56	0.0144	0.0018
Mercury	33308-01-02 02:09 G	13886557.46	13886557.59	13886557.73	0.0144	0.0006

Mercury	33308-03-30 06:14 G	13886645.62	13886645.76	13886645.89	0.0144	0.0027
Mars	33308-03-30 19:41 G	13886646.08	13886646.32	13886646.59	0.0144	0.0073
Mercury	33308-06-26 10:05 G	13886733.80	13886733.92	13886734.06	0.0145	0.0050
Mercury	33308-09-22 14:09 G	13886821.97	13886822.09	13886822.21	0.0145	0.0072
Mercury	33308-12-19 18:14 G	13886910.16	13886910.26	13886910.37	0.0145	0.0095
Mercury	33309-03-17 22:05 G	13886998.36	13886998.42	13886998.51	0.0145	0.0118
Mercury	33309-06-14 02:38 G	13887086.58	13887086.61	13887086.64	0.0145	0.0140
Earth	33329-09-03 08:53 G	13894472.67	13894472.87	13894473.11	0.0142	0.0070
Moon	33329-09-03 12:00 G	13894472.80	13894473.00	13894473.22	0.0142	0.0077 *
Moon	33330-09-08 01:12 G	13894842.30	13894842.55	13894842.81	0.0141	0.0017
Earth	33330-09-08 04:19 G	13894842.43	13894842.68	13894842.93	0.0141	0.0009 *
Earth	33331-09-12 21:50 G	13895212.23	13895212.41	13895212.63	0.0141	0.0088
Moon	33331-09-13 00:43 G	13895212.34	13895212.53	13895212.74	0.0141	0.0082 *
Venus	33332-03-14 20:38 G	13895396.28	13895396.36	13895396.45	0.0141	0.0129
Venus	33332-10-27 06:00 G	13895622.61	13895622.75	13895622.93	0.0140	0.0098
Venus	33333-06-10 15:50 G	13895848.98	13895849.16	13895849.36	0.0140	0.0065
Venus	33334-01-23 01:26 G	13896075.35	13896075.56	13896075.78	0.0140	0.0033
Venus	33334-09-06 10:48 G	13896301.73	13896301.95	13896302.17	0.0139	0.0002
Venus	33335-04-20 19:41 G	13896528.11	13896528.32	13896528.54	0.0139	0.0030
Venus	33335-12-03 04:33 G	13896754.50	13896754.69	13896754.89	0.0139	0.0061
Venus	33336-07-16 13:12 G	13896980.90	13896981.05	13896981.23	0.0138	0.0092
Venus	33337-02-27 22:05 G	13897207.32	13897207.42	13897207.52	0.0138	0.0122
Mercury	33347-05-26 23:17 G	13900947.40	13900947.47	13900947.57	0.0134	0.0119
Mercury	33347-08-23 06:14 G	13901035.63	13901035.76	13901035.89	0.0134	0.0094
Mercury	33347-11-19 12:57 G	13901123.88	13901124.04	13901124.19	0.0134	0.0070
Mercury	33348-02-15 19:12 G	13901212.13	13901212.30	13901212.48	0.0134	0.0046
Mercury	33348-05-14 01:41 G	13901300.39	13901300.57	13901300.76	0.0134	0.0022
Mercury	33348-08-10 08:09 G	13901388.66	13901388.84	13901389.02	0.0134	0.0002
Mars	33348-10-17 03:50 G	13901456.45	13901456.66	13901456.93	0.0134	0.0090
Mercury	33348-11-06 14:38 G	13901476.93	13901477.11	13901477.29	0.0134	0.0025

Mercury	33349-02-02 20:38 G	13901565.20	13901565.36	13901565.54	0.0134	0.0049
Mercury	33349-05-02 02:53 G	13901653.48	13901653.62	13901653.78	0.0134	0.0072
Mercury	33349-07-29 09:07 G	13901741.76	13901741.88	13901742.02	0.0134	0.0095
Mercury	33349-10-25 15:36 G	13901830.06	13901830.15	13901830.23	0.0134	0.0117
Earth	33373-03-01 09:50 G	13910357.78	13910357.91	13910358.06	0.0136	0.0114
Moon	33373-03-01 13:26 G	13910357.95	13910358.06	13910358.21	0.0136	0.0117 *
Moon	33374-03-05 18:57 G	13910727.06	13910727.29	13910727.55	0.0137	0.0043
Earth	33374-03-05 22:33 G	13910727.21	13910727.44	13910727.69	0.0137	0.0043 *
Earth	33375-03-10 12:00 G	13911096.75	13911097.00	13911097.25	0.0137	0.0030
Moon	33375-03-10 15:36 G	13911096.90	13911097.15	13911097.39	0.0137	0.0035 *
Moon	33376-03-13 22:05 G	13911466.26	13911466.42	13911466.62	0.0138	0.0097
Earth	33376-03-14 01:55 G	13911466.42	13911466.58	13911466.76	0.0138	0.0103 *
Venus	33376-10-21 04:48 G	13911687.58	13911687.70	13911687.84	0.0138	0.0109
Venus	33377-06-04 12:29 G	13911913.86	13911914.02	13911914.21	0.0138	0.0080
Venus	33378-01-16 20:53 G	13912140.17	13912140.37	13912140.58	0.0139	0.0049
Venus	33378-08-31 05:02 G	13912366.50	13912366.71	13912366.93	0.0139	0.0018
Venus	33379-04-14 13:26 G	13912592.84	13912593.06	13912593.28	0.0139	0.0013
Venus	33379-11-26 21:36 G	13912819.21	13912819.40	13912819.62	0.0139	0.0045
Venus	33380-07-10 06:14 G	13913045.59	13913045.76	13913045.95	0.0140	0.0076
Venus	33381-02-21 15:07 G	13913272.00	13913272.13	13913272.28	0.0140	0.0107
Venus	33381-10-06 00:00 G	13913498.48	13913498.50	13913498.55	0.0140	0.0139
Mercury	33390-05-15 07:12 G	13916641.76	13916641.80	13916641.84	0.0144	0.0137
Mercury	33390-08-11 10:48 G	13916729.88	13916729.95	13916730.04	0.0144	0.0116
Mercury	33390-11-07 14:38 G	13916818.02	13916818.11	13916818.22	0.0144	0.0095
Mercury	33391-02-03 18:43 G	13916906.16	13916906.28	13916906.40	0.0144	0.0073
Mercury	33391-05-02 22:33 G	13916994.31	13916994.44	13916994.57	0.0144	0.0052
Mercury	33391-07-30 02:24 G	13917082.47	13917082.60	13917082.74	0.0144	0.0030
Mercury	33391-10-26 06:29 G	13917170.63	13917170.77	13917170.90	0.0144	0.0008
Mercury	33392-01-22 10:19 G	13917258.80	13917258.93	13917259.07	0.0144	0.0014
Mercury	33392-04-19 14:24 G	13917346.97	13917347.10	13917347.23	0.0144	0.0036

Mercury	33392-07-16 18:29 G	13917435.14	13917435.27	13917435.39	0.0144	0.0059
Mercury	33392-10-12 22:19 G	13917523.32	13917523.43	13917523.55	0.0145	0.0081
Mars	33392-11-24 09:07 G	13917565.61	13917565.88	13917566.15	0.0145	0.0062
Mercury	33393-01-09 02:09 G	13917611.51	13917611.59	13917611.70	0.0145	0.0105
Mercury	33393-04-07 06:29 G	13917699.71	13917699.77	13917699.84	0.0145	0.0127
Earth	33413-09-04 21:21 G	13925154.16	13925154.39	13925154.61	0.0142	0.0065
Moon	33413-09-05 00:43 G	13925154.31	13925154.53	13925154.77	0.0142	0.0058 *
Moon	33414-09-09 12:57 G	13925523.79	13925524.04	13925524.30	0.0141	0.0007
Earth	33414-09-09 16:19 G	13925523.93	13925524.18	13925524.43	0.0141	0.0014 *
Earth	33415-09-14 10:05 G	13925893.74	13925893.92	13925894.13	0.0141	0.0092
Moon	33415-09-14 12:57 G	13925893.88	13925894.04	13925894.23	0.0141	0.0098 *
Venus	33416-06-27 15:07 G	13926180.99	13926181.13	13926181.27	0.0140	0.0109
Venus	33417-02-09 00:29 G	13926407.35	13926407.52	13926407.72	0.0140	0.0077
Venus	33417-09-23 10:19 G	13926633.72	13926633.93	13926634.13	0.0140	0.0045
Venus	33418-05-07 19:26 G	13926860.10	13926860.31	13926860.53	0.0139	0.0014
Venus	33418-12-20 04:33 G	13927086.48	13927086.69	13927086.91	0.0139	0.0019
Venus	33419-08-03 13:55 G	13927312.87	13927313.08	13927313.28	0.0139	0.0049
Venus	33420-03-16 22:33 G	13927539.27	13927539.44	13927539.62	0.0139	0.0080
Venus	33420-10-29 06:57 G	13927765.67	13927765.79	13927765.93	0.0138	0.0111
Mercury	33431-03-21 00:43 G	13931560.53	13931560.53	13931560.54	0.0134	0.0134
Mercury	33431-06-17 07:26 G	13931648.71	13931648.81	13931648.91	0.0134	0.0110
Mercury	33431-09-13 13:55 G	13931736.94	13931737.08	13931737.23	0.0134	0.0086
Mercury	33431-12-10 20:24 G	13931825.19	13931825.35	13931825.52	0.0134	0.0062
Mercury	33432-03-08 03:07 G	13931913.45	13931913.63	13931913.81	0.0134	0.0037
Mercury	33432-06-04 09:36 G	13932001.72	13932001.90	13932002.08	0.0134	0.0014
Mercury	33432-08-31 15:50 G	13932089.98	13932090.16	13932090.35	0.0134	0.0011
Mercury	33432-11-27 22:05 G	13932178.25	13932178.42	13932178.61	0.0134	0.0034
Mercury	33433-02-24 04:33 G	13932266.53	13932266.69	13932266.86	0.0134	0.0057
Mercury	33433-05-23 10:48 G	13932354.81	13932354.95	13932355.10	0.0134	0.0080
Mars	33433-06-13 12:00 G	13932375.68	13932376.00	13932376.31	0.0134	0.0026

Mercury	33433-08-19 16:48 G	13932443.10	13932443.20	13932443.33	0.0134	0.0103
Mercury	33433-11-15 23:02 G	13932531.41	13932531.46	13932531.53	0.0134	0.0126
Earth	33457-03-02 23:17 G	13941039.33	13941039.47	13941039.64	0.0137	0.0109
Moon	33457-03-03 02:38 G	13941039.47	13941039.61	13941039.79	0.0137	0.0106 *
Moon	33458-03-07 08:24 G	13941408.61	13941408.85	13941409.10	0.0137	0.0037
Earth	33458-03-07 12:14 G	13941408.77	13941409.01	13941409.26	0.0137	0.0037 *
Earth	33459-03-12 01:26 G	13941778.32	13941778.56	13941778.82	0.0137	0.0036
Moon	33459-03-12 05:02 G	13941778.47	13941778.71	13941778.97	0.0137	0.0032 *
Moon	33460-03-15 12:14 G	13942147.88	13942148.01	13942148.16	0.0138	0.0115
Earth	33460-03-15 15:50 G	13942148.01	13942148.16	13942148.33	0.0138	0.0108 *
Venus	33460-06-21 15:36 G	13942246.06	13942246.15	13942246.27	0.0138	0.0119
Venus	33461-02-02 23:31 G	13942472.33	13942472.48	13942472.66	0.0138	0.0089
Venus	33461-09-17 07:26 G	13942698.63	13942698.81	13942699.02	0.0138	0.0059
Venus	33462-05-01 15:36 G	13942924.95	13942925.15	13942925.37	0.0139	0.0029
Venus	33462-12-14 00:00 G	13943151.29	13943151.50	13943151.72	0.0139	0.0004
Venus	33463-07-28 08:24 G	13943377.64	13943377.85	13943378.07	0.0139	0.0033
Venus	33464-03-10 16:48 G	13943604.02	13943604.20	13943604.40	0.0140	0.0065
Venus	33464-10-23 01:26 G	13943830.42	13943830.56	13943830.73	0.0140	0.0096
Venus	33465-06-06 10:19 G	13944056.85	13944056.93	13944057.03	0.0140	0.0127
Mercury	33474-06-05 15:07 G	13947343.08	13947343.13	13947343.19	0.0144	0.0128
Mercury	33474-09-01 18:57 G	13947431.21	13947431.29	13947431.38	0.0144	0.0107
Mercury	33474-11-28 22:48 G	13947519.35	13947519.45	13947519.56	0.0144	0.0086
Mercury	33475-02-25 02:38 G	13947607.49	13947607.61	13947607.74	0.0144	0.0064
Mercury	33475-05-24 06:29 G	13947695.65	13947695.77	13947695.91	0.0144	0.0043
Mars	33475-08-19 12:57 G	13947783.04	13947783.04	13947783.07	0.0144	0.0144
Mercury	33475-08-20 10:33 G	13947783.80	13947783.94	13947784.07	0.0144	0.0021
Mercury	33475-11-16 14:24 G	13947871.97	13947872.10	13947872.24	0.0144	0.0004
Mercury	33476-02-12 18:29 G	13947960.13	13947960.27	13947960.40	0.0144	0.0024
Mercury	33476-05-10 22:19 G	13948048.31	13948048.43	13948048.57	0.0144	0.0046
Mercury	33476-08-07 02:24 G	13948136.48	13948136.60	13948136.72	0.0144	0.0068

Mercury	33476-11-03 06:29 G	13948224.67	13948224.77	13948224.88	0.0145	0.0091
Mercury	33477-01-30 10:19 G	13948312.86	13948312.93	13948313.03	0.0145	0.0114
Mercury	33477-04-28 14:24 G	13948401.07	13948401.10	13948401.16	0.0145	0.0137
Moon	33496-08-31 12:29 G	13955465.95	13955466.02	13955466.10	0.0142	0.0135
Earth	33496-08-31 15:36 G	13955466.13	13955466.15	13955466.23	0.0142	0.0140
Earth	33497-09-05 11:45 G	13955835.76	13955835.99	13955836.22	0.0142	0.0059
Moon	33497-09-05 14:53 G	13955835.91	13955836.12	13955836.36	0.0142	0.0066 *
Moon	33498-09-10 03:07 G	13956205.38	13956205.63	13956205.89	0.0141	0.0028
Earth	33498-09-10 06:43 G	13956205.53	13956205.78	13956206.03	0.0141	0.0020 *
Earth	33499-09-15 00:43 G	13956575.35	13956575.53	13956575.71	0.0141	0.0098
Moon	33499-09-15 03:50 G	13956575.48	13956575.66	13956575.86	0.0141	0.0092 *
Venus	33500-02-26 00:43 G	13956739.43	13956739.53	13956739.66	0.0140	0.0120
Venus	33500-10-10 10:48 G	13956965.78	13956965.95	13956966.12	0.0140	0.0088
Venus	33501-05-24 20:09 G	13957192.15	13957192.34	13957192.55	0.0140	0.0056
Venus	33502-01-06 05:45 G	13957418.53	13957418.74	13957418.96	0.0140	0.0024
Venus	33502-08-20 15:07 G	13957644.91	13957645.13	13957645.35	0.0139	0.0008
Venus	33503-04-04 00:00 G	13957871.30	13957871.50	13957871.72	0.0139	0.0039
Venus	33503-11-16 08:53 G	13958097.69	13958097.87	13958098.07	0.0139	0.0070
Venus	33504-06-29 17:31 G	13958324.09	13958324.23	13958324.39	0.0138	0.0100
Venus	33505-02-11 01:55 G	13958550.53	13958550.58	13958550.67	0.0138	0.0131
Saturn	33514-10-10 18:00 G	13962078.81	13962079.25	13962079.70	0.0134	0.0091
Mercury	33515-04-11 08:53 G	13962261.80	13962261.87	13962261.93	0.0134	0.0125
Mercury	33515-07-08 15:21 G	13962350.02	13962350.14	13962350.27	0.0134	0.0100
Mercury	33515-10-04 21:50 G	13962438.27	13962438.41	13962438.57	0.0134	0.0076
Mercury	33516-01-01 04:19 G	13962526.52	13962526.68	13962526.86	0.0134	0.0053
Mercury	33516-03-29 11:02 G	13962614.78	13962614.96	13962615.14	0.0134	0.0028
Mercury	33516-06-25 17:31 G	13962703.05	13962703.23	13962703.42	0.0134	0.0004
Mercury	33516-09-22 00:00 G	13962791.32	13962791.50	13962791.68	0.0134	0.0019
Mercury	33516-12-19 06:14 G	13962879.59	13962879.76	13962879.94	0.0134	0.0043
Mercury	33517-03-17 12:29 G	13962967.87	13962968.02	13962968.18	0.0134	0.0066

Mercury	33517-06-13 18:43 G	13963056.15	13963056.28	13963056.42	0.0134	0.0089
Mercury	33517-09-10 00:57 G	13963144.45	13963144.54	13963144.64	0.0134	0.0112
Earth	33541-03-04 11:31 G	13971720.83	13971720.98	13971721.16	0.0136	0.0104
Moon	33541-03-04 15:36 G	13971720.99	13971721.15	13971721.31	0.0136	0.0107 *
Moon	33542-03-08 21:21 G	13972090.15	13972090.39	13972090.64	0.0137	0.0032
Earth	33542-03-09 00:43 G	13972090.28	13972090.53	13972090.78	0.0137	0.0032 *
Earth	33543-03-13 13:55 G	13972459.85	13972460.08	13972460.33	0.0137	0.0040
Moon	33543-03-13 17:45 G	13972460.00	13972460.24	13972460.49	0.0137	0.0044 *
Venus	33544-02-21 01:55 G	13972804.52	13972804.58	13972804.67	0.0138	0.0129
Moon	33544-03-17 00:29 G	13972829.38	13972829.52	13972829.70	0.0138	0.0108
Earth	33544-03-17 04:33 G	13972829.54	13972829.69	13972829.83	0.0138	0.0113 *
Venus	33544-10-04 09:50 G	13973030.76	13973030.91	13973031.06	0.0138	0.0099
Venus	33545-05-18 17:31 G	13973257.05	13973257.23	13973257.42	0.0138	0.0070
Venus	33545-12-31 01:41 G	13973483.37	13973483.57	13973483.78	0.0139	0.0039
Venus	33546-08-14 09:50 G	13973709.69	13973709.91	13973710.13	0.0139	0.0009
Venus	33547-03-28 18:00 G	13973936.04	13973936.25	13973936.47	0.0139	0.0022
Venus	33547-11-10 02:09 G	13974162.40	13974162.59	13974162.80	0.0139	0.0054
Venus	33548-06-23 11:02 G	13974388.79	13974388.96	13974389.13	0.0140	0.0084
Venus	33549-02-04 19:41 G	13974615.21	13974615.32	13974615.45	0.0140	0.0115
Mercury	33558-03-30 18:57 G	13977956.28	13977956.29	13977956.31	0.0144	0.0142
Mercury	33558-06-26 22:33 G	13978044.38	13978044.44	13978044.52	0.0144	0.0122
Mercury	33558-09-23 02:38 G	13978132.52	13978132.61	13978132.71	0.0144	0.0100
Mercury	33558-12-20 06:29 G	13978220.66	13978220.77	13978220.88	0.0144	0.0079
Mercury	33559-03-18 10:19 G	13978308.81	13978308.93	13978309.06	0.0144	0.0057
Mercury	33559-06-14 14:09 G	13978396.96	13978397.09	13978397.23	0.0144	0.0036
Mercury	33559-09-10 18:14 G	13978485.12	13978485.26	13978485.39	0.0144	0.0014
Mercury	33559-12-07 22:05 G	13978573.28	13978573.42	13978573.56	0.0144	0.0008
Mercury	33560-03-05 01:55 G	13978661.45	13978661.58	13978661.72	0.0144	0.0031
Mars	33560-04-14 19:41 G	13978702.03	13978702.32	13978702.62	0.0144	0.0015
Mercury	33560-06-01 06:00 G	13978749.62	13978749.75	13978749.88	0.0144	0.0053

Mercury	33560-08-28 09:50 G	13978837.80	13978837.91	13978838.04	0.0144	0.0076
Mercury	33560-11-24 14:09 G	13978925.99	13978926.09	13978926.19	0.0145	0.0098
Mercury	33561-02-20 18:00 G	13979014.18	13979014.25	13979014.33	0.0145	0.0121
Mercury	33561-05-19 22:05 G	13979102.41	13979102.42	13979102.44	0.0145	0.0144
Moon	33580-09-02 00:00 G	13986147.46	13986147.50	13986147.58	0.0142	0.0138
Earth	33580-09-02 03:50 G	13986147.59	13986147.66	13986147.75	0.0142	0.0135
Earth	33581-09-06 23:17 G	13986517.25	13986517.47	13986517.71	0.0142	0.0055
Moon	33581-09-07 03:21 G	13986517.40	13986517.64	13986517.88	0.0142	0.0048 *
Moon	33582-09-11 14:53 G	13986886.87	13986887.12	13986887.38	0.0141	0.0017
Earth	33582-09-11 18:29 G	13986887.02	13986887.27	13986887.52	0.0141	0.0025 *
Earth	33583-09-16 12:00 G	13987256.85	13987257.00	13987257.20	0.0141	0.0103
Moon	33583-09-16 15:36 G	13987257.01	13987257.15	13987257.33	0.0141	0.0109 *
Venus	33583-10-27 08:53 G	13987297.82	13987297.87	13987297.96	0.0141	0.0132
Venus	33584-06-09 18:57 G	13987524.15	13987524.29	13987524.46	0.0140	0.0100
Venus	33585-01-22 05:02 G	13987750.52	13987750.71	13987750.90	0.0140	0.0068
Venus	33585-09-05 14:24 G	13987976.89	13987977.10	13987977.32	0.0140	0.0036
Venus	33586-04-19 23:45 G	13988203.27	13988203.49	13988203.71	0.0139	0.0004
Venus	33586-12-02 08:53 G	13988429.66	13988429.87	13988430.09	0.0139	0.0027
Venus	33587-07-16 18:00 G	13988656.05	13988656.25	13988656.45	0.0139	0.0058
Venus	33588-02-28 02:38 G	13988882.45	13988882.61	13988882.79	0.0139	0.0089
Venus	33588-10-11 11:17 G	13989108.87	13989108.97	13989109.09	0.0138	0.0119
Mercury	33599-05-01 16:05 G	13992963.09	13992963.17	13992963.27	0.0134	0.0117
Mercury	33599-07-28 23:02 G	13993051.33	13993051.46	13993051.59	0.0134	0.0093
Mercury	33599-10-25 05:31 G	13993139.58	13993139.73	13993139.89	0.0134	0.0068
Mercury	33600-01-21 12:00 G	13993227.83	13993228.00	13993228.18	0.0134	0.0044
Mercury	33600-04-18 18:43 G	13993316.10	13993316.28	13993316.46	0.0134	0.0020
Mercury	33600-07-16 00:57 G	13993404.36	13993404.54	13993404.73	0.0134	0.0005
Mercury	33600-10-12 07:26 G	13993492.63	13993492.81	13993492.99	0.0134	0.0027
Mars	33600-10-31 10:05 G	13993511.63	13993511.92	13993512.25	0.0134	0.0040
Mercury	33601-01-08 13:41 G	13993580.91	13993581.07	13993581.25	0.0134	0.0051

Mercury	33601-04-06 19:55 G	13993669.19	13993669.33	13993669.49	0.0134	0.0074
Mercury	33601-07-04 02:09 G	13993757.48	13993757.59	13993757.72	0.0134	0.0097
Mercury	33601-09-30 08:09 G	13993845.78	13993845.84	13993845.94	0.0134	0.0120
Earth	33625-03-04 22:05 G	14002402.27	14002402.42	14002402.62	0.0136	0.0101
Moon	33625-03-05 01:12 G	14002402.39	14002402.55	14002402.75	0.0136	0.0097 *
Moon	33626-03-09 07:41 G	14002771.59	14002771.82	14002772.08	0.0137	0.0030
Earth	33626-03-09 11:17 G	14002771.72	14002771.97	14002772.22	0.0137	0.0029 *
Jupiter	33626-10-25 12:14 G	14003001.80	14003002.01	14003002.32	0.0137	0.0117
Earth	33627-03-14 00:43 G	14003141.29	14003141.53	14003141.77	0.0137	0.0043
Moon	33627-03-14 03:50 G	14003141.42	14003141.66	14003141.91	0.0137	0.0041 *
Moon	33628-03-17 10:48 G	14003510.86	14003510.95	14003511.09	0.0138	0.0123
Earth	33628-03-17 14:24 G	14003510.99	14003511.10	14003511.26	0.0138	0.0117 *
Venus	33628-06-03 18:14 G	14003589.15	14003589.26	14003589.40	0.0138	0.0111
Venus	33629-01-16 02:24 G	14003815.43	14003815.60	14003815.78	0.0138	0.0081
Venus	33629-08-30 10:05 G	14004041.73	14004041.92	14004042.13	0.0138	0.0052
Venus	33630-04-13 18:14 G	14004268.04	14004268.26	14004268.47	0.0139	0.0021
Venus	33630-11-26 02:09 G	14004494.38	14004494.59	14004494.81	0.0139	0.0010
Venus	33631-07-10 10:33 G	14004720.73	14004720.94	14004721.15	0.0139	0.0040
Venus	33632-02-21 18:43 G	14004947.11	14004947.28	14004947.48	0.0140	0.0072
Venus	33632-10-05 03:36 G	14005173.51	14005173.65	14005173.80	0.0140	0.0102
Venus	33633-05-19 12:14 G	14005399.95	14005400.01	14005400.08	0.0140	0.0133
Mercury	33642-04-20 02:09 G	14008657.56	14008657.59	14008657.63	0.0144	0.0138
Mercury	33642-07-17 05:45 G	14008745.67	14008745.74	14008745.83	0.0144	0.0117
Mercury	33642-10-13 09:36 G	14008833.81	14008833.90	14008834.01	0.0144	0.0096
Mercury	33643-01-09 13:41 G	14008921.95	14008922.07	14008922.18	0.0144	0.0074
Mercury	33643-04-07 17:17 G	14009010.10	14009010.22	14009010.36	0.0144	0.0053
Mercury	33643-07-04 21:21 G	14009098.26	14009098.39	14009098.52	0.0144	0.0031
Mercury	33643-10-01 01:12 G	14009186.42	14009186.55	14009186.69	0.0144	0.0010
Mercury	33643-12-28 05:17 G	14009274.58	14009274.72	14009274.85	0.0144	0.0013
Mercury	33644-03-25 09:07 G	14009362.75	14009362.88	14009363.02	0.0144	0.0035

Mercury	33644-06-21 13:12 G	14009450.92	14009451.05	14009451.17	0.0144	0.0058
Mercury	33644-09-17 17:02 G	14009539.10	14009539.21	14009539.33	0.0144	0.0080
Mars	33644-12-08 21:21 G	14009621.20	14009621.39	14009621.58	0.0145	0.0111
Mercury	33644-12-14 21:07 G	14009627.29	14009627.38	14009627.48	0.0145	0.0103
Mercury	33645-03-13 00:57 G	14009715.49	14009715.54	14009715.62	0.0145	0.0126
Moon	33664-09-02 10:33 G	14016828.85	14016828.94	14016829.05	0.0142	0.0130
Earth	33664-09-02 13:55 G	14016829.00	14016829.08	14016829.19	0.0142	0.0131 *
Earth	33665-09-07 09:50 G	14017198.68	14017198.91	14017199.15	0.0142	0.0051
Moon	33665-09-07 13:12 G	14017198.82	14017199.05	14017199.29	0.0142	0.0057 *
Moon	33666-09-12 01:12 G	14017568.31	14017568.55	14017568.80	0.0141	0.0036
Earth	33666-09-12 05:02 G	14017568.47	14017568.71	14017568.96	0.0141	0.0028 *
Earth	33667-09-16 23:17 G	14017938.31	14017938.47	14017938.64	0.0141	0.0106
Moon	33667-09-17 02:53 G	14017938.44	14017938.62	14017938.80	0.0141	0.0099 *
Venus	33668-02-08 02:53 G	14018082.50	14018082.62	14018082.76	0.0141	0.0112
Venus	33668-09-21 12:29 G	14018308.86	14018309.02	14018309.22	0.0140	0.0081
Venus	33669-05-05 22:19 G	14018535.23	14018535.43	14018535.64	0.0140	0.0048
Venus	33669-12-18 07:55 G	14018761.62	14018761.83	14018762.05	0.0140	0.0017
Venus	33670-08-01 17:17 G	14018988.01	14018988.22	14018988.44	0.0139	0.0015
Venus	33671-03-16 02:24 G	14019214.40	14019214.60	14019214.81	0.0139	0.0046
Venus	33671-10-28 11:02 G	14019440.79	14019440.96	14019441.16	0.0139	0.0077
Venus	33672-06-10 19:41 G	14019667.20	14019667.32	14019667.48	0.0139	0.0108
Venus	33673-01-23 04:05 G	14019893.67	14019893.67	14019893.72	0.0138	0.0138
Mercury	33683-02-22 17:17 G	14023576.21	14023576.22	14023576.24	0.0134	0.0134
Mercury	33683-05-21 23:45 G	14023664.39	14023664.49	14023664.61	0.0134	0.0109
Mercury	33683-08-18 06:14 G	14023752.63	14023752.76	14023752.92	0.0134	0.0085
Mercury	33683-11-14 13:12 G	14023840.89	14023841.05	14023841.21	0.0134	0.0061
Mercury	33684-02-10 19:41 G	14023929.15	14023929.32	14023929.50	0.0134	0.0036
Mercury	33684-05-09 02:09 G	14024017.41	14024017.59	14024017.78	0.0134	0.0013
Mercury	33684-08-05 08:38 G	14024105.68	14024105.86	14024106.04	0.0134	0.0011
Mercury	33684-11-01 14:53 G	14024193.95	14024194.12	14024194.30	0.0134	0.0035

Mercury	33685-01-28 21:21 G	14024282.23	14024282.39	14024282.56	0.0134	0.0058
Mercury	33685-04-27 03:36 G	14024370.51	14024370.65	14024370.80	0.0134	0.0081
Mars	33685-06-26 17:45 G	14024430.99	14024431.24	14024431.51	0.0134	0.0076
Mercury	33685-07-24 09:50 G	14024458.80	14024458.91	14024459.03	0.0134	0.0104
Mercury	33685-10-20 15:50 G	14024547.12	14024547.16	14024547.23	0.0134	0.0127
Earth	33709-03-06 09:07 G	14033083.72	14033083.88	14033084.08	0.0136	0.0096
Moon	33709-03-06 12:14 G	14033083.84	14033084.01	14033084.19	0.0136	0.0101 *
Moon	33710-03-10 19:41 G	14033453.08	14033453.32	14033453.57	0.0137	0.0023
Earth	33710-03-10 22:19 G	14033453.18	14033453.43	14033453.68	0.0137	0.0025 *
Earth	33711-03-15 11:17 G	14033822.74	14033822.97	14033823.22	0.0137	0.0047
Moon	33711-03-15 14:38 G	14033822.88	14033823.11	14033823.36	0.0137	0.0050 *
Venus	33712-02-03 03:36 G	14034147.56	14034147.65	14034147.76	0.0138	0.0122
Moon	33712-03-18 22:05 G	14034192.30	14034192.42	14034192.57	0.0138	0.0116
Earth	33712-03-19 00:57 G	14034192.44	14034192.54	14034192.68	0.0138	0.0121 *
Venus	33712-09-16 11:02 G	14034373.81	14034373.96	14034374.13	0.0138	0.0093
Venus	33713-04-30 18:43 G	14034600.10	14034600.28	14034600.49	0.0138	0.0063
Venus	33713-12-13 02:53 G	14034826.41	14034826.62	14034826.83	0.0138	0.0033
Venus	33714-07-27 10:48 G	14035052.73	14035052.95	14035053.17	0.0139	0.0003
Venus	33715-03-10 18:43 G	14035279.08	14035279.28	14035279.50	0.0139	0.0028
Venus	33715-10-23 03:07 G	14035505.43	14035505.63	14035505.83	0.0139	0.0059
Venus	33716-06-05 11:17 G	14035731.82	14035731.97	14035732.15	0.0140	0.0090
Venus	33717-01-17 20:09 G	14035958.24	14035958.34	14035958.46	0.0140	0.0120
Mercury	33726-05-11 09:07 G	14039358.84	14039358.88	14039358.93	0.0144	0.0134
Mercury	33726-08-07 12:57 G	14039446.96	14039447.04	14039447.12	0.0144	0.0113
Mercury	33726-11-03 16:33 G	14039535.10	14039535.19	14039535.30	0.0144	0.0092
Mercury	33727-01-30 20:38 G	14039623.24	14039623.36	14039623.48	0.0144	0.0070
Mercury	33727-04-29 00:29 G	14039711.39	14039711.52	14039711.65	0.0144	0.0049
Mercury	33727-07-26 04:19 G	14039799.55	14039799.68	14039799.81	0.0144	0.0027
Mars	33727-09-02 15:21 G	14039837.97	14039838.14	14039838.35	0.0144	0.0108
Mercury	33727-10-22 08:09 G	14039887.71	14039887.84	14039887.98	0.0144	0.0006

Mercury	33728-01-18 12:00 G	14039975.87	14039976.00	14039976.14	0.0144	0.0018
Mercury	33728-04-15 16:05 G	14040064.04	14040064.17	14040064.30	0.0144	0.0039
Mercury	33728-07-12 19:55 G	14040152.21	14040152.33	14040152.46	0.0144	0.0061
Mercury	33728-10-09 00:00 G	14040240.39	14040240.50	14040240.61	0.0144	0.0084
Mercury	33729-01-05 03:50 G	14040328.58	14040328.66	14040328.76	0.0144	0.0107
Mercury	33729-04-03 08:09 G	14040416.78	14040416.84	14040416.90	0.0145	0.0129
Moon	33748-09-03 17:31 G	14047510.16	14047510.23	14047510.33	0.0142	0.0133
Earth	33748-09-03 20:38 G	14047510.27	14047510.36	14047510.46	0.0142	0.0131 *
Earth	33749-09-08 16:33 G	14047879.96	14047880.19	14047880.43	0.0142	0.0051
Moon	33749-09-08 20:09 G	14047880.10	14047880.34	14047880.59	0.0142	0.0045 *
Moon	33750-09-13 08:38 G	14048249.62	14048249.86	14048250.11	0.0141	0.0022
Earth	33750-09-13 11:45 G	14048249.75	14048249.99	14048250.25	0.0141	0.0029 *
Earth	33751-09-18 06:14 G	14048619.61	14048619.76	14048619.93	0.0141	0.0107
Moon	33751-09-18 09:50 G	14048619.78	14048619.91	14048620.07	0.0141	0.0114 *
Venus	33751-10-09 07:55 G	14048640.75	14048640.83	14048640.94	0.0141	0.0127
Venus	33752-05-22 18:00 G	14048867.10	14048867.25	14048867.42	0.0140	0.0095
Venus	33753-01-04 04:05 G	14049093.48	14049093.67	14049093.87	0.0140	0.0062
Venus	33753-08-18 13:41 G	14049319.86	14049320.07	14049320.29	0.0140	0.0031
Venus	33754-04-01 23:17 G	14049546.25	14049546.47	14049546.69	0.0140	0.0002
Venus	33754-11-14 08:24 G	14049772.64	14049772.85	14049773.06	0.0139	0.0032
Venus	33755-06-28 17:17 G	14049999.04	14049999.22	14049999.43	0.0139	0.0064
Venus	33756-02-10 02:09 G	14050225.44	14050225.59	14050225.76	0.0139	0.0094
Venus	33756-09-23 10:48 G	14050451.87	14050451.95	14050452.06	0.0139	0.0124
Mercury	33767-03-16 00:00 G	14054277.45	14054277.50	14054277.55	0.0135	0.0129
Mercury	33767-06-12 06:29 G	14054365.67	14054365.77	14054365.90	0.0134	0.0104
Mercury	33767-09-08 13:26 G	14054453.91	14054454.06	14054454.21	0.0134	0.0080
Mercury	33767-12-05 19:55 G	14054542.16	14054542.33	14054542.50	0.0134	0.0055
Mercury	33768-03-03 02:24 G	14054630.43	14054630.60	14054630.78	0.0134	0.0032
Mars	33768-03-19 23:31 G	14054647.32	14054647.48	14054647.66	0.0134	0.0114
Mercury	33768-05-30 08:53 G	14054718.69	14054718.87	14054719.06	0.0134	0.0009

Mercury	33768-08-26 15:21 G	14054806.96	14054807.14	14054807.33	0.0134	0.0017
Mercury	33768-11-22 21:50 G	14054895.24	14054895.41	14054895.59	0.0134	0.0040
Mercury	33769-02-19 04:05 G	14054983.52	14054983.67	14054983.84	0.0134	0.0063
Mercury	33769-05-18 10:33 G	14055071.80	14055071.94	14055072.08	0.0134	0.0086
Mercury	33769-08-14 16:48 G	14055160.10	14055160.20	14055160.30	0.0134	0.0109
Mercury	33769-11-10 22:48 G	14055248.43	14055248.45	14055248.48	0.0134	0.0132
Earth	33793-03-06 20:38 G	14063765.20	14063765.36	14063765.57	0.0136	0.0093
Moon	33793-03-06 22:48 G	14063765.27	14063765.45	14063765.67	0.0136	0.0088 *
Moon	33794-03-11 07:12 G	14064134.56	14064134.80	14064135.05	0.0137	0.0023
Earth	33794-03-11 09:36 G	14064134.66	14064134.90	14064135.16	0.0137	0.0021 *
Earth	33795-03-15 22:48 G	14064504.22	14064504.45	14064504.69	0.0137	0.0052
Moon	33795-03-16 00:57 G	14064504.31	14064504.54	14064504.80	0.0137	0.0051 *
Venus	33795-10-03 12:57 G	14064706.01	14064706.04	14064706.12	0.0137	0.0133
Moon	33796-03-19 09:21 G	14064873.83	14064873.89	14064873.99	0.0138	0.0130
Earth	33796-03-19 12:14 G	14064873.92	14064874.01	14064874.14	0.0138	0.0125 *
Venus	33796-05-16 20:24 G	14064932.23	14064932.35	14064932.51	0.0138	0.0104
Venus	33796-12-29 04:19 G	14065158.50	14065158.68	14065158.87	0.0138	0.0074
Venus	33797-08-12 12:00 G	14065384.80	14065385.00	14065385.21	0.0138	0.0045
Venus	33798-03-26 19:55 G	14065611.11	14065611.33	14065611.55	0.0138	0.0014
Venus	33798-11-08 03:50 G	14065837.45	14065837.66	14065837.88	0.0139	0.0016
Venus	33799-06-22 12:00 G	14066063.80	14066064.00	14066064.20	0.0139	0.0046
Venus	33800-02-03 20:09 G	14066290.17	14066290.34	14066290.53	0.0139	0.0077
Venus	33800-09-18 04:48 G	14066516.57	14066516.70	14066516.84	0.0140	0.0108
Venus	33801-05-02 13:12 G	14066743.04	14066743.05	14066743.09	0.0140	0.0139
Mercury	33810-06-01 16:19 G	14070060.13	14070060.18	14070060.24	0.0144	0.0129
Mercury	33810-08-28 20:09 G	14070148.25	14070148.34	14070148.43	0.0144	0.0108
Mercury	33810-11-24 23:45 G	14070236.39	14070236.49	14070236.61	0.0144	0.0087
Mercury	33811-02-21 03:50 G	14070324.54	14070324.66	14070324.78	0.0144	0.0065
Mercury	33811-05-20 07:41 G	14070412.69	14070412.82	14070412.95	0.0144	0.0044
Mercury	33811-08-16 11:31 G	14070500.85	14070500.98	14070501.11	0.0144	0.0022

Mercury	33811-11-12 15:21 G	14070589.00	14070589.14	14070589.28	0.0144	0.0002
Mercury	33812-02-08 19:12 G	14070677.17	14070677.30	14070677.44	0.0144	0.0022
Mars	33812-04-28 18:00 G	14070756.96	14070757.25	14070757.54	0.0144	0.0019
Mercury	33812-05-06 23:02 G	14070765.34	14070765.46	14070765.60	0.0144	0.0045
Mercury	33812-08-03 03:07 G	14070853.51	14070853.63	14070853.76	0.0144	0.0066
Mercury	33812-10-30 07:12 G	14070941.69	14070941.80	14070941.91	0.0144	0.0088
Mercury	33813-01-26 11:17 G	14071029.88	14071029.97	14071030.06	0.0144	0.0111
Mercury	33813-04-24 15:07 G	14071118.09	14071118.13	14071118.19	0.0145	0.0134
Moon	33832-09-05 02:09 G	14078191.51	14078191.59	14078191.71	0.0142	0.0129
Earth	33832-09-05 04:33 G	14078191.61	14078191.69	14078191.82	0.0142	0.0130 *
Earth	33833-09-10 00:57 G	14078561.31	14078561.54	14078561.78	0.0142	0.0049
Moon	33833-09-10 03:36 G	14078561.42	14078561.65	14078561.90	0.0142	0.0053 *
Jupiter	33834-05-29 02:53 G	14078822.15	14078822.62	14078823.14	0.0141	0.0054
Moon	33834-09-14 17:02 G	14078930.97	14078931.21	14078931.45	0.0141	0.0038
Earth	33834-09-14 20:24 G	14078931.11	14078931.35	14078931.60	0.0141	0.0031 *
Venus	33835-06-09 14:09 G	14079199.08	14079199.09	14079199.13	0.0141	0.0140
Earth	33835-09-19 14:53 G	14079300.96	14079301.12	14079301.28	0.0141	0.0109
Moon	33835-09-19 17:45 G	14079301.08	14079301.24	14079301.43	0.0141	0.0102 *
Venus	33836-01-22 00:29 G	14079425.39	14079425.52	14079425.66	0.0141	0.0108
Venus	33836-09-04 10:05 G	14079651.75	14079651.92	14079652.12	0.0140	0.0077
Venus	33837-04-18 20:09 G	14079878.13	14079878.34	14079878.55	0.0140	0.0044
Venus	33837-12-01 05:45 G	14080104.52	14080104.74	14080104.96	0.0140	0.0013
Venus	33838-07-15 15:07 G	14080330.92	14080331.13	14080331.35	0.0140	0.0019
Venus	33839-02-27 00:00 G	14080557.31	14080557.50	14080557.72	0.0139	0.0050
Venus	33839-10-11 09:07 G	14080783.71	14080783.88	14080784.06	0.0139	0.0080
Venus	33840-05-24 17:31 G	14081010.12	14081010.23	14081010.38	0.0139	0.0111
Mercury	33851-04-06 06:57 G	14084978.72	14084978.79	14084978.86	0.0135	0.0123
Mercury	33851-07-03 13:26 G	14085066.95	14085067.06	14085067.20	0.0135	0.0099
Mercury	33851-09-29 20:09 G	14085155.19	14085155.34	14085155.50	0.0135	0.0074
Mercury	33851-12-27 02:53 G	14085243.45	14085243.62	14085243.79	0.0134	0.0050

Mercury	33852-03-24 09:36 G	14085331.71	14085331.90	14085332.08	0.0134	0.0026
Mercury	33852-06-20 16:05 G	14085419.98	14085420.17	14085420.35	0.0134	0.0003
Mercury	33852-09-16 22:19 G	14085508.25	14085508.43	14085508.62	0.0134	0.0023
Mars	33852-11-14 04:05 G	14085566.34	14085566.67	14085566.99	0.0134	0.0002
Mercury	33852-12-14 04:33 G	14085596.53	14085596.69	14085596.87	0.0134	0.0047
Mercury	33853-03-12 11:02 G	14085684.81	14085684.96	14085685.12	0.0134	0.0069
Mercury	33853-06-08 17:17 G	14085773.10	14085773.22	14085773.36	0.0134	0.0092
Mercury	33853-09-04 23:31 G	14085861.40	14085861.48	14085861.58	0.0134	0.0115
Earth	33877-03-08 09:07 G	14094446.70	14094446.88	14094447.09	0.0136	0.0087
Moon	33877-03-08 11:02 G	14094446.78	14094446.96	14094447.16	0.0136	0.0093 *
Moon	33878-03-12 20:38 G	14094816.11	14094816.36	14094816.60	0.0137	0.0013
Earth	33878-03-12 22:05 G	14094816.17	14094816.42	14094816.68	0.0137	0.0016 *
Earth	33879-03-17 11:02 G	14095185.74	14095185.96	14095186.20	0.0137	0.0057
Moon	33879-03-17 13:26 G	14095185.84	14095186.06	14095186.31	0.0137	0.0058 *
Venus	33880-01-16 06:57 G	14095490.68	14095490.79	14095490.92	0.0138	0.0114
Moon	33880-03-20 22:48 G	14095555.36	14095555.45	14095555.55	0.0138	0.0126
Earth	33880-03-21 00:29 G	14095555.46	14095555.52	14095555.62	0.0138	0.0130 *
Venus	33880-08-29 14:24 G	14095716.94	14095717.10	14095717.28	0.0138	0.0085
Venus	33881-04-12 22:05 G	14095943.22	14095943.42	14095943.62	0.0138	0.0055
Venus	33881-11-25 05:45 G	14096169.53	14096169.74	14096169.96	0.0138	0.0025
Venus	33882-07-09 13:41 G	14096395.86	14096396.07	14096396.29	0.0139	0.0006
Venus	33883-02-20 21:50 G	14096622.20	14096622.41	14096622.62	0.0139	0.0035
Venus	33883-10-05 05:45 G	14096848.57	14096848.74	14096848.95	0.0139	0.0067
Venus	33884-05-18 14:24 G	14097074.95	14097075.10	14097075.26	0.0139	0.0097
Venus	33884-12-30 22:48 G	14097301.38	14097301.45	14097301.55	0.0140	0.0128
Mercury	33894-03-25 20:09 G	14100673.34	14100673.34	14100673.36	0.0144	0.0143
Mercury	33894-06-22 00:00 G	14100761.43	14100761.50	14100761.57	0.0144	0.0122
Mercury	33894-09-18 03:50 G	14100849.57	14100849.66	14100849.76	0.0144	0.0101
Mercury	33894-12-15 07:26 G	14100937.71	14100937.81	14100937.93	0.0144	0.0080
Mercury	33895-03-13 11:31 G	14101025.85	14101025.98	14101026.10	0.0144	0.0058

Mercury	33895-06-09 15:07 G	14101114.01	14101114.13	14101114.27	0.0144	0.0037
Mercury	33895-09-05 19:12 G	14101202.16	14101202.30	14101202.43	0.0144	0.0015
Mercury	33895-12-02 23:02 G	14101290.32	14101290.46	14101290.60	0.0144	0.0007
Mercury	33896-02-29 02:53 G	14101378.49	14101378.62	14101378.76	0.0144	0.0029
Mercury	33896-05-27 06:43 G	14101466.66	14101466.78	14101466.92	0.0144	0.0051
Mercury	33896-08-23 10:48 G	14101554.83	14101554.95	14101555.07	0.0144	0.0073
Mercury	33896-11-19 14:53 G	14101643.02	14101643.12	14101643.22	0.0144	0.0096
Mercury	33897-02-15 18:43 G	14101731.21	14101731.28	14101731.36	0.0144	0.0118
Mercury	33897-05-14 22:48 G	14101819.43	14101819.45	14101819.48	0.0144	0.0141
Moon	33916-09-06 12:29 G	14108872.91	14108873.02	14108873.13	0.0142	0.0126
Earth	33916-09-06 14:09 G	14108872.99	14108873.09	14108873.21	0.0142	0.0126 *
Earth	33917-09-11 10:05 G	14109242.69	14109242.92	14109243.17	0.0142	0.0047
Moon	33917-09-11 12:57 G	14109242.79	14109243.04	14109243.29	0.0142	0.0042 *
Moon	33918-09-16 03:07 G	14109612.39	14109612.63	14109612.87	0.0141	0.0027
Earth	33918-09-16 05:31 G	14109612.49	14109612.73	14109612.98	0.0141	0.0033 *
Earth	33919-09-21 00:00 G	14109982.35	14109982.50	14109982.66	0.0141	0.0111
Moon	33919-09-21 02:53 G	14109982.50	14109982.62	14109982.78	0.0141	0.0119 *
Venus	33919-09-22 06:57 G	14109983.69	14109983.79	14109983.91	0.0141	0.0121
Venus	33920-05-05 16:48 G	14110210.04	14110210.20	14110210.38	0.0140	0.0089
Venus	33920-12-18 02:38 G	14110436.42	14110436.61	14110436.82	0.0140	0.0058
Venus	33921-08-01 12:29 G	14110662.81	14110663.02	14110663.24	0.0140	0.0026
Venus	33922-03-15 21:50 G	14110889.19	14110889.41	14110889.63	0.0140	0.0005
Venus	33922-10-28 06:57 G	14111115.58	14111115.79	14111116.00	0.0139	0.0037
Venus	33923-06-11 15:50 G	14111341.98	14111342.16	14111342.36	0.0139	0.0068
Venus	33924-01-24 00:29 G	14111568.39	14111568.52	14111568.69	0.0139	0.0098
Venus	33924-09-06 09:21 G	14111794.82	14111794.89	14111794.99	0.0139	0.0128
Mercury	33935-04-27 13:26 G	14115679.98	14115680.06	14115680.16	0.0135	0.0118
Mercury	33935-07-24 20:09 G	14115768.22	14115768.34	14115768.48	0.0135	0.0094
Mercury	33935-10-21 02:53 G	14115856.47	14115856.62	14115856.79	0.0135	0.0069
Mercury	33936-01-17 09:36 G	14115944.73	14115944.90	14115945.08	0.0134	0.0045

Mercury	33936-04-14 16:05 G	14116032.99	14116033.17	14116033.36	0.0134	0.0021
Mercury	33936-07-11 22:48 G	14116121.26	14116121.45	14116121.63	0.0134	0.0004
Mercury	33936-10-08 05:02 G	14116209.54	14116209.71	14116209.89	0.0134	0.0027
Mercury	33937-01-04 11:31 G	14116297.81	14116297.98	14116298.15	0.0134	0.0051
Mercury	33937-04-02 17:45 G	14116386.10	14116386.24	14116386.40	0.0134	0.0074
Mercury	33937-06-30 00:00 G	14116474.39	14116474.50	14116474.63	0.0134	0.0097
Mars	33937-07-11 05:02 G	14116485.58	14116485.71	14116485.91	0.0134	0.0115
Mercury	33937-09-26 06:14 G	14116562.69	14116562.76	14116562.85	0.0134	0.0120
Earth	33961-03-09 20:53 G	14125128.18	14125128.37	14125128.58	0.0136	0.0083
Moon	33961-03-09 21:50 G	14125128.20	14125128.41	14125128.64	0.0136	0.0078 *
Moon	33962-03-14 08:24 G	14125497.60	14125497.85	14125498.10	0.0137	0.0015
Earth	33962-03-14 09:50 G	14125497.66	14125497.91	14125498.17	0.0137	0.0012 *
Earth	33963-03-18 22:33 G	14125867.23	14125867.44	14125867.68	0.0137	0.0061
Moon	33963-03-19 00:00 G	14125867.27	14125867.50	14125867.75	0.0137	0.0061 *
Venus	33963-09-16 16:33 G	14126049.12	14126049.19	14126049.30	0.0137	0.0125
Earth	33964-03-22 12:29 G	14126236.98	14126237.02	14126237.09	0.0138	0.0134
Venus	33964-04-30 00:00 G	14126275.36	14126275.50	14126275.67	0.0138	0.0096
Venus	33964-12-12 07:41 G	14126501.64	14126501.82	14126502.02	0.0138	0.0066
Venus	33965-07-26 15:36 G	14126727.94	14126728.15	14126728.36	0.0138	0.0036
Venus	33966-03-09 23:31 G	14126954.26	14126954.48	14126954.70	0.0139	0.0006
Venus	33966-10-22 07:26 G	14127180.60	14127180.81	14127181.02	0.0139	0.0024
Venus	33967-06-05 15:36 G	14127406.95	14127407.15	14127407.35	0.0139	0.0054
Venus	33968-01-17 23:45 G	14127633.33	14127633.49	14127633.68	0.0139	0.0086
Venus	33968-08-31 08:24 G	14127859.74	14127859.85	14127859.98	0.0140	0.0116
Mercury	33978-04-16 03:50 G	14131374.63	14131374.66	14131374.71	0.0144	0.0136
Mercury	33978-07-13 07:41 G	14131462.75	14131462.82	14131462.91	0.0144	0.0115
Mercury	33978-10-09 11:17 G	14131550.88	14131550.97	14131551.08	0.0144	0.0094
Mercury	33979-01-05 15:21 G	14131639.02	14131639.14	14131639.26	0.0144	0.0072
Mercury	33979-04-03 19:12 G	14131727.17	14131727.30	14131727.43	0.0144	0.0051
Mercury	33979-06-30 23:02 G	14131815.33	14131815.46	14131815.59	0.0144	0.0029

Mars	33979-09-17 05:45 G	14131893.48	14131893.74	14131894.01	0.0144	0.0061
Mercury	33979-09-27 02:53 G	14131903.48	14131903.62	14131903.75	0.0144	0.0008
Mercury	33979-12-24 06:43 G	14131991.64	14131991.78	14131991.92	0.0144	0.0014
Mercury	33980-03-21 10:33 G	14132079.81	14132079.94	14132080.08	0.0144	0.0037
Mercury	33980-06-17 14:38 G	14132167.98	14132168.11	14132168.23	0.0144	0.0059
Mercury	33980-09-13 18:29 G	14132256.16	14132256.27	14132256.39	0.0144	0.0081
Mercury	33980-12-10 22:19 G	14132344.35	14132344.43	14132344.54	0.0144	0.0104
Mercury	33981-03-09 02:38 G	14132432.54	14132432.61	14132432.67	0.0144	0.0126
Moon	34000-09-07 00:29 G	14139554.42	14139554.52	14139554.65	0.0142	0.0124
Earth	34000-09-07 02:09 G	14139554.47	14139554.59	14139554.72	0.0142	0.0122 *

35TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 35th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	34001-09-11 21:50 G	14139924.17	14139924.41	14139924.66	0.0142	0.0042		
Moon	34001-09-11 23:31 G	14139924.24	14139924.48	14139924.73	0.0142	0.0045 *		
Moon	34002-09-16 14:38 G	14140293.88	14140294.11	14140294.35	0.0141	0.0044		
Earth	34002-09-16 17:02 G	14140293.97	14140294.21	14140294.46	0.0141	0.0037 *		
Venus	34003-05-22 14:53 G	14140542.06	14140542.12	14140542.20	0.0141	0.0133		
Earth	34003-09-21 11:02 G	14140663.83	14140663.96	14140664.12	0.0141	0.0116		
Moon	34003-09-21 13:26 G	14140663.91	14140664.06	14140664.24	0.0141	0.0108 *		
Venus	34004-01-04 00:43 G	14140768.40	14140768.53	14140768.70	0.0141	0.0102		
Venus	34004-08-17 10:48 G	14140994.77	14140994.95	14140995.15	0.0140	0.0070		

Venus	34005-03-31 20:24 G	14141221.15	14141221.35	14141221.57	0.0140	0.0038
Venus	34005-11-13 06:00 G	14141447.53	14141447.75	14141447.97	0.0140	0.0007
Venus	34006-06-27 15:21 G	14141673.92	14141674.14	14141674.36	0.0140	0.0025
Venus	34007-02-09 00:14 G	14141900.32	14141900.51	14141900.72	0.0139	0.0056
Venus	34007-09-23 09:07 G	14142126.72	14142126.88	14142127.06	0.0139	0.0086
Venus	34008-05-06 17:45 G	14142353.14	14142353.24	14142353.37	0.0139	0.0116
Mercury	34019-05-17 20:38 G	14146381.27	14146381.36	14146381.47	0.0135	0.0112
Mercury	34019-08-14 03:36 G	14146469.51	14146469.65	14146469.79	0.0135	0.0087
Mercury	34019-11-10 10:05 G	14146557.76	14146557.92	14146558.09	0.0135	0.0063
Mercury	34020-02-06 16:33 G	14146646.02	14146646.19	14146646.38	0.0134	0.0039
Mars	34020-04-02 12:14 G	14146701.76	14146702.01	14146702.30	0.0134	0.0076
Mercury	34020-05-04 23:17 G	14146734.29	14146734.47	14146734.66	0.0134	0.0014
Mercury	34020-08-01 05:45 G	14146822.56	14146822.74	14146822.93	0.0134	0.0010
Mercury	34020-10-28 12:14 G	14146910.83	14146911.01	14146911.19	0.0134	0.0033
Mercury	34021-01-24 18:29 G	14146999.11	14146999.27	14146999.44	0.0134	0.0057
Mercury	34021-04-23 00:57 G	14147087.40	14147087.54	14147087.69	0.0134	0.0080
Mercury	34021-07-20 07:26 G	14147175.69	14147175.81	14147175.92	0.0134	0.0104
Mercury	34021-10-16 13:41 G	14147264.01	14147264.07	14147264.12	0.0134	0.0127
Earth	34045-03-10 07:55 G	14155809.63	14155809.83	14155810.05	0.0136	0.0080
Moon	34045-03-10 08:24 G	14155809.65	14155809.85	14155810.06	0.0136	0.0086 *
Moon	34046-03-14 20:24 G	14156179.11	14156179.35	14156179.60	0.0137	0.0004
Earth	34046-03-14 20:38 G	14156179.11	14156179.36	14156179.62	0.0137	0.0008 *
Earth	34047-03-19 09:50 G	14156548.69	14156548.91	14156549.14	0.0137	0.0065
Moon	34047-03-19 11:02 G	14156548.73	14156548.96	14156549.20	0.0137	0.0065 *
Venus	34047-05-17 02:09 G	14156607.56	14156607.59	14156607.64	0.0137	0.0135
Venus	34047-12-29 09:36 G	14156833.77	14156833.90	14156834.05	0.0138	0.0106
Moon	34048-03-22 22:33 G	14156918.41	14156918.44	14156918.48	0.0138	0.0136
Venus	34048-08-11 17:02 G	14157060.04	14157060.21	14157060.40	0.0138	0.0077
Venus	34049-03-26 00:43 G	14157286.33	14157286.53	14157286.74	0.0138	0.0048
Venus	34049-11-07 08:38 G	14157512.64	14157512.86	14157513.07	0.0138	0.0018

Venus	34050-06-21 16:33 G	14157738.97	14157739.19	14157739.41	0.0139	0.0012
Venus	34051-02-03 00:43 G	14157965.33	14157965.53	14157965.74	0.0139	0.0043
Venus	34051-09-17 09:07 G	14158191.70	14158191.88	14158192.07	0.0139	0.0073
Venus	34052-04-30 17:17 G	14158418.09	14158418.22	14158418.38	0.0139	0.0104
Venus	34052-12-13 01:55 G	14158644.54	14158644.58	14158644.65	0.0140	0.0135
Mercury	34062-05-06 11:31 G	14162075.93	14162075.98	14162076.04	0.0144	0.0129
Mercury	34062-08-02 15:21 G	14162164.05	14162164.14	14162164.23	0.0144	0.0108
Mercury	34062-10-29 18:57 G	14162252.19	14162252.29	14162252.41	0.0144	0.0087
Mercury	34063-01-25 22:48 G	14162340.34	14162340.45	14162340.58	0.0144	0.0066
Mercury	34063-04-24 02:38 G	14162428.49	14162428.61	14162428.74	0.0144	0.0044
Mercury	34063-07-21 06:29 G	14162516.64	14162516.77	14162516.91	0.0144	0.0023
Mercury	34063-10-17 10:33 G	14162604.80	14162604.94	14162605.07	0.0144	0.0005
Mercury	34064-01-13 14:24 G	14162692.96	14162693.10	14162693.23	0.0144	0.0022
Mercury	34064-04-10 18:14 G	14162781.13	14162781.26	14162781.39	0.0144	0.0043
Mars	34064-05-12 10:48 G	14162812.70	14162812.95	14162813.22	0.0144	0.0069
Mercury	34064-07-07 22:05 G	14162869.30	14162869.42	14162869.55	0.0144	0.0066
Mercury	34064-10-04 01:55 G	14162957.48	14162957.58	14162957.70	0.0144	0.0089
Mercury	34064-12-31 06:00 G	14163045.67	14163045.75	14163045.84	0.0144	0.0111
Mercury	34065-03-29 10:05 G	14163133.87	14163133.92	14163133.98	0.0144	0.0133
Moon	34084-09-07 12:43 G	14170235.91	14170236.03	14170236.18	0.0142	0.0117
Earth	34084-09-07 13:41 G	14170235.93	14170236.07	14170236.21	0.0142	0.0118 *
Earth	34085-09-12 09:07 G	14170605.65	14170605.88	14170606.14	0.0142	0.0039
Moon	34085-09-12 10:48 G	14170605.70	14170605.95	14170606.21	0.0142	0.0036 *
Moon	34086-09-17 02:53 G	14170975.39	14170975.62	14170975.86	0.0141	0.0036
Earth	34086-09-17 04:05 G	14170975.44	14170975.67	14170975.92	0.0141	0.0041 *
Venus	34087-09-03 08:24 G	14171326.74	14171326.85	14171327.00	0.0141	0.0114
Earth	34087-09-21 22:19 G	14171345.30	14171345.43	14171345.57	0.0141	0.0119
Moon	34087-09-22 00:43 G	14171345.42	14171345.53	14171345.65	0.0141	0.0126 *
Venus	34088-04-16 18:43 G	14171553.10	14171553.28	14171553.46	0.0140	0.0082
Venus	34088-11-29 04:19 G	14171779.48	14171779.68	14171779.88	0.0140	0.0050

Venus	34089-07-13 13:55 G	14172005.86	14172006.08	14172006.30	0.0140	0.0019
Venus	34090-02-24 23:17 G	14172232.25	14172232.47	14172232.69	0.0140	0.0012
Venus	34090-10-09 08:09 G	14172458.64	14172458.84	14172459.06	0.0139	0.0043
Venus	34091-05-23 17:17 G	14172685.04	14172685.22	14172685.41	0.0139	0.0074
Venus	34092-01-05 01:55 G	14172911.45	14172911.58	14172911.73	0.0139	0.0104
Venus	34092-08-18 10:33 G	14173137.90	14173137.94	14173138.01	0.0139	0.0134
Mercury	34103-03-11 20:53 G	14176994.33	14176994.37	14176994.41	0.0135	0.0131
Mercury	34103-06-08 03:21 G	14177082.54	14177082.64	14177082.77	0.0135	0.0107
Mercury	34103-09-04 10:19 G	14177170.79	14177170.93	14177171.08	0.0135	0.0082
Mercury	34103-12-01 16:48 G	14177259.04	14177259.20	14177259.38	0.0134	0.0058
Mercury	34104-02-27 23:31 G	14177347.30	14177347.48	14177347.66	0.0134	0.0033
Mercury	34104-05-26 06:00 G	14177435.57	14177435.75	14177435.94	0.0134	0.0010
Mercury	34104-08-22 12:29 G	14177523.84	14177524.02	14177524.21	0.0134	0.0016
Mercury	34104-11-18 18:57 G	14177612.12	14177612.29	14177612.47	0.0134	0.0039
Mars	34104-11-27 16:33 G	14177620.88	14177621.19	14177621.50	0.0134	0.0039
Mercury	34105-02-15 01:26 G	14177700.40	14177700.56	14177700.72	0.0134	0.0062
Mercury	34105-05-14 07:26 G	14177788.69	14177788.81	14177788.97	0.0134	0.0086
Mercury	34105-08-10 13:55 G	14177876.99	14177877.08	14177877.19	0.0134	0.0109
Mercury	34105-11-06 20:09 G	14177965.32	14177965.34	14177965.38	0.0134	0.0132
Moon	34129-03-11 16:19 G	14186490.97	14186491.18	14186491.42	0.0137	0.0071
Earth	34129-03-11 16:48 G	14186491.01	14186491.20	14186491.43	0.0137	0.0078 *
Moon	34130-03-16 05:45 G	14186860.49	14186860.74	14186860.98	0.0137	0.0010
Earth	34130-03-16 05:45 G	14186860.49	14186860.74	14186861.00	0.0137	0.0005 *
Moon	34131-03-20 18:14 G	14187230.05	14187230.26	14187230.50	0.0137	0.0070
Earth	34131-03-20 18:29 G	14187230.06	14187230.27	14187230.50	0.0137	0.0067 *
Venus	34131-08-29 17:45 G	14187392.14	14187392.24	14187392.36	0.0138	0.0118
Venus	34132-04-12 01:12 G	14187618.39	14187618.55	14187618.72	0.0138	0.0089
Venus	34132-11-24 08:38 G	14187844.67	14187844.86	14187845.06	0.0138	0.0060
Venus	34133-07-08 16:19 G	14188070.98	14188071.18	14188071.40	0.0138	0.0031
Venus	34134-02-20 00:29 G	14188297.30	14188297.52	14188297.74	0.0139	0.0001

Venus	34134-10-04 08:24 G	14188523.64	14188523.85	14188524.07	0.0139	0.0031
Venus	34135-05-18 16:33 G	14188750.00	14188750.19	14188750.39	0.0139	0.0061
Venus	34135-12-31 00:57 G	14188976.39	14188976.54	14188976.72	0.0139	0.0092
Venus	34136-08-13 09:50 G	14189202.81	14189202.91	14189203.01	0.0140	0.0122
Mercury	34146-05-27 18:29 G	14192777.22	14192777.27	14192777.35	0.0144	0.0125
Mercury	34146-08-23 22:19 G	14192865.35	14192865.43	14192865.53	0.0144	0.0104
Mercury	34146-11-20 02:09 G	14192953.48	14192953.59	14192953.70	0.0144	0.0082
Mercury	34147-02-16 06:00 G	14193041.63	14193041.75	14193041.87	0.0144	0.0061
Mercury	34147-05-15 09:50 G	14193129.78	14193129.91	14193130.04	0.0144	0.0039
Mercury	34147-08-11 13:41 G	14193217.94	14193218.07	14193218.21	0.0144	0.0018
Mercury	34147-11-07 17:31 G	14193306.10	14193306.23	14193306.37	0.0144	0.0005
Mercury	34148-02-03 21:21 G	14193394.26	14193394.39	14193394.53	0.0144	0.0026
Mercury	34148-05-02 01:26 G	14193482.43	14193482.56	14193482.69	0.0144	0.0048
Mercury	34148-07-29 05:17 G	14193570.60	14193570.72	14193570.84	0.0144	0.0070
Mercury	34148-10-25 09:07 G	14193658.78	14193658.88	14193658.99	0.0144	0.0093
Mercury	34149-01-21 13:12 G	14193746.97	14193747.05	14193747.14	0.0144	0.0115
Mercury	34149-04-19 17:02 G	14193835.19	14193835.21	14193835.26	0.0144	0.0139
Earth	34168-09-09 00:00 G	14200917.37	14200917.50	14200917.66	0.0142	0.0115
Moon	34168-09-09 00:00 G	14200917.38	14200917.50	14200917.65	0.0142	0.0118 *
Earth	34169-09-13 19:55 G	14201287.08	14201287.33	14201287.58	0.0142	0.0035
Moon	34169-09-13 20:09 G	14201287.09	14201287.34	14201287.60	0.0142	0.0036 *
Moon	34170-09-18 13:26 G	14201656.84	14201657.06	14201657.30	0.0141	0.0050
Earth	34170-09-18 14:53 G	14201656.88	14201657.12	14201657.36	0.0141	0.0044 *
Venus	34171-05-04 16:05 G	14201885.08	14201885.17	14201885.28	0.0141	0.0126
Earth	34171-09-23 08:38 G	14202026.75	14202026.86	14202027.00	0.0141	0.0123
Moon	34171-09-23 09:36 G	14202026.78	14202026.90	14202027.08	0.0141	0.0116 *
Venus	34171-12-17 01:55 G	14202111.43	14202111.58	14202111.75	0.0141	0.0095
Venus	34172-07-30 12:00 G	14202337.81	14202338.00	14202338.20	0.0140	0.0063
Venus	34173-03-13 21:36 G	14202564.19	14202564.40	14202564.62	0.0140	0.0031
Venus	34173-10-26 06:57 G	14202790.57	14202790.79	14202791.01	0.0140	0.0002

Venus	34174-06-09 16:19 G	14203016.97	14203017.18	14203017.39	0.0140	0.0031
Venus	34175-01-22 01:26 G	14203243.36	14203243.56	14203243.75	0.0139	0.0062
Venus	34175-09-05 10:05 G	14203469.77	14203469.92	14203470.10	0.0139	0.0092
Venus	34176-04-18 18:57 G	14203696.20	14203696.29	14203696.40	0.0139	0.0122
Mercury	34187-04-01 03:50 G	14207695.60	14207695.66	14207695.73	0.0135	0.0125
Mercury	34187-06-28 10:19 G	14207783.82	14207783.93	14207784.07	0.0135	0.0101
Mercury	34187-09-24 17:17 G	14207872.07	14207872.22	14207872.38	0.0134	0.0076
Mercury	34187-12-21 23:45 G	14207960.33	14207960.49	14207960.67	0.0134	0.0052
Mercury	34188-03-19 06:29 G	14208048.59	14208048.77	14208048.96	0.0134	0.0027
Mercury	34188-06-15 13:12 G	14208136.86	14208137.05	14208137.23	0.0134	0.0003
Mercury	34188-09-11 19:41 G	14208225.14	14208225.32	14208225.50	0.0134	0.0021
Mercury	34188-12-09 01:55 G	14208313.41	14208313.58	14208313.76	0.0134	0.0045
Mercury	34189-03-07 08:24 G	14208401.70	14208401.85	14208402.01	0.0134	0.0068
Mercury	34189-06-03 14:38 G	14208489.99	14208490.11	14208490.25	0.0134	0.0092
Mercury	34189-08-30 20:53 G	14208578.29	14208578.37	14208578.47	0.0134	0.0115
Moon	34213-03-12 23:45 G	14217172.30	14217172.49	14217172.72	0.0136	0.0083
Earth	34213-03-13 00:57 G	14217172.35	14217172.54	14217172.77	0.0136	0.0076 *
Earth	34214-03-17 13:41 G	14217541.82	14217542.07	14217542.33	0.0137	0.0004
Moon	34214-03-17 14:53 G	14217541.88	14217542.12	14217542.37	0.0137	0.0002 *
Moon	34215-03-22 02:24 G	14217911.37	14217911.60	14217911.83	0.0137	0.0067
Earth	34215-03-22 02:24 G	14217911.39	14217911.60	14217911.83	0.0137	0.0069 *
Venus	34215-04-30 01:26 G	14217950.49	14217950.56	14217950.63	0.0137	0.0130
Venus	34215-12-12 08:53 G	14218176.72	14218176.87	14218177.01	0.0138	0.0101
Venus	34216-07-25 16:05 G	14218402.99	14218403.17	14218403.36	0.0138	0.0072
Venus	34217-03-08 23:31 G	14218629.29	14218629.48	14218629.70	0.0138	0.0043
Venus	34217-10-21 07:26 G	14218855.60	14218855.81	14218856.03	0.0138	0.0013
Venus	34218-06-04 15:21 G	14219081.93	14219082.14	14219082.36	0.0139	0.0018
Venus	34219-01-16 23:31 G	14219308.29	14219308.48	14219308.70	0.0139	0.0048
Venus	34219-08-31 07:55 G	14219534.66	14219534.83	14219535.02	0.0139	0.0078
Venus	34220-04-13 16:19 G	14219761.06	14219761.18	14219761.33	0.0139	0.0109

Venus	34220-11-26 01:12 G	14219987.54	14219987.55	14219987.56	0.0140	0.0139
Mercury	34230-03-21 21:36 G	14223390.40	14223390.40	14223390.42	0.0143	0.0143
Mercury	34230-06-18 01:26 G	14223478.49	14223478.56	14223478.63	0.0144	0.0122
Mercury	34230-09-14 05:02 G	14223566.62	14223566.71	14223566.81	0.0144	0.0101
Mercury	34230-12-11 08:53 G	14223654.76	14223654.87	14223654.99	0.0144	0.0080
Mercury	34231-03-09 12:43 G	14223742.91	14223743.03	14223743.16	0.0144	0.0058
Mercury	34231-06-05 16:33 G	14223831.06	14223831.19	14223831.32	0.0144	0.0036
Mercury	34231-09-01 20:24 G	14223919.22	14223919.35	14223919.49	0.0144	0.0015
Mars	34231-10-01 06:57 G	14223948.51	14223948.79	14223949.08	0.0144	0.0027
Mercury	34231-11-29 00:14 G	14224007.38	14224007.51	14224007.65	0.0144	0.0008
Mercury	34232-02-25 04:19 G	14224095.54	14224095.68	14224095.81	0.0144	0.0029
Mercury	34232-05-23 08:09 G	14224183.71	14224183.84	14224183.97	0.0144	0.0051
Mercury	34232-08-19 12:00 G	14224271.89	14224272.00	14224272.12	0.0144	0.0074
Mercury	34232-11-15 15:50 G	14224360.07	14224360.16	14224360.27	0.0144	0.0097
Mercury	34233-02-11 20:09 G	14224448.26	14224448.34	14224448.41	0.0144	0.0119
Mercury	34233-05-11 00:00 G	14224536.48	14224536.50	14224536.53	0.0144	0.0141
Earth	34252-09-10 07:12 G	14231598.67	14231598.80	14231598.96	0.0142	0.0114
Moon	34252-09-10 07:55 G	14231598.70	14231598.83	14231599.00	0.0142	0.0111 *
Moon	34253-09-15 03:07 G	14231968.38	14231968.63	14231968.89	0.0142	0.0033
Earth	34253-09-15 03:07 G	14231968.39	14231968.63	14231968.88	0.0142	0.0034 *
Earth	34254-09-19 22:05 G	14232338.19	14232338.42	14232338.67	0.0141	0.0046
Moon	34254-09-19 22:19 G	14232338.20	14232338.43	14232338.67	0.0141	0.0043 *
Venus	34255-01-02 21:36 G	14232443.39	14232443.40	14232443.43	0.0141	0.0140
Venus	34255-08-17 07:26 G	14232669.69	14232669.81	14232669.97	0.0141	0.0109
Earth	34255-09-24 16:05 G	14232708.07	14232708.17	14232708.30	0.0141	0.0124
Moon	34255-09-24 16:48 G	14232708.13	14232708.20	14232708.32	0.0141	0.0131 *
Venus	34256-03-30 17:45 G	14232896.06	14232896.24	14232896.42	0.0141	0.0077
Venus	34256-11-12 03:21 G	14233122.44	14233122.64	14233122.85	0.0140	0.0045
Venus	34257-06-26 12:57 G	14233348.83	14233349.04	14233349.26	0.0140	0.0014
Venus	34258-02-07 22:19 G	14233575.22	14233575.43	14233575.65	0.0140	0.0018

Venus	34258-09-22 07:26 G	14233801.61	14233801.81	14233802.02	0.0139	0.0048
Venus	34259-05-06 16:19 G	14234028.02	14234028.18	14234028.38	0.0139	0.0079
Venus	34259-12-19 01:12 G	14234254.43	14234254.55	14234254.70	0.0139	0.0109
Venus	34260-08-01 10:19 G	14234480.93	14234480.93	14234480.94	0.0139	0.0139
Mercury	34271-04-22 10:19 G	14238396.85	14238396.93	14238397.01	0.0135	0.0121
Mercury	34271-07-19 16:48 G	14238485.09	14238485.20	14238485.34	0.0135	0.0097
Mercury	34271-10-15 23:45 G	14238573.34	14238573.49	14238573.65	0.0134	0.0072
Mercury	34272-01-12 06:14 G	14238661.60	14238661.76	14238661.94	0.0134	0.0048
Mercury	34272-04-09 12:57 G	14238749.86	14238750.04	14238750.23	0.0134	0.0023
Mars	34272-04-15 22:05 G	14238756.12	14238756.42	14238756.74	0.0134	0.0042
Mercury	34272-07-06 19:41 G	14238838.13	14238838.32	14238838.50	0.0134	0.0002
Mercury	34272-10-03 02:09 G	14238926.41	14238926.59	14238926.77	0.0134	0.0025
Mercury	34272-12-30 08:24 G	14239014.69	14239014.85	14239015.03	0.0134	0.0049
Mercury	34273-03-28 14:38 G	14239102.97	14239103.11	14239103.28	0.0134	0.0073
Mercury	34273-06-24 21:07 G	14239191.27	14239191.38	14239191.52	0.0134	0.0096
Mercury	34273-09-21 03:36 G	14239279.57	14239279.65	14239279.74	0.0134	0.0119
Moon	34297-03-13 06:57 G	14247853.58	14247853.79	14247854.04	0.0136	0.0067
Earth	34297-03-13 09:07 G	14247853.69	14247853.88	14247854.12	0.0136	0.0074 *
Earth	34298-03-17 21:50 G	14248223.16	14248223.41	14248223.67	0.0137	0.0001
Moon	34298-03-17 23:17 G	14248223.22	14248223.47	14248223.72	0.0137	0.0007 *
Moon	34299-03-22 08:38 G	14248592.65	14248592.86	14248593.09	0.0137	0.0075
Earth	34299-03-22 10:19 G	14248592.73	14248592.93	14248593.16	0.0137	0.0072 *
Venus	34299-08-11 16:05 G	14248735.07	14248735.17	14248735.31	0.0137	0.0114
Venus	34300-03-25 23:31 G	14248961.32	14248961.48	14248961.66	0.0138	0.0085
Venus	34300-11-07 07:12 G	14249187.60	14249187.80	14249188.00	0.0138	0.0055
Venus	34301-06-21 14:53 G	14249413.91	14249414.12	14249414.34	0.0138	0.0026
Venus	34302-02-02 23:02 G	14249640.24	14249640.46	14249640.67	0.0138	0.0005
Venus	34302-09-17 06:57 G	14249866.58	14249866.79	14249867.00	0.0139	0.0034
Venus	34303-05-01 14:53 G	14250092.94	14250093.12	14250093.32	0.0139	0.0065
Venus	34303-12-13 23:17 G	14250319.32	14250319.47	14250319.64	0.0139	0.0095

Venus	34304-07-27 07:41 G	14250545.74	14250545.82	14250545.92	0.0139	0.0126
Mercury	34314-04-12 04:05 G	14254091.66	14254091.67	14254091.71	0.0143	0.0141
Mercury	34314-07-09 07:55 G	14254179.77	14254179.83	14254179.91	0.0143	0.0120
Mercury	34314-10-05 11:45 G	14254267.90	14254267.99	14254268.09	0.0144	0.0098
Mercury	34315-01-01 15:36 G	14254356.04	14254356.15	14254356.26	0.0144	0.0077
Mercury	34315-03-30 19:26 G	14254444.18	14254444.31	14254444.43	0.0144	0.0056
Mercury	34315-06-26 23:17 G	14254532.34	14254532.47	14254532.60	0.0144	0.0034
Mercury	34315-09-23 03:07 G	14254620.49	14254620.63	14254620.76	0.0144	0.0013
Mercury	34315-12-20 06:57 G	14254708.65	14254708.79	14254708.93	0.0144	0.0010
Mercury	34316-03-17 10:48 G	14254796.82	14254796.95	14254797.08	0.0144	0.0031
Mars	34316-05-27 01:55 G	14254867.38	14254867.58	14254867.82	0.0144	0.0095
Mercury	34316-06-13 14:38 G	14254884.99	14254885.11	14254885.24	0.0144	0.0054
Mercury	34316-09-09 18:29 G	14254973.16	14254973.27	14254973.40	0.0144	0.0077
Mercury	34316-12-06 22:33 G	14255061.35	14255061.44	14255061.54	0.0144	0.0098
Mercury	34317-03-05 02:24 G	14255149.54	14255149.60	14255149.68	0.0144	0.0121
Mercury	34317-06-01 06:43 G	14255237.77	14255237.78	14255237.79	0.0144	0.0143
Earth	34336-09-11 12:43 G	14262279.90	14262280.03	14262280.20	0.0142	0.0115
Moon	34336-09-11 14:24 G	14262279.98	14262280.10	14262280.25	0.0142	0.0119 *
Moon	34337-09-16 07:26 G	14262649.56	14262649.81	14262650.07	0.0142	0.0032
Earth	34337-09-16 08:53 G	14262649.63	14262649.87	14262650.12	0.0142	0.0034 *
Earth	34338-09-21 03:50 G	14263019.43	14263019.66	14263019.91	0.0141	0.0046
Moon	34338-09-21 04:05 G	14263019.45	14263019.67	14263019.91	0.0141	0.0051 *
Venus	34339-04-17 12:14 G	14263227.91	14263228.01	14263228.12	0.0141	0.0123
Moon	34339-09-25 21:21 G	14263389.27	14263389.39	14263389.55	0.0141	0.0119
Earth	34339-09-25 21:50 G	14263389.32	14263389.41	14263389.55	0.0141	0.0125 *
Venus	34339-11-29 22:05 G	14263454.27	14263454.42	14263454.60	0.0141	0.0092
Venus	34340-07-13 08:09 G	14263680.65	14263680.84	14263681.05	0.0140	0.0060
Venus	34341-02-24 18:00 G	14263907.04	14263907.25	14263907.47	0.0140	0.0029
Venus	34341-10-09 03:36 G	14264133.43	14264133.65	14264133.87	0.0140	0.0003
Venus	34342-05-23 12:57 G	14264359.83	14264360.04	14264360.25	0.0140	0.0034

Venus	34343-01-04 22:05 G	14264586.23	14264586.42	14264586.62	0.0139	0.0065
Venus	34343-08-19 07:12 G	14264812.65	14264812.80	14264812.97	0.0139	0.0095
Venus	34344-04-01 16:05 G	14265039.09	14265039.17	14265039.27	0.0139	0.0125
Mercury	34355-05-13 16:33 G	14269098.11	14269098.19	14269098.29	0.0135	0.0117
Mercury	34355-08-09 23:17 G	14269186.35	14269186.47	14269186.62	0.0135	0.0092
Mercury	34355-11-06 06:00 G	14269274.60	14269274.75	14269274.92	0.0135	0.0068
Mercury	34356-02-02 12:57 G	14269362.86	14269363.04	14269363.21	0.0135	0.0043
Mercury	34356-04-30 19:26 G	14269451.13	14269451.31	14269451.50	0.0134	0.0019
Mercury	34356-07-28 02:09 G	14269539.40	14269539.59	14269539.77	0.0134	0.0006
Mercury	34356-10-24 08:38 G	14269627.68	14269627.86	14269628.04	0.0134	0.0030
Mars	34356-12-10 23:31 G	14269675.23	14269675.48	14269675.78	0.0134	0.0074
Mercury	34357-01-20 15:07 G	14269715.96	14269716.13	14269716.30	0.0134	0.0053
Mercury	34357-04-18 21:21 G	14269804.25	14269804.39	14269804.55	0.0134	0.0077
Mercury	34357-07-16 03:50 G	14269892.54	14269892.66	14269892.78	0.0134	0.0100
Mercury	34357-10-12 09:50 G	14269980.86	14269980.91	14269981.00	0.0134	0.0124
Moon	34380-03-10 09:36 G	14278165.89	14278165.90	14278165.94	0.0136	0.0135
Moon	34381-03-14 16:19 G	14278534.98	14278535.18	14278535.41	0.0136	0.0077
Earth	34381-03-14 18:43 G	14278535.08	14278535.28	14278535.52	0.0136	0.0071 *
Earth	34382-03-19 07:12 G	14278904.55	14278904.80	14278905.06	0.0137	0.0003
Moon	34382-03-19 09:50 G	14278904.66	14278904.91	14278905.16	0.0137	0.0008 *
Moon	34383-03-23 18:14 G	14279274.05	14279274.26	14279274.50	0.0137	0.0070
Earth	34383-03-23 20:09 G	14279274.14	14279274.34	14279274.56	0.0137	0.0074 *
Venus	34383-04-12 00:57 G	14279293.46	14279293.54	14279293.64	0.0137	0.0124
Venus	34383-11-24 08:24 G	14279519.70	14279519.85	14279520.01	0.0137	0.0096
Venus	34384-07-07 15:36 G	14279745.97	14279746.15	14279746.35	0.0138	0.0067
Venus	34385-02-18 23:31 G	14279972.27	14279972.48	14279972.69	0.0138	0.0037
Venus	34385-10-03 07:12 G	14280198.59	14280198.80	14280199.02	0.0138	0.0008
Venus	34386-05-17 15:07 G	14280424.92	14280425.13	14280425.35	0.0138	0.0023
Venus	34386-12-29 23:17 G	14280651.28	14280651.47	14280651.68	0.0139	0.0053
Venus	34387-08-13 07:26 G	14280877.65	14280877.81	14280877.99	0.0139	0.0083

Venus	34388-03-26 15:50 G	14281104.04	14281104.16	14281104.29	0.0139	0.0113
Mercury	34398-05-02 11:31 G	14284792.94	14284792.98	14284793.02	0.0143	0.0136
Mercury	34398-07-29 15:07 G	14284881.05	14284881.13	14284881.21	0.0143	0.0115
Mercury	34398-10-25 18:57 G	14284969.19	14284969.29	14284969.39	0.0144	0.0094
Mercury	34399-01-21 22:33 G	14285057.33	14285057.44	14285057.56	0.0144	0.0073
Mars	34399-02-18 04:19 G	14285084.56	14285084.68	14285084.85	0.0144	0.0124
Mercury	34399-04-20 02:24 G	14285145.48	14285145.60	14285145.73	0.0144	0.0051
Mercury	34399-07-17 06:14 G	14285233.63	14285233.76	14285233.90	0.0144	0.0030
Mercury	34399-10-13 10:05 G	14285321.79	14285321.92	14285322.06	0.0144	0.0008
Mercury	34400-01-09 13:55 G	14285409.95	14285410.08	14285410.22	0.0144	0.0015
Mercury	34400-04-06 18:00 G	14285498.11	14285498.25	14285498.38	0.0144	0.0036
Mercury	34400-07-03 21:50 G	14285586.28	14285586.41	14285586.53	0.0144	0.0058
Mercury	34400-09-30 01:41 G	14285674.46	14285674.57	14285674.69	0.0144	0.0080
Mercury	34400-12-27 05:31 G	14285762.64	14285762.73	14285762.83	0.0144	0.0103
Mercury	34401-03-25 09:36 G	14285850.84	14285850.90	14285850.97	0.0144	0.0125
Earth	34420-09-11 19:26 G	14292961.17	14292961.31	14292961.48	0.0142	0.0113
Moon	34420-09-11 21:50 G	14292961.26	14292961.41	14292961.58	0.0142	0.0108 *
Moon	34421-09-16 13:41 G	14293330.82	14293331.07	14293331.33	0.0142	0.0034
Earth	34421-09-16 15:36 G	14293330.90	14293331.15	14293331.40	0.0142	0.0033 *
Earth	34422-09-21 10:19 G	14293700.70	14293700.93	14293701.18	0.0141	0.0047
Moon	34422-09-21 12:14 G	14293700.78	14293701.01	14293701.25	0.0141	0.0046 *
Venus	34422-12-15 16:48 G	14293786.18	14293786.20	14293786.26	0.0141	0.0138
Venus	34423-07-30 03:21 G	14294012.50	14294012.64	14294012.79	0.0141	0.0106
Moon	34423-09-26 04:05 G	14294070.57	14294070.67	14294070.77	0.0141	0.0130
Earth	34423-09-26 04:33 G	14294070.59	14294070.69	14294070.82	0.0141	0.0125 *
Venus	34424-03-12 13:12 G	14294238.87	14294239.05	14294239.24	0.0141	0.0075
Venus	34424-10-24 23:02 G	14294465.26	14294465.46	14294465.67	0.0140	0.0043
Venus	34425-06-08 08:53 G	14294691.65	14294691.87	14294692.09	0.0140	0.0012
Venus	34426-01-20 18:14 G	14294918.05	14294918.26	14294918.48	0.0140	0.0020
Venus	34426-09-04 03:36 G	14295144.45	14295144.65	14295144.86	0.0139	0.0051

Venus	34427-04-18 12:43 G	14295370.86	14295371.03	14295371.22	0.0139	0.0081
Venus	34427-11-30 21:50 G	14295597.29	14295597.41	14295597.55	0.0139	0.0111
Mercury	34439-06-02 22:48 G	14299799.36	14299799.45	14299799.55	0.0135	0.0114
Mercury	34439-08-30 05:31 G	14299887.60	14299887.73	14299887.87	0.0135	0.0089
Mars	34439-09-02 17:45 G	14299891.19	14299891.24	14299891.35	0.0135	0.0131
Mercury	34439-11-26 12:14 G	14299975.85	14299976.01	14299976.18	0.0135	0.0064
Mercury	34440-02-22 18:57 G	14300064.12	14300064.29	14300064.47	0.0135	0.0040
Mercury	34440-05-21 01:41 G	14300152.39	14300152.57	14300152.76	0.0134	0.0015
Mercury	34440-08-17 08:09 G	14300240.66	14300240.84	14300241.03	0.0134	0.0010
Mercury	34440-11-13 14:38 G	14300328.94	14300329.11	14300329.30	0.0134	0.0034
Mercury	34441-02-09 21:07 G	14300417.22	14300417.38	14300417.56	0.0134	0.0057
Mercury	34441-05-09 03:36 G	14300505.51	14300505.65	14300505.80	0.0134	0.0081
Mercury	34441-08-05 09:50 G	14300593.81	14300593.91	14300594.04	0.0134	0.0104
Mercury	34441-11-01 16:19 G	14300682.13	14300682.18	14300682.24	0.0134	0.0127
Moon	34465-03-15 01:26 G	14309216.34	14309216.56	14309216.81	0.0136	0.0061
Earth	34465-03-15 05:02 G	14309216.48	14309216.71	14309216.93	0.0136	0.0067 *
Earth	34466-03-19 17:17 G	14309585.97	14309586.22	14309586.48	0.0137	0.0005
Moon	34466-03-19 19:55 G	14309586.08	14309586.33	14309586.58	0.0137	0.0002 *
Venus	34466-12-10 09:50 G	14309851.89	14309851.91	14309851.96	0.0137	0.0135
Moon	34467-03-24 03:21 G	14309955.45	14309955.64	14309955.86	0.0137	0.0083
Earth	34467-03-24 06:29 G	14309955.57	14309955.77	14309955.99	0.0137	0.0078 *
Venus	34467-07-24 17:31 G	14310078.09	14310078.23	14310078.36	0.0137	0.0107
Venus	34468-03-07 00:43 G	14310304.36	14310304.53	14310304.72	0.0138	0.0078
Venus	34468-10-19 08:09 G	14310530.65	14310530.84	14310531.05	0.0138	0.0049
Venus	34469-06-02 16:05 G	14310756.96	14310757.17	14310757.39	0.0138	0.0019
Venus	34470-01-15 00:14 G	14310983.29	14310983.51	14310983.72	0.0138	0.0011
Venus	34470-08-29 08:09 G	14311209.64	14311209.84	14311210.05	0.0139	0.0041
Venus	34471-04-12 16:05 G	14311436.00	14311436.17	14311436.37	0.0139	0.0071
Venus	34471-11-25 00:29 G	14311662.38	14311662.52	14311662.67	0.0139	0.0101
Venus	34472-07-08 08:53 G	14311888.81	14311888.87	14311888.95	0.0139	0.0132

Mercury	34482-05-22 18:57 G	14315494.24	14315494.29	14315494.34	0.0143	0.0130
Mercury	34482-08-18 22:33 G	14315582.36	14315582.44	14315582.53	0.0143	0.0109
Mercury	34482-11-15 02:24 G	14315670.49	14315670.60	14315670.71	0.0143	0.0088
Mercury	34483-02-11 06:00 G	14315758.64	14315758.75	14315758.88	0.0144	0.0067
Mercury	34483-05-10 09:50 G	14315846.79	14315846.91	14315847.04	0.0144	0.0045
Mercury	34483-08-06 13:41 G	14315934.94	14315935.07	14315935.21	0.0144	0.0024
Mars	34483-10-14 06:29 G	14316003.48	14316003.77	14316004.06	0.0144	0.0005
Mercury	34483-11-02 17:31 G	14316023.10	14316023.23	14316023.37	0.0144	0.0004
Mercury	34484-01-29 21:21 G	14316111.26	14316111.39	14316111.53	0.0144	0.0021
Mercury	34484-04-27 01:12 G	14316199.43	14316199.55	14316199.69	0.0144	0.0043
Mercury	34484-07-24 05:17 G	14316287.60	14316287.72	14316287.84	0.0144	0.0064
Mercury	34484-10-20 09:07 G	14316375.77	14316375.88	14316375.99	0.0144	0.0087
Mercury	34485-01-16 12:57 G	14316463.96	14316464.04	14316464.14	0.0144	0.0109
Mercury	34485-04-14 16:48 G	14316552.16	14316552.20	14316552.27	0.0144	0.0133
Earth	34504-09-13 04:19 G	14323642.54	14323642.68	14323642.86	0.0142	0.0111
Moon	34504-09-13 07:12 G	14323642.68	14323642.80	14323642.95	0.0142	0.0117 *
Moon	34505-09-17 21:36 G	14324012.15	14324012.40	14324012.66	0.0142	0.0027
Earth	34505-09-18 00:29 G	14324012.27	14324012.52	14324012.77	0.0142	0.0031 *
Earth	34506-09-22 19:12 G	14324382.07	14324382.30	14324382.55	0.0141	0.0049
Moon	34506-09-22 21:07 G	14324382.16	14324382.38	14324382.62	0.0141	0.0051 *
Venus	34507-03-30 09:36 G	14324570.79	14324570.90	14324571.02	0.0141	0.0119
Moon	34507-09-27 11:31 G	14324751.87	14324751.98	14324752.12	0.0141	0.0123
Earth	34507-09-27 13:12 G	14324751.97	14324752.05	14324752.18	0.0141	0.0128 *
Venus	34507-11-11 19:41 G	14324797.16	14324797.32	14324797.50	0.0141	0.0088
Venus	34508-06-25 05:31 G	14325023.54	14325023.73	14325023.94	0.0140	0.0057
Venus	34509-02-06 15:36 G	14325249.93	14325250.15	14325250.36	0.0140	0.0025
Venus	34509-09-21 01:12 G	14325476.33	14325476.55	14325476.77	0.0140	0.0007
Venus	34510-05-05 10:33 G	14325702.73	14325702.94	14325703.15	0.0140	0.0038
Venus	34510-12-17 19:41 G	14325929.14	14325929.32	14325929.52	0.0139	0.0069
Venus	34511-08-01 04:48 G	14326155.56	14326155.70	14326155.87	0.0139	0.0099

Venus	34512-03-14 13:41 G	14326382.01	14326382.07	14326382.17	0.0139	0.0129
Mercury	34523-03-27 22:33 G	14330412.43	14330412.44	14330412.46	0.0135	0.0134
Mercury	34523-06-24 05:31 G	14330500.62	14330500.73	14330500.84	0.0135	0.0109
Mercury	34523-09-20 12:14 G	14330588.87	14330589.01	14330589.16	0.0135	0.0084
Mercury	34523-12-17 18:43 G	14330677.13	14330677.28	14330677.46	0.0135	0.0060
Mercury	34524-03-15 01:41 G	14330765.39	14330765.57	14330765.75	0.0135	0.0035
Mars	34524-04-28 22:48 G	14330810.14	14330810.45	14330810.79	0.0134	0.0013
Mercury	34524-06-11 08:24 G	14330853.66	14330853.85	14330854.03	0.0134	0.0010
Mercury	34524-09-07 14:53 G	14330941.94	14330942.12	14330942.31	0.0134	0.0014
Mercury	34524-12-04 21:21 G	14331030.22	14331030.39	14331030.57	0.0134	0.0038
Mercury	34525-03-03 03:50 G	14331118.51	14331118.66	14331118.83	0.0134	0.0062
Mercury	34525-05-30 10:19 G	14331206.80	14331206.93	14331207.08	0.0134	0.0086
Mercury	34525-08-26 16:33 G	14331295.10	14331295.19	14331295.31	0.0134	0.0110
Mercury	34525-11-22 23:02 G	14331383.44	14331383.46	14331383.50	0.0134	0.0132
Earth	34548-03-12 02:53 G	14339528.59	14339528.62	14339528.66	0.0136	0.0135
Moon	34548-03-12 06:00 G	14339528.70	14339528.75	14339528.84	0.0136	0.0130
Moon	34549-03-16 11:45 G	14339897.77	14339897.99	14339898.21	0.0136	0.0071
Earth	34549-03-16 14:53 G	14339897.90	14339898.12	14339898.35	0.0136	0.0064 *
Earth	34550-03-21 03:21 G	14340267.39	14340267.64	14340267.90	0.0137	0.0009
Moon	34550-03-21 06:43 G	14340267.54	14340267.78	14340268.04	0.0137	0.0016 *
Venus	34551-03-25 02:24 G	14340636.50	14340636.60	14340636.72	0.0137	0.0117
Moon	34551-03-25 13:55 G	14340636.87	14340637.08	14340637.30	0.0137	0.0076
Earth	34551-03-25 16:33 G	14340637.00	14340637.19	14340637.41	0.0137	0.0082 *
Venus	34551-11-06 09:50 G	14340862.75	14340862.91	14340863.08	0.0137	0.0089
Venus	34552-06-19 17:17 G	14341089.03	14341089.22	14341089.42	0.0138	0.0060
Venus	34553-02-01 01:12 G	14341315.34	14341315.55	14341315.76	0.0138	0.0030
Venus	34553-09-15 09:07 G	14341541.66	14341541.88	14341542.10	0.0138	0.0001
Venus	34554-04-29 16:48 G	14341768.00	14341768.20	14341768.42	0.0139	0.0030
Venus	34554-12-12 00:43 G	14341994.35	14341994.53	14341994.74	0.0139	0.0060
Venus	34555-07-26 09:21 G	14342220.72	14342220.89	14342221.05	0.0139	0.0089

Venus	34556-03-08 17:45 G	14342447.13	14342447.24	14342447.35	0.0139	0.0120
Mercury	34566-06-13 02:24 G	14346195.54	14346195.60	14346195.67	0.0143	0.0123
Mercury	34566-09-09 06:00 G	14346283.67	14346283.75	14346283.85	0.0143	0.0103
Mercury	34566-12-06 10:05 G	14346371.81	14346371.92	14346372.03	0.0144	0.0081
Mercury	34567-03-04 13:41 G	14346459.95	14346460.07	14346460.20	0.0144	0.0060
Mercury	34567-05-31 17:31 G	14346548.10	14346548.23	14346548.36	0.0144	0.0038
Mercury	34567-08-27 21:21 G	14346636.26	14346636.39	14346636.53	0.0144	0.0016
Mercury	34567-11-24 01:12 G	14346724.41	14346724.55	14346724.69	0.0144	0.0005
Mercury	34568-02-20 05:02 G	14346812.58	14346812.71	14346812.85	0.0144	0.0027
Mercury	34568-05-18 08:53 G	14346900.75	14346900.87	14346901.00	0.0144	0.0050
Mars	34568-06-09 09:21 G	14346922.84	14346922.89	14346923.00	0.0144	0.0138
Mercury	34568-08-14 12:43 G	14346988.92	14346989.03	14346989.16	0.0144	0.0072
Mercury	34568-11-10 16:33 G	14347077.10	14347077.19	14347077.30	0.0144	0.0094
Mercury	34569-02-06 20:38 G	14347165.29	14347165.36	14347165.45	0.0144	0.0116
Mercury	34569-05-06 00:29 G	14347253.50	14347253.52	14347253.57	0.0144	0.0139
Earth	34588-09-13 15:21 G	14354323.98	14354324.14	14354324.31	0.0142	0.0107
Moon	34588-09-13 18:14 G	14354324.11	14354324.26	14354324.46	0.0142	0.0101 *
Moon	34589-09-18 08:09 G	14354693.59	14354693.84	14354694.10	0.0142	0.0030
Earth	34589-09-18 11:02 G	14354693.72	14354693.96	14354694.22	0.0142	0.0027 *
Earth	34590-09-23 05:45 G	14355063.52	14355063.74	14355063.99	0.0141	0.0053
Moon	34590-09-23 08:53 G	14355063.64	14355063.87	14355064.10	0.0141	0.0053 *
Venus	34590-11-27 16:48 G	14355129.14	14355129.20	14355129.29	0.0141	0.0132
Venus	34591-07-12 03:21 G	14355355.49	14355355.64	14355355.79	0.0141	0.0100
Moon	34591-09-27 21:36 G	14355433.35	14355433.40	14355433.49	0.0141	0.0135
Earth	34591-09-28 00:00 G	14355433.42	14355433.50	14355433.60	0.0141	0.0131 *
Venus	34592-02-23 13:12 G	14355581.87	14355582.05	14355582.25	0.0140	0.0069
Venus	34592-10-06 23:02 G	14355808.25	14355808.46	14355808.67	0.0140	0.0037
Venus	34593-05-21 08:38 G	14356034.65	14356034.86	14356035.08	0.0140	0.0006
Venus	34594-01-02 18:00 G	14356261.05	14356261.25	14356261.48	0.0140	0.0026
Venus	34594-08-17 03:21 G	14356487.45	14356487.64	14356487.85	0.0139	0.0057

Venus	34595-03-31 12:43 G	14356713.87	14356714.03	14356714.21	0.0139	0.0087
Venus	34595-11-12 21:21 G	14356940.29	14356940.39	14356940.53	0.0139	0.0117
Mercury	34607-04-18 05:17 G	14361113.67	14361113.72	14361113.78	0.0135	0.0129
Mercury	34607-07-15 12:00 G	14361201.89	14361202.00	14361202.13	0.0135	0.0104
Mercury	34607-10-11 18:57 G	14361290.14	14361290.29	14361290.44	0.0135	0.0079
Mercury	34608-01-08 01:26 G	14361378.40	14361378.56	14361378.74	0.0135	0.0055
Mercury	34608-04-05 08:24 G	14361466.67	14361466.85	14361467.03	0.0134	0.0030
Mercury	34608-07-02 15:07 G	14361554.94	14361555.13	14361555.31	0.0134	0.0006
Mercury	34608-09-28 21:36 G	14361643.22	14361643.40	14361643.59	0.0134	0.0019
Mars	34608-12-24 02:53 G	14361729.43	14361729.62	14361729.84	0.0134	0.0106
Mercury	34608-12-26 04:05 G	14361731.50	14361731.67	14361731.85	0.0134	0.0043
Mercury	34609-03-24 10:19 G	14361819.79	14361819.93	14361820.10	0.0134	0.0068
Mercury	34609-06-20 17:02 G	14361908.08	14361908.21	14361908.35	0.0134	0.0090
Mercury	34609-09-16 23:17 G	14361996.39	14361996.47	14361996.58	0.0134	0.0114
Earth	34632-03-13 11:31 G	14370209.94	14370209.98	14370210.05	0.0136	0.0132
Moon	34633-03-17 20:09 G	14370579.12	14370579.34	14370579.58	0.0137	0.0056
Earth	34633-03-17 23:45 G	14370579.27	14370579.49	14370579.72	0.0137	0.0062 *
Earth	34634-03-22 12:43 G	14370948.77	14370949.03	14370949.28	0.0137	0.0011
Moon	34634-03-22 16:05 G	14370948.92	14370949.17	14370949.42	0.0137	0.0004 *
Venus	34634-11-23 10:19 G	14371194.88	14371194.93	14371195.03	0.0137	0.0130
Moon	34635-03-26 22:19 G	14371318.25	14371318.43	14371318.64	0.0137	0.0091
Earth	34635-03-27 02:09 G	14371318.39	14371318.59	14371318.80	0.0137	0.0084 *
Venus	34635-07-07 18:00 G	14371421.11	14371421.25	14371421.41	0.0137	0.0101
Venus	34636-02-19 01:26 G	14371647.39	14371647.56	14371647.76	0.0138	0.0072
Venus	34636-10-02 09:21 G	14371873.69	14371873.89	14371874.10	0.0138	0.0042
Venus	34637-05-16 17:02 G	14372100.00	14372100.21	14372100.43	0.0138	0.0013
Venus	34637-12-29 00:57 G	14372326.33	14372326.54	14372326.76	0.0138	0.0018
Venus	34638-08-12 09:07 G	14372552.68	14372552.88	14372553.09	0.0139	0.0047
Venus	34639-03-26 17:02 G	14372779.04	14372779.21	14372779.40	0.0139	0.0077
Venus	34639-11-08 01:12 G	14373005.43	14373005.55	14373005.70	0.0139	0.0108

Venus	34640-06-21 09:36 G	14373231.88	14373231.90	14373231.95	0.0140	0.0138
Mercury	34650-04-07 06:00 G	14376808.73	14376808.75	14376808.79	0.0143	0.0139
Mercury	34650-07-04 09:50 G	14376896.84	14376896.91	14376896.99	0.0143	0.0117
Mercury	34650-09-30 13:26 G	14376984.97	14376985.06	14376985.17	0.0143	0.0097
Mercury	34650-12-27 17:17 G	14377073.11	14377073.22	14377073.34	0.0144	0.0075
Mars	34651-03-04 16:33 G	14377139.95	14377140.19	14377140.43	0.0144	0.0080
Mercury	34651-03-25 21:07 G	14377161.26	14377161.38	14377161.51	0.0144	0.0054
Mercury	34651-06-22 00:57 G	14377249.41	14377249.54	14377249.67	0.0144	0.0032
Mercury	34651-09-18 04:48 G	14377337.56	14377337.70	14377337.83	0.0144	0.0011
Mercury	34651-12-15 08:38 G	14377425.72	14377425.86	14377425.99	0.0144	0.0011
Mercury	34652-03-12 12:29 G	14377513.89	14377514.02	14377514.15	0.0144	0.0033
Mercury	34652-06-08 16:19 G	14377602.05	14377602.18	14377602.31	0.0144	0.0055
Mercury	34652-09-04 20:09 G	14377690.23	14377690.34	14377690.46	0.0144	0.0078
Mercury	34652-12-02 00:00 G	14377778.41	14377778.50	14377778.61	0.0144	0.0100
Mercury	34653-02-28 04:05 G	14377866.60	14377866.67	14377866.74	0.0144	0.0122
Earth	34672-09-15 02:38 G	14385005.44	14385005.61	14385005.78	0.0142	0.0103
Moon	34672-09-15 05:31 G	14385005.60	14385005.73	14385005.91	0.0142	0.0111 *
Moon	34673-09-19 18:57 G	14385375.03	14385375.29	14385375.54	0.0142	0.0018
Earth	34673-09-19 22:19 G	14385375.18	14385375.43	14385375.68	0.0142	0.0023 *
Earth	34674-09-24 17:02 G	14385744.98	14385745.21	14385745.45	0.0141	0.0056
Moon	34674-09-24 19:41 G	14385745.11	14385745.32	14385745.56	0.0141	0.0057 *
Venus	34675-03-12 11:02 G	14385913.83	14385913.96	14385914.10	0.0141	0.0112
Moon	34675-09-29 07:55 G	14386114.76	14386114.83	14386114.94	0.0141	0.0132
Earth	34675-09-29 11:02 G	14386114.91	14386114.96	14386115.05	0.0141	0.0135 *
Venus	34675-10-24 20:53 G	14386140.20	14386140.37	14386140.56	0.0141	0.0081
Venus	34676-06-07 06:43 G	14386366.59	14386366.78	14386367.00	0.0140	0.0050
Venus	34677-01-19 16:48 G	14386592.98	14386593.20	14386593.42	0.0140	0.0018
Venus	34677-09-03 02:24 G	14386819.38	14386819.60	14386819.82	0.0140	0.0014
Venus	34678-04-17 11:31 G	14387045.78	14387045.98	14387046.20	0.0140	0.0045
Venus	34678-11-29 20:38 G	14387272.19	14387272.36	14387272.56	0.0139	0.0075

Venus	34679-07-14 05:45 G	14387498.61	14387498.74	14387498.90	0.0139	0.0105
Venus	34680-02-25 14:38 G	14387725.07	14387725.11	14387725.17	0.0139	0.0135
Mercury	34691-05-08 12:14 G	14391814.94	14391815.01	14391815.09	0.0135	0.0123
Mercury	34691-08-04 19:12 G	14391903.17	14391903.30	14391903.43	0.0135	0.0098
Mars	34691-09-16 00:00 G	14391945.30	14391945.50	14391945.75	0.0135	0.0097
Mercury	34691-11-01 01:41 G	14391991.43	14391991.57	14391991.74	0.0134	0.0074
Mercury	34692-01-28 08:38 G	14392079.69	14392079.86	14392080.04	0.0134	0.0048
Mercury	34692-04-25 15:07 G	14392167.96	14392168.13	14392168.32	0.0134	0.0025
Mercury	34692-07-22 22:05 G	14392256.23	14392256.42	14392256.60	0.0134	0.0003
Mercury	34692-10-19 04:33 G	14392344.51	14392344.69	14392344.87	0.0134	0.0025
Mercury	34693-01-15 11:02 G	14392432.79	14392432.96	14392433.13	0.0134	0.0049
Mercury	34693-04-13 17:31 G	14392521.08	14392521.23	14392521.39	0.0134	0.0072
Mercury	34693-07-10 23:45 G	14392609.38	14392609.49	14392609.63	0.0134	0.0096
Mercury	34693-10-07 06:14 G	14392697.69	14392697.76	14392697.85	0.0134	0.0119
Earth	34716-03-14 19:55 G	14400891.26	14400891.33	14400891.40	0.0136	0.0131
Moon	34716-03-14 23:02 G	14400891.39	14400891.46	14400891.56	0.0136	0.0127 *
Moon	34717-03-19 04:05 G	14401260.46	14401260.67	14401260.91	0.0136	0.0067
Earth	34717-03-19 07:55 G	14401260.61	14401260.83	14401261.07	0.0136	0.0060 *
Jupiter	34717-12-28 04:48 G	14401544.42	14401544.70	14401545.06	0.0137	0.0105
Earth	34718-03-23 20:38 G	14401630.11	14401630.36	14401630.62	0.0137	0.0013
Moon	34718-03-24 00:14 G	14401630.27	14401630.51	14401630.77	0.0137	0.0020 *
Venus	34719-03-08 01:26 G	14401979.46	14401979.56	14401979.70	0.0137	0.0113
Moon	34719-03-28 06:29 G	14401999.58	14401999.77	14401999.99	0.0137	0.0079
Earth	34719-03-28 10:05 G	14401999.73	14401999.92	14402000.13	0.0137	0.0085 *
Venus	34719-10-20 08:53 G	14402205.71	14402205.87	14402206.06	0.0138	0.0084
Venus	34720-06-02 16:33 G	14402432.00	14402432.19	14402432.40	0.0138	0.0055
Venus	34721-01-15 00:29 G	14402658.31	14402658.52	14402658.73	0.0138	0.0025
Venus	34721-08-29 08:09 G	14402884.63	14402884.84	14402885.06	0.0138	0.0005
Venus	34722-04-12 15:50 G	14403110.96	14403111.16	14403111.38	0.0139	0.0035
Venus	34722-11-25 00:00 G	14403337.31	14403337.50	14403337.70	0.0139	0.0064

Venus	34723-07-09 08:09 G	14403563.69	14403563.84	14403564.01	0.0139	0.0094
Venus	34724-02-20 16:19 G	14403790.11	14403790.18	14403790.30	0.0139	0.0125
Mercury	34734-04-28 12:57 G	14407510.00	14407510.04	14407510.09	0.0143	0.0135
Mercury	34734-07-25 16:48 G	14407598.12	14407598.20	14407598.28	0.0143	0.0114
Mercury	34734-10-21 20:24 G	14407686.25	14407686.35	14407686.46	0.0144	0.0093
Mercury	34735-01-18 00:14 G	14407774.40	14407774.51	14407774.63	0.0144	0.0071
Mercury	34735-04-16 04:05 G	14407862.54	14407862.67	14407862.80	0.0144	0.0050
Mercury	34735-07-13 07:55 G	14407950.69	14407950.83	14407950.96	0.0144	0.0029
Mercury	34735-10-09 11:45 G	14408038.85	14408038.99	14408039.12	0.0144	0.0008
Mars	34735-10-29 11:31 G	14408058.71	14408058.98	14408059.26	0.0144	0.0045
Mercury	34736-01-05 15:36 G	14408127.01	14408127.15	14408127.28	0.0144	0.0015
Mercury	34736-04-02 19:26 G	14408215.18	14408215.31	14408215.44	0.0144	0.0037
Mercury	34736-06-29 23:17 G	14408303.35	14408303.47	14408303.59	0.0144	0.0059
Mercury	34736-09-26 03:07 G	14408391.52	14408391.63	14408391.74	0.0144	0.0081
Mercury	34736-12-23 06:57 G	14408479.70	14408479.79	14408479.89	0.0144	0.0104
Mercury	34737-03-21 11:02 G	14408567.90	14408567.96	14408568.03	0.0144	0.0126
Earth	34756-09-16 12:00 G	14415686.84	14415687.00	14415687.20	0.0142	0.0101
Moon	34756-09-16 15:50 G	14415686.98	14415687.16	14415687.36	0.0142	0.0093 *
Moon	34757-09-21 04:33 G	14416056.44	14416056.69	14416056.95	0.0142	0.0025
Earth	34757-09-21 08:09 G	14416056.59	14416056.84	14416057.09	0.0142	0.0020 *
Earth	34758-09-26 03:07 G	14416426.40	14416426.63	14416426.86	0.0141	0.0059
Moon	34758-09-26 06:43 G	14416426.55	14416426.78	14416427.01	0.0141	0.0062 *
Venus	34758-11-10 17:45 G	14416472.16	14416472.24	14416472.36	0.0141	0.0125
Venus	34759-06-25 04:19 G	14416698.52	14416698.68	14416698.84	0.0141	0.0093
Moon	34759-09-30 18:00 G	14416796.25	14416796.25	14416796.28	0.0141	0.0140
Earth	34759-09-30 21:07 G	14416796.35	14416796.38	14416796.44	0.0141	0.0138
Venus	34760-02-06 14:09 G	14416924.90	14416925.09	14416925.29	0.0140	0.0062
Venus	34760-09-20 00:00 G	14417151.29	14417151.50	14417151.72	0.0140	0.0030
Venus	34761-05-04 09:36 G	14417377.69	14417377.90	14417378.12	0.0140	0.0003
Venus	34761-12-16 19:12 G	14417604.09	14417604.30	14417604.51	0.0140	0.0032

Venus	34762-07-31 04:19 G	14417830.50	14417830.68	14417830.89	0.0139	0.0063
Venus	34763-03-14 13:41 G	14418056.91	14418057.07	14418057.23	0.0139	0.0093
Venus	34763-10-26 22:33 G	14418283.34	14418283.44	14418283.54	0.0139	0.0122
Mercury	34775-05-29 18:57 G	14422516.21	14422516.29	14422516.38	0.0135	0.0118
Mercury	34775-08-26 01:55 G	14422604.44	14422604.58	14422604.71	0.0135	0.0093
Mercury	34775-11-22 08:24 G	14422692.70	14422692.85	14422693.02	0.0134	0.0068
Mercury	34776-02-18 15:21 G	14422780.96	14422781.14	14422781.32	0.0134	0.0043
Mars	34776-05-12 06:14 G	14422864.45	14422864.76	14422865.09	0.0134	0.0024
Mercury	34776-05-16 21:50 G	14422869.23	14422869.41	14422869.60	0.0134	0.0020
Mercury	34776-08-13 04:33 G	14422957.51	14422957.69	14422957.88	0.0134	0.0006
Mercury	34776-11-09 11:17 G	14423045.79	14423045.97	14423046.15	0.0134	0.0029
Mercury	34777-02-05 17:45 G	14423134.07	14423134.24	14423134.41	0.0134	0.0053
Mercury	34777-05-05 00:00 G	14423222.36	14423222.50	14423222.66	0.0134	0.0077
Mercury	34777-08-01 06:43 G	14423310.66	14423310.78	14423310.90	0.0134	0.0101
Mercury	34777-10-28 12:43 G	14423398.98	14423399.03	14423399.11	0.0134	0.0124
Earth	34800-03-15 02:53 G	14431572.55	14431572.62	14431572.71	0.0136	0.0129
Moon	34800-03-15 06:14 G	14431572.73	14431572.76	14431572.83	0.0136	0.0133
Moon	34801-03-19 11:45 G	14431941.76	14431941.99	14431942.23	0.0136	0.0054
Earth	34801-03-19 14:53 G	14431941.90	14431942.12	14431942.36	0.0136	0.0059 *
Earth	34802-03-24 03:36 G	14432311.40	14432311.65	14432311.91	0.0137	0.0014
Moon	34802-03-24 07:26 G	14432311.55	14432311.81	14432312.06	0.0137	0.0007 *
Venus	34802-11-05 08:38 G	14432537.78	14432537.86	14432537.96	0.0137	0.0124
Moon	34803-03-28 12:57 G	14432680.88	14432681.04	14432681.25	0.0137	0.0094
Earth	34803-03-28 16:48 G	14432681.02	14432681.20	14432681.41	0.0137	0.0087 *
Venus	34803-06-19 15:36 G	14432764.02	14432764.15	14432764.32	0.0137	0.0097
Venus	34804-01-31 23:17 G	14432990.29	14432990.47	14432990.67	0.0138	0.0068
Venus	34804-09-14 06:57 G	14433216.59	14433216.79	14433217.00	0.0138	0.0038
Venus	34805-04-28 14:38 G	14433442.90	14433443.11	14433443.33	0.0138	0.0009
Venus	34805-12-10 22:19 G	14433669.22	14433669.43	14433669.65	0.0138	0.0021
Venus	34806-07-25 06:14 G	14433895.56	14433895.76	14433895.97	0.0139	0.0050

Venus	34807-03-08 14:24 G	14434121.93	14434122.10	14434122.28	0.0139	0.0080
Venus	34807-10-20 22:19 G	14434348.32	14434348.43	14434348.58	0.0139	0.0111
Mercury	34818-05-18 19:41 G	14438211.27	14438211.32	14438211.37	0.0143	0.0133
Mercury	34818-08-14 23:17 G	14438299.39	14438299.47	14438299.56	0.0144	0.0112
Mercury	34818-11-11 03:07 G	14438387.53	14438387.63	14438387.73	0.0144	0.0091
Mercury	34819-02-07 06:43 G	14438475.67	14438475.78	14438475.90	0.0144	0.0070
Mercury	34819-05-06 10:33 G	14438563.82	14438563.94	14438564.07	0.0144	0.0048
Mercury	34819-08-02 14:24 G	14438651.97	14438652.10	14438652.23	0.0144	0.0027
Mercury	34819-10-29 18:14 G	14438740.12	14438740.26	14438740.40	0.0144	0.0005
Mercury	34820-01-25 22:05 G	14438828.28	14438828.42	14438828.55	0.0144	0.0017
Mercury	34820-04-23 01:55 G	14438916.45	14438916.58	14438916.71	0.0144	0.0039
Mercury	34820-07-20 05:45 G	14439004.62	14439004.74	14439004.87	0.0144	0.0061
Mercury	34820-10-16 09:36 G	14439092.79	14439092.90	14439093.02	0.0144	0.0083
Mercury	34821-01-12 13:41 G	14439180.98	14439181.07	14439181.16	0.0144	0.0106
Mercury	34821-04-10 17:31 G	14439269.17	14439269.23	14439269.29	0.0144	0.0128
Earth	34840-09-16 19:12 G	14446368.13	14446368.30	14446368.49	0.0142	0.0099
Moon	34840-09-16 22:48 G	14446368.30	14446368.45	14446368.63	0.0142	0.0107 *
Moon	34841-09-21 11:45 G	14446737.74	14446737.99	14446738.24	0.0142	0.0013
Earth	34841-09-21 15:21 G	14446737.89	14446738.14	14446738.39	0.0142	0.0019 *
Venus	34842-07-10 23:31 G	14447030.44	14447030.48	14447030.52	0.0141	0.0139
Earth	34842-09-26 10:05 G	14447107.71	14447107.92	14447108.16	0.0141	0.0061
Moon	34842-09-26 13:55 G	14447107.85	14447108.08	14447108.31	0.0141	0.0059 *
Venus	34843-02-22 09:36 G	14447256.77	14447256.90	14447257.05	0.0141	0.0107
Moon	34843-10-01 00:57 G	14447477.51	14447477.54	14447477.60	0.0141	0.0138
Earth	34843-10-01 04:48 G	14447477.67	14447477.70	14447477.74	0.0141	0.0139
Venus	34843-10-06 19:41 G	14447483.15	14447483.32	14447483.51	0.0141	0.0076
Venus	34844-05-20 05:31 G	14447709.53	14447709.73	14447709.95	0.0140	0.0045
Venus	34845-01-01 15:36 G	14447935.93	14447936.15	14447936.37	0.0140	0.0013
Venus	34845-08-16 01:12 G	14448162.34	14448162.55	14448162.77	0.0140	0.0018
Venus	34846-03-30 10:33 G	14448388.74	14448388.94	14448389.15	0.0140	0.0049

Venus	34846-11-11 19:41 G	14448615.15	14448615.32	14448615.50	0.0139	0.0079
Venus	34847-06-26 04:48 G	14448841.57	14448841.70	14448841.84	0.0139	0.0109
Venus	34848-02-07 13:41 G	14449068.07	14449068.07	14449068.08	0.0139	0.0139
Mercury	34859-06-19 01:12 G	14453217.47	14453217.55	14453217.67	0.0135	0.0114
Mercury	34859-09-15 08:09 G	14453305.71	14453305.84	14453305.99	0.0135	0.0089
Mercury	34859-12-12 15:07 G	14453393.97	14453394.13	14453394.30	0.0135	0.0064
Mercury	34860-03-09 21:50 G	14453482.24	14453482.41	14453482.59	0.0134	0.0039
Mercury	34860-06-06 04:33 G	14453570.51	14453570.69	14453570.88	0.0134	0.0015
Mercury	34860-09-02 11:17 G	14453658.78	14453658.97	14453659.15	0.0134	0.0010
Mercury	34860-11-29 17:45 G	14453747.06	14453747.24	14453747.42	0.0134	0.0034
Mercury	34861-02-26 00:00 G	14453835.35	14453835.50	14453835.68	0.0134	0.0059
Mercury	34861-05-25 06:43 G	14453923.64	14453923.78	14453923.93	0.0134	0.0082
Mercury	34861-08-21 12:57 G	14454011.94	14454012.04	14454012.16	0.0134	0.0105
Mercury	34861-11-17 19:26 G	14454100.27	14454100.31	14454100.37	0.0134	0.0128
Earth	34884-03-15 11:02 G	14462253.88	14462253.96	14462254.05	0.0136	0.0127
Moon	34884-03-15 13:26 G	14462253.99	14462254.06	14462254.18	0.0136	0.0126 *
Moon	34885-03-19 19:26 G	14462623.11	14462623.31	14462623.55	0.0136	0.0063
Earth	34885-03-19 23:02 G	14462623.23	14462623.46	14462623.70	0.0136	0.0057 *
Earth	34886-03-24 11:31 G	14462992.73	14462992.98	14462993.24	0.0137	0.0016
Moon	34886-03-24 14:53 G	14462992.87	14462993.12	14462993.38	0.0137	0.0022 *
Venus	34886-07-05 16:19 G	14463096.17	14463096.18	14463096.21	0.0137	0.0136
Venus	34887-02-16 23:17 G	14463322.36	14463322.47	14463322.62	0.0137	0.0108
Moon	34887-03-28 21:21 G	14463362.19	14463362.39	14463362.60	0.0137	0.0081
Earth	34887-03-29 00:29 G	14463362.34	14463362.52	14463362.73	0.0137	0.0088 *
Venus	34887-10-01 06:43 G	14463548.61	14463548.78	14463548.96	0.0137	0.0080
Venus	34888-05-14 14:09 G	14463774.89	14463775.09	14463775.30	0.0138	0.0051
Venus	34888-12-26 21:50 G	14464001.20	14464001.41	14464001.62	0.0138	0.0022
Venus	34889-08-10 05:31 G	14464227.51	14464227.73	14464227.94	0.0138	0.0008
Venus	34890-03-24 12:57 G	14464453.84	14464454.04	14464454.26	0.0138	0.0038
Venus	34890-11-05 20:53 G	14464680.19	14464680.37	14464680.57	0.0139	0.0067

Venus	34891-06-20 05:17 G	14464906.56	14464906.72	14464906.87	0.0139	0.0096
Venus	34892-02-01 13:26 G	14465132.98	14465133.06	14465133.16	0.0139	0.0126
Mercury	34902-06-09 02:24 G	14468912.54	14468912.60	14468912.65	0.0143	0.0131
Mercury	34902-09-05 06:00 G	14469000.67	14469000.75	14469000.83	0.0144	0.0110
Mercury	34902-12-02 09:36 G	14469088.80	14469088.90	14469089.01	0.0144	0.0089
Mercury	34903-02-28 13:26 G	14469176.94	14469177.06	14469177.18	0.0144	0.0068
Mars	34903-03-18 05:02 G	14469194.44	14469194.71	14469194.97	0.0144	0.0058
Mercury	34903-05-27 17:02 G	14469265.09	14469265.21	14469265.34	0.0144	0.0047
Mercury	34903-08-23 20:53 G	14469353.24	14469353.37	14469353.51	0.0144	0.0025
Mercury	34903-11-20 00:43 G	14469441.40	14469441.53	14469441.67	0.0144	0.0004
Mercury	34904-02-16 04:33 G	14469529.56	14469529.69	14469529.83	0.0144	0.0019
Mercury	34904-05-14 08:24 G	14469617.72	14469617.85	14469617.98	0.0144	0.0041
Mercury	34904-08-10 12:14 G	14469705.89	14469706.01	14469706.14	0.0144	0.0063
Mercury	34904-11-06 16:05 G	14469794.07	14469794.17	14469794.29	0.0144	0.0085
Mercury	34905-02-02 20:09 G	14469882.25	14469882.34	14469882.43	0.0144	0.0107
Mercury	34905-05-02 00:00 G	14469970.45	14469970.50	14469970.56	0.0144	0.0130
Earth	34924-09-18 01:12 G	14477049.38	14477049.55	14477049.74	0.0142	0.0099
Moon	34924-09-18 04:05 G	14477049.50	14477049.67	14477049.89	0.0142	0.0092 *
Moon	34925-09-22 17:45 G	14477419.00	14477419.24	14477419.49	0.0142	0.0025
Earth	34925-09-22 21:21 G	14477419.14	14477419.39	14477419.65	0.0142	0.0019 *
Earth	34926-09-27 16:19 G	14477788.97	14477789.18	14477789.42	0.0141	0.0062
Moon	34926-09-27 20:09 G	14477789.12	14477789.34	14477789.57	0.0141	0.0065 *
Venus	34926-10-23 13:55 G	14477814.99	14477815.08	14477815.21	0.0141	0.0122
Venus	34927-06-07 00:29 G	14478041.36	14478041.52	14478041.69	0.0141	0.0090
Moon	34927-10-02 07:26 G	14478158.81	14478158.81	14478158.83	0.0141	0.0141
Earth	34927-10-02 10:48 G	14478158.94	14478158.95	14478159.00	0.0141	0.0140
Venus	34928-01-19 10:33 G	14478267.75	14478267.94	14478268.14	0.0141	0.0059
Venus	34928-09-01 20:24 G	14478494.14	14478494.35	14478494.57	0.0140	0.0028
Venus	34929-04-16 06:14 G	14478720.54	14478720.76	14478720.98	0.0140	0.0004
Venus	34929-11-28 15:36 G	14478946.94	14478947.15	14478947.37	0.0140	0.0035

Venus	34930-07-13 00:57 G	14479173.36	14479173.54	14479173.74	0.0140	0.0065
Venus	34931-02-24 10:05 G	14479399.77	14479399.92	14479400.09	0.0139	0.0096
Venus	34931-10-08 18:57 G	14479626.21	14479626.29	14479626.40	0.0139	0.0125
Mercury	34943-07-10 07:26 G	14483918.72	14483918.81	14483918.93	0.0135	0.0111
Mars	34943-09-29 00:43 G	14483999.26	14483999.53	14483999.84	0.0135	0.0066
Mercury	34943-10-06 14:24 G	14484006.96	14484007.10	14484007.25	0.0135	0.0086
Mercury	34944-01-02 21:07 G	14484095.22	14484095.38	14484095.56	0.0135	0.0061
Mercury	34944-03-31 04:05 G	14484183.49	14484183.67	14484183.85	0.0135	0.0036
Mercury	34944-06-27 10:48 G	14484271.76	14484271.95	14484272.13	0.0134	0.0012
Mercury	34944-09-23 17:17 G	14484360.04	14484360.22	14484360.41	0.0134	0.0013
Mercury	34944-12-20 23:45 G	14484448.32	14484448.49	14484448.67	0.0134	0.0037
Mercury	34945-03-19 06:14 G	14484536.61	14484536.76	14484536.93	0.0134	0.0061
Mercury	34945-06-15 12:57 G	14484624.90	14484625.04	14484625.18	0.0134	0.0085
Mercury	34945-09-11 19:12 G	14484713.20	14484713.30	14484713.41	0.0134	0.0108
Mercury	34945-12-09 01:41 G	14484801.54	14484801.57	14484801.61	0.0134	0.0132
Earth	34968-03-16 19:41 G	14492935.24	14492935.32	14492935.43	0.0136	0.0125
Moon	34968-03-16 22:48 G	14492935.36	14492935.45	14492935.54	0.0136	0.0126 *
Moon	34969-03-21 05:31 G	14493304.50	14493304.73	14493304.96	0.0136	0.0051
Earth	34969-03-21 07:41 G	14493304.60	14493304.82	14493305.07	0.0136	0.0054 *
Earth	34970-03-25 20:24 G	14493674.10	14493674.35	14493674.60	0.0137	0.0018
Moon	34970-03-25 23:17 G	14493674.22	14493674.47	14493674.74	0.0137	0.0012 *
Venus	34970-10-18 07:12 G	14493880.72	14493880.80	14493880.93	0.0137	0.0120
Moon	34971-03-30 06:14 G	14494043.60	14494043.76	14494043.94	0.0137	0.0099
Earth	34971-03-30 09:36 G	14494043.71	14494043.90	14494044.09	0.0137	0.0091 *
Venus	34971-06-01 14:38 G	14494106.96	14494107.11	14494107.28	0.0137	0.0092
Venus	34972-01-13 22:19 G	14494333.24	14494333.43	14494333.62	0.0138	0.0063
Venus	34972-08-27 05:45 G	14494559.53	14494559.74	14494559.95	0.0138	0.0034
Venus	34973-04-10 13:12 G	14494785.84	14494786.05	14494786.27	0.0138	0.0005
Venus	34973-11-22 20:53 G	14495012.16	14495012.37	14495012.59	0.0138	0.0024
Venus	34974-07-07 04:48 G	14495238.50	14495238.70	14495238.90	0.0139	0.0054

Venus	34975-02-18 12:43 G	14495464.87	14495465.03	14495465.21	0.0139	0.0084
Venus	34975-10-02 21:07 G	14495691.26	14495691.38	14495691.51	0.0139	0.0113
Mercury	34986-06-29 09:21 G	14499613.83	14499613.89	14499613.95	0.0143	0.0127
Mercury	34986-09-25 12:57 G	14499701.95	14499702.04	14499702.13	0.0144	0.0106
Mercury	34986-12-22 16:48 G	14499790.09	14499790.20	14499790.30	0.0144	0.0085
Mercury	34987-03-20 20:24 G	14499878.23	14499878.35	14499878.47	0.0144	0.0064
Mercury	34987-06-17 00:00 G	14499966.38	14499966.50	14499966.64	0.0144	0.0043
Mercury	34987-09-13 03:50 G	14500054.53	14500054.66	14500054.80	0.0144	0.0021
Mars	34987-11-11 00:57 G	14500113.30	14500113.54	14500113.81	0.0144	0.0069
Mercury	34987-12-10 07:41 G	14500142.69	14500142.82	14500142.96	0.0144	0.0004
Mercury	34988-03-07 11:31 G	14500230.85	14500230.98	14500231.12	0.0144	0.0023
Mercury	34988-06-03 15:21 G	14500319.01	14500319.14	14500319.27	0.0144	0.0045
Mercury	34988-08-30 19:12 G	14500407.18	14500407.30	14500407.43	0.0144	0.0067
Mercury	34988-11-26 23:02 G	14500495.36	14500495.46	14500495.57	0.0144	0.0089
Mercury	34989-02-23 03:07 G	14500583.55	14500583.63	14500583.72	0.0144	0.0111
Mercury	34989-05-22 06:57 G	14500671.75	14500671.79	14500671.84	0.0144	0.0134

36TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 36th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	35008-09-19 08:38 G		14507730.69	14507730.86	14507731.05	0.0142	0.0098	
Moon	35008-09-19 11:31 G		14507730.83	14507730.98	14507731.18	0.0142	0.0106	*
Moon	35009-09-24 01:55 G		14508100.33	14508100.58	14508100.83	0.0142	0.0010	

Earth	35009-09-24 04:48 G	14508100.45	14508100.70	14508100.96	0.0142	0.0018 *
Venus	35010-06-23 19:41 G	14508373.27	14508373.32	14508373.38	0.0141	0.0135
Earth	35010-09-29 00:00 G	14508470.27	14508470.50	14508470.73	0.0141	0.0062
Moon	35010-09-29 03:21 G	14508470.41	14508470.64	14508470.88	0.0141	0.0059 *
Venus	35011-02-05 05:45 G	14508599.61	14508599.74	14508599.90	0.0141	0.0104
Venus	35011-09-19 15:50 G	14508825.99	14508826.16	14508826.36	0.0141	0.0073
Venus	35012-05-03 01:55 G	14509052.38	14509052.58	14509052.79	0.0141	0.0041
Venus	35012-12-15 11:45 G	14509278.77	14509278.99	14509279.21	0.0140	0.0010
Venus	35013-07-29 21:21 G	14509505.18	14509505.39	14509505.61	0.0140	0.0021
Venus	35014-03-13 06:43 G	14509731.58	14509731.78	14509731.99	0.0140	0.0052
Venus	35014-10-25 16:05 G	14509957.99	14509958.17	14509958.35	0.0139	0.0082
Venus	35015-06-09 00:57 G	14510184.42	14510184.54	14510184.68	0.0139	0.0112
Mercury	35027-05-04 06:57 G	14514531.76	14514531.79	14514531.84	0.0135	0.0132
Mercury	35027-07-31 13:55 G	14514619.97	14514620.08	14514620.20	0.0135	0.0107
Mercury	35027-10-27 20:38 G	14514708.22	14514708.36	14514708.52	0.0135	0.0082
Mercury	35028-01-24 03:36 G	14514796.48	14514796.65	14514796.82	0.0135	0.0057
Mercury	35028-04-21 10:19 G	14514884.75	14514884.93	14514885.11	0.0135	0.0032
Mars	35028-05-25 04:48 G	14514918.40	14514918.70	14514919.00	0.0135	0.0054
Mercury	35028-07-18 17:02 G	14514973.02	14514973.21	14514973.40	0.0135	0.0008
Mercury	35028-10-14 23:45 G	14515061.30	14515061.49	14515061.67	0.0134	0.0017
Mercury	35029-01-11 06:14 G	14515149.59	14515149.76	14515149.94	0.0134	0.0041
Mercury	35029-04-09 12:43 G	14515237.87	14515238.03	14515238.19	0.0134	0.0065
Mercury	35029-07-06 19:12 G	14515326.17	14515326.30	14515326.44	0.0134	0.0089
Mercury	35029-10-03 01:26 G	14515414.47	14515414.56	14515414.67	0.0134	0.0112
Earth	35052-03-18 05:17 G	14523616.63	14523616.72	14523616.85	0.0136	0.0123
Moon	35052-03-18 07:12 G	14523616.69	14523616.80	14523616.92	0.0136	0.0122 *
Moon	35053-03-22 15:07 G	14523985.91	14523986.13	14523986.36	0.0136	0.0055
Earth	35053-03-22 17:17 G	14523986.00	14523986.22	14523986.47	0.0136	0.0052 *
Earth	35054-03-27 06:00 G	14524355.50	14524355.75	14524356.01	0.0137	0.0021
Moon	35054-03-27 08:09 G	14524355.59	14524355.84	14524356.11	0.0137	0.0027 *

Venus	35054-06-18 16:05 G	14524439.12	14524439.17	14524439.25	0.0137	0.0131
Venus	35055-01-30 23:31 G	14524665.35	14524665.48	14524665.63	0.0137	0.0103
Moon	35055-03-31 16:19 G	14524725.00	14524725.18	14524725.38	0.0137	0.0087
Earth	35055-03-31 18:43 G	14524725.11	14524725.28	14524725.48	0.0137	0.0094 *
Venus	35055-09-14 06:43 G	14524891.61	14524891.78	14524891.97	0.0137	0.0074
Venus	35056-04-27 14:09 G	14525117.89	14525118.09	14525118.30	0.0138	0.0046
Venus	35056-12-09 21:36 G	14525344.19	14525344.40	14525344.62	0.0138	0.0017
Venus	35057-07-24 05:17 G	14525570.51	14525570.72	14525570.94	0.0138	0.0013
Venus	35058-03-07 13:12 G	14525796.85	14525797.05	14525797.26	0.0138	0.0042
Venus	35058-10-19 21:07 G	14526023.20	14526023.38	14526023.57	0.0139	0.0072
Venus	35059-06-03 05:02 G	14526249.58	14526249.71	14526249.87	0.0139	0.0102
Venus	35060-01-15 13:41 G	14526476.01	14526476.07	14526476.15	0.0139	0.0131
Mercury	35070-04-23 12:43 G	14530227.03	14530227.03	14530227.06	0.0143	0.0143
Mercury	35070-07-20 16:33 G	14530315.13	14530315.19	14530315.27	0.0143	0.0121
Mercury	35070-10-16 20:09 G	14530403.25	14530403.34	14530403.44	0.0144	0.0101
Mercury	35071-01-13 00:00 G	14530491.39	14530491.50	14530491.62	0.0144	0.0079
Mercury	35071-04-11 03:50 G	14530579.54	14530579.66	14530579.78	0.0144	0.0058
Mercury	35071-07-08 07:26 G	14530667.68	14530667.81	14530667.95	0.0144	0.0037
Mercury	35071-10-04 11:17 G	14530755.84	14530755.97	14530756.11	0.0144	0.0015
Mercury	35071-12-31 15:07 G	14530843.99	14530844.13	14530844.27	0.0144	0.0007
Mercury	35072-03-28 18:57 G	14530932.16	14530932.29	14530932.42	0.0144	0.0029
Mercury	35072-06-24 22:48 G	14531020.32	14531020.45	14531020.58	0.0144	0.0051
Mercury	35072-09-21 02:38 G	14531108.49	14531108.61	14531108.73	0.0144	0.0073
Mercury	35072-12-18 06:29 G	14531196.67	14531196.77	14531196.88	0.0144	0.0095
Mercury	35073-03-16 10:33 G	14531284.86	14531284.94	14531285.02	0.0144	0.0118
Mercury	35073-06-12 14:24 G	14531373.07	14531373.10	14531373.13	0.0144	0.0140
Earth	35092-09-19 18:43 G	14538412.10	14538412.28	14538412.47	0.0142	0.0095
Moon	35092-09-19 20:53 G	14538412.17	14538412.37	14538412.58	0.0142	0.0088 *
Moon	35093-09-24 11:45 G	14538781.75	14538781.99	14538782.24	0.0142	0.0021
Earth	35093-09-24 14:38 G	14538781.86	14538782.11	14538782.36	0.0142	0.0014 *

Earth	35094-09-29 09:36 G	14539151.68	14539151.90	14539152.13	0.0141	0.0065
Moon	35094-09-29 12:43 G	14539151.81	14539152.03	14539152.26	0.0141	0.0071 *
Venus	35094-10-05 12:29 G	14539157.92	14539158.02	14539158.16	0.0141	0.0117
Venus	35095-05-19 23:02 G	14539384.28	14539384.46	14539384.63	0.0141	0.0085
Venus	35096-01-01 08:53 G	14539610.67	14539610.87	14539611.07	0.0141	0.0054
Venus	35096-08-14 18:43 G	14539837.07	14539837.28	14539837.50	0.0140	0.0023
Venus	35097-03-29 04:33 G	14540063.47	14540063.69	14540063.90	0.0140	0.0008
Venus	35097-11-10 13:41 G	14540289.87	14540290.07	14540290.29	0.0140	0.0039
Venus	35098-06-24 22:48 G	14540516.28	14540516.45	14540516.66	0.0140	0.0070
Venus	35099-02-06 07:55 G	14540742.70	14540742.83	14540743.00	0.0139	0.0100
Venus	35099-09-20 16:48 G	14540969.14	14540969.20	14540969.30	0.0139	0.0129
Mercury	35111-05-25 13:26 G	14545233.01	14545233.06	14545233.13	0.0135	0.0128
Mercury	35111-08-21 20:09 G	14545321.24	14545321.34	14545321.48	0.0135	0.0103
Mercury	35111-11-18 03:07 G	14545409.49	14545409.63	14545409.79	0.0135	0.0078
Mercury	35112-02-14 10:05 G	14545497.75	14545497.92	14545498.09	0.0135	0.0053
Mercury	35112-05-12 16:48 G	14545586.02	14545586.20	14545586.39	0.0135	0.0028
Mercury	35112-08-08 23:31 G	14545674.30	14545674.48	14545674.67	0.0134	0.0003
Mercury	35112-11-05 06:00 G	14545762.57	14545762.75	14545762.94	0.0134	0.0022
Mercury	35113-02-01 12:43 G	14545850.86	14545851.03	14545851.21	0.0134	0.0045
Mercury	35113-04-30 19:12 G	14545939.15	14545939.30	14545939.46	0.0134	0.0069
Mercury	35113-07-28 01:26 G	14546027.44	14546027.56	14546027.71	0.0134	0.0094
Mercury	35113-10-24 08:09 G	14546115.76	14546115.84	14546115.93	0.0134	0.0117
Earth	35136-03-19 14:09 G	14554297.99	14554298.09	14554298.23	0.0136	0.0121
Moon	35136-03-19 16:05 G	14554298.05	14554298.17	14554298.30	0.0136	0.0120 *
Moon	35137-03-24 01:12 G	14554667.33	14554667.55	14554667.80	0.0137	0.0048
Earth	35137-03-24 02:38 G	14554667.37	14554667.61	14554667.85	0.0137	0.0049 *
Earth	35138-03-28 14:53 G	14555036.88	14555037.12	14555037.38	0.0137	0.0024
Moon	35138-03-28 17:02 G	14555036.95	14555037.21	14555037.47	0.0137	0.0018 *
Venus	35138-10-01 07:41 G	14555223.72	14555223.82	14555223.96	0.0137	0.0114
Moon	35139-04-02 01:55 G	14555406.44	14555406.58	14555406.76	0.0137	0.0104

Earth	35139-04-02 04:05 G	14555406.50	14555406.67	14555406.86	0.0137	0.0097 *
Venus	35139-05-15 15:07 G	14555449.97	14555450.13	14555450.30	0.0137	0.0086
Venus	35139-12-27 22:19 G	14555676.25	14555676.43	14555676.64	0.0138	0.0058
Venus	35140-08-10 06:00 G	14555902.54	14555902.75	14555902.97	0.0138	0.0029
Venus	35141-03-24 13:41 G	14556128.86	14556129.07	14556129.29	0.0138	0.0002
Venus	35141-11-05 21:21 G	14556355.18	14556355.39	14556355.61	0.0138	0.0030
Venus	35142-06-20 05:17 G	14556581.53	14556581.72	14556581.92	0.0139	0.0060
Venus	35143-02-01 13:26 G	14556807.91	14556808.06	14556808.24	0.0139	0.0090
Venus	35143-09-15 21:50 G	14557034.31	14557034.41	14557034.53	0.0139	0.0119
Mercury	35154-05-14 20:24 G	14560928.32	14560928.35	14560928.39	0.0143	0.0136
Mercury	35154-08-11 00:00 G	14561016.43	14561016.50	14561016.58	0.0143	0.0116
Mercury	35154-11-07 03:36 G	14561104.56	14561104.65	14561104.76	0.0144	0.0095
Mercury	35155-02-03 07:26 G	14561192.70	14561192.81	14561192.93	0.0144	0.0073
Mars	35155-04-01 12:14 G	14561249.73	14561250.01	14561250.30	0.0144	0.0019
Mercury	35155-05-02 11:17 G	14561280.84	14561280.97	14561281.10	0.0144	0.0052
Mercury	35155-07-29 14:53 G	14561369.00	14561369.12	14561369.26	0.0144	0.0031
Mercury	35155-10-25 18:43 G	14561457.15	14561457.28	14561457.42	0.0144	0.0010
Mercury	35156-01-21 22:33 G	14561545.31	14561545.44	14561545.58	0.0144	0.0014
Mercury	35156-04-19 02:24 G	14561633.47	14561633.60	14561633.73	0.0144	0.0035
Mercury	35156-07-16 06:14 G	14561721.64	14561721.76	14561721.89	0.0144	0.0057
Mercury	35156-10-12 10:05 G	14561809.81	14561809.92	14561810.04	0.0144	0.0080
Mercury	35157-01-08 13:55 G	14561897.99	14561898.08	14561898.18	0.0144	0.0102
Mercury	35157-04-06 18:00 G	14561986.19	14561986.25	14561986.32	0.0144	0.0124
Earth	35176-09-21 06:14 G	14569093.57	14569093.76	14569093.96	0.0142	0.0091
Moon	35176-09-21 08:24 G	14569093.67	14569093.85	14569094.04	0.0142	0.0098 *
Moon	35177-09-26 00:14 G	14569463.26	14569463.51	14569463.75	0.0142	0.0004
Earth	35177-09-26 02:09 G	14569463.34	14569463.59	14569463.84	0.0142	0.0011 *
Venus	35178-06-05 20:24 G	14569716.27	14569716.35	14569716.45	0.0141	0.0129
Earth	35178-09-30 20:53 G	14569833.15	14569833.37	14569833.60	0.0141	0.0069
Moon	35178-09-30 23:31 G	14569833.26	14569833.48	14569833.72	0.0141	0.0065 *

Venus	35179-01-18 06:43 G	14569942.63	14569942.78	14569942.94	0.0141	0.0097
Venus	35179-09-01 16:48 G	14570169.01	14570169.20	14570169.40	0.0141	0.0066
Venus	35180-04-15 02:38 G	14570395.40	14570395.61	14570395.82	0.0140	0.0035
Venus	35180-11-27 12:14 G	14570621.80	14570622.01	14570622.23	0.0140	0.0005
Venus	35181-07-11 21:50 G	14570848.20	14570848.41	14570848.63	0.0140	0.0027
Venus	35182-02-23 06:57 G	14571074.61	14571074.79	14571075.00	0.0140	0.0058
Venus	35182-10-07 16:19 G	14571301.02	14571301.18	14571301.36	0.0139	0.0088
Venus	35183-05-22 01:12 G	14571527.44	14571527.55	14571527.68	0.0139	0.0117
Mercury	35195-06-14 20:24 G	14575934.28	14575934.35	14575934.44	0.0135	0.0122
Mercury	35195-09-11 03:07 G	14576022.51	14576022.63	14576022.77	0.0135	0.0097
Mars	35195-10-12 03:36 G	14576053.33	14576053.65	14576053.97	0.0135	0.0033
Mercury	35195-12-08 10:05 G	14576110.77	14576110.92	14576111.09	0.0135	0.0072
Mercury	35196-03-05 17:02 G	14576199.03	14576199.21	14576199.38	0.0135	0.0047
Mercury	35196-06-01 23:45 G	14576287.30	14576287.49	14576287.67	0.0134	0.0022
Mercury	35196-08-29 06:29 G	14576375.58	14576375.77	14576375.95	0.0134	0.0003
Mercury	35196-11-25 12:57 G	14576463.86	14576464.04	14576464.23	0.0134	0.0027
Mercury	35197-02-21 19:41 G	14576552.15	14576552.32	14576552.49	0.0134	0.0051
Mercury	35197-05-21 02:09 G	14576640.44	14576640.59	14576640.74	0.0134	0.0075
Mercury	35197-08-17 08:38 G	14576728.74	14576728.86	14576728.98	0.0134	0.0098
Mercury	35197-11-13 14:53 G	14576817.06	14576817.12	14576817.20	0.0134	0.0122
Earth	35220-03-19 23:02 G	14584979.36	14584979.46	14584979.61	0.0136	0.0118
Moon	35220-03-19 23:02 G	14584979.37	14584979.46	14584979.61	0.0136	0.0121 *
Moon	35221-03-24 10:19 G	14585348.71	14585348.93	14585349.16	0.0137	0.0049
Earth	35221-03-24 11:17 G	14585348.74	14585348.97	14585349.22	0.0137	0.0047 *
Earth	35222-03-28 23:45 G	14585718.25	14585718.49	14585718.75	0.0137	0.0026
Moon	35222-03-29 00:43 G	14585718.28	14585718.53	14585718.79	0.0137	0.0030 *
Venus	35222-05-31 15:50 G	14585782.09	14585782.16	14585782.26	0.0137	0.0125
Venus	35223-01-12 23:02 G	14586008.33	14586008.46	14586008.63	0.0137	0.0098
Moon	35223-04-02 11:02 G	14586087.80	14586087.96	14586088.16	0.0137	0.0094
Earth	35223-04-02 12:29 G	14586087.86	14586088.02	14586088.21	0.0137	0.0099 *

Venus	35223-08-27 06:43 G	14586234.59	14586234.78	14586234.97	0.0138	0.0069
Venus	35224-04-09 14:09 G	14586460.88	14586461.09	14586461.29	0.0138	0.0040
Venus	35224-11-21 21:36 G	14586687.18	14586687.40	14586687.62	0.0138	0.0011
Venus	35225-07-06 05:17 G	14586913.51	14586913.72	14586913.94	0.0138	0.0018
Venus	35226-02-17 13:12 G	14587139.85	14587140.05	14587140.26	0.0139	0.0048
Venus	35226-10-01 21:07 G	14587366.21	14587366.38	14587366.57	0.0139	0.0078
Venus	35227-05-16 05:31 G	14587592.60	14587592.73	14587592.87	0.0139	0.0107
Venus	35227-12-28 13:41 G	14587819.05	14587819.07	14587819.12	0.0139	0.0137
Mercury	35238-06-04 03:36 G	14591629.60	14591629.65	14591629.70	0.0143	0.0132
Mercury	35238-08-31 07:12 G	14591717.72	14591717.80	14591717.89	0.0144	0.0111
Mercury	35238-11-27 10:48 G	14591805.86	14591805.95	14591806.06	0.0144	0.0090
Mercury	35239-02-23 14:38 G	14591894.00	14591894.11	14591894.23	0.0144	0.0068
Mercury	35239-05-22 18:29 G	14591982.14	14591982.27	14591982.40	0.0144	0.0047
Mercury	35239-08-18 22:19 G	14592070.29	14592070.43	14592070.56	0.0144	0.0025
Mercury	35239-11-15 02:09 G	14592158.45	14592158.59	14592158.72	0.0144	0.0005
Mars	35239-11-25 09:07 G	14592168.71	14592168.88	14592169.08	0.0144	0.0111
Mercury	35240-02-11 06:00 G	14592246.61	14592246.75	14592246.88	0.0144	0.0019
Mercury	35240-05-09 09:36 G	14592334.77	14592334.90	14592335.04	0.0144	0.0041
Mercury	35240-08-05 13:26 G	14592422.94	14592423.06	14592423.19	0.0144	0.0063
Mercury	35240-11-01 17:17 G	14592511.12	14592511.22	14592511.34	0.0144	0.0086
Mercury	35241-01-28 21:21 G	14592599.30	14592599.39	14592599.48	0.0144	0.0108
Mercury	35241-04-27 01:12 G	14592687.50	14592687.55	14592687.61	0.0144	0.0130
Earth	35260-09-21 18:00 G	14599775.06	14599775.25	14599775.46	0.0142	0.0087
Moon	35260-09-21 18:43 G	14599775.08	14599775.28	14599775.51	0.0142	0.0081 *
Moon	35261-09-26 11:45 G	14600144.75	14600144.99	14600145.24	0.0142	0.0013
Earth	35261-09-26 13:41 G	14600144.82	14600145.07	14600145.33	0.0142	0.0006 *
Venus	35262-02-03 04:19 G	14600274.67	14600274.68	14600274.72	0.0141	0.0141
Venus	35262-09-17 14:38 G	14600500.98	14600501.11	14600501.26	0.0141	0.0109
Earth	35262-10-01 08:24 G	14600514.64	14600514.85	14600515.07	0.0141	0.0074
Moon	35262-10-01 10:33 G	14600514.73	14600514.94	14600515.16	0.0141	0.0079 *

Venus	35263-05-02 00:43 G	14600727.36	14600727.53	14600727.72	0.0141	0.0078
Venus	35263-12-14 10:33 G	14600953.74	14600953.94	14600954.15	0.0141	0.0047
Venus	35264-07-27 20:38 G	14601180.14	14601180.36	14601180.58	0.0140	0.0016
Venus	35265-03-11 06:14 G	14601406.54	14601406.76	14601406.98	0.0140	0.0015
Venus	35265-10-23 15:21 G	14601632.94	14601633.14	14601633.36	0.0140	0.0046
Venus	35266-06-07 00:43 G	14601859.35	14601859.53	14601859.72	0.0140	0.0076
Venus	35267-01-19 09:21 G	14602085.77	14602085.89	14602086.05	0.0139	0.0107
Venus	35267-09-02 18:43 G	14602312.24	14602312.28	14602312.34	0.0139	0.0135
Mercury	35279-07-05 03:21 G	14606635.55	14606635.64	14606635.74	0.0135	0.0116
Mercury	35279-10-01 10:19 G	14606723.79	14606723.93	14606724.07	0.0135	0.0091
Mercury	35279-12-28 16:48 G	14606812.05	14606812.20	14606812.38	0.0134	0.0067
Mercury	35280-03-25 23:45 G	14606900.32	14606900.49	14606900.67	0.0134	0.0041
Mars	35280-06-06 11:45 G	14606972.76	14606972.99	14606973.25	0.0134	0.0091
Mercury	35280-06-22 06:29 G	14606988.59	14606988.77	14606988.96	0.0134	0.0017
Mercury	35280-09-18 13:12 G	14607076.87	14607077.05	14607077.24	0.0134	0.0008
Mercury	35280-12-15 19:55 G	14607165.15	14607165.33	14607165.51	0.0134	0.0032
Mercury	35281-03-14 02:24 G	14607253.44	14607253.60	14607253.77	0.0134	0.0056
Mercury	35281-06-10 08:53 G	14607341.73	14607341.87	14607342.02	0.0134	0.0080
Mercury	35281-09-06 15:07 G	14607430.03	14607430.13	14607430.26	0.0134	0.0105
Mercury	35281-12-03 21:50 G	14607518.36	14607518.41	14607518.47	0.0134	0.0127
Moon	35304-03-21 06:14 G	14615660.63	14615660.76	14615660.91	0.0136	0.0114
Earth	35304-03-21 06:00 G	14615660.65	14615660.75	14615660.90	0.0136	0.0118 *
Earth	35305-03-25 18:14 G	14616030.03	14616030.26	14616030.51	0.0137	0.0046
Moon	35305-03-25 18:43 G	14616030.05	14616030.28	14616030.51	0.0137	0.0046 *
Earth	35306-03-30 06:29 G	14616399.53	14616399.77	14616400.03	0.0137	0.0027
Moon	35306-03-30 06:57 G	14616399.53	14616399.79	14616400.06	0.0137	0.0023 *
Venus	35306-09-13 06:14 G	14616566.64	14616566.76	14616566.90	0.0137	0.0109
Moon	35307-04-03 18:57 G	14616769.15	14616769.29	14616769.46	0.0137	0.0107
Earth	35307-04-03 19:41 G	14616769.15	14616769.32	14616769.50	0.0137	0.0100 *
Venus	35307-04-27 13:12 G	14616792.89	14616793.05	14616793.24	0.0137	0.0082

Venus	35307-12-09 20:53 G	14617019.17	14617019.37	14617019.57	0.0138	0.0053
Venus	35308-07-23 04:19 G	14617245.47	14617245.68	14617245.90	0.0138	0.0024
Venus	35309-03-06 12:00 G	14617471.79	14617472.00	14617472.22	0.0138	0.0006
Venus	35309-10-18 19:55 G	14617698.12	14617698.33	14617698.54	0.0138	0.0035
Venus	35310-06-02 03:36 G	14617924.47	14617924.65	14617924.85	0.0139	0.0065
Venus	35311-01-14 12:00 G	14618150.85	14618151.00	14618151.17	0.0139	0.0094
Venus	35311-08-28 19:55 G	14618377.26	14618377.33	14618377.45	0.0139	0.0125
Mercury	35322-06-25 10:19 G	14622330.88	14622330.93	14622330.99	0.0144	0.0129
Mars	35322-08-19 15:21 G	14622385.99	14622386.14	14622386.34	0.0144	0.0115
Mercury	35322-09-21 13:55 G	14622419.00	14622419.08	14622419.18	0.0144	0.0108
Mercury	35322-12-18 17:45 G	14622507.14	14622507.24	14622507.35	0.0144	0.0086
Mercury	35323-03-16 21:36 G	14622595.28	14622595.40	14622595.52	0.0144	0.0065
Mercury	35323-06-13 01:12 G	14622683.43	14622683.55	14622683.69	0.0144	0.0044
Mercury	35323-09-09 05:02 G	14622771.58	14622771.71	14622771.85	0.0144	0.0022
Mercury	35323-12-06 08:53 G	14622859.74	14622859.87	14622860.01	0.0144	0.0002
Mercury	35324-03-03 12:43 G	14622947.90	14622948.03	14622948.17	0.0144	0.0022
Mercury	35324-05-30 16:33 G	14623036.06	14623036.19	14623036.32	0.0144	0.0044
Mercury	35324-08-26 20:24 G	14623124.23	14623124.35	14623124.47	0.0144	0.0067
Mercury	35324-11-23 00:14 G	14623212.41	14623212.51	14623212.62	0.0144	0.0089
Mercury	35325-02-19 04:19 G	14623300.59	14623300.68	14623300.77	0.0144	0.0111
Mercury	35325-05-18 07:55 G	14623388.80	14623388.83	14623388.89	0.0144	0.0135
Earth	35344-09-23 03:36 G	14630456.46	14630456.65	14630456.87	0.0142	0.0084
Moon	35344-09-23 04:33 G	14630456.50	14630456.69	14630456.90	0.0142	0.0090 *
Moon	35345-09-27 23:02 G	14630826.21	14630826.46	14630826.70	0.0142	0.0005
Earth	35345-09-27 23:45 G	14630826.23	14630826.49	14630826.74	0.0142	0.0004 *
Venus	35346-05-18 21:36 G	14631059.30	14631059.40	14631059.52	0.0141	0.0122
Earth	35346-10-02 18:14 G	14631196.06	14631196.26	14631196.49	0.0141	0.0077
Moon	35346-10-02 19:55 G	14631196.12	14631196.33	14631196.57	0.0141	0.0072 *
Venus	35346-12-31 07:55 G	14631285.67	14631285.83	14631286.00	0.0141	0.0090
Venus	35347-08-14 18:00 G	14631512.06	14631512.25	14631512.45	0.0141	0.0059

Venus	35348-03-28 03:50 G	14631738.45	14631738.66	14631738.88	0.0141	0.0028
Venus	35348-11-09 13:41 G	14631964.85	14631965.07	14631965.29	0.0140	0.0004
Venus	35349-06-23 23:02 G	14632191.25	14632191.46	14632191.68	0.0140	0.0034
Venus	35350-02-05 08:24 G	14632417.66	14632417.85	14632418.05	0.0140	0.0064
Venus	35350-09-19 17:31 G	14632644.08	14632644.23	14632644.40	0.0139	0.0094
Venus	35351-05-04 02:24 G	14632870.52	14632870.60	14632870.72	0.0139	0.0124
Mars	35363-02-28 04:05 G	14637188.53	14637188.67	14637188.84	0.0135	0.0119
Mercury	35363-07-26 10:19 G	14637336.83	14637336.93	14637337.04	0.0135	0.0110
Mercury	35363-10-22 17:17 G	14637425.08	14637425.22	14637425.36	0.0134	0.0085
Mercury	35364-01-18 23:45 G	14637513.34	14637513.49	14637513.67	0.0134	0.0061
Mercury	35364-04-16 06:43 G	14637601.61	14637601.78	14637601.97	0.0134	0.0035
Mercury	35364-07-13 13:26 G	14637689.88	14637690.06	14637690.25	0.0134	0.0011
Mercury	35364-10-09 20:09 G	14637778.16	14637778.34	14637778.53	0.0134	0.0014
Mercury	35365-01-06 02:53 G	14637866.44	14637866.62	14637866.80	0.0134	0.0038
Mercury	35365-04-04 09:21 G	14637954.73	14637954.89	14637955.06	0.0134	0.0062
Mercury	35365-07-01 15:50 G	14638043.03	14638043.16	14638043.31	0.0134	0.0086
Mercury	35365-09-27 22:19 G	14638131.33	14638131.43	14638131.54	0.0134	0.0110
Mercury	35365-12-25 04:48 G	14638219.69	14638219.70	14638219.72	0.0134	0.0133
Moon	35388-03-21 12:14 G	14646341.89	14646342.01	14646342.14	0.0136	0.0119
Earth	35388-03-21 13:41 G	14646341.95	14646342.07	14646342.21	0.0136	0.0115 *
Earth	35389-03-26 01:12 G	14646711.32	14646711.55	14646711.80	0.0136	0.0045
Moon	35389-03-26 01:55 G	14646711.35	14646711.58	14646711.82	0.0136	0.0044 *
Moon	35390-03-30 12:43 G	14647080.78	14647081.03	14647081.30	0.0137	0.0031
Earth	35390-03-30 13:41 G	14647080.82	14647081.07	14647081.32	0.0137	0.0028 *
Venus	35390-05-13 13:26 G	14647124.97	14647125.06	14647125.16	0.0137	0.0121
Venus	35390-12-25 20:38 G	14647351.21	14647351.36	14647351.52	0.0137	0.0093
Earth	35391-04-04 02:24 G	14647450.44	14647450.60	14647450.78	0.0137	0.0101
Moon	35391-04-04 02:38 G	14647450.45	14647450.61	14647450.80	0.0137	0.0097 *
Venus	35391-08-09 03:36 G	14647577.47	14647577.65	14647577.85	0.0137	0.0066
Venus	35392-03-22 11:02 G	14647803.76	14647803.96	14647804.18	0.0138	0.0037

Venus	35392-11-03 18:43 G	14648030.07	14648030.28	14648030.50	0.0138	0.0008
Venus	35393-06-18 02:24 G	14648256.39	14648256.60	14648256.82	0.0138	0.0022
Venus	35394-01-30 10:19 G	14648482.74	14648482.93	14648483.14	0.0138	0.0051
Venus	35394-09-13 18:14 G	14648709.10	14648709.26	14648709.45	0.0139	0.0081
Venus	35395-04-28 02:38 G	14648935.48	14648935.61	14648935.74	0.0139	0.0110
Mercury	35406-07-16 17:02 G	14653032.15	14653032.21	14653032.27	0.0144	0.0127
Mercury	35406-10-12 20:38 G	14653120.27	14653120.36	14653120.45	0.0144	0.0106
Mercury	35407-01-09 00:14 G	14653208.41	14653208.51	14653208.62	0.0144	0.0085
Mercury	35407-04-07 04:05 G	14653296.55	14653296.67	14653296.79	0.0144	0.0063
Mars	35407-04-15 06:14 G	14653304.48	14653304.76	14653305.05	0.0144	0.0008
Mercury	35407-07-04 07:55 G	14653384.70	14653384.83	14653384.96	0.0144	0.0042
Mercury	35407-09-30 11:31 G	14653472.85	14653472.98	14653473.12	0.0144	0.0021
Mercury	35407-12-27 15:21 G	14653561.01	14653561.14	14653561.28	0.0144	0.0004
Mercury	35408-03-24 19:12 G	14653649.17	14653649.30	14653649.44	0.0144	0.0024
Mercury	35408-06-20 23:02 G	14653737.34	14653737.46	14653737.59	0.0144	0.0046
Mercury	35408-09-17 02:53 G	14653825.51	14653825.62	14653825.75	0.0144	0.0069
Mercury	35408-12-14 06:57 G	14653913.68	14653913.79	14653913.89	0.0144	0.0091
Mercury	35409-03-12 10:33 G	14654001.87	14654001.94	14654002.03	0.0144	0.0114
Mercury	35409-06-08 14:53 G	14654090.07	14654090.12	14654090.16	0.0144	0.0136
Moon	35428-09-24 09:50 G	14661137.71	14661137.91	14661138.15	0.0142	0.0078
Earth	35428-09-24 10:33 G	14661137.75	14661137.94	14661138.16	0.0142	0.0083 *
Moon	35429-09-29 06:14 G	14661507.52	14661507.76	14661508.01	0.0142	0.0009
Earth	35429-09-29 06:43 G	14661507.53	14661507.78	14661508.04	0.0142	0.0002 *
Venus	35430-01-17 02:53 G	14661617.57	14661617.62	14661617.69	0.0142	0.0136
Venus	35430-08-31 13:12 G	14661843.91	14661844.05	14661844.20	0.0141	0.0105
Earth	35430-10-04 01:26 G	14661877.37	14661877.56	14661877.79	0.0141	0.0079
Moon	35430-10-04 01:55 G	14661877.39	14661877.58	14661877.81	0.0141	0.0086 *
Venus	35431-04-14 23:17 G	14662070.29	14662070.47	14662070.67	0.0141	0.0073
Venus	35431-11-27 09:21 G	14662296.69	14662296.89	14662297.11	0.0141	0.0042
Venus	35432-07-10 19:26 G	14662523.09	14662523.31	14662523.53	0.0140	0.0011

Venus	35433-02-22 05:02 G	14662749.50	14662749.71	14662749.93	0.0140	0.0021
Venus	35433-10-06 14:38 G	14662975.91	14662976.11	14662976.32	0.0140	0.0051
Venus	35434-05-21 00:00 G	14663202.33	14663202.50	14663202.68	0.0140	0.0081
Venus	35435-01-02 09:21 G	14663428.76	14663428.89	14663429.02	0.0139	0.0111
Mercury	35447-05-20 09:50 G	14667949.88	14667949.91	14667949.96	0.0135	0.0131
Mercury	35447-08-16 16:48 G	14668038.09	14668038.20	14668038.33	0.0135	0.0105
Mars	35447-10-25 11:45 G	14668107.66	14668107.99	14668108.33	0.0134	0.0006
Mercury	35447-11-12 23:31 G	14668126.35	14668126.48	14668126.65	0.0134	0.0081
Mercury	35448-02-09 06:29 G	14668214.61	14668214.77	14668214.95	0.0134	0.0056
Mercury	35448-05-07 13:26 G	14668302.88	14668303.06	14668303.24	0.0134	0.0030
Mercury	35448-08-03 20:09 G	14668391.16	14668391.34	14668391.53	0.0134	0.0006
Mercury	35448-10-31 02:53 G	14668479.44	14668479.62	14668479.81	0.0134	0.0019
Mercury	35449-01-27 09:21 G	14668567.72	14668567.89	14668568.07	0.0134	0.0043
Mercury	35449-04-25 15:50 G	14668656.01	14668656.16	14668656.33	0.0134	0.0068
Mercury	35449-07-22 22:19 G	14668744.31	14668744.43	14668744.58	0.0134	0.0092
Mercury	35449-10-19 04:48 G	14668832.62	14668832.70	14668832.81	0.0134	0.0115
Moon	35472-03-22 19:26 G	14677023.17	14677023.31	14677023.48	0.0136	0.0109
Earth	35472-03-22 21:21 G	14677023.26	14677023.39	14677023.54	0.0136	0.0113 *
Earth	35473-03-27 08:53 G	14677392.64	14677392.87	14677393.12	0.0136	0.0043
Moon	35473-03-27 10:48 G	14677392.72	14677392.95	14677393.19	0.0136	0.0044 *
Venus	35474-01-11 20:53 G	14677683.34	14677683.37	14677683.43	0.0137	0.0133
Moon	35474-03-31 19:55 G	14677762.07	14677762.33	14677762.59	0.0137	0.0028
Earth	35474-03-31 21:07 G	14677762.14	14677762.38	14677762.63	0.0137	0.0030 *
Venus	35474-08-26 04:05 G	14677909.54	14677909.67	14677909.81	0.0137	0.0105
Earth	35475-04-05 09:50 G	14678131.76	14678131.91	14678132.10	0.0137	0.0103
Moon	35475-04-05 11:02 G	14678131.82	14678131.96	14678132.12	0.0137	0.0109 *
Venus	35475-04-09 11:02 G	14678135.79	14678135.96	14678136.15	0.0137	0.0077
Venus	35475-11-21 18:29 G	14678362.07	14678362.27	14678362.47	0.0137	0.0049
Venus	35476-07-05 01:55 G	14678588.37	14678588.58	14678588.80	0.0138	0.0020
Venus	35477-02-16 09:50 G	14678814.69	14678814.91	14678815.12	0.0138	0.0009

Venus	35477-09-30 17:17 G	14679041.02	14679041.22	14679041.44	0.0138	0.0039
Venus	35478-05-15 01:12 G	14679267.37	14679267.55	14679267.75	0.0138	0.0068
Venus	35478-12-27 09:21 G	14679493.74	14679493.89	14679494.05	0.0139	0.0097
Venus	35479-08-10 17:45 G	14679720.15	14679720.24	14679720.33	0.0139	0.0126
Mercury	35490-08-05 23:31 G	14683733.42	14683733.48	14683733.55	0.0143	0.0125
Mercury	35490-11-02 03:07 G	14683821.55	14683821.63	14683821.73	0.0144	0.0104
Mercury	35491-01-29 06:57 G	14683909.69	14683909.79	14683909.90	0.0144	0.0082
Mercury	35491-04-27 10:48 G	14683997.83	14683997.95	14683998.07	0.0144	0.0061
Mercury	35491-07-24 14:24 G	14684085.98	14684086.10	14684086.24	0.0144	0.0040
Mercury	35491-10-20 18:14 G	14684174.13	14684174.26	14684174.40	0.0144	0.0018
Mars	35491-12-08 22:33 G	14684223.36	14684223.44	14684223.57	0.0144	0.0134
Mercury	35492-01-16 22:05 G	14684262.29	14684262.42	14684262.56	0.0144	0.0005
Mercury	35492-04-14 01:55 G	14684350.45	14684350.58	14684350.71	0.0144	0.0026
Mercury	35492-07-11 05:45 G	14684438.61	14684438.74	14684438.87	0.0144	0.0048
Mercury	35492-10-07 09:36 G	14684526.78	14684526.90	14684527.02	0.0144	0.0071
Mercury	35493-01-03 13:26 G	14684614.96	14684615.06	14684615.17	0.0144	0.0093
Mercury	35493-04-01 17:31 G	14684703.15	14684703.23	14684703.31	0.0144	0.0115
Mercury	35493-06-28 21:07 G	14684791.36	14684791.38	14684791.43	0.0144	0.0139
Moon	35512-09-25 16:05 G	14691818.98	14691819.17	14691819.40	0.0142	0.0087
Earth	35512-09-25 17:17 G	14691819.02	14691819.22	14691819.43	0.0142	0.0082 *
Earth	35513-09-30 13:26 G	14692188.80	14692189.06	14692189.31	0.0142	0.0002
Moon	35513-09-30 14:09 G	14692188.85	14692189.09	14692189.34	0.0142	0.0006 *
Venus	35514-05-01 18:00 G	14692402.14	14692402.25	14692402.38	0.0141	0.0119
Moon	35514-10-05 08:24 G	14692558.63	14692558.85	14692559.08	0.0141	0.0073
Earth	35514-10-05 08:09 G	14692558.65	14692558.84	14692559.07	0.0141	0.0080 *
Venus	35514-12-14 04:19 G	14692628.52	14692628.68	14692628.86	0.0141	0.0088
Venus	35515-07-28 14:38 G	14692854.92	14692855.11	14692855.32	0.0141	0.0056
Venus	35516-03-11 00:43 G	14693081.32	14693081.53	14693081.75	0.0141	0.0025
Venus	35516-10-23 10:33 G	14693307.72	14693307.94	14693308.16	0.0140	0.0006
Venus	35517-06-06 20:09 G	14693534.13	14693534.34	14693534.56	0.0140	0.0037

Venus	35518-01-19 05:31 G	14693760.55	14693760.73	14693760.94	0.0140	0.0068
Venus	35518-09-02 15:07 G	14693986.99	14693987.13	14693987.29	0.0140	0.0098
Venus	35519-04-17 00:14 G	14694213.44	14694213.51	14694213.61	0.0139	0.0128
Mercury	35531-06-10 16:33 G	14698651.13	14698651.19	14698651.26	0.0135	0.0126
Mercury	35531-09-06 23:17 G	14698739.36	14698739.47	14698739.61	0.0135	0.0101
Mercury	35531-12-04 06:14 G	14698827.61	14698827.76	14698827.92	0.0135	0.0076
Mercury	35532-03-01 13:12 G	14698915.88	14698916.05	14698916.23	0.0134	0.0051
Mercury	35532-05-28 19:55 G	14699004.15	14699004.33	14699004.52	0.0134	0.0026
Mars	35532-06-20 17:31 G	14699027.16	14699027.23	14699027.35	0.0134	0.0129
Mercury	35532-08-25 02:53 G	14699092.43	14699092.62	14699092.80	0.0134	0.0003
Mercury	35532-11-21 09:21 G	14699180.71	14699180.89	14699181.08	0.0134	0.0024
Mercury	35533-02-17 15:50 G	14699269.00	14699269.16	14699269.35	0.0134	0.0049
Mercury	35533-05-16 22:33 G	14699357.29	14699357.44	14699357.60	0.0134	0.0072
Mercury	35533-08-13 05:02 G	14699445.59	14699445.71	14699445.85	0.0134	0.0096
Mercury	35533-11-09 11:45 G	14699533.91	14699533.99	14699534.07	0.0134	0.0119
Moon	35556-03-24 04:05 G	14707704.55	14707704.67	14707704.82	0.0136	0.0116
Earth	35556-03-24 07:12 G	14707704.66	14707704.80	14707704.95	0.0136	0.0110 *
Earth	35557-03-28 18:29 G	14708074.04	14708074.27	14708074.52	0.0136	0.0040
Moon	35557-03-28 20:38 G	14708074.12	14708074.36	14708074.60	0.0136	0.0038 *
Moon	35558-04-02 04:48 G	14708443.45	14708443.70	14708443.96	0.0137	0.0034
Earth	35558-04-02 06:57 G	14708443.55	14708443.79	14708444.04	0.0137	0.0033 *
Venus	35558-04-26 12:43 G	14708467.93	14708468.03	14708468.15	0.0137	0.0116
Venus	35558-12-08 19:55 G	14708694.17	14708694.33	14708694.50	0.0137	0.0088
Earth	35559-04-06 19:41 G	14708813.18	14708813.32	14708813.50	0.0137	0.0106
Moon	35559-04-06 21:36 G	14708813.25	14708813.40	14708813.58	0.0137	0.0103 *
Venus	35559-07-23 03:07 G	14708920.44	14708920.63	14708920.83	0.0137	0.0060
Venus	35560-03-05 10:33 G	14709146.74	14709146.94	14709147.16	0.0137	0.0032
Venus	35560-10-17 18:14 G	14709373.05	14709373.26	14709373.48	0.0138	0.0003
Venus	35561-06-01 01:55 G	14709599.37	14709599.58	14709599.80	0.0138	0.0027
Venus	35562-01-13 09:36 G	14709825.71	14709825.90	14709826.11	0.0138	0.0056

Venus	35562-08-27 17:31 G	14710052.07	14710052.23	14710052.42	0.0139	0.0086
Venus	35563-04-11 01:41 G	14710278.46	14710278.57	14710278.70	0.0139	0.0115
Mercury	35574-05-31 03:07 G	14714346.61	14714346.63	14714346.66	0.0143	0.0141
Mercury	35574-08-27 06:43 G	14714434.72	14714434.78	14714434.86	0.0143	0.0120
Mars	35574-09-02 09:21 G	14714440.69	14714440.89	14714441.13	0.0143	0.0091
Mercury	35574-11-23 10:33 G	14714522.85	14714522.94	14714523.04	0.0144	0.0098
Mercury	35575-02-19 14:09 G	14714610.98	14714611.09	14714611.21	0.0144	0.0077
Mercury	35575-05-18 18:00 G	14714699.13	14714699.25	14714699.37	0.0144	0.0056
Mercury	35575-08-14 21:36 G	14714787.28	14714787.40	14714787.54	0.0144	0.0035
Mercury	35575-11-11 01:26 G	14714875.43	14714875.56	14714875.70	0.0144	0.0013
Mercury	35576-02-07 05:17 G	14714963.59	14714963.72	14714963.86	0.0144	0.0009
Mercury	35576-05-05 09:07 G	14715051.75	14715051.88	14715052.01	0.0144	0.0031
Mercury	35576-08-01 12:57 G	14715139.91	14715140.04	14715140.17	0.0144	0.0053
Mercury	35576-10-28 16:48 G	14715228.08	14715228.20	14715228.32	0.0144	0.0076
Mercury	35577-01-24 20:24 G	14715316.26	14715316.35	14715316.46	0.0144	0.0099
Mercury	35577-04-23 00:29 G	14715404.45	14715404.52	14715404.60	0.0144	0.0120
Mercury	35577-07-20 04:19 G	14715492.67	14715492.68	14715492.70	0.0144	0.0143
Moon	35596-09-25 23:17 G	14722500.27	14722500.47	14722500.71	0.0142	0.0078
Earth	35596-09-26 01:41 G	14722500.37	14722500.57	14722500.79	0.0142	0.0080 *
Earth	35597-09-30 21:50 G	14722870.16	14722870.41	14722870.66	0.0142	0.0001
Moon	35597-09-30 23:02 G	14722870.21	14722870.46	14722870.70	0.0142	0.0006 *
Venus	35597-12-30 00:00 G	14722960.43	14722960.50	14722960.59	0.0142	0.0132
Venus	35598-08-13 10:33 G	14723186.79	14723186.94	14723187.10	0.0141	0.0101
Moon	35598-10-05 15:50 G	14723239.97	14723240.16	14723240.37	0.0141	0.0088
Earth	35598-10-05 16:48 G	14723240.00	14723240.20	14723240.42	0.0141	0.0081 *
Venus	35599-03-27 20:53 G	14723413.18	14723413.37	14723413.56	0.0141	0.0069
Venus	35599-11-09 06:57 G	14723639.58	14723639.79	14723640.00	0.0141	0.0038
Venus	35600-06-22 17:02 G	14723865.99	14723866.21	14723866.43	0.0140	0.0007
Venus	35601-02-04 02:53 G	14724092.40	14724092.62	14724092.84	0.0140	0.0024
Venus	35601-09-18 12:29 G	14724318.82	14724319.02	14724319.22	0.0140	0.0055

Venus	35602-05-02 21:50 G	14724545.25	14724545.41	14724545.59	0.0140	0.0085
Venus	35602-12-15 07:12 G	14724771.68	14724771.80	14724771.93	0.0139	0.0115
Mars	35615-03-13 06:29 G	14729242.53	14729242.77	14729243.04	0.0135	0.0085
Mercury	35615-06-30 23:17 G	14729352.39	14729352.47	14729352.55	0.0135	0.0121
Mercury	35615-09-27 06:00 G	14729440.63	14729440.75	14729440.89	0.0135	0.0096
Mercury	35615-12-24 12:57 G	14729528.89	14729529.04	14729529.21	0.0135	0.0071
Mercury	35616-03-21 19:55 G	14729617.16	14729617.33	14729617.51	0.0134	0.0046
Mercury	35616-06-18 02:38 G	14729705.43	14729705.61	14729705.80	0.0134	0.0021
Mercury	35616-09-14 09:36 G	14729793.71	14729793.90	14729794.08	0.0134	0.0005
Mercury	35616-12-11 16:05 G	14729881.99	14729882.17	14729882.36	0.0134	0.0029
Mercury	35617-03-09 22:33 G	14729970.28	14729970.44	14729970.62	0.0134	0.0053
Mercury	35617-06-06 05:17 G	14730058.58	14730058.72	14730058.88	0.0134	0.0077
Mercury	35617-09-02 11:45 G	14730146.88	14730146.99	14730147.12	0.0134	0.0101
Mercury	35617-11-29 18:29 G	14730235.21	14730235.27	14730235.34	0.0134	0.0124
Moon	35640-03-24 13:41 G	14738385.90	14738386.07	14738386.24	0.0136	0.0102
Earth	35640-03-24 16:05 G	14738386.04	14738386.17	14738386.34	0.0136	0.0108 *
Earth	35641-03-29 04:05 G	14738755.43	14738755.67	14738755.92	0.0136	0.0037
Moon	35641-03-29 06:57 G	14738755.56	14738755.79	14738756.04	0.0136	0.0040 *
Venus	35641-12-24 21:36 G	14739026.33	14739026.40	14739026.49	0.0137	0.0127
Moon	35642-04-02 14:09 G	14739124.84	14739125.09	14739125.35	0.0137	0.0036
Earth	35642-04-02 16:33 G	14739124.95	14739125.19	14739125.44	0.0137	0.0036 *
Venus	35642-08-08 04:33 G	14739252.56	14739252.69	14739252.86	0.0137	0.0099
Venus	35643-03-22 11:45 G	14739478.82	14739478.99	14739479.19	0.0137	0.0071
Earth	35643-04-07 05:31 G	14739494.60	14739494.73	14739494.90	0.0137	0.0109
Moon	35643-04-07 08:09 G	14739494.71	14739494.84	14739494.98	0.0137	0.0114 *
Venus	35643-11-03 19:12 G	14739705.10	14739705.30	14739705.52	0.0137	0.0043
Venus	35644-06-17 02:53 G	14739931.41	14739931.62	14739931.84	0.0138	0.0014
Venus	35645-01-29 10:33 G	14740157.73	14740157.94	14740158.16	0.0138	0.0016
Venus	35645-09-12 18:29 G	14740384.06	14740384.27	14740384.47	0.0138	0.0044
Venus	35646-04-27 02:09 G	14740610.41	14740610.59	14740610.78	0.0138	0.0074

Venus	35646-12-09 10:05 G	14740836.79	14740836.92	14740837.07	0.0139	0.0103
Venus	35647-07-23 18:14 G	14741063.21	14741063.26	14741063.34	0.0139	0.0132
Mercury	35658-06-20 10:33 G	14745047.91	14745047.94	14745047.99	0.0143	0.0135
Mercury	35658-09-16 14:09 G	14745136.02	14745136.09	14745136.18	0.0144	0.0114
Mercury	35658-12-13 18:00 G	14745224.15	14745224.25	14745224.36	0.0144	0.0092
Mercury	35659-03-11 21:50 G	14745312.29	14745312.41	14745312.53	0.0144	0.0071
Mars	35659-04-28 09:36 G	14745359.63	14745359.90	14745360.18	0.0144	0.0043
Mercury	35659-06-08 01:26 G	14745400.44	14745400.56	14745400.69	0.0144	0.0050
Mercury	35659-09-04 05:17 G	14745488.59	14745488.72	14745488.85	0.0144	0.0028
Mercury	35659-12-01 09:07 G	14745576.74	14745576.88	14745577.01	0.0144	0.0007
Mercury	35660-02-27 12:43 G	14745664.90	14745665.03	14745665.17	0.0144	0.0017
Mercury	35660-05-25 16:33 G	14745753.06	14745753.19	14745753.32	0.0144	0.0038
Mercury	35660-08-21 20:24 G	14745841.23	14745841.35	14745841.48	0.0144	0.0060
Mercury	35660-11-18 00:14 G	14745929.40	14745929.51	14745929.63	0.0144	0.0082
Mercury	35661-02-14 04:19 G	14746017.58	14746017.68	14746017.77	0.0144	0.0105
Mercury	35661-05-13 07:55 G	14746105.78	14746105.83	14746105.90	0.0144	0.0127
Moon	35680-09-26 10:33 G	14753181.74	14753181.94	14753182.17	0.0142	0.0080
Earth	35680-09-26 12:57 G	14753181.84	14753182.04	14753182.26	0.0142	0.0076 *
Earth	35681-10-01 09:07 G	14753551.62	14753551.88	14753552.13	0.0142	0.0005
Moon	35681-10-01 11:02 G	14753551.72	14753551.96	14753552.21	0.0142	0.0012 *
Venus	35682-04-12 18:00 G	14753745.14	14753745.25	14753745.40	0.0141	0.0113
Moon	35682-10-06 02:38 G	14753921.40	14753921.61	14753921.84	0.0141	0.0078
Earth	35682-10-06 04:05 G	14753921.48	14753921.67	14753921.89	0.0141	0.0085 *
Venus	35682-11-25 04:33 G	14753971.52	14753971.69	14753971.88	0.0141	0.0081
Venus	35683-07-09 14:53 G	14754197.92	14754198.12	14754198.33	0.0141	0.0050
Venus	35684-02-21 00:57 G	14754424.33	14754424.54	14754424.76	0.0141	0.0019
Venus	35684-10-04 11:02 G	14754650.74	14754650.96	14754651.18	0.0140	0.0013
Venus	35685-05-18 20:38 G	14754877.15	14754877.36	14754877.57	0.0140	0.0043
Venus	35685-12-31 06:00 G	14755103.57	14755103.75	14755103.95	0.0140	0.0074
Venus	35686-08-14 15:36 G	14755330.01	14755330.15	14755330.30	0.0140	0.0104

Venus	35687-03-29 00:29 G	14755556.48	14755556.52	14755556.60	0.0139	0.0134
Mercury	35699-07-21 06:14 G	14760053.68	14760053.76	14760053.87	0.0135	0.0115
Mercury	35699-10-17 13:26 G	14760141.92	14760142.06	14760142.20	0.0135	0.0089
Mars	35699-11-06 18:29 G	14760161.97	14760162.27	14760162.60	0.0135	0.0044
Mercury	35700-01-13 20:24 G	14760230.18	14760230.35	14760230.51	0.0134	0.0064
Mercury	35700-04-12 03:07 G	14760318.45	14760318.63	14760318.81	0.0134	0.0039
Mercury	35700-07-09 09:50 G	14760406.73	14760406.91	14760407.10	0.0134	0.0014
Mercury	35700-10-05 16:33 G	14760495.01	14760495.19	14760495.38	0.0134	0.0012
Mercury	35701-01-01 23:17 G	14760583.30	14760583.47	14760583.66	0.0134	0.0035
Mercury	35701-03-31 06:00 G	14760671.59	14760671.75	14760671.92	0.0134	0.0059
Mercury	35701-06-27 12:29 G	14760759.88	14760760.02	14760760.17	0.0134	0.0084
Mercury	35701-09-23 19:12 G	14760848.19	14760848.30	14760848.41	0.0134	0.0107
Mercury	35701-12-21 01:26 G	14760936.54	14760936.56	14760936.61	0.0134	0.0131
Moon	35724-03-25 23:17 G	14769067.34	14769067.47	14769067.64	0.0136	0.0112
Earth	35724-03-26 03:07 G	14769067.47	14769067.63	14769067.80	0.0136	0.0104 *
Earth	35725-03-30 14:38 G	14769436.88	14769437.11	14769437.37	0.0136	0.0034
Moon	35725-03-30 17:45 G	14769437.00	14769437.24	14769437.49	0.0136	0.0030 *
Venus	35725-08-25 07:12 G	14769584.80	14769584.80	14769584.82	0.0137	0.0136
Jupiter	35726-03-31 00:43 G	14769802.04	14769802.53	14769803.03	0.0137	0.0016
Moon	35726-04-04 00:14 G	14769806.27	14769806.51	14769806.77	0.0137	0.0039
Earth	35726-04-04 03:21 G	14769806.41	14769806.64	14769806.90	0.0137	0.0040 *
Venus	35726-04-08 14:09 G	14769810.97	14769811.09	14769811.23	0.0137	0.0109
Venus	35726-11-20 21:21 G	14770037.22	14770037.39	14770037.57	0.0137	0.0081
Earth	35727-04-08 16:48 G	14770176.06	14770176.20	14770176.35	0.0137	0.0113
Moon	35727-04-08 19:26 G	14770176.18	14770176.31	14770176.47	0.0137	0.0110 *
Venus	35727-07-05 04:33 G	14770263.50	14770263.69	14770263.90	0.0137	0.0053
Venus	35728-02-16 12:14 G	14770489.80	14770490.01	14770490.23	0.0138	0.0024
Venus	35728-09-29 19:55 G	14770716.11	14770716.33	14770716.54	0.0138	0.0005
Venus	35729-05-14 03:21 G	14770942.44	14770942.64	14770942.86	0.0138	0.0034
Venus	35729-12-26 11:17 G	14771168.78	14771168.97	14771169.17	0.0138	0.0063

Venus	35730-08-09 19:12 G	14771395.14	14771395.30	14771395.47	0.0139	0.0092
Venus	35731-03-24 03:07 G	14771621.54	14771621.63	14771621.75	0.0139	0.0121
Mercury	35742-07-11 18:14 G	14775749.21	14775749.26	14775749.32	0.0144	0.0128
Mercury	35742-10-07 21:50 G	14775837.33	14775837.41	14775837.51	0.0144	0.0107
Mercury	35743-01-04 01:26 G	14775925.46	14775925.56	14775925.68	0.0144	0.0086
Mercury	35743-04-02 05:17 G	14776013.61	14776013.72	14776013.84	0.0144	0.0064
Mercury	35743-06-29 09:07 G	14776101.75	14776101.88	14776102.01	0.0144	0.0043
Mercury	35743-09-25 12:57 G	14776189.90	14776190.04	14776190.17	0.0144	0.0021
Mercury	35743-12-22 16:33 G	14776278.06	14776278.19	14776278.33	0.0144	0.0005
Mercury	35744-03-19 20:24 G	14776366.22	14776366.35	14776366.49	0.0144	0.0023
Mercury	35744-06-16 00:14 G	14776454.38	14776454.51	14776454.64	0.0144	0.0045
Mercury	35744-09-12 04:05 G	14776542.55	14776542.67	14776542.79	0.0144	0.0067
Mercury	35744-12-09 07:55 G	14776630.73	14776630.83	14776630.94	0.0144	0.0089
Mercury	35745-03-07 11:31 G	14776718.91	14776718.98	14776719.08	0.0144	0.0113
Mercury	35745-06-03 15:36 G	14776807.11	14776807.15	14776807.20	0.0144	0.0135
Moon	35764-09-27 22:48 G	14783863.23	14783863.45	14783863.68	0.0142	0.0069
Earth	35764-09-28 01:55 G	14783863.36	14783863.58	14783863.80	0.0142	0.0071 *
Earth	35765-10-02 21:50 G	14784233.16	14784233.41	14784233.67	0.0142	0.0010
Moon	35765-10-03 00:00 G	14784233.26	14784233.50	14784233.75	0.0142	0.0005 *
Venus	35765-12-12 02:38 G	14784303.52	14784303.61	14784303.73	0.0142	0.0124
Venus	35766-07-26 13:12 G	14784529.90	14784530.05	14784530.23	0.0141	0.0092
Moon	35766-10-07 14:38 G	14784602.94	14784603.11	14784603.31	0.0141	0.0098
Earth	35766-10-07 16:48 G	14784603.02	14784603.20	14784603.41	0.0141	0.0090 *
Venus	35767-03-09 23:31 G	14784756.30	14784756.48	14784756.69	0.0141	0.0061
Venus	35767-10-22 09:50 G	14784982.70	14784982.91	14784983.13	0.0141	0.0030
Venus	35768-06-04 19:55 G	14785209.11	14785209.33	14785209.55	0.0140	0.0002
Venus	35769-01-17 05:31 G	14785435.52	14785435.73	14785435.95	0.0140	0.0033
Venus	35769-08-31 15:07 G	14785661.95	14785662.13	14785662.34	0.0140	0.0063
Venus	35770-04-15 00:43 G	14785888.37	14785888.53	14785888.70	0.0140	0.0093
Venus	35770-11-27 09:50 G	14786114.82	14786114.91	14786115.02	0.0139	0.0122

Saturn	35782-10-09 21:36 G	14790449.10	14790449.40	14790449.82	0.0135	0.0110
Mercury	35783-05-15 06:57 G	14790666.76	14790666.79	14790666.83	0.0135	0.0132
Mercury	35783-08-11 13:55 G	14790754.97	14790755.08	14790755.20	0.0135	0.0107
Mercury	35783-11-07 20:38 G	14790843.22	14790843.36	14790843.52	0.0134	0.0082
Mercury	35784-02-04 03:36 G	14790931.49	14790931.65	14790931.83	0.0134	0.0057
Mercury	35784-05-02 10:33 G	14791019.76	14791019.94	14791020.12	0.0134	0.0031
Mercury	35784-07-29 17:17 G	14791108.04	14791108.22	14791108.41	0.0134	0.0007
Mercury	35784-10-26 00:00 G	14791196.32	14791196.50	14791196.69	0.0134	0.0018
Mercury	35785-01-22 06:43 G	14791284.61	14791284.78	14791284.96	0.0134	0.0042
Mercury	35785-04-20 13:26 G	14791372.90	14791373.06	14791373.22	0.0134	0.0066
Mercury	35785-07-17 19:55 G	14791461.20	14791461.33	14791461.47	0.0134	0.0090
Mercury	35785-10-14 02:24 G	14791549.51	14791549.60	14791549.70	0.0134	0.0114
Moon	35808-03-27 08:24 G	14799748.69	14799748.85	14799749.05	0.0136	0.0097
Earth	35808-03-27 12:00 G	14799748.85	14799749.00	14799749.18	0.0136	0.0103 *
Earth	35809-04-01 00:14 G	14800118.26	14800118.51	14800118.76	0.0136	0.0031
Moon	35809-04-01 03:36 G	14800118.42	14800118.65	14800118.90	0.0136	0.0036 *
Venus	35809-12-07 22:33 G	14800369.35	14800369.44	14800369.55	0.0137	0.0120
Moon	35810-04-05 09:21 G	14800487.65	14800487.89	14800488.14	0.0137	0.0043
Earth	35810-04-05 12:43 G	14800487.79	14800488.03	14800488.28	0.0137	0.0042 *
Venus	35810-07-22 05:45 G	14800595.59	14800595.74	14800595.90	0.0137	0.0092
Venus	35811-03-05 12:57 G	14800821.86	14800822.04	14800822.24	0.0137	0.0064
Earth	35811-04-10 01:26 G	14800857.44	14800857.56	14800857.72	0.0137	0.0115
Moon	35811-04-10 04:48 G	14800857.59	14800857.70	14800857.84	0.0137	0.0119 *
Venus	35811-10-17 20:24 G	14801048.14	14801048.35	14801048.56	0.0137	0.0036
Venus	35812-05-31 03:50 G	14801274.44	14801274.66	14801274.88	0.0138	0.0007
Venus	35813-01-12 11:17 G	14801500.76	14801500.97	14801501.19	0.0138	0.0022
Venus	35813-08-26 19:12 G	14801727.10	14801727.30	14801727.50	0.0138	0.0051
Venus	35814-04-10 02:53 G	14801953.45	14801953.62	14801953.80	0.0139	0.0080
Venus	35814-11-22 10:48 G	14802179.83	14802179.95	14802180.09	0.0139	0.0109
Venus	35815-07-06 18:43 G	14802406.28	14802406.28	14802406.32	0.0139	0.0139

Mercury	35826-08-02 01:26 G	14806450.50	14806450.56	14806450.63	0.0144	0.0123
Mars	35826-09-16 22:33 G	14806496.17	14806496.44	14806496.71	0.0144	0.0046
Mercury	35826-10-29 05:02 G	14806538.63	14806538.71	14806538.81	0.0144	0.0102
Mercury	35827-01-25 08:53 G	14806626.76	14806626.87	14806626.98	0.0144	0.0080
Mercury	35827-04-23 12:43 G	14806714.91	14806715.03	14806715.15	0.0144	0.0059
Mercury	35827-07-20 16:19 G	14806803.05	14806803.18	14806803.31	0.0144	0.0037
Mercury	35827-10-16 20:09 G	14806891.21	14806891.34	14806891.47	0.0144	0.0016
Mercury	35828-01-13 00:00 G	14806979.36	14806979.50	14806979.63	0.0144	0.0007
Mercury	35828-04-10 03:50 G	14807067.52	14807067.66	14807067.79	0.0144	0.0029
Mercury	35828-07-07 07:41 G	14807155.69	14807155.82	14807155.94	0.0144	0.0051
Mercury	35828-10-03 11:17 G	14807243.86	14807243.97	14807244.09	0.0144	0.0073
Mercury	35828-12-30 15:07 G	14807332.04	14807332.13	14807332.24	0.0144	0.0095
Mercury	35829-03-28 19:12 G	14807420.22	14807420.30	14807420.38	0.0144	0.0118
Mercury	35829-06-24 22:48 G	14807508.43	14807508.45	14807508.49	0.0144	0.0141
Moon	35848-09-29 12:14 G	14814544.79	14814545.01	14814545.24	0.0142	0.0068
Earth	35848-09-29 15:07 G	14814544.92	14814545.13	14814545.36	0.0142	0.0066 *
Venus	35849-08-12 12:00 G	14814861.94	14814862.00	14814862.07	0.0142	0.0134
Earth	35849-10-04 11:02 G	14814914.72	14814914.96	14814915.22	0.0142	0.0016
Moon	35849-10-04 14:09 G	14814914.85	14814915.09	14814915.34	0.0142	0.0021 *
Venus	35850-03-26 22:33 G	14815088.29	14815088.44	14815088.59	0.0141	0.0103
Moon	35850-10-09 03:50 G	14815284.47	14815284.66	14815284.88	0.0141	0.0089
Earth	35850-10-09 06:29 G	14815284.59	14815284.77	14815284.96	0.0141	0.0096 *
Venus	35850-11-08 08:53 G	14815314.68	14815314.87	14815315.06	0.0141	0.0071
Venus	35851-06-22 19:12 G	14815541.09	14815541.30	14815541.51	0.0141	0.0040
Venus	35852-02-04 05:17 G	14815767.50	14815767.72	14815767.94	0.0141	0.0009
Venus	35852-09-17 15:07 G	14815993.91	14815994.13	14815994.35	0.0140	0.0022
Venus	35853-05-02 00:43 G	14816220.33	14816220.53	14816220.74	0.0140	0.0052
Venus	35853-12-14 09:50 G	14816446.75	14816446.91	14816447.10	0.0140	0.0083
Venus	35854-07-28 19:12 G	14816673.19	14816673.30	14816673.45	0.0140	0.0113
Mars	35867-03-27 02:09 G	14821297.28	14821297.59	14821297.92	0.0135	0.0038

Mercury	35867-06-05 14:24 G	14821368.04	14821368.10	14821368.19	0.0135	0.0124
Mercury	35867-09-01 21:21 G	14821456.28	14821456.39	14821456.53	0.0134	0.0099
Mercury	35867-11-29 04:19 G	14821544.53	14821544.68	14821544.85	0.0134	0.0073
Mercury	35868-02-25 11:17 G	14821632.80	14821632.97	14821633.15	0.0134	0.0048
Mercury	35868-05-23 18:14 G	14821721.07	14821721.26	14821721.44	0.0134	0.0023
Mercury	35868-08-20 00:57 G	14821809.35	14821809.54	14821809.73	0.0134	0.0001
Mercury	35868-11-16 07:26 G	14821897.64	14821897.81	14821898.00	0.0134	0.0027
Mercury	35869-02-12 14:09 G	14821985.92	14821986.09	14821986.27	0.0134	0.0050
Mercury	35869-05-11 20:53 G	14822074.22	14822074.37	14822074.53	0.0134	0.0074
Mercury	35869-08-08 03:21 G	14822162.52	14822162.64	14822162.77	0.0134	0.0098
Mercury	35869-11-04 09:36 G	14822250.84	14822250.90	14822250.99	0.0134	0.0122
Moon	35892-03-27 17:45 G	14830430.10	14830430.24	14830430.41	0.0136	0.0107
Earth	35892-03-27 21:50 G	14830430.24	14830430.41	14830430.58	0.0136	0.0099 *
Earth	35893-04-01 09:21 G	14830799.65	14830799.89	14830800.14	0.0136	0.0028
Moon	35893-04-01 12:57 G	14830799.79	14830800.04	14830800.29	0.0136	0.0024 *
Venus	35893-08-07 06:57 G	14830927.75	14830927.79	14830927.88	0.0136	0.0131
Venus	35894-03-21 14:09 G	14831153.96	14831154.09	14831154.24	0.0137	0.0103
Moon	35894-04-05 18:14 G	14831169.01	14831169.26	14831169.50	0.0137	0.0042
Earth	35894-04-05 21:36 G	14831169.17	14831169.40	14831169.66	0.0137	0.0045 *
Venus	35894-11-02 21:07 G	14831380.21	14831380.38	14831380.57	0.0137	0.0075
Earth	35895-04-10 10:33 G	14831538.82	14831538.94	14831539.08	0.0137	0.0118
Moon	35895-04-10 13:55 G	14831538.96	14831539.08	14831539.23	0.0137	0.0117 *
Venus	35895-06-17 04:19 G	14831606.49	14831606.68	14831606.89	0.0137	0.0048
Venus	35896-01-29 12:00 G	14831832.79	14831833.00	14831833.22	0.0138	0.0019
Venus	35896-09-11 19:26 G	14832059.09	14832059.31	14832059.53	0.0138	0.0010
Venus	35897-04-26 02:53 G	14832285.42	14832285.62	14832285.83	0.0138	0.0039
Venus	35897-12-08 10:33 G	14832511.76	14832511.94	14832512.13	0.0138	0.0068
Venus	35898-07-22 18:14 G	14832738.12	14832738.26	14832738.43	0.0139	0.0097
Venus	35899-03-06 02:24 G	14832964.52	14832964.60	14832964.70	0.0139	0.0126
Mercury	35910-05-27 04:48 G	14837063.68	14837063.70	14837063.73	0.0144	0.0140

Mercury	35910-08-23 08:24 G	14837151.78	14837151.85	14837151.93	0.0144	0.0119
Mercury	35910-11-19 12:00 G	14837239.91	14837240.00	14837240.11	0.0144	0.0098
Mercury	35911-02-15 15:50 G	14837328.05	14837328.16	14837328.28	0.0144	0.0076
Mars	35911-05-13 16:48 G	14837414.99	14837415.20	14837415.45	0.0144	0.0084
Mercury	35911-05-14 19:41 G	14837416.20	14837416.32	14837416.44	0.0144	0.0055
Mercury	35911-08-10 23:17 G	14837504.34	14837504.47	14837504.61	0.0144	0.0034
Mercury	35911-11-07 03:07 G	14837592.50	14837592.63	14837592.77	0.0144	0.0012
Mercury	35912-02-03 06:57 G	14837680.65	14837680.79	14837680.92	0.0144	0.0011
Mercury	35912-05-01 10:48 G	14837768.81	14837768.95	14837769.08	0.0144	0.0033
Mercury	35912-07-28 14:38 G	14837856.98	14837857.11	14837857.23	0.0144	0.0055
Mercury	35912-10-24 18:14 G	14837945.15	14837945.26	14837945.38	0.0144	0.0077
Mercury	35913-01-20 22:05 G	14838033.33	14838033.42	14838033.53	0.0144	0.0100
Mercury	35913-04-19 02:09 G	14838121.52	14838121.59	14838121.66	0.0144	0.0122
Mercury	35913-07-16 06:00 G	14838209.75	14838209.75	14838209.76	0.0145	0.0144
Moon	35931-09-27 08:38 G	14844856.86	14844856.86	14844856.86	0.0143	0.0143
Moon	35932-09-30 22:19 G	14845226.21	14845226.43	14845226.67	0.0142	0.0062
Earth	35932-10-01 01:55 G	14845226.36	14845226.58	14845226.82	0.0142	0.0062 *
Earth	35933-10-05 22:19 G	14845596.18	14845596.43	14845596.69	0.0142	0.0020
Moon	35933-10-06 01:26 G	14845596.31	14845596.56	14845596.81	0.0142	0.0014 *
Jupiter	35933-10-16 05:02 G	14845606.69	14845606.71	14845606.79	0.0142	0.0141
Venus	35933-11-25 06:00 G	14845646.63	14845646.75	14845646.88	0.0142	0.0115
Venus	35934-07-09 16:33 G	14845873.02	14845873.19	14845873.38	0.0141	0.0083
Moon	35934-10-10 14:24 G	14845965.95	14845966.10	14845966.28	0.0141	0.0107
Earth	35934-10-10 17:45 G	14845966.07	14845966.24	14845966.43	0.0141	0.0100 *
Venus	35935-02-21 02:53 G	14846099.43	14846099.62	14846099.83	0.0141	0.0052
Venus	35935-10-05 13:12 G	14846325.84	14846326.05	14846326.27	0.0141	0.0021
Venus	35936-05-18 23:17 G	14846552.25	14846552.47	14846552.69	0.0141	0.0010
Venus	35936-12-31 08:53 G	14846778.67	14846778.87	14846779.08	0.0140	0.0041
Venus	35937-08-14 18:29 G	14847005.09	14847005.27	14847005.47	0.0140	0.0072
Venus	35938-03-29 04:05 G	14847231.52	14847231.67	14847231.82	0.0140	0.0101

Venus	35938-11-10 12:57 G	14847457.98	14847458.04	14847458.13	0.0139	0.0131
Mercury	35951-06-26 22:05 G	14852069.33	14852069.42	14852069.52	0.0134	0.0116
Mercury	35951-09-23 05:02 G	14852157.58	14852157.71	14852157.85	0.0134	0.0091
Mars	35951-11-21 16:19 G	14852216.97	14852217.18	14852217.44	0.0134	0.0095
Mercury	35951-12-20 12:00 G	14852245.84	14852246.00	14852246.16	0.0134	0.0066
Mercury	35952-03-17 18:43 G	14852334.11	14852334.28	14852334.46	0.0134	0.0041
Mercury	35952-06-14 01:41 G	14852422.38	14852422.57	14852422.75	0.0134	0.0016
Mercury	35952-09-10 08:24 G	14852510.66	14852510.85	14852511.04	0.0134	0.0009
Mercury	35952-12-07 14:53 G	14852598.95	14852599.12	14852599.31	0.0134	0.0034
Mercury	35953-03-05 21:36 G	14852687.24	14852687.40	14852687.57	0.0134	0.0057
Mercury	35953-06-02 04:19 G	14852775.53	14852775.68	14852775.83	0.0134	0.0081
Mercury	35953-08-29 10:48 G	14852863.84	14852863.95	14852864.07	0.0134	0.0105
Mercury	35953-11-25 17:02 G	14852952.18	14852952.21	14852952.27	0.0134	0.0129
Moon	35976-03-29 02:09 G	14861111.42	14861111.59	14861111.80	0.0136	0.0091
Earth	35976-03-29 06:14 G	14861111.58	14861111.76	14861111.93	0.0136	0.0097 *
Earth	35977-04-02 17:31 G	14861480.99	14861481.23	14861481.49	0.0136	0.0026
Moon	35977-04-02 21:07 G	14861481.14	14861481.38	14861481.64	0.0136	0.0033 *
Venus	35977-11-19 21:50 G	14861712.31	14861712.41	14861712.54	0.0136	0.0114
Moon	35978-04-07 02:24 G	14861850.37	14861850.60	14861850.84	0.0137	0.0049
Earth	35978-04-07 06:00 G	14861850.51	14861850.75	14861850.99	0.0137	0.0046 *
Venus	35978-07-04 04:48 G	14861938.54	14861938.70	14861938.88	0.0137	0.0087
Venus	35979-02-15 12:00 G	14862164.81	14862165.00	14862165.20	0.0137	0.0059
Earth	35979-04-11 18:00 G	14862220.15	14862220.25	14862220.39	0.0137	0.0119
Moon	35979-04-11 21:36 G	14862220.31	14862220.40	14862220.54	0.0137	0.0122 *
Venus	35979-09-29 19:12 G	14862391.09	14862391.30	14862391.52	0.0137	0.0031
Venus	35980-05-13 02:38 G	14862617.39	14862617.61	14862617.82	0.0138	0.0003
Venus	35980-12-25 10:05 G	14862843.70	14862843.92	14862844.13	0.0138	0.0026
Venus	35981-08-08 17:17 G	14863070.03	14863070.22	14863070.43	0.0138	0.0055
Venus	35982-03-23 01:12 G	14863296.39	14863296.55	14863296.73	0.0138	0.0084
Venus	35982-11-04 08:53 G	14863522.76	14863522.87	14863523.01	0.0139	0.0113

Mercury	35994-06-16 11:31 G	14867764.95	14867764.98	14867765.02	0.0144	0.0138
Mercury	35994-09-12 15:07 G	14867853.06	14867853.13	14867853.21	0.0144	0.0117
Mercury	35994-12-09 18:43 G	14867941.19	14867941.28	14867941.38	0.0144	0.0096
Mercury	35995-03-07 22:33 G	14868029.33	14868029.44	14868029.55	0.0144	0.0074
Mercury	35995-06-04 02:09 G	14868117.47	14868117.59	14868117.72	0.0144	0.0053
Mercury	35995-08-31 06:00 G	14868205.62	14868205.75	14868205.88	0.0144	0.0031
Mercury	35995-11-27 09:50 G	14868293.77	14868293.91	14868294.04	0.0144	0.0010
Mercury	35996-02-23 13:26 G	14868381.93	14868382.06	14868382.20	0.0144	0.0013
Mercury	35996-05-21 17:17 G	14868470.09	14868470.22	14868470.35	0.0144	0.0034
Mercury	35996-08-17 21:07 G	14868558.26	14868558.38	14868558.50	0.0144	0.0057
Mercury	35996-11-14 00:43 G	14868646.43	14868646.53	14868646.65	0.0144	0.0080
Mercury	35997-02-10 04:48 G	14868734.61	14868734.70	14868734.80	0.0144	0.0101
Mercury	35997-05-09 08:53 G	14868822.80	14868822.87	14868822.93	0.0145	0.0124

37TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 37th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	36015-09-27 13:41 G		14875538.06	14875538.07	14875538.10	0.0143	0.0142	
Moon	36016-10-01 07:26 G		14875907.59	14875907.81	14875908.05	0.0142	0.0061	
Earth	36016-10-01 11:17 G		14875907.74	14875907.97	14875908.20	0.0142	0.0060	*
Venus	36017-07-25 12:14 G		14876204.93	14876205.01	14876205.11	0.0142	0.0128	
Earth	36017-10-06 07:26 G		14876277.56	14876277.81	14876278.06	0.0142	0.0022	
Moon	36017-10-06 11:02 G		14876277.72	14876277.96	14876278.21	0.0142	0.0027	*

Venus	36018-03-08 22:48 G	14876431.31	14876431.45	14876431.63	0.0142	0.0097
Moon	36018-10-11 00:00 G	14876647.31	14876647.50	14876647.69	0.0141	0.0096
Earth	36018-10-11 03:07 G	14876647.46	14876647.63	14876647.81	0.0141	0.0103 *
Venus	36018-10-21 09:21 G	14876657.71	14876657.89	14876658.10	0.0141	0.0065
Venus	36019-06-04 19:41 G	14876884.12	14876884.32	14876884.54	0.0141	0.0034
Venus	36020-01-17 06:00 G	14877110.53	14877110.75	14877110.97	0.0141	0.0003
Venus	36020-08-30 15:50 G	14877336.96	14877337.16	14877337.38	0.0141	0.0029
Venus	36021-04-14 01:26 G	14877563.38	14877563.56	14877563.77	0.0140	0.0060
Venus	36021-11-26 11:02 G	14877789.80	14877789.96	14877790.14	0.0140	0.0089
Venus	36022-07-10 20:24 G	14878016.25	14878016.35	14878016.48	0.0140	0.0119
Mars	36034-08-13 06:29 G	14882432.64	14882432.77	14882432.93	0.0135	0.0121
Mercury	36035-04-19 22:19 G	14882682.43	14882682.43	14882682.45	0.0135	0.0134
Mercury	36035-07-17 05:31 G	14882770.62	14882770.73	14882770.84	0.0135	0.0109
Mercury	36035-10-13 12:14 G	14882858.87	14882859.01	14882859.17	0.0134	0.0084
Mercury	36036-01-09 19:12 G	14882947.14	14882947.30	14882947.47	0.0134	0.0059
Mercury	36036-04-07 02:09 G	14883035.41	14883035.59	14883035.77	0.0134	0.0034
Mercury	36036-07-04 08:53 G	14883123.68	14883123.87	14883124.06	0.0134	0.0009
Mercury	36036-09-30 15:36 G	14883211.97	14883212.15	14883212.34	0.0134	0.0016
Mercury	36036-12-27 22:19 G	14883300.25	14883300.43	14883300.61	0.0134	0.0040
Mercury	36037-03-26 05:02 G	14883388.55	14883388.71	14883388.87	0.0134	0.0064
Mercury	36037-06-22 11:31 G	14883476.85	14883476.98	14883477.12	0.0134	0.0088
Mercury	36037-09-18 18:00 G	14883565.16	14883565.25	14883565.36	0.0134	0.0112
Moon	36060-03-29 13:41 G	14891792.91	14891793.07	14891793.24	0.0136	0.0101
Earth	36060-03-29 17:02 G	14891793.03	14891793.21	14891793.40	0.0136	0.0093 *
Earth	36061-04-03 04:19 G	14892162.43	14892162.68	14892162.94	0.0136	0.0022
Moon	36061-04-03 07:41 G	14892162.57	14892162.82	14892163.08	0.0136	0.0017 *
Venus	36061-07-20 07:26 G	14892270.74	14892270.81	14892270.91	0.0136	0.0124
Venus	36062-03-03 14:38 G	14892496.96	14892497.11	14892497.26	0.0137	0.0097
Moon	36062-04-07 12:43 G	14892531.80	14892532.03	14892532.27	0.0137	0.0047
Earth	36062-04-07 16:05 G	14892531.95	14892532.17	14892532.42	0.0137	0.0051 *

Venus	36062-10-15 21:07 G	14892723.21	14892723.38	14892723.58	0.0137	0.0070
Earth	36063-04-12 04:33 G	14892901.60	14892901.69	14892901.82	0.0137	0.0123
Moon	36063-04-12 08:09 G	14892901.74	14892901.84	14892901.96	0.0137	0.0123 *
Venus	36063-05-30 04:19 G	14892949.48	14892949.68	14892949.89	0.0137	0.0042
Venus	36064-01-11 11:45 G	14893175.77	14893175.99	14893176.20	0.0137	0.0014
Venus	36064-08-24 18:57 G	14893402.08	14893402.29	14893402.51	0.0138	0.0015
Venus	36065-04-08 02:09 G	14893628.40	14893628.59	14893628.81	0.0138	0.0044
Venus	36065-11-20 09:50 G	14893854.73	14893854.91	14893855.10	0.0138	0.0072
Venus	36066-07-04 17:45 G	14894081.09	14894081.24	14894081.39	0.0138	0.0101
Venus	36067-02-16 01:41 G	14894307.51	14894307.57	14894307.65	0.0139	0.0130
Mercury	36078-07-06 18:29 G	14898466.23	14898466.27	14898466.32	0.0144	0.0134
Mars	36078-09-29 19:55 G	14898551.05	14898551.33	14898551.62	0.0144	0.0019
Mercury	36078-10-02 22:05 G	14898554.35	14898554.42	14898554.51	0.0144	0.0113
Mercury	36078-12-30 01:41 G	14898642.48	14898642.57	14898642.68	0.0144	0.0092
Mercury	36079-03-28 05:31 G	14898730.62	14898730.73	14898730.85	0.0144	0.0070
Mercury	36079-06-24 09:07 G	14898818.76	14898818.88	14898819.01	0.0144	0.0049
Mercury	36079-09-20 12:57 G	14898906.91	14898907.04	14898907.17	0.0144	0.0027
Mercury	36079-12-17 16:48 G	14898995.06	14898995.20	14898995.33	0.0144	0.0006
Mercury	36080-03-14 20:24 G	14899083.22	14899083.35	14899083.49	0.0144	0.0017
Mercury	36080-06-11 00:14 G	14899171.38	14899171.51	14899171.64	0.0144	0.0039
Mercury	36080-09-07 04:05 G	14899259.55	14899259.67	14899259.79	0.0144	0.0061
Mercury	36080-12-04 07:55 G	14899347.72	14899347.83	14899347.94	0.0144	0.0083
Mercury	36081-03-02 11:45 G	14899435.90	14899435.99	14899436.09	0.0144	0.0105
Mercury	36081-05-29 15:36 G	14899524.10	14899524.15	14899524.22	0.0144	0.0128
Earth	36099-09-27 22:19 G	14906219.39	14906219.43	14906219.48	0.0143	0.0140
Moon	36099-09-28 01:41 G	14906219.52	14906219.57	14906219.66	0.0143	0.0137
Moon	36100-10-02 16:05 G	14906588.94	14906589.17	14906589.40	0.0142	0.0059
Earth	36100-10-02 19:41 G	14906589.09	14906589.32	14906589.56	0.0142	0.0058 *
Venus	36101-03-25 18:00 G	14906763.24	14906763.25	14906763.29	0.0142	0.0141
Earth	36101-10-07 16:05 G	14906958.93	14906959.17	14906959.43	0.0142	0.0024

Moon	36101-10-07 19:41 G	14906959.07	14906959.32	14906959.57	0.0142	0.0020 *
Venus	36101-11-07 04:48 G	14906989.58	14906989.70	14906989.85	0.0142	0.0110
Venus	36102-06-21 15:21 G	14907215.97	14907216.14	14907216.34	0.0142	0.0079
Moon	36102-10-12 07:55 G	14907328.69	14907328.83	14907329.00	0.0141	0.0112
Earth	36102-10-12 11:45 G	14907328.83	14907328.99	14907329.17	0.0141	0.0105 *
Venus	36103-02-03 02:09 G	14907442.38	14907442.59	14907442.80	0.0141	0.0047
Venus	36103-09-17 12:14 G	14907668.80	14907669.01	14907669.24	0.0141	0.0016
Venus	36104-04-30 22:19 G	14907895.22	14907895.43	14907895.65	0.0141	0.0016
Venus	36104-12-13 07:55 G	14908121.64	14908121.83	14908122.05	0.0141	0.0047
Venus	36105-07-27 17:45 G	14908348.07	14908348.24	14908348.44	0.0140	0.0077
Venus	36106-03-11 03:21 G	14908574.51	14908574.64	14908574.79	0.0140	0.0106
Venus	36106-10-23 12:29 G	14908800.99	14908801.02	14908801.09	0.0140	0.0136
Mars	36119-04-09 19:26 G	14913351.98	14913352.31	14913352.65	0.0135	0.0011
Mercury	36119-05-11 05:31 G	14913383.68	14913383.73	14913383.79	0.0135	0.0128
Mercury	36119-08-07 12:29 G	14913471.91	14913472.02	14913472.15	0.0135	0.0103
Mercury	36119-11-03 19:12 G	14913560.16	14913560.30	14913560.47	0.0135	0.0078
Mercury	36120-01-31 02:09 G	14913648.43	14913648.59	14913648.77	0.0134	0.0053
Mercury	36120-04-28 09:07 G	14913736.70	14913736.88	14913737.07	0.0134	0.0028
Mercury	36120-07-25 16:05 G	14913824.98	14913825.17	14913825.36	0.0134	0.0003
Mercury	36120-10-21 22:48 G	14913913.26	14913913.45	14913913.63	0.0134	0.0022
Mercury	36121-01-18 05:31 G	14914001.55	14914001.73	14914001.90	0.0134	0.0047
Mercury	36121-04-16 11:45 G	14914089.85	14914089.99	14914090.16	0.0134	0.0072
Mercury	36121-07-13 18:29 G	14914178.15	14914178.27	14914178.41	0.0134	0.0095
Mercury	36121-10-10 00:57 G	14914266.47	14914266.54	14914266.64	0.0134	0.0119
Moon	36144-03-31 00:43 G	14922474.34	14922474.53	14922474.74	0.0136	0.0083
Earth	36144-03-31 03:36 G	14922474.48	14922474.65	14922474.86	0.0136	0.0090 *
Venus	36145-03-20 17:02 G	14922829.19	14922829.21	14922829.26	0.0136	0.0134
Earth	36145-04-04 15:07 G	14922843.88	14922844.13	14922844.39	0.0136	0.0018
Moon	36145-04-04 18:29 G	14922844.02	14922844.27	14922844.53	0.0136	0.0025 *
Venus	36145-11-01 23:45 G	14923055.37	14923055.49	14923055.64	0.0136	0.0107

Moon	36146-04-09 00:00 G	14923213.28	14923213.50	14923213.73	0.0137	0.0058
Earth	36146-04-09 03:07 G	14923213.40	14923213.63	14923213.87	0.0137	0.0054 *
Venus	36146-06-16 06:43 G	14923281.61	14923281.78	14923281.96	0.0137	0.0080
Venus	36147-01-28 13:55 G	14923507.88	14923508.08	14923508.28	0.0137	0.0052
Earth	36147-04-13 15:07 G	14923583.05	14923583.13	14923583.24	0.0137	0.0127
Moon	36147-04-13 18:57 G	14923583.21	14923583.29	14923583.39	0.0137	0.0127 *
Venus	36147-09-11 20:53 G	14923734.16	14923734.37	14923734.59	0.0137	0.0025
Venus	36148-04-25 04:05 G	14923960.46	14923960.67	14923960.89	0.0137	0.0005
Venus	36148-12-07 11:17 G	14924186.77	14924186.97	14924187.19	0.0138	0.0033
Venus	36149-07-21 18:57 G	14924413.10	14924413.29	14924413.49	0.0138	0.0061
Venus	36150-03-05 02:53 G	14924639.46	14924639.62	14924639.78	0.0138	0.0090
Venus	36150-10-17 10:33 G	14924865.84	14924865.94	14924866.06	0.0139	0.0119
Mercury	36162-07-28 01:41 G	14929167.53	14929167.57	14929167.64	0.0144	0.0129
Mercury	36162-10-24 05:31 G	14929255.65	14929255.73	14929255.82	0.0144	0.0107
Mercury	36163-01-20 09:21 G	14929343.78	14929343.89	14929343.99	0.0144	0.0086
Mercury	36163-04-18 12:57 G	14929431.92	14929432.04	14929432.16	0.0144	0.0065
Mars	36163-05-26 17:31 G	14929470.08	14929470.23	14929470.42	0.0144	0.0116
Mercury	36163-07-15 16:33 G	14929520.07	14929520.19	14929520.32	0.0144	0.0043
Mercury	36163-10-11 20:24 G	14929608.22	14929608.35	14929608.48	0.0144	0.0021
Mercury	36164-01-08 00:14 G	14929696.37	14929696.51	14929696.64	0.0144	0.0004
Mercury	36164-04-05 03:50 G	14929784.53	14929784.66	14929784.80	0.0144	0.0023
Mercury	36164-07-02 07:41 G	14929872.69	14929872.82	14929872.95	0.0144	0.0045
Mercury	36164-09-28 11:31 G	14929960.86	14929960.98	14929961.10	0.0144	0.0067
Mercury	36164-12-25 15:07 G	14930049.03	14930049.13	14930049.25	0.0144	0.0090
Mercury	36165-03-23 19:12 G	14930137.22	14930137.30	14930137.39	0.0144	0.0112
Mercury	36165-06-19 23:02 G	14930225.42	14930225.46	14930225.51	0.0144	0.0134
Earth	36183-09-29 09:36 G	14936900.84	14936900.90	14936900.98	0.0143	0.0136
Moon	36183-09-29 12:57 G	14936901.01	14936901.04	14936901.08	0.0143	0.0141
Moon	36184-10-03 03:36 G	14937270.43	14937270.65	14937270.89	0.0142	0.0054
Earth	36184-10-03 07:12 G	14937270.57	14937270.80	14937271.04	0.0142	0.0054 *

Venus	36185-07-07 12:43 G	14937547.92	14937548.03	14937548.15	0.0142	0.0121
Earth	36185-10-08 03:36 G	14937640.40	14937640.65	14937640.90	0.0142	0.0028
Moon	36185-10-08 07:12 G	14937640.56	14937640.80	14937641.05	0.0142	0.0032 *
Venus	36186-02-18 23:17 G	14937774.31	14937774.47	14937774.65	0.0142	0.0090
Venus	36186-10-03 09:50 G	14938000.72	14938000.91	14938001.11	0.0142	0.0059
Moon	36186-10-12 19:26 G	14938010.16	14938010.31	14938010.50	0.0141	0.0104
Earth	36186-10-12 22:48 G	14938010.31	14938010.45	14938010.63	0.0141	0.0110 *
Venus	36187-05-17 20:09 G	14938227.13	14938227.34	14938227.56	0.0141	0.0027
Venus	36187-12-30 06:14 G	14938453.55	14938453.76	14938453.98	0.0141	0.0005
Venus	36188-08-12 16:19 G	14938679.97	14938680.18	14938680.40	0.0141	0.0034
Venus	36189-03-27 02:09 G	14938906.40	14938906.59	14938906.79	0.0140	0.0065
Venus	36189-11-08 11:45 G	14939132.83	14939132.99	14939133.15	0.0140	0.0095
Venus	36190-06-22 21:07 G	14939359.29	14939359.38	14939359.48	0.0140	0.0124
Mercury	36203-06-01 13:12 G	14944084.97	14944085.05	14944085.14	0.0135	0.0120
Mercury	36203-08-28 19:55 G	14944173.21	14944173.33	14944173.48	0.0135	0.0095
Mercury	36203-11-25 02:53 G	14944261.47	14944261.62	14944261.79	0.0135	0.0070
Mercury	36204-02-21 09:50 G	14944349.74	14944349.91	14944350.09	0.0134	0.0044
Mercury	36204-05-19 16:48 G	14944438.01	14944438.20	14944438.39	0.0134	0.0019
Mercury	36204-08-15 23:31 G	14944526.30	14944526.48	14944526.67	0.0134	0.0006
Mercury	36204-11-12 06:14 G	14944614.58	14944614.76	14944614.95	0.0134	0.0030
Mercury	36205-02-08 12:57 G	14944702.87	14944703.04	14944703.21	0.0134	0.0055
Mercury	36205-05-07 19:26 G	14944791.17	14944791.31	14944791.47	0.0134	0.0079
Mercury	36205-08-04 01:55 G	14944879.48	14944879.58	14944879.71	0.0134	0.0104
Mercury	36205-10-31 08:38 G	14944967.81	14944967.86	14944967.93	0.0134	0.0127
Moon	36228-04-01 14:09 G	14953155.92	14953156.09	14953156.28	0.0136	0.0092
Earth	36228-04-01 16:19 G	14953156.01	14953156.18	14953156.40	0.0136	0.0085 *
Earth	36229-04-06 04:05 G	14953525.42	14953525.67	14953525.93	0.0136	0.0013
Moon	36229-04-06 06:57 G	14953525.53	14953525.79	14953526.05	0.0136	0.0007 *
Venus	36229-07-03 10:33 G	14953613.85	14953613.94	14953614.07	0.0136	0.0117
Venus	36230-02-14 17:45 G	14953840.08	14953840.24	14953840.41	0.0137	0.0089

Moon	36230-04-10 12:43 G	14953894.81	14953895.03	14953895.27	0.0137	0.0055
Earth	36230-04-10 15:36 G	14953894.94	14953895.15	14953895.40	0.0137	0.0060 *
Venus	36230-09-29 00:29 G	14954066.34	14954066.52	14954066.72	0.0137	0.0062
Earth	36231-04-15 04:05 G	14954264.63	14954264.67	14954264.76	0.0137	0.0132
Moon	36231-04-15 07:12 G	14954264.76	14954264.80	14954264.87	0.0137	0.0133 *
Venus	36231-05-13 07:26 G	14954292.61	14954292.81	14954293.03	0.0137	0.0034
Venus	36231-12-25 14:53 G	14954518.90	14954519.12	14954519.34	0.0137	0.0006
Venus	36232-08-07 22:05 G	14954745.21	14954745.42	14954745.64	0.0138	0.0023
Venus	36233-03-22 05:45 G	14954971.54	14954971.74	14954971.94	0.0138	0.0051
Venus	36233-11-03 13:12 G	14955197.88	14955198.05	14955198.23	0.0138	0.0080
Venus	36234-06-17 21:07 G	14955424.25	14955424.38	14955424.52	0.0138	0.0109
Venus	36235-01-30 05:02 G	14955650.70	14955650.71	14955650.75	0.0139	0.0138
Mars	36246-02-18 16:48 G	14959688.00	14959688.20	14959688.39	0.0143	0.0104
Mercury	36246-05-22 06:14 G	14959780.74	14959780.76	14959780.78	0.0144	0.0141
Mercury	36246-08-18 09:50 G	14959868.84	14959868.91	14959868.98	0.0144	0.0120
Mercury	36246-11-14 13:26 G	14959956.97	14959957.06	14959957.16	0.0144	0.0099
Mercury	36247-02-10 17:02 G	14960045.11	14960045.21	14960045.33	0.0144	0.0078
Mercury	36247-05-09 20:53 G	14960133.25	14960133.37	14960133.49	0.0144	0.0056
Mercury	36247-08-06 00:29 G	14960221.40	14960221.52	14960221.66	0.0144	0.0035
Mercury	36247-11-02 04:19 G	14960309.55	14960309.68	14960309.82	0.0144	0.0013
Mercury	36248-01-29 08:09 G	14960397.70	14960397.84	14960397.97	0.0144	0.0009
Mercury	36248-04-26 12:00 G	14960485.86	14960486.00	14960486.13	0.0144	0.0032
Mercury	36248-07-23 15:36 G	14960574.03	14960574.15	14960574.28	0.0144	0.0054
Mercury	36248-10-19 19:26 G	14960662.20	14960662.31	14960662.43	0.0144	0.0076
Mercury	36249-01-15 23:17 G	14960750.38	14960750.47	14960750.57	0.0144	0.0098
Mercury	36249-04-14 03:21 G	14960838.56	14960838.64	14960838.71	0.0144	0.0121
Mercury	36249-07-11 06:57 G	14960926.79	14960926.79	14960926.81	0.0144	0.0144
Earth	36267-09-30 23:17 G	14967582.39	14967582.47	14967582.59	0.0143	0.0131
Moon	36267-10-01 02:38 G	14967582.50	14967582.61	14967582.74	0.0143	0.0126 *
Moon	36268-10-04 17:17 G	14967952.00	14967952.22	14967952.47	0.0142	0.0051

Earth	36268-10-04 20:53 G	14967952.13	14967952.37	14967952.61	0.0142	0.0048 *
Venus	36269-03-07 21:21 G	14968106.33	14968106.39	14968106.49	0.0142	0.0133
Earth	36269-10-09 17:02 G	14968321.97	14968322.21	14968322.46	0.0142	0.0034
Moon	36269-10-09 20:24 G	14968322.11	14968322.35	14968322.61	0.0142	0.0031 *
Venus	36269-10-20 08:09 G	14968332.70	14968332.84	14968333.01	0.0142	0.0101
Venus	36270-06-03 18:43 G	14968559.10	14968559.28	14968559.48	0.0142	0.0070
Moon	36270-10-14 09:07 G	14968691.75	14968691.88	14968692.01	0.0142	0.0121
Earth	36270-10-14 12:29 G	14968691.89	14968692.02	14968692.18	0.0142	0.0115 *
Venus	36271-01-16 05:17 G	14968785.51	14968785.72	14968785.93	0.0141	0.0038
Venus	36271-08-30 15:36 G	14969011.93	14969012.15	14969012.37	0.0141	0.0007
Venus	36272-04-13 01:41 G	14969238.35	14969238.57	14969238.79	0.0141	0.0024
Venus	36272-11-25 11:31 G	14969464.78	14969464.98	14969465.18	0.0141	0.0054
Venus	36273-07-09 21:07 G	14969691.21	14969691.38	14969691.56	0.0140	0.0084
Venus	36274-02-21 06:29 G	14969917.66	14969917.77	14969917.91	0.0140	0.0114
Mars	36286-08-27 02:38 G	14974487.34	14974487.61	14974487.91	0.0135	0.0071
Mercury	36287-06-21 20:53 G	14974786.28	14974786.37	14974786.49	0.0135	0.0111
Mercury	36287-09-18 03:50 G	14974874.53	14974874.66	14974874.82	0.0135	0.0086
Mercury	36287-12-15 10:48 G	14974962.79	14974962.95	14974963.13	0.0134	0.0061
Mercury	36288-03-12 17:45 G	14975051.06	14975051.24	14975051.43	0.0134	0.0035
Mercury	36288-06-09 00:43 G	14975139.34	14975139.53	14975139.72	0.0134	0.0010
Mercury	36288-09-05 07:26 G	14975227.63	14975227.81	14975228.00	0.0134	0.0015
Mercury	36288-12-02 14:09 G	14975315.92	14975316.09	14975316.27	0.0134	0.0039
Mercury	36289-02-28 20:38 G	14975404.21	14975404.36	14975404.54	0.0134	0.0064
Mercury	36289-05-28 03:21 G	14975492.51	14975492.64	14975492.79	0.0134	0.0088
Mercury	36289-08-24 09:50 G	14975580.83	14975580.91	14975581.03	0.0134	0.0112
Moon	36312-04-03 02:09 G	14983837.40	14983837.59	14983837.81	0.0136	0.0074
Earth	36312-04-03 04:33 G	14983837.49	14983837.69	14983837.90	0.0136	0.0080 *
Venus	36313-03-03 21:07 G	14984172.31	14984172.38	14984172.47	0.0136	0.0126
Earth	36313-04-07 15:50 G	14984206.91	14984207.16	14984207.42	0.0136	0.0009
Moon	36313-04-07 18:14 G	14984207.00	14984207.26	14984207.52	0.0136	0.0016 *

Venus	36313-10-16 03:50 G	14984398.52	14984398.66	14984398.81	0.0136	0.0099
Moon	36314-04-12 01:12 G	14984576.35	14984576.55	14984576.78	0.0137	0.0069
Earth	36314-04-12 03:36 G	14984576.43	14984576.65	14984576.88	0.0137	0.0064 *
Venus	36314-05-30 10:19 G	14984624.76	14984624.93	14984625.13	0.0137	0.0072
Venus	36315-01-11 17:31 G	14984851.03	14984851.23	14984851.44	0.0137	0.0044
Earth	36315-04-16 16:19 G	14984946.16	14984946.18	14984946.20	0.0137	0.0137
Moon	36315-04-16 19:12 G	14984946.27	14984946.30	14984946.34	0.0137	0.0136
Venus	36315-08-26 00:43 G	14985077.32	14985077.53	14985077.75	0.0137	0.0016
Venus	36316-04-08 08:09 G	14985303.62	14985303.84	14985304.05	0.0137	0.0013
Venus	36316-11-20 15:21 G	14985529.94	14985530.14	14985530.35	0.0138	0.0041
Venus	36317-07-04 22:48 G	14985756.27	14985756.45	14985756.65	0.0138	0.0070
Venus	36318-02-16 06:43 G	14985982.64	14985982.78	14985982.94	0.0138	0.0098
Venus	36318-09-30 14:53 G	14986209.04	14986209.12	14986209.21	0.0139	0.0127
Mercury	36330-06-12 13:55 G	14990482.04	14990482.08	14990482.13	0.0144	0.0134
Mercury	36330-09-08 17:31 G	14990570.15	14990570.23	14990570.31	0.0144	0.0113
Mars	36330-10-15 15:07 G	14990606.86	14990607.13	14990607.41	0.0144	0.0033
Mercury	36330-12-05 21:07 G	14990658.28	14990658.38	14990658.49	0.0144	0.0092
Mercury	36331-03-04 00:57 G	14990746.42	14990746.54	14990746.66	0.0144	0.0070
Mercury	36331-05-31 04:33 G	14990834.57	14990834.69	14990834.82	0.0144	0.0049
Mercury	36331-08-27 08:24 G	14990922.72	14990922.85	14990922.98	0.0144	0.0027
Mercury	36331-11-23 12:00 G	14991010.87	14991011.00	14991011.14	0.0144	0.0007
Mercury	36332-02-19 15:50 G	14991099.03	14991099.16	14991099.30	0.0144	0.0017
Mercury	36332-05-17 19:41 G	14991187.19	14991187.32	14991187.45	0.0144	0.0039
Mercury	36332-08-13 23:31 G	14991275.36	14991275.48	14991275.60	0.0144	0.0061
Mercury	36332-11-10 03:07 G	14991363.53	14991363.63	14991363.75	0.0144	0.0084
Mercury	36333-02-06 07:12 G	14991451.71	14991451.80	14991451.89	0.0144	0.0106
Mercury	36333-05-05 10:48 G	14991539.91	14991539.95	14991540.02	0.0144	0.0130
Earth	36351-10-02 14:38 G	14998264.01	14998264.11	14998264.26	0.0143	0.0124
Moon	36351-10-02 17:31 G	14998264.13	14998264.23	14998264.35	0.0143	0.0129 *
Moon	36352-10-06 09:21 G	14998633.65	14998633.89	14998634.13	0.0142	0.0040

Earth	36352-10-06 12:14 G	14998633.77	14998634.01	14998634.26	0.0142	0.0041	*
Venus	36352-11-06 07:26 G	14998664.81	14998664.81	14998664.84	0.0142	0.0142	
Venus	36353-06-20 18:14 G	14998891.14	14998891.26	14998891.41	0.0142	0.0111	
Earth	36353-10-11 08:24 G	14999003.61	14999003.85	14999004.10	0.0142	0.0041	
Moon	36353-10-11 11:45 G	14999003.75	14999003.99	14999004.24	0.0142	0.0044	*
Venus	36354-02-02 04:48 G	14999117.54	14999117.70	14999117.90	0.0142	0.0080	
Venus	36354-09-16 15:21 G	14999343.95	14999344.14	14999344.36	0.0142	0.0049	
Moon	36354-10-16 00:29 G	14999373.40	14999373.52	14999373.68	0.0142	0.0117	
Earth	36354-10-16 03:50 G	14999373.55	14999373.66	14999373.80	0.0142	0.0122	*
Venus	36355-05-01 01:55 G	14999570.36	14999570.58	14999570.80	0.0141	0.0017	
Venus	36355-12-13 12:00 G	14999796.78	14999797.00	14999797.22	0.0141	0.0014	
Venus	36356-07-26 21:50 G	15000023.21	15000023.41	15000023.63	0.0141	0.0045	
Venus	36357-03-10 07:41 G	15000249.65	15000249.82	15000250.01	0.0140	0.0075	
Venus	36357-10-22 17:31 G	15000476.09	15000476.23	15000476.37	0.0140	0.0105	
Venus	36358-06-06 02:38 G	15000702.56	15000702.61	15000702.68	0.0140	0.0134	
Mercury	36371-04-15 22:19 G	15005399.37	15005399.43	15005399.50	0.0135	0.0126	
Mars	36371-04-24 00:43 G	15005407.26	15005407.53	15005407.84	0.0135	0.0069	
Mercury	36371-07-13 05:02 G	15005487.60	15005487.71	15005487.85	0.0135	0.0101	
Mercury	36371-10-09 12:29 G	15005575.86	15005576.02	15005576.18	0.0134	0.0075	
Mercury	36372-01-05 19:12 G	15005664.13	15005664.30	15005664.48	0.0134	0.0050	
Mercury	36372-04-03 02:09 G	15005752.41	15005752.59	15005752.78	0.0134	0.0025	
Mercury	36372-06-30 09:07 G	15005840.69	15005840.88	15005841.07	0.0134	0.0002	
Mercury	36372-09-26 15:50 G	15005928.98	15005929.16	15005929.34	0.0134	0.0025	
Mercury	36372-12-23 22:19 G	15006017.27	15006017.43	15006017.61	0.0134	0.0050	
Mercury	36373-03-22 05:02 G	15006105.57	15006105.71	15006105.87	0.0134	0.0074	
Mercury	36373-06-18 11:45 G	15006193.87	15006193.99	15006194.12	0.0134	0.0098	
Mercury	36373-09-14 18:29 G	15006282.20	15006282.27	15006282.34	0.0134	0.0122	
Moon	36396-04-03 15:50 G	15014518.96	15014519.16	15014519.35	0.0136	0.0082	
Earth	36396-04-03 17:02 G	15014519.00	15014519.21	15014519.43	0.0136	0.0075	*
Venus	36396-11-01 07:55 G	15014730.80	15014730.83	15014730.86	0.0136	0.0134	

Earth	36397-04-08 04:19 G	15014888.43	15014888.68	15014888.93	0.0136	0.0004
Moon	36397-04-08 06:00 G	15014888.49	15014888.75	15014889.02	0.0136	0.0004 *
Venus	36397-06-15 13:55 G	15014956.97	15014957.08	15014957.24	0.0136	0.0109
Venus	36398-01-27 21:07 G	15015183.22	15015183.38	15015183.56	0.0137	0.0081
Moon	36398-04-12 13:26 G	15015257.86	15015258.06	15015258.30	0.0137	0.0064
Earth	36398-04-12 15:50 G	15015257.95	15015258.16	15015258.39	0.0137	0.0069 *
Venus	36398-09-11 03:50 G	15015409.48	15015409.66	15015409.88	0.0137	0.0054
Venus	36399-04-25 11:02 G	15015635.75	15015635.96	15015636.18	0.0137	0.0026
Venus	36399-12-07 18:14 G	15015862.05	15015862.26	15015862.48	0.0137	0.0003
Venus	36400-07-21 01:41 G	15016088.36	15016088.57	15016088.78	0.0138	0.0031
Venus	36401-03-04 09:07 G	15016314.69	15016314.88	15016315.08	0.0138	0.0060
Venus	36401-10-16 16:48 G	15016541.04	15016541.20	15016541.38	0.0138	0.0088
Venus	36402-05-31 00:57 G	15016767.42	15016767.54	15016767.65	0.0138	0.0117
Mercury	36414-07-02 21:21 G	15021183.34	15021183.39	15021183.46	0.0144	0.0127
Mercury	36414-09-29 01:12 G	15021271.47	15021271.55	15021271.64	0.0144	0.0105
Mercury	36414-12-26 04:48 G	15021359.60	15021359.70	15021359.81	0.0144	0.0084
Mercury	36415-03-24 08:38 G	15021447.74	15021447.86	15021447.98	0.0144	0.0062
Mercury	36415-06-20 12:14 G	15021535.89	15021536.01	15021536.14	0.0144	0.0041
Mercury	36415-09-16 16:05 G	15021624.04	15021624.17	15021624.31	0.0144	0.0019
Mercury	36415-12-13 19:55 G	15021712.19	15021712.33	15021712.46	0.0144	0.0003
Mercury	36416-03-10 23:45 G	15021800.35	15021800.49	15021800.62	0.0144	0.0025
Mercury	36416-06-07 03:21 G	15021888.52	15021888.64	15021888.77	0.0144	0.0048
Mercury	36416-09-03 07:12 G	15021976.69	15021976.80	15021976.92	0.0144	0.0070
Mercury	36416-11-30 11:02 G	15022064.86	15022064.96	15022065.07	0.0144	0.0092
Mercury	36417-02-26 14:53 G	15022153.05	15022153.12	15022153.21	0.0144	0.0115
Mercury	36417-05-25 18:43 G	15022241.25	15022241.28	15022241.33	0.0144	0.0137
Earth	36435-10-03 05:45 G	15028945.61	15028945.74	15028945.90	0.0143	0.0117
Moon	36435-10-03 08:09 G	15028945.69	15028945.84	15028946.02	0.0143	0.0112 *
Moon	36436-10-07 00:43 G	15029315.29	15029315.53	15029315.77	0.0142	0.0037
Earth	36436-10-07 03:07 G	15029315.38	15029315.63	15029315.88	0.0142	0.0034 *

Venus	36437-02-18 04:05 G	15029449.57	15029449.67	15029449.80	0.0142	0.0121
Venus	36437-10-02 14:38 G	15029675.96	15029676.11	15029676.30	0.0142	0.0090
Earth	36437-10-11 23:17 G	15029685.24	15029685.47	15029685.72	0.0142	0.0048
Moon	36437-10-12 02:09 G	15029685.35	15029685.59	15029685.85	0.0142	0.0046 *
Venus	36438-05-17 01:26 G	15029902.37	15029902.56	15029902.77	0.0142	0.0059
Moon	36438-10-16 15:21 G	15030055.08	15030055.14	15030055.23	0.0142	0.0135
Earth	36438-10-16 18:43 G	15030055.19	15030055.28	15030055.40	0.0142	0.0129 *
Venus	36438-12-29 11:45 G	15030128.78	15030128.99	15030129.21	0.0141	0.0028
Venus	36439-08-12 22:19 G	15030355.21	15030355.43	15030355.65	0.0141	0.0004
Venus	36440-03-26 08:09 G	15030581.64	15030581.84	15030582.06	0.0141	0.0035
Venus	36440-11-07 18:14 G	15030808.07	15030808.26	15030808.45	0.0141	0.0065
Venus	36441-06-22 03:36 G	15031034.51	15031034.65	15031034.83	0.0140	0.0095
Venus	36442-02-03 13:12 G	15031260.97	15031261.05	15031261.16	0.0140	0.0125
Mercury	36455-05-06 06:43 G	15036100.69	15036100.78	15036100.88	0.0135	0.0115
Mercury	36455-08-02 13:41 G	15036188.94	15036189.07	15036189.22	0.0134	0.0089
Mercury	36455-10-29 20:38 G	15036277.20	15036277.36	15036277.53	0.0134	0.0064
Mercury	36456-01-26 03:36 G	15036365.48	15036365.65	15036365.84	0.0134	0.0039
Mercury	36456-04-23 10:33 G	15036453.75	15036453.94	15036454.13	0.0134	0.0014
Mercury	36456-07-20 17:31 G	15036542.04	15036542.23	15036542.41	0.0134	0.0011
Mercury	36456-10-17 00:00 G	15036630.33	15036630.50	15036630.69	0.0134	0.0036
Mercury	36457-01-13 06:43 G	15036718.62	15036718.78	15036718.95	0.0134	0.0060
Mercury	36457-04-11 13:12 G	15036806.92	15036807.05	15036807.21	0.0134	0.0085
Mercury	36457-07-08 19:55 G	15036895.24	15036895.33	15036895.45	0.0134	0.0109
Mercury	36457-10-05 02:24 G	15036983.60	15036983.60	15036983.64	0.0134	0.0133
Moon	36480-04-04 02:24 G	15045200.40	15045200.60	15045200.83	0.0136	0.0066
Earth	36480-04-04 03:21 G	15045200.44	15045200.64	15045200.87	0.0136	0.0072 *
Venus	36481-02-12 23:45 G	15045515.40	15045515.49	15045515.61	0.0136	0.0118
Earth	36481-04-08 14:38 G	15045569.85	15045570.11	15045570.36	0.0136	0.0002
Moon	36481-04-08 15:50 G	15045569.89	15045570.16	15045570.42	0.0136	0.0008 *
Venus	36481-09-27 06:14 G	15045741.62	15045741.76	15045741.94	0.0136	0.0092

Moon	36482-04-13 00:57 G	15045939.35	15045939.54	15045939.75	0.0137	0.0078
Earth	36482-04-13 02:09 G	15045939.38	15045939.59	15045939.81	0.0137	0.0072 *
Venus	36482-05-11 13:12 G	15045967.86	15045968.05	15045968.25	0.0137	0.0064
Venus	36482-12-23 20:09 G	15046194.13	15046194.34	15046194.55	0.0137	0.0036
Venus	36483-08-07 03:21 G	15046420.42	15046420.64	15046420.85	0.0137	0.0009
Venus	36484-03-20 10:19 G	15046646.72	15046646.93	15046647.15	0.0137	0.0021
Venus	36484-11-01 17:45 G	15046873.04	15046873.24	15046873.45	0.0138	0.0048
Venus	36485-06-16 01:12 G	15047099.38	15047099.55	15047099.74	0.0138	0.0077
Venus	36486-01-28 09:07 G	15047325.75	15047325.88	15047326.03	0.0138	0.0105
Venus	36486-09-11 16:48 G	15047552.17	15047552.20	15047552.27	0.0138	0.0134
Mars	36498-03-04 05:45 G	15051743.49	15051743.74	15051744.01	0.0144	0.0060
Mercury	36498-04-26 00:57 G	15051796.54	15051796.54	15051796.55	0.0144	0.0143
Mercury	36498-07-23 04:33 G	15051884.63	15051884.69	15051884.76	0.0144	0.0122
Mercury	36498-10-19 08:24 G	15051972.76	15051972.85	15051972.94	0.0144	0.0101
Mercury	36499-01-15 12:00 G	15052060.89	15052061.00	15052061.11	0.0144	0.0080
Mercury	36499-04-13 15:36 G	15052149.03	15052149.15	15052149.28	0.0144	0.0058
Mercury	36499-07-10 19:26 G	15052237.18	15052237.31	15052237.44	0.0144	0.0036
Mercury	36499-10-06 23:17 G	15052325.33	15052325.47	15052325.60	0.0144	0.0015
Mercury	36500-01-03 02:53 G	15052413.49	15052413.62	15052413.76	0.0144	0.0008
Mercury	36500-04-01 06:43 G	15052501.65	15052501.78	15052501.91	0.0144	0.0029
Mercury	36500-06-28 10:33 G	15052589.81	15052589.94	15052590.06	0.0144	0.0052
Mercury	36500-09-24 14:09 G	15052677.98	15052678.09	15052678.21	0.0144	0.0075
Mercury	36500-12-21 18:14 G	15052766.16	15052766.26	15052766.36	0.0144	0.0096
Mercury	36501-03-19 21:50 G	15052854.35	15052854.41	15052854.50	0.0144	0.0120
Mercury	36501-06-16 01:55 G	15052942.56	15052942.58	15052942.61	0.0145	0.0142
Earth	36519-10-04 17:17 G	15059627.08	15059627.22	15059627.40	0.0143	0.0112
Moon	36519-10-04 18:57 G	15059627.15	15059627.29	15059627.45	0.0143	0.0118 *
Moon	36520-10-08 12:57 G	15059996.80	15059997.04	15059997.29	0.0143	0.0027
Earth	36520-10-08 15:07 G	15059996.89	15059997.13	15059997.38	0.0143	0.0029 *
Venus	36520-10-19 12:14 G	15060007.94	15060008.01	15060008.09	0.0143	0.0133

Venus	36521-06-02 23:02 G	15060234.31	15060234.46	15060234.62	0.0142	0.0102
Earth	36521-10-13 11:45 G	15060366.76	15060366.99	15060367.23	0.0142	0.0053
Moon	36521-10-13 14:09 G	15060366.86	15060367.09	15060367.34	0.0142	0.0055 *
Venus	36522-01-15 09:50 G	15060460.72	15060460.91	15060461.10	0.0142	0.0070
Venus	36522-08-29 20:24 G	15060687.15	15060687.35	15060687.57	0.0142	0.0039
Moon	36522-10-18 04:48 G	15060736.61	15060736.70	15060736.81	0.0142	0.0130
Earth	36522-10-18 07:26 G	15060736.74	15060736.81	15060736.90	0.0142	0.0134 *
Venus	36523-04-13 06:57 G	15060913.57	15060913.79	15060914.01	0.0141	0.0008
Venus	36523-11-25 17:02 G	15061140.00	15061140.21	15061140.43	0.0141	0.0024
Venus	36524-07-09 03:21 G	15061366.44	15061366.64	15061366.84	0.0141	0.0054
Venus	36525-02-20 12:57 G	15061592.88	15061593.04	15061593.23	0.0141	0.0085
Venus	36525-10-04 22:48 G	15061819.34	15061819.45	15061819.59	0.0140	0.0115
Mars	36538-09-10 17:02 G	15066542.88	15066543.21	15066543.55	0.0135	0.0005
Mercury	36539-02-28 07:55 G	15066713.80	15066713.83	15066713.89	0.0135	0.0130
Mercury	36539-05-27 14:53 G	15066802.02	15066802.12	15066802.26	0.0135	0.0105
Mercury	36539-08-23 22:05 G	15066890.27	15066890.42	15066890.58	0.0134	0.0079
Mercury	36539-11-20 05:02 G	15066978.54	15066978.71	15066978.89	0.0134	0.0054
Mercury	36540-02-16 12:00 G	15067066.82	15067067.00	15067067.19	0.0134	0.0028
Mercury	36540-05-14 18:57 G	15067155.10	15067155.29	15067155.48	0.0134	0.0003
Mercury	36540-08-11 01:41 G	15067243.39	15067243.57	15067243.76	0.0134	0.0022
Mercury	36540-11-07 08:24 G	15067331.68	15067331.85	15067332.03	0.0134	0.0046
Mercury	36541-02-03 15:07 G	15067419.98	15067420.13	15067420.29	0.0134	0.0071
Mercury	36541-05-02 21:36 G	15067508.28	15067508.40	15067508.54	0.0134	0.0095
Mercury	36541-07-30 04:19 G	15067596.61	15067596.68	15067596.77	0.0134	0.0119
Moon	36563-04-02 05:02 G	15075512.68	15075512.71	15075512.79	0.0135	0.0133
Earth	36564-04-05 15:21 G	15075881.93	15075882.14	15075882.37	0.0136	0.0067
Moon	36564-04-05 15:21 G	15075881.94	15075882.14	15075882.36	0.0136	0.0073 *
Venus	36564-10-14 10:19 G	15076073.86	15076073.93	15076074.01	0.0136	0.0127
Earth	36565-04-10 02:24 G	15076251.35	15076251.60	15076251.86	0.0136	0.0005
Moon	36565-04-10 02:53 G	15076251.36	15076251.62	15076251.89	0.0136	0.0011 *

Venus	36565-05-28 16:48 G	15076300.06	15076300.20	15076300.35	0.0136	0.0100
Venus	36566-01-09 23:31 G	15076526.30	15076526.48	15076526.67	0.0136	0.0073
Moon	36566-04-14 13:12 G	15076620.84	15076621.05	15076621.26	0.0136	0.0071
Earth	36566-04-14 13:55 G	15076620.88	15076621.08	15076621.30	0.0136	0.0077 *
Venus	36566-08-24 06:14 G	15076752.56	15076752.76	15076752.97	0.0137	0.0046
Venus	36567-04-07 13:12 G	15076978.84	15076979.05	15076979.27	0.0137	0.0018
Venus	36567-11-19 20:24 G	15077205.13	15077205.35	15077205.57	0.0137	0.0010
Venus	36568-07-03 03:21 G	15077431.44	15077431.64	15077431.86	0.0137	0.0039
Venus	36569-02-14 10:48 G	15077657.78	15077657.95	15077658.16	0.0138	0.0067
Venus	36569-09-28 18:29 G	15077884.13	15077884.27	15077884.44	0.0138	0.0095
Venus	36570-05-13 02:09 G	15078110.51	15078110.59	15078110.70	0.0138	0.0123
Mercury	36582-05-17 08:09 G	15082497.81	15082497.84	15082497.88	0.0144	0.0139
Mercury	36582-08-13 11:45 G	15082585.92	15082585.99	15082586.07	0.0144	0.0118
Mars	36582-10-29 00:43 G	15082662.30	15082662.53	15082662.79	0.0144	0.0074
Mercury	36582-11-09 15:36 G	15082674.05	15082674.15	15082674.25	0.0144	0.0096
Mercury	36583-02-05 19:12 G	15082762.19	15082762.30	15082762.42	0.0144	0.0075
Mercury	36583-05-04 23:02 G	15082850.33	15082850.46	15082850.58	0.0144	0.0053
Mercury	36583-08-01 02:38 G	15082938.48	15082938.61	15082938.74	0.0144	0.0032
Mercury	36583-10-28 06:14 G	15083026.63	15083026.76	15083026.90	0.0144	0.0011
Mercury	36584-01-24 10:05 G	15083114.79	15083114.92	15083115.06	0.0144	0.0013
Mercury	36584-04-21 13:55 G	15083202.95	15083203.08	15083203.21	0.0144	0.0034
Mercury	36584-07-18 17:45 G	15083291.11	15083291.24	15083291.36	0.0144	0.0057
Mercury	36584-10-14 21:21 G	15083379.28	15083379.39	15083379.51	0.0144	0.0079
Mercury	36585-01-11 01:12 G	15083467.46	15083467.55	15083467.65	0.0144	0.0102
Mercury	36585-04-09 05:17 G	15083555.65	15083555.72	15083555.79	0.0145	0.0124
Earth	36603-10-06 03:07 G	15090308.49	15090308.63	15090308.81	0.0143	0.0109
Moon	36603-10-06 04:19 G	15090308.52	15090308.68	15090308.88	0.0143	0.0103 *
Moon	36604-10-09 23:45 G	15090678.25	15090678.49	15090678.73	0.0143	0.0030
Earth	36604-10-10 00:57 G	15090678.30	15090678.54	15090678.80	0.0143	0.0026 *
Venus	36605-02-01 05:31 G	15090792.62	15090792.73	15090792.87	0.0142	0.0115

Venus	36605-09-15 16:33 G	15091019.02	15091019.19	15091019.38	0.0142	0.0083
Earth	36605-10-14 21:36 G	15091048.18	15091048.40	15091048.64	0.0142	0.0057
Moon	36605-10-14 23:31 G	15091048.25	15091048.48	15091048.73	0.0142	0.0056 *
Venus	36606-04-30 03:07 G	15091245.44	15091245.63	15091245.85	0.0142	0.0052
Earth	36606-10-19 17:31 G	15091418.19	15091418.23	15091418.31	0.0142	0.0138
Venus	36606-12-12 13:55 G	15091471.87	15091472.08	15091472.30	0.0142	0.0020
Venus	36607-07-27 00:29 G	15091698.31	15091698.52	15091698.74	0.0141	0.0012
Venus	36608-03-09 10:48 G	15091924.75	15091924.95	15091925.16	0.0141	0.0042
Venus	36608-10-21 20:38 G	15092151.19	15092151.36	15092151.56	0.0141	0.0073
Venus	36609-06-05 06:43 G	15092377.64	15092377.78	15092377.93	0.0140	0.0103
Venus	36610-01-17 16:19 G	15092604.13	15092604.18	15092604.26	0.0140	0.0133
Mercury	36623-03-21 15:50 G	15097415.09	15097415.16	15097415.26	0.0135	0.0121
Mars	36623-05-08 10:33 G	15097462.93	15097462.94	15097463.02	0.0135	0.0134
Mercury	36623-06-17 23:02 G	15097503.33	15097503.46	15097503.60	0.0135	0.0095
Mercury	36623-09-14 06:00 G	15097591.60	15097591.75	15097591.92	0.0134	0.0070
Mercury	36623-12-11 12:57 G	15097679.87	15097680.04	15097680.23	0.0134	0.0044
Mercury	36624-03-08 19:55 G	15097768.15	15097768.33	15097768.52	0.0134	0.0019
Mercury	36624-06-05 02:53 G	15097856.43	15097856.62	15097856.81	0.0134	0.0006
Mercury	36624-09-01 09:36 G	15097944.72	15097944.90	15097945.09	0.0134	0.0031
Mercury	36624-11-28 16:33 G	15098033.02	15098033.19	15098033.36	0.0134	0.0056
Mercury	36625-02-24 23:02 G	15098121.32	15098121.46	15098121.62	0.0134	0.0080
Mercury	36625-05-24 05:45 G	15098209.63	15098209.74	15098209.86	0.0134	0.0104
Mercury	36625-08-20 12:14 G	15098297.97	15098298.01	15098298.07	0.0134	0.0128
Moon	36647-04-03 16:48 G	15106194.17	15106194.20	15106194.24	0.0135	0.0134
Earth	36647-04-03 17:17 G	15106194.19	15106194.22	15106194.31	0.0135	0.0132 *
Earth	36648-04-07 03:50 G	15106563.44	15106563.66	15106563.90	0.0135	0.0061
Moon	36648-04-07 04:19 G	15106563.46	15106563.68	15106563.91	0.0135	0.0056 *
Venus	36649-01-27 03:21 G	15106858.53	15106858.64	15106858.78	0.0136	0.0110
Moon	36649-04-11 14:38 G	15106932.85	15106933.11	15106933.37	0.0136	0.0003
Earth	36649-04-11 14:53 G	15106932.86	15106933.12	15106933.37	0.0136	0.0010 *

Venus	36649-09-10 09:50 G	15107084.75	15107084.91	15107085.10	0.0136	0.0083
Earth	36650-04-16 02:24 G	15107302.40	15107302.60	15107302.80	0.0136	0.0082
Moon	36650-04-16 02:09 G	15107302.42	15107302.59	15107302.79	0.0136	0.0089 *
Venus	36650-04-24 16:33 G	15107311.00	15107311.19	15107311.40	0.0136	0.0056
Venus	36650-12-06 23:31 G	15107537.27	15107537.48	15107537.70	0.0137	0.0028
Venus	36651-07-21 06:43 G	15107763.56	15107763.78	15107763.99	0.0137	0.0003
Venus	36652-03-03 13:55 G	15107989.87	15107990.08	15107990.29	0.0137	0.0027
Venus	36652-10-15 21:07 G	15108216.18	15108216.38	15108216.58	0.0137	0.0056
Venus	36653-05-30 04:19 G	15108442.52	15108442.68	15108442.86	0.0138	0.0084
Venus	36654-01-11 12:00 G	15108668.88	15108669.00	15108669.13	0.0138	0.0112
Mercury	36666-06-07 15:21 G	15113199.10	15113199.14	15113199.19	0.0143	0.0134
Mercury	36666-09-03 18:57 G	15113287.22	15113287.29	15113287.38	0.0144	0.0113
Mercury	36666-11-30 22:33 G	15113375.35	15113375.44	15113375.55	0.0144	0.0092
Mercury	36667-02-27 02:24 G	15113463.49	15113463.60	15113463.72	0.0144	0.0070
Mercury	36667-05-26 06:00 G	15113551.63	15113551.75	15113551.88	0.0144	0.0049
Mercury	36667-08-22 09:50 G	15113639.78	15113639.91	15113640.04	0.0144	0.0027
Mercury	36667-11-18 13:41 G	15113727.93	15113728.07	15113728.20	0.0144	0.0007
Mercury	36668-02-14 17:17 G	15113816.09	15113816.22	15113816.36	0.0144	0.0017
Mercury	36668-05-12 21:07 G	15113904.25	15113904.38	15113904.51	0.0144	0.0039
Mercury	36668-08-09 00:57 G	15113992.42	15113992.54	15113992.66	0.0144	0.0061
Mercury	36668-11-05 04:33 G	15114080.59	15114080.69	15114080.80	0.0144	0.0084
Mercury	36669-02-01 08:24 G	15114168.76	15114168.85	15114168.95	0.0144	0.0106
Mercury	36669-04-30 12:14 G	15114256.96	15114257.01	15114257.08	0.0144	0.0129
Earth	36687-10-06 12:57 G	15120989.88	15120990.04	15120990.23	0.0143	0.0106
Moon	36687-10-06 12:57 G	15120989.89	15120990.04	15120990.21	0.0143	0.0112 *
Venus	36688-10-01 12:00 G	15121350.92	15121351.00	15121351.12	0.0143	0.0128
Moon	36688-10-10 10:19 G	15121359.69	15121359.93	15121360.17	0.0143	0.0018
Earth	36688-10-10 11:02 G	15121359.71	15121359.96	15121360.21	0.0143	0.0022 *
Venus	36689-05-15 23:17 G	15121577.32	15121577.47	15121577.64	0.0142	0.0096
Earth	36689-10-15 07:55 G	15121729.61	15121729.83	15121730.06	0.0142	0.0061

Moon	36689-10-15 09:07 G	15121729.66	15121729.88	15121730.13	0.0142	0.0060	*
Venus	36689-12-28 10:05 G	15121803.74	15121803.92	15121804.12	0.0142	0.0065	
Venus	36690-08-11 21:07 G	15122030.17	15122030.38	15122030.60	0.0142	0.0033	
Moon	36690-10-20 02:24 G	15122099.57	15122099.60	15122099.66	0.0142	0.0139	
Earth	36690-10-20 03:50 G	15122099.66	15122099.66	15122099.69	0.0142	0.0142	*
Venus	36691-03-26 07:41 G	15122256.61	15122256.82	15122257.04	0.0142	0.0003	
Venus	36691-11-07 18:14 G	15122483.04	15122483.26	15122483.47	0.0141	0.0030	
Venus	36692-06-21 04:33 G	15122709.49	15122709.69	15122709.88	0.0141	0.0060	
Venus	36693-02-02 14:24 G	15122935.94	15122936.10	15122936.27	0.0141	0.0091	
Venus	36693-09-17 00:29 G	15123162.42	15123162.52	15123162.63	0.0140	0.0121	
Mars	36706-01-28 23:02 G	15127678.23	15127678.46	15127678.74	0.0135	0.0087	
Mercury	36707-04-11 23:45 G	15128116.40	15128116.49	15128116.61	0.0135	0.0112	
Mercury	36707-07-09 06:57 G	15128204.65	15128204.79	15128204.95	0.0135	0.0086	
Mercury	36707-10-05 13:55 G	15128292.92	15128293.08	15128293.26	0.0135	0.0061	
Mercury	36708-01-01 21:07 G	15128381.20	15128381.38	15128381.56	0.0135	0.0035	
Mercury	36708-03-30 04:05 G	15128469.48	15128469.67	15128469.86	0.0134	0.0010	
Mercury	36708-06-26 10:48 G	15128557.77	15128557.95	15128558.14	0.0134	0.0016	
Mercury	36708-09-22 17:31 G	15128646.06	15128646.23	15128646.42	0.0134	0.0040	
Mercury	36708-12-20 00:14 G	15128734.36	15128734.51	15128734.68	0.0134	0.0065	
Mercury	36709-03-18 06:57 G	15128822.66	15128822.79	15128822.94	0.0134	0.0089	
Mercury	36709-06-14 13:41 G	15128910.98	15128911.07	15128911.17	0.0134	0.0114	
Moon	36731-04-05 07:12 G	15136875.69	15136875.80	15136875.91	0.0135	0.0122	
Earth	36731-04-05 07:41 G	15136875.75	15136875.82	15136875.94	0.0135	0.0126	*
Earth	36732-04-08 18:14 G	15137245.03	15137245.26	15137245.50	0.0135	0.0055	
Moon	36732-04-08 19:26 G	15137245.09	15137245.31	15137245.53	0.0135	0.0061	*
Venus	36732-09-27 15:21 G	15137417.05	15137417.14	15137417.26	0.0136	0.0118	
Moon	36733-04-13 04:19 G	15137614.42	15137614.68	15137614.95	0.0136	0.0022	
Earth	36733-04-13 05:17 G	15137614.47	15137614.72	15137614.98	0.0136	0.0016	*
Venus	36733-05-11 22:05 G	15137643.26	15137643.42	15137643.58	0.0136	0.0091	
Venus	36733-12-24 04:33 G	15137869.51	15137869.69	15137869.89	0.0136	0.0064	

Earth	36734-04-17 16:48 G	15137984.02	15137984.20	15137984.41	0.0136	0.0088
Moon	36734-04-17 17:02 G	15137984.03	15137984.21	15137984.42	0.0136	0.0082 *
Venus	36734-08-07 11:31 G	15138095.77	15138095.98	15138096.19	0.0136	0.0037
Venus	36735-03-21 18:29 G	15138322.06	15138322.27	15138322.49	0.0137	0.0009
Venus	36735-11-03 01:26 G	15138548.35	15138548.56	15138548.78	0.0137	0.0019
Venus	36736-06-16 08:24 G	15138774.66	15138774.85	15138775.07	0.0137	0.0048
Venus	36737-01-28 15:50 G	15139000.99	15139001.16	15139001.36	0.0137	0.0075
Venus	36737-09-11 23:31 G	15139227.34	15139227.48	15139227.63	0.0138	0.0103
Venus	36738-04-26 06:57 G	15139453.74	15139453.79	15139453.87	0.0138	0.0132
Mars	36750-03-19 21:07 G	15143799.10	15143799.38	15143799.66	0.0143	0.0013
Mercury	36750-06-28 23:31 G	15143900.42	15143900.48	15143900.55	0.0143	0.0125
Mercury	36750-09-25 03:07 G	15143988.54	15143988.63	15143988.73	0.0144	0.0104
Mercury	36750-12-22 06:43 G	15144076.68	15144076.78	15144076.89	0.0144	0.0082
Mercury	36751-03-20 10:33 G	15144164.82	15144164.94	15144165.06	0.0144	0.0061
Mercury	36751-06-16 14:09 G	15144252.96	15144253.09	15144253.22	0.0144	0.0039
Mercury	36751-09-12 18:00 G	15144341.11	15144341.25	15144341.38	0.0144	0.0018
Mercury	36751-12-09 21:36 G	15144429.27	15144429.40	15144429.54	0.0144	0.0004
Mercury	36752-03-07 01:26 G	15144517.42	15144517.56	15144517.69	0.0144	0.0026
Mercury	36752-06-03 05:02 G	15144605.59	15144605.71	15144605.84	0.0144	0.0048
Mercury	36752-08-30 08:53 G	15144693.75	15144693.87	15144693.99	0.0144	0.0071
Mercury	36752-11-26 12:43 G	15144781.93	15144782.03	15144782.13	0.0144	0.0093
Mercury	36753-02-22 16:19 G	15144870.11	15144870.18	15144870.27	0.0144	0.0116
Mercury	36753-05-21 20:24 G	15144958.31	15144958.35	15144958.39	0.0144	0.0138
Moon	36771-10-08 01:55 G	15151671.39	15151671.58	15151671.79	0.0143	0.0093
Earth	36771-10-08 02:09 G	15151671.42	15151671.59	15151671.78	0.0143	0.0100 *
Venus	36772-06-01 20:24 G	15151909.32	15151909.35	15151909.42	0.0143	0.0139
Earth	36772-10-12 00:14 G	15152041.26	15152041.51	15152041.76	0.0143	0.0017
Moon	36772-10-12 00:14 G	15152041.27	15152041.51	15152041.75	0.0143	0.0022 *
Venus	36773-01-14 07:55 G	15152135.69	15152135.83	15152135.98	0.0143	0.0107
Venus	36773-08-28 18:57 G	15152362.11	15152362.29	15152362.48	0.0142	0.0075

Earth	36773-10-16 20:53 G	15152411.16	15152411.37	15152411.61	0.0142	0.0066
Moon	36773-10-16 21:21 G	15152411.18	15152411.39	15152411.64	0.0142	0.0068 *
Venus	36774-04-12 05:45 G	15152588.54	15152588.74	15152588.95	0.0142	0.0044
Venus	36774-11-24 16:33 G	15152814.97	15152815.19	15152815.41	0.0142	0.0012
Venus	36775-07-09 03:07 G	15153041.42	15153041.63	15153041.85	0.0141	0.0019
Venus	36776-02-20 13:26 G	15153267.86	15153268.06	15153268.27	0.0141	0.0050
Venus	36776-10-03 23:31 G	15153494.31	15153494.48	15153494.67	0.0141	0.0081
Venus	36777-05-18 09:36 G	15153720.78	15153720.90	15153721.04	0.0141	0.0111
Venus	36777-12-30 19:26 G	15153947.31	15153947.31	15153947.33	0.0140	0.0140
Mars	36790-09-24 21:36 G	15158598.10	15158598.40	15158598.71	0.0135	0.0055
Mercury	36791-02-03 01:12 G	15158729.49	15158729.55	15158729.61	0.0135	0.0127
Mercury	36791-05-02 08:24 G	15158817.72	15158817.85	15158817.97	0.0135	0.0101
Mercury	36791-07-29 15:07 G	15158905.99	15158906.13	15158906.30	0.0135	0.0076
Mercury	36791-10-25 22:05 G	15158994.26	15158994.42	15158994.61	0.0135	0.0051
Mercury	36792-01-22 05:17 G	15159082.54	15159082.72	15159082.91	0.0135	0.0025
Mercury	36792-04-19 12:14 G	15159170.82	15159171.01	15159171.20	0.0134	0.0000
Mercury	36792-07-16 18:57 G	15159259.11	15159259.29	15159259.48	0.0134	0.0026
Mercury	36792-10-13 01:41 G	15159347.41	15159347.57	15159347.75	0.0134	0.0051
Mercury	36793-01-09 08:24 G	15159435.71	15159435.85	15159436.02	0.0134	0.0075
Mercury	36793-04-07 15:07 G	15159524.02	15159524.13	15159524.26	0.0134	0.0099
Mercury	36793-07-04 21:50 G	15159612.35	15159612.41	15159612.49	0.0134	0.0123
Moon	36815-04-05 19:55 G	15167557.23	15167557.33	15167557.46	0.0135	0.0120
Earth	36815-04-05 22:19 G	15167557.32	15167557.43	15167557.56	0.0135	0.0119 *
Earth	36816-04-09 08:38 G	15167926.63	15167926.86	15167927.10	0.0135	0.0049
Moon	36816-04-09 10:19 G	15167926.70	15167926.93	15167927.16	0.0135	0.0044 *
Venus	36816-05-28 03:21 G	15167975.57	15167975.64	15167975.73	0.0136	0.0126
Venus	36817-01-09 09:36 G	15168201.78	15168201.90	15168202.07	0.0136	0.0100
Moon	36817-04-13 18:14 G	15168296.01	15168296.26	15168296.53	0.0136	0.0016
Earth	36817-04-13 19:41 G	15168296.07	15168296.32	15168296.58	0.0136	0.0023 *
Venus	36817-08-23 16:19 G	15168428.01	15168428.18	15168428.38	0.0136	0.0073

Venus	36818-04-06 23:17 G	15168654.27	15168654.47	15168654.68	0.0136	0.0045
Earth	36818-04-18 07:26 G	15168665.63	15168665.81	15168666.00	0.0136	0.0095
Moon	36818-04-18 08:38 G	15168665.71	15168665.86	15168666.03	0.0136	0.0102 *
Venus	36818-11-19 06:00 G	15168880.54	15168880.75	15168880.97	0.0137	0.0018
Venus	36819-07-03 13:12 G	15169106.83	15169107.05	15169107.26	0.0137	0.0010
Venus	36820-02-14 20:09 G	15169333.14	15169333.34	15169333.56	0.0137	0.0038
Venus	36820-09-28 03:21 G	15169559.46	15169559.64	15169559.84	0.0137	0.0066
Venus	36821-05-12 10:33 G	15169785.80	15169785.94	15169786.11	0.0138	0.0094
Venus	36821-12-24 18:00 G	15170012.17	15170012.25	15170012.36	0.0138	0.0122
Mercury	36834-04-22 03:36 G	15174513.63	15174513.65	15174513.70	0.0143	0.0138
Mercury	36834-07-19 07:26 G	15174601.74	15174601.81	15174601.89	0.0144	0.0116
Mercury	36834-10-15 11:02 G	15174689.87	15174689.96	15174690.06	0.0144	0.0095
Mars	36834-11-12 20:53 G	15174718.28	15174718.37	15174718.52	0.0144	0.0130
Mercury	36835-01-11 14:38 G	15174778.00	15174778.11	15174778.23	0.0144	0.0074
Mercury	36835-04-09 18:14 G	15174866.14	15174866.26	15174866.39	0.0144	0.0053
Mercury	36835-07-06 22:05 G	15174954.29	15174954.42	15174954.55	0.0144	0.0031
Mercury	36835-10-03 01:55 G	15175042.44	15175042.58	15175042.71	0.0144	0.0010
Mercury	36835-12-30 05:31 G	15175130.60	15175130.73	15175130.87	0.0144	0.0013
Mercury	36836-03-27 09:21 G	15175218.76	15175218.89	15175219.02	0.0144	0.0035
Mercury	36836-06-23 12:57 G	15175306.92	15175307.04	15175307.17	0.0144	0.0057
Mercury	36836-09-19 16:48 G	15175395.09	15175395.20	15175395.32	0.0144	0.0079
Mercury	36836-12-16 20:38 G	15175483.27	15175483.36	15175483.46	0.0144	0.0102
Mercury	36837-03-15 00:14 G	15175571.46	15175571.51	15175571.59	0.0144	0.0125
Moon	36855-10-08 15:07 G	15182352.96	15182353.13	15182353.33	0.0143	0.0101
Earth	36855-10-08 16:48 G	15182353.01	15182353.20	15182353.40	0.0143	0.0093 *
Venus	36856-09-13 17:02 G	15182694.10	15182694.21	15182694.35	0.0143	0.0118
Earth	36856-10-12 14:38 G	15182722.86	15182723.11	15182723.37	0.0143	0.0010
Moon	36856-10-12 15:07 G	15182722.89	15182723.13	15182723.38	0.0143	0.0005 *
Venus	36857-04-28 04:19 G	15182920.51	15182920.68	15182920.86	0.0142	0.0086
Moon	36857-10-17 11:31 G	15183092.77	15183092.98	15183093.23	0.0142	0.0071

Earth	36857-10-17 11:45 G	15183092.78	15183092.99	15183093.21	0.0142	0.0073	*
Venus	36857-12-10 15:21 G	15183146.94	15183147.14	15183147.34	0.0142	0.0054	
Venus	36858-07-25 02:09 G	15183373.38	15183373.59	15183373.81	0.0142	0.0023	
Venus	36859-03-08 12:57 G	15183599.82	15183600.04	15183600.26	0.0142	0.0009	
Venus	36859-10-20 23:31 G	15183826.27	15183826.48	15183826.69	0.0141	0.0040	
Venus	36860-06-03 09:36 G	15184052.72	15184052.90	15184053.10	0.0141	0.0070	
Venus	36861-01-15 19:26 G	15184279.18	15184279.31	15184279.48	0.0141	0.0101	
Venus	36861-08-30 05:31 G	15184505.67	15184505.73	15184505.83	0.0141	0.0131	
Mercury	36875-02-23 09:36 G	15189430.82	15189430.90	15189431.01	0.0135	0.0116	
Mercury	36875-05-22 16:48 G	15189519.07	15189519.20	15189519.35	0.0135	0.0090	
Mercury	36875-08-18 23:45 G	15189607.33	15189607.49	15189607.67	0.0135	0.0065	
Mercury	36875-11-15 06:57 G	15189695.61	15189695.79	15189695.97	0.0135	0.0039	
Mercury	36876-02-11 13:55 G	15189783.89	15189784.08	15189784.27	0.0135	0.0013	
Mercury	36876-05-09 20:53 G	15189872.18	15189872.37	15189872.56	0.0134	0.0012	
Mercury	36876-08-06 03:36 G	15189960.47	15189960.65	15189960.83	0.0134	0.0037	
Mercury	36876-11-02 10:19 G	15190048.77	15190048.93	15190049.10	0.0134	0.0061	
Mercury	36877-01-29 17:02 G	15190137.07	15190137.21	15190137.36	0.0134	0.0086	
Mercury	36877-04-27 23:45 G	15190225.39	15190225.49	15190225.60	0.0134	0.0110	
Moon	36899-04-06 11:02 G	15198238.83	15198238.96	15198239.13	0.0135	0.0110	
Earth	36899-04-06 13:12 G	15198238.93	15198239.05	15198239.21	0.0135	0.0113	*
Venus	36900-01-26 15:50 G	15198534.14	15198534.16	15198534.20	0.0135	0.0134	
Earth	36900-04-10 23:45 G	15198608.25	15198608.49	15198608.73	0.0136	0.0042	
Moon	36900-04-11 01:41 G	15198608.35	15198608.57	15198608.82	0.0136	0.0048	*
Venus	36900-09-09 22:33 G	15198760.31	15198760.44	15198760.57	0.0136	0.0107	
Moon	36901-04-15 08:38 G	15198977.61	15198977.86	15198978.12	0.0136	0.0035	
Earth	36901-04-15 10:48 G	15198977.71	15198977.95	15198978.20	0.0136	0.0029	*
Venus	36901-04-24 04:33 G	15198986.53	15198986.69	15198986.88	0.0136	0.0081	
Venus	36901-12-06 11:31 G	15199212.78	15199212.98	15199213.18	0.0136	0.0053	
Earth	36902-04-19 22:05 G	15199347.27	15199347.42	15199347.61	0.0136	0.0102	
Moon	36902-04-19 23:45 G	15199347.32	15199347.49	15199347.68	0.0136	0.0095	*

Venus	36902-07-20 18:14 G	15199439.05	15199439.26	15199439.47	0.0136	0.0026
Venus	36903-03-04 01:12 G	15199665.34	15199665.55	15199665.77	0.0137	0.0002
Venus	36903-10-16 08:09 G	15199891.63	15199891.84	15199892.06	0.0137	0.0029
Venus	36904-05-29 15:07 G	15200117.94	15200118.13	15200118.34	0.0137	0.0057
Venus	36905-01-10 22:19 G	15200344.27	15200344.43	15200344.61	0.0138	0.0085
Venus	36905-08-25 05:45 G	15200570.63	15200570.74	15200570.88	0.0138	0.0113
Mars	36917-08-08 01:41 G	15204936.37	15204936.57	15204936.81	0.0143	0.0091
Mercury	36918-05-13 12:00 G	15205214.95	15205215.00	15205215.06	0.0143	0.0128
Mercury	36918-08-09 15:36 G	15205303.07	15205303.15	15205303.24	0.0144	0.0107
Mercury	36918-11-05 19:12 G	15205391.20	15205391.30	15205391.41	0.0144	0.0086
Mercury	36919-02-01 23:02 G	15205479.34	15205479.46	15205479.58	0.0144	0.0064
Mercury	36919-05-01 02:38 G	15205567.48	15205567.61	15205567.74	0.0144	0.0043
Mercury	36919-07-28 06:14 G	15205655.63	15205655.76	15205655.90	0.0144	0.0021
Mercury	36919-10-24 10:05 G	15205743.78	15205743.92	15205744.05	0.0144	0.0002
Mercury	36920-01-20 13:41 G	15205831.94	15205832.07	15205832.21	0.0144	0.0023
Mercury	36920-04-17 17:31 G	15205920.10	15205920.23	15205920.36	0.0144	0.0045
Mercury	36920-07-14 21:07 G	15206008.27	15206008.38	15206008.51	0.0144	0.0068
Mercury	36920-10-11 00:57 G	15206096.44	15206096.54	15206096.65	0.0144	0.0090
Mercury	36921-01-07 05:02 G	15206184.62	15206184.71	15206184.79	0.0144	0.0112
Mercury	36921-04-05 08:38 G	15206272.82	15206272.86	15206272.91	0.0144	0.0134
Moon	36939-10-10 08:09 G	15213034.63	15213034.84	15213035.07	0.0143	0.0078
Earth	36939-10-10 09:36 G	15213034.71	15213034.90	15213035.11	0.0143	0.0085 *
Venus	36940-05-15 03:50 G	15213252.57	15213252.66	15213252.77	0.0143	0.0127
Earth	36940-10-14 07:41 G	15213404.57	15213404.82	15213405.07	0.0143	0.0002
Moon	36940-10-14 08:53 G	15213404.62	15213404.87	15213405.11	0.0143	0.0008 *
Venus	36940-12-27 15:21 G	15213478.98	15213479.14	15213479.30	0.0143	0.0095
Venus	36941-08-11 02:24 G	15213705.41	15213705.60	15213705.80	0.0142	0.0063
Moon	36941-10-19 03:36 G	15213774.46	15213774.65	15213774.88	0.0142	0.0084
Earth	36941-10-19 04:48 G	15213774.49	15213774.70	15213774.91	0.0142	0.0081 *
Venus	36942-03-25 13:12 G	15213931.84	15213932.05	15213932.27	0.0142	0.0032

Venus	36942-11-07 00:00 G	15214158.28	15214158.50	15214158.72	0.0142	0.0001
Venus	36943-06-21 10:33 G	15214384.73	15214384.94	15214385.15	0.0142	0.0031
Venus	36944-02-02 20:53 G	15214611.18	15214611.37	15214611.57	0.0141	0.0061
Venus	36944-09-16 06:57 G	15214837.64	15214837.79	15214837.97	0.0141	0.0092
Venus	36945-04-30 16:48 G	15215064.11	15215064.20	15215064.32	0.0141	0.0122
Mars	36958-02-11 15:21 G	15219733.81	15219734.14	15219734.48	0.0135	0.0018
Mercury	36958-12-18 11:31 G	15220043.93	15220043.98	15220044.04	0.0135	0.0129
Mercury	36959-03-16 18:29 G	15220132.16	15220132.27	15220132.40	0.0135	0.0104
Mercury	36959-06-13 01:41 G	15220220.42	15220220.57	15220220.73	0.0135	0.0078
Mercury	36959-09-09 08:38 G	15220308.69	15220308.86	15220309.04	0.0135	0.0052
Mercury	36959-12-06 15:50 G	15220396.97	15220397.16	15220397.34	0.0135	0.0027
Mercury	36960-03-03 22:33 G	15220485.25	15220485.44	15220485.63	0.0134	0.0003
Mercury	36960-05-31 05:31 G	15220573.54	15220573.73	15220573.92	0.0134	0.0023
Mercury	36960-08-27 12:14 G	15220661.84	15220662.01	15220662.19	0.0134	0.0048
Mercury	36960-11-23 18:43 G	15220750.14	15220750.28	15220750.45	0.0134	0.0074
Mercury	36961-02-20 01:41 G	15220838.45	15220838.57	15220838.70	0.0134	0.0097
Mercury	36961-05-19 08:24 G	15220926.78	15220926.85	15220926.93	0.0134	0.0122
Moon	36983-04-07 23:45 G	15228920.35	15228920.49	15228920.67	0.0135	0.0107
Earth	36983-04-08 03:07 G	15228920.48	15228920.63	15228920.79	0.0135	0.0106 *
Earth	36984-04-11 13:12 G	15229289.82	15229290.05	15229290.31	0.0135	0.0037
Moon	36984-04-11 15:50 G	15229289.93	15229290.16	15229290.41	0.0135	0.0032 *
Venus	36984-05-10 09:50 G	15229318.81	15229318.91	15229319.03	0.0136	0.0116
Venus	36984-12-22 16:19 G	15229545.02	15229545.18	15229545.34	0.0136	0.0089
Moon	36985-04-15 22:05 G	15229659.16	15229659.42	15229659.67	0.0136	0.0028
Earth	36985-04-16 00:29 G	15229659.27	15229659.52	15229659.77	0.0136	0.0035 *
Venus	36985-08-05 22:48 G	15229771.26	15229771.45	15229771.65	0.0136	0.0062
Venus	36986-03-20 05:17 G	15229997.52	15229997.72	15229997.94	0.0136	0.0036
Earth	36986-04-20 11:17 G	15230028.84	15230028.97	15230029.15	0.0136	0.0108
Moon	36986-04-20 13:41 G	15230028.96	15230029.07	15230029.23	0.0136	0.0115 *
Venus	36986-11-01 12:14 G	15230223.79	15230224.01	15230224.23	0.0137	0.0008

Venus	36987-06-15 18:57 G	15230450.08	15230450.29	15230450.51	0.0137	0.0020
Venus	36988-01-28 02:09 G	15230676.39	15230676.59	15230676.79	0.0137	0.0047
Venus	36988-09-10 08:53 G	15230902.71	15230902.87	15230903.07	0.0137	0.0076
Venus	36989-04-24 16:19 G	15231129.05	15231129.18	15231129.33	0.0138	0.0103
Venus	36989-12-06 23:31 G	15231355.43	15231355.48	15231355.56	0.0138	0.0131

38TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 38th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	37002-03-07 15:50 G		15235828.16	15235828.16	15235828.18	0.0143	0.0143	
Mars	37002-04-03 22:48 G		15235855.20	15235855.45	15235855.73	0.0143	0.0048	
Mercury	37002-06-03 19:26 G		15235916.25	15235916.31	15235916.39	0.0143	0.0122	
Mercury	37002-08-30 23:02 G		15236004.38	15236004.46	15236004.56	0.0144	0.0101	
Mercury	37002-11-27 02:53 G		15236092.51	15236092.62	15236092.73	0.0144	0.0079	
Mercury	37003-02-23 06:29 G		15236180.65	15236180.77	15236180.89	0.0144	0.0058	
Mercury	37003-05-22 10:05 G		15236268.80	15236268.92	15236269.05	0.0144	0.0036	
Mercury	37003-08-18 13:55 G		15236356.94	15236357.08	15236357.21	0.0144	0.0015	
Mercury	37003-11-14 17:31 G		15236445.10	15236445.23	15236445.37	0.0144	0.0008	
Mercury	37004-02-10 21:21 G		15236533.26	15236533.39	15236533.52	0.0144	0.0029	
Mercury	37004-05-09 00:57 G		15236621.42	15236621.54	15236621.67	0.0144	0.0052	
Mercury	37004-08-05 04:48 G		15236709.59	15236709.70	15236709.82	0.0144	0.0074	
Mercury	37004-11-01 08:24 G		15236797.76	15236797.85	15236797.96	0.0144	0.0097	
Mercury	37005-01-28 12:29 G		15236885.94	15236886.02	15236886.10	0.0144	0.0118	

Mercury	37005-04-26 16:05 G	15236974.15	15236974.17	15236974.21	0.0144	0.0141
Moon	37023-10-11 21:07 G	15243716.19	15243716.38	15243716.60	0.0143	0.0087
Earth	37023-10-11 23:45 G	15243716.28	15243716.49	15243716.71	0.0143	0.0079 *
Venus	37024-01-14 12:43 G	15243810.99	15243811.03	15243811.10	0.0143	0.0138
Venus	37024-08-28 00:29 G	15244037.38	15244037.52	15244037.67	0.0143	0.0106
Earth	37024-10-15 21:50 G	15244086.16	15244086.41	15244086.66	0.0143	0.0005
Moon	37024-10-15 23:17 G	15244086.23	15244086.47	15244086.72	0.0143	0.0011 *
Venus	37025-04-11 11:31 G	15244263.80	15244263.98	15244264.18	0.0143	0.0075
Moon	37025-10-20 18:00 G	15244456.05	15244456.25	15244456.47	0.0142	0.0085
Earth	37025-10-20 18:57 G	15244456.10	15244456.29	15244456.50	0.0142	0.0088 *
Venus	37025-11-23 22:33 G	15244490.24	15244490.44	15244490.66	0.0142	0.0043
Venus	37026-07-08 09:36 G	15244716.68	15244716.90	15244717.12	0.0142	0.0011
Venus	37027-02-19 20:24 G	15244943.13	15244943.35	15244943.56	0.0142	0.0020
Venus	37027-10-04 06:29 G	15245169.58	15245169.77	15245169.99	0.0141	0.0052
Venus	37028-05-17 17:02 G	15245396.03	15245396.21	15245396.39	0.0141	0.0081
Venus	37028-12-30 02:53 G	15245622.50	15245622.62	15245622.76	0.0141	0.0112
Mars	37042-10-09 17:02 G	15250654.15	15250654.21	15250654.33	0.0135	0.0130
Mercury	37043-01-08 19:55 G	15250745.26	15250745.33	15250745.44	0.0135	0.0118
Mercury	37043-04-07 03:07 G	15250833.50	15250833.63	15250833.78	0.0135	0.0092
Mercury	37043-07-04 10:05 G	15250921.77	15250921.92	15250922.10	0.0135	0.0067
Mercury	37043-09-30 17:17 G	15251010.04	15251010.22	15251010.41	0.0135	0.0041
Mercury	37043-12-28 00:14 G	15251098.33	15251098.51	15251098.70	0.0135	0.0016
Mercury	37044-03-25 07:12 G	15251186.61	15251186.80	15251186.99	0.0134	0.0010
Mercury	37044-06-21 14:09 G	15251274.91	15251275.09	15251275.27	0.0134	0.0035
Mercury	37044-09-17 20:53 G	15251363.20	15251363.37	15251363.54	0.0134	0.0059
Mercury	37044-12-15 03:21 G	15251451.51	15251451.64	15251451.80	0.0134	0.0084
Mercury	37045-03-13 10:05 G	15251539.82	15251539.92	15251540.04	0.0134	0.0109
Mercury	37045-06-09 17:02 G	15251628.19	15251628.21	15251628.24	0.0134	0.0132
Moon	37067-04-09 13:12 G	15259601.90	15259602.05	15259602.24	0.0135	0.0100
Earth	37067-04-09 16:05 G	15259602.03	15259602.17	15259602.36	0.0135	0.0101 *

Venus	37068-01-09 20:53 G	15259877.30	15259877.37	15259877.47	0.0135	0.0124
Earth	37068-04-13 02:38 G	15259971.36	15259971.61	15259971.86	0.0135	0.0031
Moon	37068-04-13 05:45 G	15259971.50	15259971.74	15259971.98	0.0135	0.0035 *
Venus	37068-08-23 03:21 G	15260103.50	15260103.64	15260103.80	0.0136	0.0098
Venus	37069-04-06 09:50 G	15260329.73	15260329.91	15260330.10	0.0136	0.0071
Moon	37069-04-17 10:19 G	15260340.69	15260340.93	15260341.18	0.0136	0.0046
Earth	37069-04-17 13:12 G	15260340.81	15260341.05	15260341.30	0.0136	0.0041 *
Venus	37069-11-18 16:19 G	15260555.97	15260556.18	15260556.38	0.0136	0.0044
Earth	37070-04-22 00:14 G	15260710.38	15260710.51	15260710.67	0.0136	0.0112
Moon	37070-04-22 02:38 G	15260710.47	15260710.61	15260710.78	0.0136	0.0106 *
Venus	37070-07-02 22:48 G	15260782.24	15260782.45	15260782.67	0.0136	0.0017
Venus	37071-02-14 05:45 G	15261008.52	15261008.74	15261008.96	0.0137	0.0010
Venus	37071-09-28 12:29 G	15261234.82	15261235.02	15261235.23	0.0137	0.0038
Venus	37072-05-11 19:26 G	15261461.12	15261461.31	15261461.50	0.0137	0.0065
Venus	37072-12-24 02:38 G	15261687.45	15261687.61	15261687.77	0.0137	0.0093
Venus	37073-08-07 09:36 G	15261913.81	15261913.90	15261914.02	0.0138	0.0121
Mercury	37086-03-27 23:17 G	15266529.44	15266529.47	15266529.52	0.0143	0.0137
Mercury	37086-06-24 02:53 G	15266617.55	15266617.62	15266617.70	0.0144	0.0116
Mercury	37086-09-20 06:29 G	15266705.68	15266705.77	15266705.88	0.0144	0.0095
Mercury	37086-12-17 10:19 G	15266793.82	15266793.93	15266794.04	0.0144	0.0073
Mercury	37087-03-15 13:55 G	15266881.96	15266882.08	15266882.21	0.0144	0.0052
Mercury	37087-06-11 17:31 G	15266970.10	15266970.23	15266970.36	0.0144	0.0030
Mercury	37087-09-07 21:21 G	15267058.25	15267058.39	15267058.52	0.0144	0.0009
Mercury	37087-12-05 00:57 G	15267146.41	15267146.54	15267146.68	0.0144	0.0014
Mercury	37088-03-02 04:48 G	15267234.57	15267234.70	15267234.83	0.0144	0.0036
Mercury	37088-05-29 08:24 G	15267322.73	15267322.85	15267322.98	0.0144	0.0058
Mercury	37088-08-25 12:00 G	15267410.90	15267411.00	15267411.12	0.0144	0.0081
Mercury	37088-11-21 15:50 G	15267499.08	15267499.16	15267499.26	0.0144	0.0103
Mercury	37089-02-17 19:55 G	15267587.26	15267587.33	15267587.40	0.0144	0.0125
Moon	37107-10-13 09:36 G	15274397.68	15274397.90	15274398.14	0.0143	0.0067

Earth	37107-10-13 12:14 G	15274397.80	15274398.01	15274398.23	0.0143	0.0074	*
Venus	37108-04-28 08:09 G	15274595.74	15274595.84	15274595.98	0.0143	0.0118	
Earth	37108-10-17 10:33 G	15274767.69	15274767.94	15274768.19	0.0143	0.0011	
Moon	37108-10-17 12:43 G	15274767.79	15274768.03	15274768.28	0.0143	0.0004	*
Venus	37108-12-10 19:41 G	15274822.15	15274822.32	15274822.50	0.0143	0.0086	
Venus	37109-07-25 06:57 G	15275048.60	15275048.79	15275049.00	0.0143	0.0054	
Moon	37109-10-22 06:00 G	15275137.56	15275137.75	15275137.95	0.0142	0.0097	
Earth	37109-10-22 07:26 G	15275137.64	15275137.81	15275138.02	0.0142	0.0094	*
Venus	37110-03-08 18:14 G	15275275.04	15275275.26	15275275.47	0.0142	0.0023	
Venus	37110-10-21 05:02 G	15275501.49	15275501.71	15275501.92	0.0142	0.0009	
Venus	37111-06-04 15:21 G	15275727.94	15275728.14	15275728.36	0.0142	0.0040	
Venus	37112-01-17 01:41 G	15275954.39	15275954.57	15275954.77	0.0141	0.0071	
Venus	37112-08-30 12:00 G	15276180.86	15276181.00	15276181.17	0.0141	0.0101	
Venus	37113-04-13 21:50 G	15276407.35	15276407.41	15276407.51	0.0141	0.0131	
Mars	37125-07-02 05:31 G	15280869.50	15280869.73	15280869.98	0.0135	0.0094	
Mercury	37126-11-02 21:21 G	15281358.37	15281358.39	15281358.43	0.0135	0.0133	
Mercury	37127-01-30 04:33 G	15281446.58	15281446.69	15281446.81	0.0135	0.0107	
Mercury	37127-04-28 11:45 G	15281534.84	15281534.99	15281535.14	0.0135	0.0081	
Mercury	37127-07-25 18:43 G	15281623.11	15281623.28	15281623.46	0.0135	0.0056	
Mercury	37127-10-22 01:41 G	15281711.39	15281711.57	15281711.76	0.0135	0.0030	
Mercury	37128-01-18 08:38 G	15281799.67	15281799.86	15281800.05	0.0135	0.0005	
Mercury	37128-04-15 15:36 G	15281887.96	15281888.15	15281888.34	0.0134	0.0020	
Mercury	37128-07-12 22:19 G	15281976.26	15281976.43	15281976.61	0.0134	0.0045	
Mercury	37128-10-09 05:02 G	15282064.56	15282064.71	15282064.88	0.0134	0.0070	
Mercury	37129-01-05 11:45 G	15282152.87	15282152.99	15282153.13	0.0134	0.0095	
Mercury	37129-04-03 18:14 G	15282241.19	15282241.26	15282241.36	0.0134	0.0119	
Moon	37151-04-11 02:09 G	15290283.41	15290283.59	15290283.78	0.0135	0.0094	
Earth	37151-04-11 05:31 G	15290283.57	15290283.73	15290283.93	0.0135	0.0095	*
Venus	37151-09-10 08:09 G	15290435.83	15290435.84	15290435.90	0.0135	0.0133	
Earth	37152-04-14 15:50 G	15290652.91	15290653.16	15290653.41	0.0135	0.0025	

Moon	37152-04-14 18:57 G	15290653.04	15290653.29	15290653.54	0.0135	0.0021	*
Venus	37152-04-23 14:38 G	15290661.98	15290662.11	15290662.25	0.0135	0.0107	
Venus	37152-12-05 20:38 G	15290888.20	15290888.36	15290888.55	0.0136	0.0081	
Moon	37153-04-18 22:48 G	15291022.21	15291022.45	15291022.71	0.0136	0.0040	
Earth	37153-04-19 01:55 G	15291022.36	15291022.58	15291022.83	0.0136	0.0047	*
Venus	37153-07-20 03:07 G	15291114.44	15291114.63	15291114.83	0.0136	0.0054	
Venus	37154-03-03 09:36 G	15291340.70	15291340.90	15291341.12	0.0136	0.0027	
Earth	37154-04-23 12:29 G	15291391.92	15291392.02	15291392.17	0.0136	0.0118	
Moon	37154-04-23 15:50 G	15291392.08	15291392.16	15291392.28	0.0136	0.0125	*
Venus	37154-10-15 16:19 G	15291566.96	15291567.18	15291567.40	0.0136	0.0001	
Venus	37155-05-29 22:48 G	15291793.25	15291793.45	15291793.67	0.0137	0.0028	
Venus	37156-01-11 05:45 G	15292019.55	15292019.74	15292019.94	0.0137	0.0055	
Venus	37156-08-24 12:43 G	15292245.86	15292246.03	15292246.21	0.0137	0.0082	
Venus	37157-04-07 19:41 G	15292472.21	15292472.32	15292472.46	0.0137	0.0110	
Venus	37157-11-20 03:21 G	15292698.64	15292698.64	15292698.64	0.0138	0.0138	
Mars	37169-08-22 13:41 G	15296991.82	15296992.07	15296992.35	0.0143	0.0048	
Mercury	37170-04-18 06:29 G	15297230.73	15297230.77	15297230.82	0.0143	0.0133	
Mercury	37170-07-15 10:05 G	15297318.84	15297318.92	15297319.00	0.0143	0.0112	
Mercury	37170-10-11 13:41 G	15297406.97	15297407.07	15297407.17	0.0143	0.0091	
Mercury	37171-01-07 17:17 G	15297495.11	15297495.22	15297495.34	0.0144	0.0069	
Mercury	37171-04-05 20:53 G	15297583.25	15297583.37	15297583.50	0.0144	0.0048	
Mercury	37171-07-03 00:29 G	15297671.39	15297671.52	15297671.66	0.0144	0.0027	
Mercury	37171-09-29 04:19 G	15297759.55	15297759.68	15297759.81	0.0144	0.0005	
Mercury	37171-12-26 07:55 G	15297847.70	15297847.83	15297847.97	0.0144	0.0018	
Mercury	37172-03-23 11:45 G	15297935.86	15297935.99	15297936.12	0.0144	0.0039	
Mercury	37172-06-19 15:21 G	15298024.02	15298024.14	15298024.27	0.0144	0.0062	
Mercury	37172-09-15 19:12 G	15298112.19	15298112.30	15298112.41	0.0144	0.0084	
Mercury	37172-12-12 22:48 G	15298200.37	15298200.45	15298200.55	0.0144	0.0106	
Mercury	37173-03-11 02:38 G	15298288.56	15298288.61	15298288.68	0.0144	0.0129	
Moon	37191-10-13 17:17 G	15305079.00	15305079.22	15305079.43	0.0143	0.0079	

Earth	37191-10-13 20:24 G	15305079.14	15305079.35	15305079.58	0.0143	0.0071	*
Venus	37191-12-27 13:41 G	15305153.99	15305154.07	15305154.16	0.0143	0.0132	
Venus	37192-08-10 00:57 G	15305380.40	15305380.54	15305380.71	0.0143	0.0100	
Earth	37192-10-17 18:43 G	15305449.03	15305449.28	15305449.53	0.0143	0.0013	
Moon	37192-10-17 21:21 G	15305449.15	15305449.39	15305449.64	0.0143	0.0019	*
Venus	37193-03-24 12:43 G	15305606.84	15305607.03	15305607.22	0.0143	0.0068	
Moon	37193-10-22 13:41 G	15305818.89	15305819.07	15305819.29	0.0143	0.0092	
Earth	37193-10-22 16:19 G	15305819.00	15305819.18	15305819.37	0.0143	0.0096	*
Venus	37193-11-05 23:31 G	15305833.28	15305833.48	15305833.70	0.0143	0.0037	
Venus	37194-06-20 10:48 G	15306059.73	15306059.95	15306060.16	0.0142	0.0006	
Venus	37195-02-01 21:21 G	15306286.18	15306286.39	15306286.61	0.0142	0.0027	
Venus	37195-09-16 07:55 G	15306512.64	15306512.83	15306513.04	0.0142	0.0058	
Venus	37196-04-29 18:29 G	15306739.10	15306739.27	15306739.44	0.0141	0.0088	
Venus	37196-12-12 04:19 G	15306965.58	15306965.68	15306965.82	0.0141	0.0118	
Mars	37210-02-26 01:41 G	15311789.27	15311789.57	15311789.89	0.0135	0.0050	
Mercury	37210-11-23 05:02 G	15312059.65	15312059.71	15312059.79	0.0135	0.0125	
Mercury	37211-02-19 12:14 G	15312147.89	15312148.01	15312148.15	0.0135	0.0099	
Mercury	37211-05-18 19:26 G	15312236.15	15312236.31	15312236.47	0.0135	0.0073	
Mercury	37211-08-15 02:24 G	15312324.43	15312324.60	15312324.78	0.0135	0.0048	
Mercury	37211-11-11 09:21 G	15312412.71	15312412.89	15312413.08	0.0135	0.0022	
Mercury	37212-02-07 16:19 G	15312501.00	15312501.18	15312501.37	0.0135	0.0005	
Mercury	37212-05-05 23:17 G	15312589.29	15312589.47	15312589.66	0.0135	0.0029	
Mercury	37212-08-02 06:00 G	15312677.59	15312677.75	15312677.93	0.0135	0.0054	
Mercury	37212-10-29 12:43 G	15312765.89	15312766.03	15312766.19	0.0134	0.0079	
Mercury	37213-01-25 19:26 G	15312854.20	15312854.31	15312854.44	0.0134	0.0103	
Mercury	37213-04-24 02:09 G	15312942.55	15312942.59	15312942.66	0.0134	0.0128	
Moon	37235-04-11 16:19 G	15320965.01	15320965.18	15320965.39	0.0135	0.0089	
Earth	37235-04-11 19:41 G	15320965.15	15320965.32	15320965.53	0.0135	0.0089	*
Venus	37235-12-23 02:24 G	15321220.50	15321220.60	15321220.73	0.0135	0.0115	
Earth	37236-04-15 05:45 G	15321334.49	15321334.74	15321335.00	0.0135	0.0019	

Moon	37236-04-15 09:21 G	15321334.65	15321334.89	15321335.15	0.0135	0.0022	*
Venus	37236-08-05 08:38 G	15321446.71	15321446.86	15321447.03	0.0135	0.0089	
Venus	37237-03-19 14:53 G	15321672.94	15321673.12	15321673.32	0.0136	0.0063	
Moon	37237-04-19 12:29 G	15321703.80	15321704.02	15321704.27	0.0136	0.0058	
Earth	37237-04-19 16:05 G	15321703.94	15321704.17	15321704.41	0.0136	0.0053	*
Venus	37237-10-31 21:21 G	15321899.18	15321899.39	15321899.60	0.0136	0.0036	
Earth	37238-04-24 02:38 G	15322073.53	15322073.61	15322073.73	0.0136	0.0124	
Moon	37238-04-24 05:45 G	15322073.64	15322073.74	15322073.89	0.0136	0.0118	*
Venus	37238-06-15 03:50 G	15322125.45	15322125.66	15322125.88	0.0136	0.0009	
Venus	37239-01-27 10:33 G	15322351.73	15322351.94	15322352.16	0.0136	0.0018	
Venus	37239-09-10 17:17 G	15322578.02	15322578.22	15322578.43	0.0137	0.0046	
Venus	37240-04-24 00:00 G	15322804.32	15322804.50	15322804.69	0.0137	0.0073	
Venus	37240-12-06 06:43 G	15323030.65	15323030.78	15323030.95	0.0137	0.0101	
Venus	37241-07-20 13:55 G	15323257.03	15323257.08	15323257.18	0.0137	0.0129	
Mars	37254-04-17 12:00 G	15327910.80	15327911.00	15327911.23	0.0143	0.0091	
Mercury	37254-05-08 14:09 G	15327932.03	15327932.09	15327932.15	0.0143	0.0125	
Mercury	37254-08-04 17:45 G	15328020.15	15328020.24	15328020.33	0.0143	0.0104	
Mercury	37254-10-31 21:21 G	15328108.28	15328108.39	15328108.50	0.0143	0.0083	
Mercury	37255-01-28 00:57 G	15328196.42	15328196.54	15328196.66	0.0144	0.0062	
Mercury	37255-04-26 04:33 G	15328284.57	15328284.69	15328284.82	0.0144	0.0041	
Mercury	37255-07-23 08:09 G	15328372.71	15328372.84	15328372.98	0.0144	0.0020	
Mercury	37255-10-19 12:00 G	15328460.87	15328461.00	15328461.13	0.0144	0.0003	
Mercury	37256-01-15 15:36 G	15328549.02	15328549.15	15328549.29	0.0144	0.0025	
Mercury	37256-04-12 19:12 G	15328637.18	15328637.30	15328637.44	0.0144	0.0047	
Mercury	37256-07-09 23:02 G	15328725.35	15328725.46	15328725.58	0.0144	0.0069	
Mercury	37256-10-06 02:53 G	15328813.52	15328813.62	15328813.73	0.0144	0.0091	
Mercury	37257-01-02 06:43 G	15328901.70	15328901.78	15328901.86	0.0144	0.0113	
Mercury	37257-03-31 10:19 G	15328989.90	15328989.93	15328989.98	0.0144	0.0136	
Moon	37275-10-14 04:05 G	15335760.45	15335760.67	15335760.92	0.0143	0.0061	
Earth	37275-10-14 07:26 G	15335760.60	15335760.81	15335761.04	0.0143	0.0068	*

Venus	37276-04-09 08:09 G	15335938.72	15335938.84	15335938.99	0.0143	0.0112
Earth	37276-10-18 05:45 G	15336130.49	15336130.74	15336131.00	0.0143	0.0017
Moon	37276-10-18 09:07 G	15336130.63	15336130.88	15336131.13	0.0143	0.0009 *
Venus	37276-11-21 19:41 G	15336165.14	15336165.32	15336165.50	0.0143	0.0080
Venus	37277-07-06 06:43 G	15336391.59	15336391.78	15336392.00	0.0143	0.0049
Moon	37277-10-23 00:29 G	15336500.35	15336500.52	15336500.69	0.0143	0.0105
Earth	37277-10-23 03:07 G	15336500.46	15336500.63	15336500.82	0.0143	0.0100 *
Venus	37278-02-17 18:00 G	15336618.04	15336618.25	15336618.47	0.0142	0.0017
Venus	37278-10-02 04:48 G	15336844.49	15336844.70	15336844.92	0.0142	0.0015
Venus	37279-05-16 15:36 G	15337070.94	15337071.15	15337071.36	0.0142	0.0045
Venus	37279-12-29 01:55 G	15337297.40	15337297.58	15337297.77	0.0142	0.0076
Venus	37280-08-11 12:14 G	15337523.88	15337524.01	15337524.16	0.0141	0.0106
Venus	37281-03-25 22:19 G	15337750.39	15337750.43	15337750.50	0.0141	0.0136
Mercury	37294-12-13 12:57 G	15342760.95	15342761.04	15342761.14	0.0135	0.0116
Mercury	37295-03-11 20:09 G	15342849.20	15342849.34	15342849.48	0.0135	0.0090
Mercury	37295-06-08 02:53 G	15342937.47	15342937.62	15342937.80	0.0135	0.0065
Mercury	37295-09-04 10:05 G	15343025.75	15343025.92	15343026.11	0.0135	0.0039
Mercury	37295-12-01 17:17 G	15343114.03	15343114.22	15343114.41	0.0135	0.0013
Mercury	37296-02-28 00:14 G	15343202.32	15343202.51	15343202.70	0.0135	0.0012
Mercury	37296-05-26 06:57 G	15343290.62	15343290.79	15343290.98	0.0135	0.0038
Mercury	37296-08-22 13:55 G	15343378.92	15343379.08	15343379.25	0.0135	0.0062
Mercury	37296-11-18 20:38 G	15343467.23	15343467.36	15343467.51	0.0135	0.0087
Mercury	37297-02-15 03:36 G	15343555.55	15343555.65	15343555.75	0.0134	0.0112
Moon	37319-04-13 06:43 G	15351646.59	15351646.78	15351647.00	0.0135	0.0081
Earth	37319-04-13 10:33 G	15351646.75	15351646.94	15351647.16	0.0135	0.0082 *
Venus	37319-08-23 15:07 G	15351779.04	15351779.13	15351779.22	0.0135	0.0122
Venus	37320-04-05 21:07 G	15352005.23	15352005.38	15352005.54	0.0135	0.0097
Earth	37320-04-16 20:38 G	15352016.11	15352016.36	15352016.61	0.0135	0.0012
Moon	37320-04-17 00:00 G	15352016.25	15352016.50	15352016.76	0.0135	0.0009 *
Venus	37320-11-18 03:07 G	15352231.45	15352231.63	15352231.82	0.0135	0.0071

Moon	37321-04-21 03:07 G	15352385.41	15352385.63	15352385.88	0.0136	0.0054
Earth	37321-04-21 06:43 G	15352385.57	15352385.78	15352386.02	0.0136	0.0060 *
Venus	37321-07-02 09:36 G	15352457.70	15352457.90	15352458.11	0.0136	0.0044
Venus	37322-02-13 16:05 G	15352683.96	15352684.17	15352684.39	0.0136	0.0017
Earth	37322-04-25 17:17 G	15352755.18	15352755.22	15352755.31	0.0136	0.0131
Venus	37322-09-27 22:33 G	15352910.23	15352910.44	15352910.66	0.0136	0.0010
Venus	37323-05-12 05:02 G	15353136.51	15353136.71	15353136.93	0.0136	0.0038
Venus	37323-12-24 11:45 G	15353362.81	15353362.99	15353363.20	0.0137	0.0065
Venus	37324-08-06 18:43 G	15353589.14	15353589.28	15353589.46	0.0137	0.0092
Venus	37325-03-21 02:09 G	15353815.49	15353815.59	15353815.70	0.0137	0.0119
Mars	37337-01-10 18:00 G	15358129.15	15358129.25	15358129.38	0.0143	0.0130
Mercury	37338-03-02 18:29 G	15358545.24	15358545.27	15358545.30	0.0143	0.0138
Mercury	37338-05-29 22:05 G	15358633.35	15358633.42	15358633.49	0.0143	0.0117
Mercury	37338-08-26 01:41 G	15358721.47	15358721.57	15358721.67	0.0143	0.0096
Mercury	37338-11-22 05:02 G	15358809.61	15358809.71	15358809.83	0.0143	0.0076
Mercury	37339-02-18 08:53 G	15358897.75	15358897.87	15358897.99	0.0143	0.0054
Mercury	37339-05-17 12:29 G	15358985.89	15358986.02	15358986.15	0.0143	0.0032
Mercury	37339-08-13 16:05 G	15359074.04	15359074.17	15359074.31	0.0144	0.0012
Mercury	37339-11-09 19:55 G	15359162.20	15359162.33	15359162.46	0.0144	0.0011
Mercury	37340-02-05 23:31 G	15359250.35	15359250.48	15359250.61	0.0144	0.0033
Mercury	37340-05-04 03:21 G	15359338.51	15359338.64	15359338.76	0.0144	0.0055
Mercury	37340-07-31 06:57 G	15359426.68	15359426.79	15359426.91	0.0144	0.0077
Mercury	37340-10-27 10:48 G	15359514.86	15359514.95	15359515.05	0.0144	0.0099
Mercury	37341-01-23 14:24 G	15359603.04	15359603.10	15359603.18	0.0144	0.0122
Moon	37358-10-10 23:17 G	15366072.46	15366072.47	15366072.50	0.0144	0.0143
Moon	37359-10-15 15:07 G	15366441.92	15366442.13	15366442.36	0.0143	0.0070
Earth	37359-10-15 18:43 G	15366442.07	15366442.28	15366442.52	0.0143	0.0064 *
Venus	37359-12-09 15:07 G	15366497.04	15366497.13	15366497.26	0.0143	0.0124
Venus	37360-07-23 02:53 G	15366723.46	15366723.62	15366723.80	0.0143	0.0092
Earth	37360-10-19 17:02 G	15366811.96	15366812.21	15366812.46	0.0143	0.0021

Moon	37360-10-19 20:24 G	15366812.10	15366812.35	15366812.60	0.0143	0.0028 *
Venus	37361-03-06 14:09 G	15366949.90	15366950.09	15366950.30	0.0143	0.0061
Venus	37361-10-19 01:26 G	15367176.35	15367176.56	15367176.77	0.0143	0.0029
Moon	37361-10-24 11:02 G	15367181.79	15367181.96	15367182.16	0.0143	0.0099
Earth	37361-10-24 14:09 G	15367181.94	15367182.09	15367182.28	0.0143	0.0105 *
Venus	37362-06-02 12:14 G	15367402.79	15367403.01	15367403.23	0.0142	0.0003
Venus	37363-01-14 23:02 G	15367629.25	15367629.46	15367629.67	0.0142	0.0033
Venus	37363-08-29 09:36 G	15367855.71	15367855.90	15367856.10	0.0142	0.0064
Venus	37364-04-11 19:55 G	15368082.18	15368082.33	15368082.50	0.0142	0.0095
Venus	37364-11-24 06:14 G	15368308.67	15368308.76	15368308.87	0.0141	0.0124
Mars	37377-07-15 03:50 G	15372924.34	15372924.66	15372924.99	0.0136	0.0037
Mercury	37378-10-07 13:12 G	15373374.05	15373374.05	15373374.09	0.0135	0.0134
Mercury	37379-01-03 20:53 G	15373462.25	15373462.37	15373462.48	0.0135	0.0108
Mercury	37379-04-02 03:36 G	15373550.51	15373550.65	15373550.82	0.0135	0.0082
Mercury	37379-06-29 10:48 G	15373638.79	15373638.95	15373639.13	0.0135	0.0056
Mercury	37379-09-25 18:00 G	15373727.07	15373727.25	15373727.44	0.0135	0.0030
Mercury	37379-12-23 01:12 G	15373815.36	15373815.55	15373815.74	0.0135	0.0005
Mercury	37380-03-20 08:09 G	15373903.65	15373903.84	15373904.02	0.0135	0.0021
Mercury	37380-06-16 14:53 G	15373991.95	15373992.12	15373992.30	0.0135	0.0047
Mercury	37380-09-12 21:36 G	15374080.25	15374080.40	15374080.57	0.0135	0.0072
Mercury	37380-12-10 04:33 G	15374168.57	15374168.69	15374168.83	0.0135	0.0096
Mercury	37381-03-08 11:31 G	15374256.90	15374256.98	15374257.06	0.0134	0.0121
Moon	37403-04-14 22:05 G	15382328.22	15382328.42	15382328.63	0.0135	0.0076
Earth	37403-04-15 01:12 G	15382328.36	15382328.55	15382328.78	0.0135	0.0076 *
Venus	37403-04-24 03:07 G	15382337.59	15382337.63	15382337.70	0.0135	0.0130
Venus	37403-12-06 09:07 G	15382563.76	15382563.88	15382564.03	0.0135	0.0105
Earth	37404-04-18 11:31 G	15382697.72	15382697.98	15382698.23	0.0135	0.0006
Moon	37404-04-18 15:07 G	15382697.88	15382698.13	15382698.39	0.0135	0.0009 *
Venus	37404-07-19 15:21 G	15382789.98	15382790.14	15382790.33	0.0135	0.0079
Venus	37405-03-02 21:50 G	15383016.22	15383016.41	15383016.62	0.0136	0.0052

Moon	37405-04-22 17:45 G	15383067.04	15383067.24	15383067.48	0.0136	0.0071
Earth	37405-04-22 21:36 G	15383067.19	15383067.40	15383067.63	0.0136	0.0066 *
Venus	37405-10-15 04:19 G	15383242.47	15383242.68	15383242.89	0.0136	0.0025
Moon	37406-04-27 12:00 G	15383436.94	15383437.00	15383437.08	0.0136	0.0130
Venus	37406-05-29 10:48 G	15383468.73	15383468.95	15383469.17	0.0136	0.0002
Venus	37407-01-10 17:17 G	15383695.02	15383695.22	15383695.44	0.0136	0.0029
Venus	37407-08-25 00:00 G	15383921.31	15383921.50	15383921.71	0.0137	0.0057
Venus	37408-04-07 06:57 G	15384147.63	15384147.79	15384147.97	0.0137	0.0084
Venus	37408-11-19 13:55 G	15384373.97	15384374.08	15384374.22	0.0137	0.0112
Mars	37421-09-06 18:43 G	15389048.01	15389048.28	15389048.57	0.0143	0.0014
Mercury	37422-03-24 02:38 G	15389246.56	15389246.61	15389246.67	0.0143	0.0128
Mercury	37422-06-20 06:14 G	15389334.68	15389334.76	15389334.85	0.0143	0.0107
Mercury	37422-09-16 09:50 G	15389422.81	15389422.91	15389423.02	0.0143	0.0086
Mercury	37422-12-13 13:26 G	15389510.95	15389511.06	15389511.18	0.0143	0.0065
Mercury	37423-03-11 17:02 G	15389599.09	15389599.21	15389599.34	0.0143	0.0044
Mercury	37423-06-07 20:53 G	15389687.23	15389687.37	15389687.50	0.0143	0.0022
Mercury	37423-09-04 00:29 G	15389775.39	15389775.52	15389775.65	0.0144	0.0001
Mercury	37423-12-01 04:05 G	15389863.54	15389863.67	15389863.81	0.0144	0.0022
Mercury	37424-02-27 07:55 G	15389951.70	15389951.83	15389951.96	0.0144	0.0043
Mercury	37424-05-25 11:31 G	15390039.87	15390039.98	15390040.10	0.0144	0.0066
Mercury	37424-08-21 15:21 G	15390128.04	15390128.14	15390128.25	0.0144	0.0088
Mercury	37424-11-17 18:57 G	15390216.21	15390216.29	15390216.38	0.0144	0.0110
Mercury	37425-02-13 23:02 G	15390304.41	15390304.46	15390304.51	0.0144	0.0132
Earth	37442-10-12 11:17 G	15396753.94	15396753.97	15396754.04	0.0144	0.0141
Venus	37443-08-10 01:26 G	15397055.49	15397055.56	15397055.64	0.0143	0.0134
Moon	37443-10-17 06:57 G	15397123.56	15397123.79	15397124.04	0.0143	0.0050
Earth	37443-10-17 10:19 G	15397123.71	15397123.93	15397124.18	0.0143	0.0056 *
Venus	37444-03-23 12:43 G	15397281.89	15397282.03	15397282.19	0.0143	0.0102
Earth	37444-10-21 08:38 G	15397493.61	15397493.86	15397494.11	0.0143	0.0028
Moon	37444-10-21 12:14 G	15397493.76	15397494.01	15397494.26	0.0143	0.0020 *

Venus	37444-11-05 00:00 G	15397508.32	15397508.50	15397508.70	0.0143	0.0071
Venus	37445-06-19 11:17 G	15397734.76	15397734.97	15397735.18	0.0143	0.0039
Moon	37445-10-26 02:09 G	15397863.47	15397863.59	15397863.75	0.0143	0.0118
Earth	37445-10-26 06:00 G	15397863.60	15397863.75	15397863.91	0.0143	0.0111 *
Venus	37446-01-31 22:19 G	15397961.21	15397961.43	15397961.65	0.0142	0.0008
Venus	37446-09-15 09:07 G	15398187.67	15398187.88	15398188.10	0.0142	0.0024
Venus	37447-04-29 19:41 G	15398414.12	15398414.32	15398414.53	0.0142	0.0054
Venus	37447-12-12 06:00 G	15398640.59	15398640.75	15398640.94	0.0142	0.0085
Venus	37448-07-25 16:19 G	15398867.07	15398867.18	15398867.32	0.0141	0.0115
Mars	37462-03-12 06:14 G	15403844.59	15403844.76	15403844.96	0.0135	0.0112
Mercury	37462-10-28 21:36 G	15404075.34	15404075.40	15404075.50	0.0135	0.0124
Mercury	37463-01-25 05:17 G	15404163.59	15404163.72	15404163.85	0.0135	0.0097
Mercury	37463-04-23 12:00 G	15404251.85	15404252.00	15404252.18	0.0135	0.0071
Mercury	37463-07-20 19:12 G	15404340.13	15404340.30	15404340.49	0.0135	0.0045
Mercury	37463-10-17 02:24 G	15404428.42	15404428.60	15404428.79	0.0135	0.0019
Mercury	37464-01-13 09:36 G	15404516.71	15404516.90	15404517.09	0.0135	0.0007
Mercury	37464-04-10 16:33 G	15404605.00	15404605.19	15404605.37	0.0135	0.0032
Mercury	37464-07-07 23:17 G	15404693.31	15404693.47	15404693.65	0.0135	0.0057
Mercury	37464-10-04 06:00 G	15404781.61	15404781.75	15404781.91	0.0135	0.0083
Mercury	37464-12-31 12:43 G	15404869.94	15404870.03	15404870.16	0.0134	0.0108
Mercury	37465-03-29 19:41 G	15404958.30	15404958.32	15404958.36	0.0134	0.0132
Moon	37487-04-15 12:29 G	15413009.81	15413010.02	15413010.24	0.0135	0.0068
Earth	37487-04-15 16:05 G	15413009.96	15413010.17	15413010.39	0.0135	0.0069 *
Venus	37487-08-05 21:21 G	15413122.29	15413122.39	15413122.53	0.0135	0.0113
Venus	37488-03-19 03:36 G	15413348.50	15413348.65	15413348.83	0.0135	0.0086
Earth	37488-04-19 01:55 G	15413379.32	15413379.58	15413379.83	0.0135	0.0002
Moon	37488-04-19 05:17 G	15413379.46	15413379.72	15413379.98	0.0135	0.0003 *
Venus	37488-10-31 10:05 G	15413574.72	15413574.92	15413575.11	0.0136	0.0060
Moon	37489-04-23 08:24 G	15413748.64	15413748.85	15413749.08	0.0136	0.0067
Earth	37489-04-23 12:00 G	15413748.80	15413749.00	15413749.23	0.0136	0.0073 *

Venus	37489-06-14 16:05 G	15413800.97	15413801.17	15413801.39	0.0136	0.0034
Venus	37490-01-26 22:48 G	15414027.24	15414027.45	15414027.67	0.0136	0.0007
Venus	37490-09-10 05:31 G	15414253.51	15414253.73	15414253.94	0.0136	0.0020
Venus	37491-04-24 12:00 G	15414479.80	15414480.00	15414480.21	0.0136	0.0048
Venus	37491-12-06 18:57 G	15414706.11	15414706.29	15414706.47	0.0137	0.0075
Venus	37492-07-20 01:55 G	15414932.44	15414932.58	15414932.73	0.0137	0.0102
Venus	37493-03-03 08:53 G	15415158.83	15415158.87	15415158.96	0.0137	0.0131
Mercury	37506-01-16 06:57 G	15419859.78	15419859.79	15419859.82	0.0143	0.0141
Mercury	37506-04-14 10:33 G	15419947.88	15419947.94	15419948.02	0.0143	0.0120
Mercury	37506-07-11 14:09 G	15420036.00	15420036.09	15420036.19	0.0143	0.0099
Mercury	37506-10-07 18:00 G	15420124.14	15420124.25	15420124.36	0.0143	0.0078
Mercury	37507-01-03 21:21 G	15420212.27	15420212.39	15420212.52	0.0143	0.0057
Mercury	37507-04-02 01:12 G	15420300.42	15420300.55	15420300.68	0.0143	0.0035
Mercury	37507-06-29 04:48 G	15420388.57	15420388.70	15420388.83	0.0143	0.0013
Mercury	37507-09-25 08:24 G	15420476.72	15420476.85	15420476.99	0.0144	0.0009
Mercury	37507-12-22 12:14 G	15420564.88	15420565.01	15420565.14	0.0144	0.0031
Mercury	37508-03-19 15:50 G	15420653.04	15420653.16	15420653.29	0.0144	0.0052
Mercury	37508-06-15 19:26 G	15420741.20	15420741.31	15420741.43	0.0144	0.0075
Mercury	37508-09-11 23:17 G	15420829.38	15420829.47	15420829.57	0.0144	0.0097
Mercury	37508-12-09 03:07 G	15420917.56	15420917.63	15420917.71	0.0144	0.0119
Mercury	37509-03-07 06:57 G	15421005.77	15421005.79	15421005.81	0.0144	0.0141
Earth	37526-10-14 01:12 G	15427435.49	15427435.55	15427435.66	0.0144	0.0135
Moon	37526-10-14 05:02 G	15427435.61	15427435.71	15427435.82	0.0144	0.0130 *
Moon	37527-10-18 20:38 G	15427805.14	15427805.36	15427805.60	0.0143	0.0057
Earth	37527-10-19 00:29 G	15427805.28	15427805.52	15427805.76	0.0143	0.0050 *
Venus	37527-11-22 21:21 G	15427840.27	15427840.39	15427840.54	0.0143	0.0113
Venus	37528-07-06 08:53 G	15428066.70	15428066.87	15428067.06	0.0143	0.0082
Earth	37528-10-22 22:19 G	15428175.19	15428175.43	15428175.68	0.0143	0.0034
Moon	37528-10-23 01:41 G	15428175.34	15428175.57	15428175.82	0.0143	0.0042 *
Venus	37529-02-17 20:09 G	15428293.14	15428293.34	15428293.55	0.0143	0.0050

Venus	37529-10-02 07:12 G	15428519.59	15428519.80	15428520.02	0.0143	0.0019
Moon	37529-10-27 15:36 G	15428545.02	15428545.15	15428545.33	0.0143	0.0112
Earth	37529-10-27 19:26 G	15428545.19	15428545.31	15428545.47	0.0143	0.0118 *
Venus	37530-05-16 18:14 G	15428746.04	15428746.26	15428746.48	0.0142	0.0013
Venus	37530-12-29 04:48 G	15428972.50	15428972.70	15428972.91	0.0142	0.0044
Venus	37531-08-12 15:21 G	15429198.97	15429199.14	15429199.34	0.0142	0.0075
Venus	37532-03-26 01:55 G	15429425.44	15429425.58	15429425.73	0.0142	0.0105
Venus	37532-11-07 12:00 G	15429651.95	15429652.00	15429652.08	0.0141	0.0135
Mars	37544-12-02 11:17 G	15434059.85	15434059.97	15434060.16	0.0136	0.0121
Mercury	37546-11-19 06:14 G	15434776.66	15434776.76	15434776.87	0.0135	0.0113
Mercury	37547-02-15 13:26 G	15434864.91	15434865.06	15434865.21	0.0135	0.0086
Mercury	37547-05-14 20:38 G	15434953.19	15434953.36	15434953.53	0.0135	0.0060
Mercury	37547-08-11 03:36 G	15435041.47	15435041.65	15435041.84	0.0135	0.0035
Mercury	37547-11-07 10:48 G	15435129.76	15435129.95	15435130.14	0.0135	0.0009
Mercury	37548-02-03 17:45 G	15435218.05	15435218.24	15435218.43	0.0135	0.0017
Mercury	37548-05-02 00:43 G	15435306.35	15435306.53	15435306.71	0.0135	0.0042
Mercury	37548-07-29 07:26 G	15435394.65	15435394.81	15435394.98	0.0135	0.0067
Mercury	37548-10-25 14:09 G	15435482.97	15435483.09	15435483.24	0.0135	0.0093
Mercury	37549-01-21 20:53 G	15435571.30	15435571.37	15435571.48	0.0134	0.0118
Earth	37570-04-12 19:26 G	15443322.30	15443322.31	15443322.37	0.0135	0.0134
Moon	37570-04-12 22:48 G	15443322.39	15443322.45	15443322.54	0.0135	0.0128
Venus	37571-04-06 09:07 G	15443680.79	15443680.88	15443680.98	0.0135	0.0120
Moon	37571-04-17 02:09 G	15443691.37	15443691.59	15443691.81	0.0135	0.0066
Earth	37571-04-17 05:02 G	15443691.50	15443691.71	15443691.94	0.0135	0.0064 *
Venus	37571-11-18 15:07 G	15443906.98	15443907.13	15443907.29	0.0135	0.0095
Earth	37572-04-20 14:53 G	15444060.87	15444061.12	15444061.38	0.0135	0.0007
Moon	37572-04-20 18:29 G	15444061.01	15444061.27	15444061.53	0.0135	0.0005 *
Venus	37572-07-01 21:07 G	15444133.20	15444133.38	15444133.57	0.0135	0.0069
Venus	37573-02-13 03:36 G	15444359.45	15444359.65	15444359.86	0.0136	0.0042
Moon	37573-04-24 21:36 G	15444430.22	15444430.40	15444430.62	0.0136	0.0082

Earth	37573-04-25 00:57 G	15444430.34	15444430.54	15444430.76	0.0136	0.0078	*
Venus	37573-09-27 09:50 G	15444585.70	15444585.91	15444586.13	0.0136	0.0016	
Venus	37574-05-11 16:19 G	15444811.97	15444812.18	15444812.40	0.0136	0.0012	
Venus	37574-12-23 23:02 G	15445038.25	15445038.46	15445038.67	0.0136	0.0039	
Venus	37575-08-07 05:45 G	15445264.56	15445264.74	15445264.94	0.0137	0.0066	
Venus	37576-03-20 12:57 G	15445490.88	15445491.04	15445491.20	0.0137	0.0093	
Venus	37576-11-01 20:09 G	15445717.24	15445717.34	15445717.44	0.0137	0.0121	
Mars	37589-01-25 22:48 G	15450185.22	15450185.45	15450185.71	0.0143	0.0070	
Mercury	37590-02-05 14:53 G	15450561.08	15450561.12	15450561.17	0.0143	0.0133	
Mercury	37590-05-04 18:29 G	15450649.19	15450649.27	15450649.35	0.0143	0.0112	
Mercury	37590-07-31 22:05 G	15450737.32	15450737.42	15450737.52	0.0143	0.0091	
Mercury	37590-10-28 01:26 G	15450825.45	15450825.56	15450825.68	0.0143	0.0071	
Mercury	37591-01-24 05:17 G	15450913.59	15450913.72	15450913.84	0.0143	0.0049	
Mercury	37591-04-22 08:53 G	15451001.74	15451001.87	15451002.00	0.0143	0.0027	
Mercury	37591-07-19 12:29 G	15451089.89	15451090.02	15451090.16	0.0143	0.0006	
Mercury	37591-10-15 16:19 G	15451178.04	15451178.18	15451178.31	0.0144	0.0017	
Mercury	37592-01-11 19:55 G	15451266.20	15451266.33	15451266.46	0.0144	0.0038	
Mercury	37592-04-08 23:31 G	15451354.36	15451354.48	15451354.61	0.0144	0.0060	
Mercury	37592-07-06 03:21 G	15451442.53	15451442.64	15451442.75	0.0144	0.0082	
Mercury	37592-10-02 06:57 G	15451530.71	15451530.79	15451530.89	0.0144	0.0105	
Mercury	37592-12-29 10:48 G	15451618.89	15451618.95	15451619.02	0.0144	0.0127	
Earth	37610-10-14 15:21 G	15458117.04	15458117.14	15458117.26	0.0144	0.0128	
Moon	37610-10-14 18:29 G	15458117.18	15458117.27	15458117.39	0.0144	0.0131	*
Venus	37611-07-23 06:29 G	15458398.67	15458398.77	15458398.88	0.0143	0.0124	
Moon	37611-10-19 10:48 G	15458486.72	15458486.95	15458487.21	0.0143	0.0038	
Earth	37611-10-19 14:09 G	15458486.86	15458487.09	15458487.34	0.0143	0.0044	*
Venus	37612-03-05 17:45 G	15458625.09	15458625.24	15458625.42	0.0143	0.0093	
Venus	37612-10-18 05:02 G	15458851.52	15458851.71	15458851.92	0.0143	0.0061	
Earth	37612-10-23 12:14 G	15458856.78	15458857.01	15458857.26	0.0143	0.0041	
Moon	37612-10-23 16:05 G	15458856.93	15458857.17	15458857.42	0.0143	0.0033	*

Venus	37613-06-01 16:19 G	15459077.97	15459078.18	15459078.40	0.0143	0.0029
Moon	37613-10-28 06:00 G	15459226.67	15459226.75	15459226.87	0.0143	0.0131
Earth	37613-10-28 09:36 G	15459226.79	15459226.90	15459227.04	0.0143	0.0124 *
Venus	37614-01-14 03:21 G	15459304.42	15459304.64	15459304.86	0.0143	0.0002
Venus	37614-08-28 14:24 G	15459530.89	15459531.10	15459531.31	0.0142	0.0033
Venus	37615-04-12 00:57 G	15459757.35	15459757.54	15459757.74	0.0142	0.0064
Venus	37615-11-24 11:17 G	15459983.82	15459983.97	15459984.15	0.0142	0.0095
Venus	37616-07-07 21:50 G	15460210.32	15460210.41	15460210.52	0.0141	0.0125
Mars	37629-07-29 15:50 G	15464979.84	15464980.16	15464980.50	0.0136	0.0031
Mercury	37630-09-12 07:12 G	15465389.75	15465389.80	15465389.87	0.0135	0.0128
Mercury	37630-12-09 14:24 G	15465477.99	15465478.10	15465478.24	0.0135	0.0102
Mercury	37631-03-07 21:50 G	15465566.25	15465566.41	15465566.57	0.0135	0.0076
Mercury	37631-06-04 04:48 G	15465654.53	15465654.70	15465654.88	0.0135	0.0050
Mercury	37631-08-31 12:00 G	15465742.82	15465743.00	15465743.19	0.0135	0.0024
Mercury	37631-11-27 19:12 G	15465831.11	15465831.30	15465831.49	0.0135	0.0003
Mercury	37632-02-24 01:55 G	15465919.40	15465919.58	15465919.77	0.0135	0.0028
Mercury	37632-05-22 08:53 G	15466007.70	15466007.87	15466008.05	0.0135	0.0053
Mercury	37632-08-18 15:50 G	15466096.01	15466096.16	15466096.32	0.0135	0.0078
Mercury	37632-11-14 22:48 G	15466184.33	15466184.45	15466184.57	0.0134	0.0103
Mercury	37633-02-11 05:31 G	15466272.68	15466272.73	15466272.79	0.0134	0.0128
Earth	37654-04-13 08:24 G	15474003.78	15474003.85	15474003.93	0.0135	0.0128
Moon	37654-04-13 11:17 G	15474003.93	15474003.97	15474004.03	0.0135	0.0132 *
Venus	37654-12-04 19:55 G	15474239.28	15474239.33	15474239.40	0.0135	0.0129
Moon	37655-04-17 14:38 G	15474372.89	15474373.11	15474373.34	0.0135	0.0056
Earth	37655-04-17 17:31 G	15474373.01	15474373.23	15474373.47	0.0135	0.0059 *
Venus	37655-07-19 02:09 G	15474465.45	15474465.59	15474465.73	0.0135	0.0103
Venus	37656-03-01 08:09 G	15474691.67	15474691.84	15474692.02	0.0135	0.0078
Earth	37656-04-21 03:07 G	15474742.38	15474742.63	15474742.89	0.0135	0.0012
Moon	37656-04-21 06:14 G	15474742.50	15474742.76	15474743.02	0.0135	0.0013 *
Venus	37656-10-13 14:09 G	15474917.90	15474918.09	15474918.30	0.0135	0.0052

Moon	37657-04-25 09:50 G	15475111.72	15475111.91	15475112.13	0.0136	0.0079
Earth	37657-04-25 13:12 G	15475111.87	15475112.05	15475112.27	0.0136	0.0083 *
Venus	37657-05-27 20:38 G	15475144.15	15475144.36	15475144.57	0.0136	0.0025
Venus	37658-01-09 03:07 G	15475370.41	15475370.63	15475370.85	0.0136	0.0002
Venus	37658-08-23 09:36 G	15475596.69	15475596.90	15475597.11	0.0136	0.0029
Venus	37659-04-06 16:05 G	15475822.99	15475823.17	15475823.38	0.0136	0.0057
Venus	37659-11-18 23:02 G	15476049.30	15476049.46	15476049.64	0.0137	0.0083
Venus	37660-07-02 05:45 G	15476275.63	15476275.74	15476275.89	0.0137	0.0111
Mars	37673-09-20 15:07 G	15481103.89	15481104.13	15481104.40	0.0143	0.0066
Mercury	37674-02-25 22:05 G	15481262.37	15481262.42	15481262.48	0.0143	0.0128
Mercury	37674-05-25 01:41 G	15481350.49	15481350.57	15481350.66	0.0143	0.0107
Mercury	37674-08-21 05:17 G	15481438.62	15481438.72	15481438.83	0.0143	0.0086
Mercury	37674-11-17 08:53 G	15481526.75	15481526.87	15481526.99	0.0143	0.0065
Mercury	37675-02-13 12:29 G	15481614.89	15481615.02	15481615.15	0.0143	0.0044
Mercury	37675-05-12 16:05 G	15481703.04	15481703.17	15481703.30	0.0143	0.0022
Mercury	37675-08-08 19:41 G	15481791.19	15481791.32	15481791.46	0.0143	0.0004
Mercury	37675-11-04 23:31 G	15481879.34	15481879.48	15481879.61	0.0144	0.0021
Mercury	37676-02-01 03:07 G	15481967.50	15481967.63	15481967.76	0.0144	0.0043
Mercury	37676-04-29 06:43 G	15482055.67	15482055.78	15482055.90	0.0144	0.0065
Mercury	37676-07-26 10:33 G	15482143.83	15482143.94	15482144.05	0.0144	0.0087
Mercury	37676-10-22 14:24 G	15482232.01	15482232.10	15482232.18	0.0144	0.0109
Mercury	37677-01-18 17:45 G	15482320.20	15482320.24	15482320.31	0.0144	0.0132
Earth	37694-10-14 23:31 G	15488798.37	15488798.48	15488798.61	0.0144	0.0126
Moon	37694-10-15 02:24 G	15488798.48	15488798.60	15488798.74	0.0144	0.0123 *
Venus	37695-03-22 11:31 G	15488956.94	15488956.98	15488957.06	0.0144	0.0138
Moon	37695-10-19 19:12 G	15489168.08	15489168.30	15489168.55	0.0143	0.0048
Earth	37695-10-19 22:48 G	15489168.21	15489168.45	15489168.69	0.0143	0.0041 *
Venus	37695-11-03 23:02 G	15489183.33	15489183.46	15489183.62	0.0143	0.0107
Venus	37696-06-17 10:48 G	15489409.76	15489409.95	15489410.14	0.0143	0.0074
Earth	37696-10-23 20:53 G	15489538.14	15489538.37	15489538.62	0.0143	0.0044

Moon	37696-10-24 00:00 G	15489538.27	15489538.50	15489538.75	0.0143	0.0051 *
Venus	37697-01-29 22:05 G	15489636.21	15489636.42	15489636.63	0.0143	0.0043
Venus	37697-09-13 09:21 G	15489862.67	15489862.89	15489863.11	0.0143	0.0011
Moon	37697-10-28 14:38 G	15489907.99	15489908.11	15489908.26	0.0143	0.0120
Earth	37697-10-28 18:14 G	15489908.16	15489908.26	15489908.39	0.0143	0.0127 *
Venus	37698-04-27 20:09 G	15490089.13	15490089.34	15490089.56	0.0142	0.0020
Venus	37698-12-10 06:57 G	15490315.60	15490315.79	15490316.00	0.0142	0.0051
Venus	37699-07-24 17:45 G	15490542.07	15490542.24	15490542.43	0.0142	0.0082
Venus	37700-03-08 04:33 G	15490768.56	15490768.69	15490768.82	0.0142	0.0112
Mercury	37714-10-03 14:38 G	15496091.04	15496091.11	15496091.21	0.0135	0.0121
Mercury	37714-12-30 21:50 G	15496179.29	15496179.41	15496179.56	0.0135	0.0095
Mercury	37715-03-29 05:02 G	15496267.56	15496267.71	15496267.89	0.0135	0.0069
Mercury	37715-06-25 12:14 G	15496355.84	15496356.01	15496356.20	0.0135	0.0042
Mercury	37715-09-21 19:41 G	15496444.13	15496444.32	15496444.51	0.0135	0.0016
Mercury	37715-12-19 02:38 G	15496532.42	15496532.61	15496532.80	0.0135	0.0010
Mercury	37716-03-16 09:36 G	15496620.72	15496620.90	15496621.08	0.0135	0.0035
Mercury	37716-06-12 16:33 G	15496709.02	15496709.19	15496709.36	0.0135	0.0061
Mercury	37716-09-08 23:17 G	15496797.34	15496797.47	15496797.62	0.0135	0.0086
Mercury	37716-12-06 06:14 G	15496885.66	15496885.76	15496885.87	0.0135	0.0111
Earth	37738-04-14 20:09 G	15504685.26	15504685.34	15504685.46	0.0135	0.0124
Moon	37738-04-14 22:48 G	15504685.33	15504685.45	15504685.59	0.0135	0.0117 *
Venus	37739-03-19 12:57 G	15505023.93	15505024.04	15505024.16	0.0135	0.0112
Moon	37739-04-19 03:21 G	15505054.41	15505054.64	15505054.86	0.0135	0.0056
Earth	37739-04-19 05:31 G	15505054.51	15505054.73	15505054.97	0.0135	0.0054 *
Venus	37739-10-31 18:57 G	15505250.13	15505250.29	15505250.46	0.0135	0.0086
Earth	37740-04-22 15:21 G	15505423.89	15505424.14	15505424.39	0.0135	0.0017
Moon	37740-04-22 18:14 G	15505424.00	15505424.26	15505424.52	0.0135	0.0016 *
Venus	37740-06-14 00:57 G	15505476.35	15505476.54	15505476.74	0.0135	0.0060
Venus	37741-01-26 07:12 G	15505702.60	15505702.80	15505703.02	0.0135	0.0034
Moon	37741-04-26 22:48 G	15505793.28	15505793.45	15505793.65	0.0135	0.0091

Earth	37741-04-27 01:12 G	15505793.37	15505793.55	15505793.76	0.0135	0.0088 *
Venus	37741-09-09 13:41 G	15505928.85	15505929.07	15505929.29	0.0136	0.0007
Venus	37742-04-23 19:55 G	15506155.12	15506155.33	15506155.55	0.0136	0.0020
Venus	37742-12-06 02:38 G	15506381.41	15506381.61	15506381.82	0.0136	0.0046
Venus	37743-07-20 09:21 G	15506607.71	15506607.89	15506608.08	0.0136	0.0074
Venus	37744-03-02 16:19 G	15506834.04	15506834.18	15506834.33	0.0137	0.0101
Venus	37744-10-14 23:02 G	15507060.40	15507060.46	15507060.55	0.0137	0.0128
Mercury	37758-03-19 05:02 G	15511963.66	15511963.71	15511963.79	0.0143	0.0124
Mercury	37758-06-15 08:38 G	15512051.78	15512051.86	15512051.96	0.0143	0.0103
Mercury	37758-09-11 12:29 G	15512139.91	15512140.02	15512140.13	0.0143	0.0081
Mercury	37758-12-08 16:05 G	15512228.05	15512228.17	15512228.29	0.0143	0.0060
Mercury	37759-03-06 19:41 G	15512316.19	15512316.32	15512316.45	0.0143	0.0039
Mercury	37759-06-02 23:17 G	15512404.34	15512404.47	15512404.60	0.0143	0.0018
Mercury	37759-08-30 02:53 G	15512492.49	15512492.62	15512492.76	0.0143	0.0005
Mercury	37759-11-26 06:29 G	15512580.64	15512580.77	15512580.91	0.0143	0.0026
Mercury	37760-02-22 10:19 G	15512668.80	15512668.93	15512669.05	0.0144	0.0048
Mercury	37760-05-20 13:55 G	15512756.97	15512757.08	15512757.20	0.0144	0.0070
Mercury	37760-08-16 17:31 G	15512845.14	15512845.23	15512845.34	0.0144	0.0092
Mercury	37760-11-12 21:21 G	15512933.31	15512933.39	15512933.47	0.0144	0.0114
Mercury	37761-02-09 01:12 G	15513021.51	15513021.55	15513021.59	0.0144	0.0136
Earth	37778-10-16 07:41 G	15519479.71	15519479.82	15519479.97	0.0144	0.0124
Moon	37778-10-16 10:05 G	15519479.81	15519479.92	15519480.06	0.0144	0.0125 *
Venus	37779-07-05 04:19 G	15519741.58	15519741.68	15519741.82	0.0144	0.0120
Moon	37779-10-21 04:19 G	15519849.45	15519849.68	15519849.93	0.0143	0.0035
Earth	37779-10-21 07:12 G	15519849.55	15519849.80	15519850.04	0.0143	0.0039 *
Venus	37780-02-16 15:50 G	15519968.01	15519968.16	15519968.35	0.0143	0.0089
Venus	37780-09-30 03:36 G	15520194.45	15520194.65	15520194.85	0.0143	0.0056
Earth	37780-10-25 05:17 G	15520219.49	15520219.72	15520219.97	0.0143	0.0046
Moon	37780-10-25 08:38 G	15520219.62	15520219.86	15520220.12	0.0143	0.0038 *
Venus	37781-05-14 14:53 G	15520420.91	15520421.12	15520421.34	0.0143	0.0025

Moon	37781-10-29 23:31 G	15520589.44	15520589.48	15520589.58	0.0143	0.0137
Earth	37781-10-30 02:53 G	15520589.53	15520589.62	15520589.74	0.0143	0.0129 *
Venus	37781-12-27 01:55 G	15520647.37	15520647.58	15520647.80	0.0143	0.0008
Venus	37782-08-10 12:57 G	15520873.84	15520874.04	15520874.26	0.0142	0.0039
Venus	37783-03-24 23:45 G	15521100.31	15521100.49	15521100.69	0.0142	0.0070
Venus	37783-11-06 10:19 G	15521326.80	15521326.93	15521327.10	0.0142	0.0100
Venus	37784-06-19 20:53 G	15521553.30	15521553.37	15521553.47	0.0141	0.0130
Mars	37796-12-15 09:36 G	15526114.62	15526114.90	15526115.21	0.0136	0.0065
Mercury	37798-10-23 22:05 G	15526792.33	15526792.42	15526792.53	0.0135	0.0113
Mercury	37799-01-20 05:31 G	15526880.59	15526880.73	15526880.88	0.0135	0.0087
Mercury	37799-04-18 12:43 G	15526968.86	15526969.03	15526969.20	0.0135	0.0060
Mercury	37799-07-15 19:55 G	15527057.14	15527057.33	15527057.51	0.0135	0.0034
Mercury	37799-10-12 02:53 G	15527145.43	15527145.62	15527145.81	0.0135	0.0009
Mercury	37800-01-08 10:05 G	15527233.73	15527233.92	15527234.11	0.0135	0.0017
Mercury	37800-04-06 17:02 G	15527322.03	15527322.21	15527322.39	0.0135	0.0043
Mercury	37800-07-04 00:00 G	15527410.34	15527410.50	15527410.66	0.0135	0.0068
Mercury	37800-09-30 06:43 G	15527498.65	15527498.78	15527498.92	0.0135	0.0094
Mercury	37800-12-27 13:26 G	15527586.99	15527587.06	15527587.16	0.0135	0.0119
Earth	37822-04-16 09:21 G	15535366.78	15535366.89	15535367.02	0.0135	0.0118
Moon	37822-04-16 11:17 G	15535366.88	15535366.97	15535367.10	0.0135	0.0123 *
Venus	37822-11-18 00:00 G	15535582.42	15535582.50	15535582.61	0.0135	0.0121
Moon	37823-04-20 16:33 G	15535735.97	15535736.19	15535736.44	0.0135	0.0045
Earth	37823-04-20 18:29 G	15535736.05	15535736.27	15535736.52	0.0135	0.0049 *
Venus	37823-07-02 06:00 G	15535808.61	15535808.75	15535808.92	0.0135	0.0095
Venus	37824-02-13 12:14 G	15536034.84	15536035.01	15536035.21	0.0135	0.0069
Earth	37824-04-24 04:19 G	15536105.43	15536105.68	15536105.94	0.0135	0.0022
Moon	37824-04-24 06:29 G	15536105.51	15536105.77	15536106.03	0.0135	0.0022 *
Venus	37824-09-26 18:43 G	15536261.07	15536261.28	15536261.49	0.0135	0.0043
Moon	37825-04-28 12:14 G	15536474.83	15536475.01	15536475.20	0.0135	0.0090
Earth	37825-04-28 14:24 G	15536474.94	15536475.10	15536475.31	0.0135	0.0094 *

Venus	37825-05-11 00:57 G	15536487.32	15536487.54	15536487.76	0.0135	0.0016
Venus	37825-12-23 07:26 G	15536713.59	15536713.81	15536714.02	0.0136	0.0011
Venus	37826-08-06 13:55 G	15536939.87	15536940.08	15536940.29	0.0136	0.0037
Venus	37827-03-20 20:38 G	15537166.17	15537166.36	15537166.55	0.0136	0.0064
Venus	37827-11-02 03:07 G	15537392.48	15537392.63	15537392.80	0.0136	0.0092
Venus	37828-06-15 09:50 G	15537618.83	15537618.91	15537619.04	0.0137	0.0119
Mars	37841-02-09 12:29 G	15542240.75	15542241.02	15542241.30	0.0142	0.0027
Mercury	37842-01-11 09:07 G	15542576.86	15542576.88	15542576.92	0.0143	0.0138
Mercury	37842-04-09 12:43 G	15542664.96	15542665.03	15542665.11	0.0143	0.0117
Mercury	37842-07-06 16:19 G	15542753.09	15542753.18	15542753.28	0.0143	0.0096
Mercury	37842-10-02 19:55 G	15542841.22	15542841.33	15542841.45	0.0143	0.0075
Mercury	37842-12-29 23:31 G	15542929.36	15542929.48	15542929.61	0.0143	0.0054
Mercury	37843-03-28 03:07 G	15543017.50	15543017.63	15543017.76	0.0143	0.0033
Mercury	37843-06-24 06:43 G	15543105.65	15543105.78	15543105.92	0.0143	0.0012
Mercury	37843-09-20 10:33 G	15543193.80	15543193.94	15543194.07	0.0143	0.0011
Mercury	37843-12-17 14:09 G	15543281.96	15543282.09	15543282.22	0.0143	0.0032
Mercury	37844-03-14 17:45 G	15543370.12	15543370.24	15543370.36	0.0143	0.0054
Mercury	37844-06-10 21:21 G	15543458.28	15543458.39	15543458.51	0.0144	0.0076
Mercury	37844-09-07 01:12 G	15543546.45	15543546.55	15543546.65	0.0144	0.0098
Mercury	37844-12-04 04:48 G	15543634.63	15543634.70	15543634.78	0.0144	0.0120
Mercury	37845-03-02 08:38 G	15543722.85	15543722.86	15543722.88	0.0144	0.0142
Earth	37862-10-17 15:50 G	15550161.04	15550161.16	15550161.30	0.0144	0.0122
Moon	37862-10-17 17:31 G	15550161.10	15550161.23	15550161.38	0.0144	0.0121 *
Venus	37863-03-05 09:36 G	15550299.83	15550299.90	15550299.99	0.0144	0.0133
Venus	37863-10-17 21:07 G	15550526.24	15550526.38	15550526.55	0.0143	0.0102
Moon	37863-10-22 12:57 G	15550530.80	15550531.04	15550531.28	0.0143	0.0042
Earth	37863-10-22 14:53 G	15550530.88	15550531.12	15550531.38	0.0143	0.0037 *
Venus	37864-05-31 08:24 G	15550752.68	15550752.85	15550753.06	0.0143	0.0071
Earth	37864-10-26 13:26 G	15550900.82	15550901.06	15550901.30	0.0143	0.0047
Moon	37864-10-26 15:36 G	15550900.92	15550901.15	15550901.40	0.0143	0.0054 *

Venus	37865-01-12 20:09 G	15550979.13	15550979.34	15550979.55	0.0143	0.0038
Venus	37865-08-27 07:26 G	15551205.60	15551205.81	15551206.03	0.0143	0.0007
Moon	37865-10-31 07:41 G	15551270.72	15551270.82	15551270.96	0.0143	0.0124
Earth	37865-10-31 10:48 G	15551270.87	15551270.95	15551271.07	0.0143	0.0131 *
Venus	37866-04-10 18:43 G	15551432.06	15551432.28	15551432.49	0.0142	0.0025
Venus	37866-11-23 05:17 G	15551658.53	15551658.72	15551658.93	0.0142	0.0056
Venus	37867-07-07 16:05 G	15551885.01	15551885.17	15551885.35	0.0142	0.0087
Venus	37868-02-19 02:38 G	15552111.50	15552111.61	15552111.75	0.0142	0.0117
Mars	37881-08-12 02:24 G	15557034.33	15557034.60	15557034.89	0.0136	0.0078
Mercury	37882-08-17 21:21 G	15557405.39	15557405.39	15557405.43	0.0136	0.0135
Mercury	37882-11-14 05:02 G	15557493.60	15557493.71	15557493.83	0.0135	0.0108
Mercury	37883-02-10 12:14 G	15557581.86	15557582.01	15557582.17	0.0135	0.0081
Mercury	37883-05-09 19:26 G	15557670.14	15557670.31	15557670.49	0.0135	0.0055
Mercury	37883-08-06 02:38 G	15557758.43	15557758.61	15557758.80	0.0135	0.0029
Mercury	37883-11-02 09:50 G	15557846.72	15557846.91	15557847.10	0.0135	0.0003
Mercury	37884-01-29 16:48 G	15557935.02	15557935.20	15557935.39	0.0135	0.0023
Mercury	37884-04-26 23:45 G	15558023.32	15558023.49	15558023.67	0.0135	0.0049
Mercury	37884-07-24 06:43 G	15558111.63	15558111.78	15558111.94	0.0135	0.0074
Mercury	37884-10-20 13:41 G	15558199.95	15558200.07	15558200.20	0.0135	0.0099
Mercury	37885-01-16 20:38 G	15558288.29	15558288.36	15558288.43	0.0135	0.0124
Earth	37906-04-17 22:19 G	15566048.30	15566048.43	15566048.57	0.0135	0.0113
Moon	37906-04-17 23:02 G	15566048.32	15566048.46	15566048.64	0.0135	0.0107 *
Venus	37906-07-19 11:17 G	15566140.93	15566140.97	15566141.05	0.0135	0.0129
Venus	37907-03-02 17:31 G	15566367.10	15566367.23	15566367.38	0.0135	0.0103
Moon	37907-04-22 06:00 G	15566417.53	15566417.75	15566417.99	0.0135	0.0047
Earth	37907-04-22 07:41 G	15566417.58	15566417.82	15566418.06	0.0135	0.0043 *
Venus	37907-10-14 23:45 G	15566593.31	15566593.49	15566593.67	0.0135	0.0077
Earth	37908-04-25 17:31 G	15566786.98	15566787.23	15566787.48	0.0135	0.0027
Moon	37908-04-25 19:26 G	15566787.06	15566787.31	15566787.57	0.0135	0.0028 *
Venus	37908-05-28 05:45 G	15566819.55	15566819.74	15566819.95	0.0135	0.0051

Venus	37909-01-09 12:14 G	15567045.80	15567046.01	15567046.22	0.0135	0.0025
Moon	37909-04-30 02:09 G	15567156.44	15567156.59	15567156.77	0.0136	0.0101
Earth	37909-04-30 03:36 G	15567156.50	15567156.65	15567156.85	0.0136	0.0099 *
Venus	37909-08-23 18:43 G	15567272.06	15567272.28	15567272.49	0.0136	0.0003
Venus	37910-04-07 00:57 G	15567498.34	15567498.54	15567498.76	0.0136	0.0029
Venus	37910-11-19 07:26 G	15567724.63	15567724.81	15567725.02	0.0136	0.0056
Venus	37911-07-03 14:24 G	15567950.93	15567951.10	15567951.27	0.0136	0.0083
Venus	37912-02-14 21:07 G	15568177.26	15568177.38	15568177.52	0.0137	0.0110
Venus	37912-09-28 04:05 G	15568403.67	15568403.67	15568403.69	0.0137	0.0137
Mars	37925-10-06 08:53 G	15573159.72	15573159.87	15573160.05	0.0143	0.0116
Mercury	37926-02-01 17:02 G	15573278.17	15573278.21	15573278.27	0.0143	0.0130
Mercury	37926-04-30 20:38 G	15573366.28	15573366.36	15573366.45	0.0143	0.0109
Mercury	37926-07-28 00:14 G	15573454.41	15573454.51	15573454.62	0.0143	0.0088
Mercury	37926-10-24 03:50 G	15573542.54	15573542.66	15573542.78	0.0143	0.0067
Mercury	37927-01-20 07:26 G	15573630.68	15573630.81	15573630.94	0.0143	0.0046
Mercury	37927-04-18 11:02 G	15573718.83	15573718.96	15573719.09	0.0143	0.0024
Mercury	37927-07-15 14:38 G	15573806.98	15573807.11	15573807.24	0.0143	0.0003
Mercury	37927-10-11 18:14 G	15573895.13	15573895.26	15573895.39	0.0143	0.0019
Mercury	37928-01-07 21:50 G	15573983.29	15573983.41	15573983.54	0.0143	0.0041
Mercury	37928-04-05 01:26 G	15574071.45	15574071.56	15574071.69	0.0143	0.0063
Mercury	37928-07-02 05:17 G	15574159.61	15574159.72	15574159.83	0.0144	0.0084
Mercury	37928-09-28 09:07 G	15574247.79	15574247.88	15574247.97	0.0144	0.0106
Mercury	37928-12-25 12:43 G	15574335.97	15574336.03	15574336.09	0.0144	0.0128
Earth	37946-10-19 03:36 G	15580842.52	15580842.65	15580842.81	0.0144	0.0118
Moon	37946-10-19 04:19 G	15580842.55	15580842.68	15580842.85	0.0144	0.0117 *
Venus	37947-06-18 04:48 G	15581084.57	15581084.70	15581084.83	0.0143	0.0113
Moon	37947-10-24 01:26 G	15581212.33	15581212.56	15581212.81	0.0143	0.0030
Earth	37947-10-24 02:53 G	15581212.38	15581212.62	15581212.87	0.0143	0.0033 *
Venus	37948-01-30 16:05 G	15581311.00	15581311.17	15581311.36	0.0143	0.0082
Venus	37948-09-13 03:36 G	15581537.46	15581537.65	15581537.87	0.0143	0.0050

Earth	37948-10-28 00:57 G	15581582.32	15581582.54	15581582.79	0.0143	0.0052
Moon	37948-10-28 03:21 G	15581582.40	15581582.64	15581582.90	0.0143	0.0045 *
Venus	37949-04-27 15:07 G	15581763.91	15581764.13	15581764.35	0.0143	0.0018
Moon	37949-11-01 20:38 G	15581952.36	15581952.36	15581952.38	0.0143	0.0142
Earth	37949-11-01 22:48 G	15581952.38	15581952.45	15581952.54	0.0143	0.0135 *
Venus	37949-12-10 02:09 G	15581990.38	15581990.59	15581990.81	0.0143	0.0014
Venus	37950-07-24 13:12 G	15582216.85	15582217.05	15582217.26	0.0142	0.0045
Venus	37951-03-08 00:00 G	15582443.33	15582443.50	15582443.70	0.0142	0.0076
Venus	37951-10-20 10:33 G	15582669.81	15582669.94	15582670.10	0.0142	0.0106
Venus	37952-06-02 21:07 G	15582896.34	15582896.38	15582896.45	0.0142	0.0136
Mercury	37966-09-08 05:02 G	15588106.66	15588106.71	15588106.79	0.0136	0.0127
Mercury	37966-12-05 12:29 G	15588194.90	15588195.02	15588195.16	0.0135	0.0100
Mercury	37967-03-03 19:41 G	15588283.17	15588283.32	15588283.49	0.0135	0.0074
Mercury	37967-05-31 02:53 G	15588371.45	15588371.62	15588371.81	0.0135	0.0047
Mercury	37967-08-27 10:05 G	15588459.74	15588459.92	15588460.11	0.0135	0.0021
Mercury	37967-11-23 17:17 G	15588548.03	15588548.22	15588548.41	0.0135	0.0005
Mercury	37968-02-20 00:14 G	15588636.33	15588636.51	15588636.70	0.0135	0.0031
Mercury	37968-05-18 07:26 G	15588724.64	15588724.81	15588724.98	0.0135	0.0056
Mercury	37968-08-14 14:09 G	15588812.95	15588813.09	15588813.25	0.0135	0.0082
Mercury	37968-11-10 21:07 G	15588901.27	15588901.38	15588901.50	0.0135	0.0107
Mercury	37969-02-07 03:50 G	15588989.64	15588989.66	15588989.71	0.0135	0.0132
Earth	37990-04-18 11:17 G	15596729.83	15596729.97	15596730.13	0.0135	0.0108
Moon	37990-04-18 11:45 G	15596729.87	15596729.99	15596730.15	0.0135	0.0114 *
Venus	37990-10-31 05:02 G	15596925.59	15596925.71	15596925.83	0.0135	0.0111
Moon	37991-04-22 19:55 G	15597099.10	15597099.33	15597099.57	0.0135	0.0034
Earth	37991-04-22 20:53 G	15597099.13	15597099.37	15597099.62	0.0135	0.0038 *
Venus	37991-06-14 11:02 G	15597151.80	15597151.96	15597152.13	0.0135	0.0085
Venus	37992-01-26 17:17 G	15597378.03	15597378.22	15597378.42	0.0135	0.0059
Earth	37992-04-26 06:43 G	15597468.54	15597468.78	15597469.03	0.0135	0.0033
Moon	37992-04-26 07:41 G	15597468.56	15597468.82	15597469.08	0.0135	0.0031 *

Venus	37992-09-08 23:31 G	15597604.27	15597604.48	15597604.70	0.0135	0.0033
Venus	37993-04-23 06:00 G	15597830.53	15597830.75	15597830.96	0.0136	0.0007
Moon	37993-04-30 15:36 G	15597838.00	15597838.15	15597838.33	0.0136	0.0102
Earth	37993-04-30 17:02 G	15597838.06	15597838.21	15597838.39	0.0136	0.0104 *
Venus	37993-12-05 12:14 G	15598056.80	15598057.01	15598057.23	0.0136	0.0020
Venus	37994-07-19 18:43 G	15598283.08	15598283.28	15598283.49	0.0136	0.0047
Venus	37995-03-03 01:26 G	15598509.39	15598509.56	15598509.75	0.0136	0.0074
Venus	37995-10-15 08:24 G	15598735.71	15598735.85	15598736.00	0.0137	0.0101
Venus	37996-05-28 14:53 G	15598962.07	15598962.12	15598962.22	0.0137	0.0128

39TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 39th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	38008-06-30 19:41 G		15603378.14	15603378.32	15603378.50	0.0142	0.0107	
Mercury	38009-11-25 21:36 G		15603891.40	15603891.40	15603891.41	0.0143	0.0142	
Mercury	38010-02-22 00:57 G		15603979.48	15603979.54	15603979.62	0.0143	0.0122	
Mercury	38010-05-21 04:33 G		15604067.60	15604067.69	15604067.79	0.0143	0.0101	
Mercury	38010-08-17 08:09 G		15604155.73	15604155.84	15604155.95	0.0143	0.0080	
Mercury	38010-11-13 11:45 G		15604243.87	15604243.99	15604244.11	0.0143	0.0059	
Mercury	38011-02-09 15:21 G		15604332.01	15604332.14	15604332.27	0.0143	0.0037	
Mercury	38011-05-08 18:57 G		15604420.16	15604420.29	15604420.42	0.0143	0.0016	
Mercury	38011-08-04 22:33 G		15604508.31	15604508.44	15604508.58	0.0143	0.0006	
Mercury	38011-11-01 02:09 G		15604596.46	15604596.59	15604596.72	0.0143	0.0027	

Mercury	38012-01-28 05:45 G	15604684.62	15604684.74	15604684.87	0.0143	0.0049
Mercury	38012-04-25 09:36 G	15604772.78	15604772.90	15604773.02	0.0143	0.0071
Mercury	38012-07-22 13:12 G	15604860.95	15604861.05	15604861.15	0.0144	0.0093
Mercury	38012-10-18 16:48 G	15604949.13	15604949.20	15604949.29	0.0144	0.0115
Mercury	38013-01-14 20:38 G	15605037.33	15605037.36	15605037.40	0.0144	0.0137
Moon	38030-10-19 16:19 G	15611524.04	15611524.18	15611524.36	0.0144	0.0114
Earth	38030-10-19 16:19 G	15611524.04	15611524.18	15611524.35	0.0144	0.0113 *
Venus	38031-02-15 12:43 G	15611642.93	15611643.03	15611643.14	0.0143	0.0124
Venus	38031-09-30 00:14 G	15611869.35	15611869.51	15611869.68	0.0143	0.0092
Moon	38031-10-24 14:24 G	15611893.87	15611894.10	15611894.35	0.0143	0.0031
Earth	38031-10-24 15:36 G	15611893.90	15611894.15	15611894.40	0.0143	0.0028 *
Venus	38032-05-13 11:31 G	15612095.79	15612095.98	15612096.19	0.0143	0.0061
Earth	38032-10-28 13:26 G	15612263.84	15612264.06	15612264.31	0.0143	0.0057
Moon	38032-10-28 14:53 G	15612263.89	15612264.12	15612264.36	0.0143	0.0062 *
Venus	38032-12-25 23:02 G	15612322.25	15612322.46	15612322.68	0.0143	0.0029
Jupiter	38033-04-06 17:17 G	15612423.78	15612424.22	15612424.72	0.0143	0.0068
Venus	38033-08-09 10:19 G	15612548.72	15612548.93	15612549.15	0.0143	0.0004
Moon	38033-11-02 08:53 G	15612633.80	15612633.87	15612633.97	0.0142	0.0133
Earth	38033-11-02 11:02 G	15612633.93	15612633.96	15612634.02	0.0142	0.0140 *
Venus	38034-03-23 21:21 G	15612775.18	15612775.39	15612775.61	0.0142	0.0033
Venus	38034-11-05 08:09 G	15613001.65	15613001.84	15613002.04	0.0142	0.0064
Venus	38035-06-19 18:43 G	15613228.13	15613228.28	15613228.45	0.0142	0.0095
Venus	38036-02-01 05:17 G	15613454.63	15613454.72	15613454.83	0.0142	0.0125
Mars	38048-12-28 20:38 G	15618169.03	15618169.36	15618169.70	0.0136	0.0019
Mercury	38050-09-28 12:43 G	15618807.94	15618808.03	15618808.12	0.0136	0.0119
Mercury	38050-12-25 19:41 G	15618896.19	15618896.32	15618896.47	0.0135	0.0093
Mercury	38051-03-24 02:53 G	15618984.47	15618984.62	15618984.80	0.0135	0.0067
Mercury	38051-06-20 10:05 G	15619072.75	15619072.92	15619073.11	0.0135	0.0041
Mercury	38051-09-16 17:31 G	15619161.04	15619161.23	15619161.42	0.0135	0.0014
Mercury	38051-12-14 00:29 G	15619249.33	15619249.52	15619249.71	0.0135	0.0012

Mercury	38052-03-11 07:26 G	15619337.64	15619337.81	15619338.00	0.0135	0.0038
Mercury	38052-06-07 14:38 G	15619425.94	15619426.11	15619426.28	0.0135	0.0063
Mercury	38052-09-03 21:21 G	15619514.26	15619514.39	15619514.54	0.0135	0.0089
Mercury	38052-12-01 04:19 G	15619602.59	15619602.68	15619602.79	0.0135	0.0114
Moon	38074-04-18 22:48 G	15627411.29	15627411.45	15627411.65	0.0135	0.0097
Earth	38074-04-18 23:17 G	15627411.32	15627411.47	15627411.64	0.0135	0.0104 *
Venus	38074-06-30 15:36 G	15627484.06	15627484.15	15627484.26	0.0135	0.0120
Venus	38075-02-11 21:50 G	15627710.26	15627710.41	15627710.57	0.0135	0.0094
Earth	38075-04-23 08:38 G	15627780.62	15627780.86	15627781.12	0.0135	0.0034
Moon	38075-04-23 08:24 G	15627780.63	15627780.85	15627781.10	0.0135	0.0039 *
Venus	38075-09-26 03:50 G	15627936.48	15627936.66	15627936.86	0.0135	0.0068
Earth	38076-04-26 18:57 G	15628150.04	15628150.29	15628150.53	0.0135	0.0037
Moon	38076-04-26 19:26 G	15628150.06	15628150.31	15628150.57	0.0135	0.0039 *
Venus	38076-05-09 10:05 G	15628162.72	15628162.92	15628163.13	0.0135	0.0042
Venus	38076-12-21 16:33 G	15628388.97	15628389.19	15628389.40	0.0136	0.0016
Moon	38077-05-01 04:48 G	15628519.57	15628519.70	15628519.86	0.0136	0.0109
Earth	38077-05-01 05:17 G	15628519.58	15628519.72	15628519.88	0.0136	0.0108 *
Venus	38077-08-04 22:48 G	15628615.24	15628615.45	15628615.67	0.0136	0.0011
Venus	38078-03-19 05:17 G	15628841.52	15628841.72	15628841.94	0.0136	0.0038
Venus	38078-10-31 12:00 G	15629067.81	15629068.00	15629068.19	0.0136	0.0065
Venus	38079-06-14 18:29 G	15629294.12	15629294.27	15629294.44	0.0136	0.0092
Venus	38080-01-27 01:41 G	15629520.46	15629520.57	15629520.67	0.0137	0.0118
Mars	38093-02-23 13:41 G	15634296.80	15634297.07	15634297.35	0.0142	0.0031
Mercury	38093-12-16 05:17 G	15634592.68	15634592.72	15634592.76	0.0143	0.0135
Mercury	38094-03-14 08:38 G	15634680.79	15634680.86	15634680.95	0.0143	0.0115
Mercury	38094-06-10 12:14 G	15634768.92	15634769.01	15634769.11	0.0143	0.0094
Mercury	38094-09-06 15:50 G	15634857.05	15634857.16	15634857.28	0.0143	0.0073
Mercury	38094-12-03 19:26 G	15634945.19	15634945.31	15634945.43	0.0143	0.0051
Mercury	38095-03-01 23:02 G	15635033.33	15635033.46	15635033.59	0.0143	0.0030
Mercury	38095-05-29 02:38 G	15635121.48	15635121.61	15635121.74	0.0143	0.0009

Mercury	38095-08-25 06:14 G	15635209.63	15635209.76	15635209.89	0.0143	0.0013
Mercury	38095-11-21 09:50 G	15635297.78	15635297.91	15635298.04	0.0143	0.0035
Mercury	38096-02-17 13:26 G	15635385.94	15635386.06	15635386.19	0.0143	0.0056
Mercury	38096-05-15 17:02 G	15635474.11	15635474.21	15635474.33	0.0143	0.0078
Mercury	38096-08-11 20:38 G	15635562.28	15635562.36	15635562.47	0.0144	0.0101
Mercury	38096-11-08 00:29 G	15635650.46	15635650.52	15635650.60	0.0144	0.0122
Venus	38114-10-16 21:07 G	15642201.32	15642201.38	15642201.47	0.0144	0.0135
Moon	38114-10-21 05:31 G	15642205.57	15642205.73	15642205.93	0.0144	0.0104
Earth	38114-10-21 06:00 G	15642205.60	15642205.75	15642205.93	0.0144	0.0107 *
Venus	38115-05-31 08:38 G	15642427.73	15642427.86	15642428.03	0.0143	0.0104
Earth	38115-10-26 05:17 G	15642575.47	15642575.72	15642575.97	0.0143	0.0022
Moon	38115-10-26 05:02 G	15642575.48	15642575.71	15642575.96	0.0143	0.0021 *
Venus	38116-01-12 20:24 G	15642654.17	15642654.35	15642654.54	0.0143	0.0072
Venus	38116-08-26 07:55 G	15642880.62	15642880.83	15642881.04	0.0143	0.0040
Earth	38116-10-30 03:07 G	15642945.42	15642945.63	15642945.88	0.0143	0.0063
Moon	38116-10-30 04:33 G	15642945.45	15642945.69	15642945.94	0.0143	0.0056 *
Venus	38117-04-09 19:12 G	15643107.08	15643107.30	15643107.52	0.0143	0.0009
Venus	38117-11-22 06:14 G	15643333.55	15643333.76	15643333.98	0.0142	0.0023
Venus	38118-07-06 17:17 G	15643560.02	15643560.22	15643560.42	0.0142	0.0054
Venus	38119-02-18 03:50 G	15643786.49	15643786.66	15643786.84	0.0142	0.0084
Venus	38119-10-02 14:24 G	15644012.99	15644013.10	15644013.24	0.0142	0.0115
Mars	38133-08-25 21:21 G	15649089.32	15649089.39	15649089.47	0.0136	0.0132
Mercury	38134-10-19 20:09 G	15649509.24	15649509.34	15649509.46	0.0135	0.0110
Mercury	38135-01-16 03:36 G	15649597.50	15649597.65	15649597.80	0.0135	0.0084
Mercury	38135-04-14 10:48 G	15649685.78	15649685.95	15649686.13	0.0135	0.0057
Mercury	38135-07-11 18:00 G	15649774.07	15649774.25	15649774.44	0.0135	0.0031
Mercury	38135-10-08 01:12 G	15649862.36	15649862.55	15649862.74	0.0135	0.0005
Mercury	38136-01-04 08:09 G	15649950.66	15649950.84	15649951.03	0.0135	0.0021
Mercury	38136-04-01 15:07 G	15650038.96	15650039.13	15650039.31	0.0135	0.0046
Mercury	38136-06-28 22:05 G	15650127.27	15650127.42	15650127.59	0.0135	0.0072

Mercury	38136-09-25 05:02 G	15650215.59	15650215.71	15650215.85	0.0135	0.0097
Mercury	38136-12-22 12:00 G	15650303.93	15650304.00	15650304.08	0.0135	0.0122
Venus	38158-03-01 01:55 G	15658042.53	15658042.58	15658042.65	0.0135	0.0129
Moon	38158-04-20 09:36 G	15658092.76	15658092.90	15658093.08	0.0135	0.0106
Earth	38158-04-20 10:19 G	15658092.77	15658092.93	15658093.11	0.0135	0.0100 *
Venus	38158-10-13 08:09 G	15658268.70	15658268.84	15658268.98	0.0135	0.0103
Earth	38159-04-24 19:55 G	15658462.09	15658462.33	15658462.58	0.0135	0.0030
Moon	38159-04-24 20:24 G	15658462.11	15658462.35	15658462.60	0.0135	0.0025 *
Venus	38159-05-27 14:09 G	15658494.91	15658495.09	15658495.27	0.0135	0.0077
Venus	38160-01-08 20:09 G	15658721.14	15658721.34	15658721.54	0.0135	0.0051
Moon	38160-04-28 05:17 G	15658831.47	15658831.72	15658831.98	0.0135	0.0037
Earth	38160-04-28 05:45 G	15658831.50	15658831.74	15658831.99	0.0135	0.0041 *
Venus	38160-08-22 02:24 G	15658947.39	15658947.60	15658947.81	0.0135	0.0025
Venus	38161-04-05 08:38 G	15659173.65	15659173.86	15659174.08	0.0136	0.0003
Moon	38161-05-02 15:36 G	15659201.03	15659201.15	15659201.31	0.0136	0.0112
Earth	38161-05-02 16:05 G	15659201.04	15659201.17	15659201.32	0.0136	0.0112 *
Venus	38161-11-17 14:53 G	15659399.92	15659400.12	15659400.34	0.0136	0.0028
Venus	38162-07-01 21:36 G	15659626.20	15659626.40	15659626.60	0.0136	0.0055
Venus	38163-02-13 04:05 G	15659852.51	15659852.67	15659852.85	0.0136	0.0081
Venus	38163-09-27 11:02 G	15660078.83	15660078.96	15660079.09	0.0137	0.0108
Venus	38164-05-10 17:31 G	15660305.21	15660305.23	15660305.28	0.0137	0.0135
Mercury	38178-01-06 12:29 G	15665293.97	15665294.02	15665294.08	0.0143	0.0130
Mercury	38178-04-04 15:50 G	15665382.09	15665382.16	15665382.26	0.0143	0.0110
Mercury	38178-07-01 19:26 G	15665470.22	15665470.31	15665470.42	0.0143	0.0089
Mercury	38178-09-27 23:02 G	15665558.35	15665558.46	15665558.58	0.0143	0.0068
Mercury	38178-12-25 02:53 G	15665646.49	15665646.62	15665646.74	0.0143	0.0046
Mercury	38179-03-23 06:14 G	15665734.63	15665734.76	15665734.90	0.0143	0.0025
Mercury	38179-06-19 09:50 G	15665822.78	15665822.91	15665823.05	0.0143	0.0005
Mercury	38179-09-15 13:26 G	15665910.93	15665911.06	15665911.20	0.0143	0.0019
Mercury	38179-12-12 17:02 G	15665999.09	15665999.21	15665999.34	0.0143	0.0040

Mercury	38180-03-09 20:53 G	15666087.25	15666087.37	15666087.49	0.0143	0.0062
Mercury	38180-06-06 00:29 G	15666175.41	15666175.52	15666175.63	0.0143	0.0084
Mercury	38180-09-02 04:05 G	15666263.59	15666263.67	15666263.77	0.0144	0.0106
Mercury	38180-11-29 07:55 G	15666351.77	15666351.83	15666351.89	0.0144	0.0128
Moon	38198-10-21 15:07 G	15672886.97	15672887.13	15672887.33	0.0144	0.0106
Earth	38198-10-21 16:33 G	15672887.02	15672887.19	15672887.37	0.0144	0.0103 *
Venus	38199-01-28 15:21 G	15672986.02	15672986.14	15672986.28	0.0143	0.0116
Venus	38199-09-12 02:53 G	15673212.46	15673212.62	15673212.81	0.0143	0.0085
Earth	38199-10-26 15:36 G	15673256.90	15673257.15	15673257.41	0.0143	0.0018
Moon	38199-10-26 15:50 G	15673256.92	15673257.16	15673257.41	0.0143	0.0020 *
Venus	38200-04-26 14:38 G	15673438.91	15673439.11	15673439.32	0.0143	0.0052
Moon	38200-10-31 13:26 G	15673626.85	15673627.06	15673627.31	0.0143	0.0071
Earth	38200-10-31 13:55 G	15673626.86	15673627.08	15673627.31	0.0143	0.0066 *
Venus	38200-12-09 01:55 G	15673665.37	15673665.58	15673665.80	0.0143	0.0021
Venus	38201-07-23 13:12 G	15673891.83	15673892.05	15673892.27	0.0143	0.0010
Moon	38201-11-05 10:19 G	15673996.93	15673996.93	15673996.95	0.0143	0.0142
Venus	38202-03-07 00:14 G	15674118.30	15674118.51	15674118.72	0.0142	0.0041
Venus	38202-10-19 11:02 G	15674344.78	15674344.96	15674345.15	0.0142	0.0072
Venus	38203-06-02 21:21 G	15674571.26	15674571.39	15674571.56	0.0142	0.0103
Venus	38204-01-15 07:55 G	15674797.77	15674797.83	15674797.92	0.0142	0.0133
Mars	38216-05-17 14:24 G	15679303.94	15679304.10	15679304.29	0.0136	0.0117
Mercury	38218-08-13 19:55 G	15680122.29	15680122.33	15680122.39	0.0136	0.0131
Mercury	38218-11-10 03:21 G	15680210.52	15680210.64	15680210.77	0.0135	0.0104
Mercury	38219-02-06 10:33 G	15680298.79	15680298.94	15680299.10	0.0135	0.0078
Mercury	38219-05-05 17:45 G	15680387.07	15680387.24	15680387.42	0.0135	0.0051
Mercury	38219-08-02 00:57 G	15680475.36	15680475.54	15680475.73	0.0135	0.0025
Mercury	38219-10-29 08:09 G	15680563.65	15680563.84	15680564.03	0.0135	0.0002
Mercury	38220-01-25 15:07 G	15680651.95	15680652.13	15680652.32	0.0135	0.0027
Mercury	38220-04-22 22:05 G	15680740.26	15680740.42	15680740.60	0.0135	0.0053
Mercury	38220-07-20 05:02 G	15680828.57	15680828.71	15680828.87	0.0135	0.0078

Mercury	38220-10-16 12:14 G	15680916.89	15680917.01	15680917.13	0.0135	0.0103
Mercury	38221-01-12 18:43 G	15681005.24	15681005.28	15681005.35	0.0135	0.0129
Moon	38242-04-21 18:43 G	15688774.09	15688774.28	15688774.48	0.0135	0.0089
Earth	38242-04-21 20:09 G	15688774.18	15688774.34	15688774.53	0.0135	0.0097 *
Venus	38242-06-13 17:17 G	15688827.11	15688827.22	15688827.34	0.0135	0.0113
Venus	38243-01-25 23:31 G	15689053.31	15689053.48	15689053.64	0.0135	0.0087
Earth	38243-04-26 05:31 G	15689143.48	15689143.73	15689143.98	0.0135	0.0027
Moon	38243-04-26 06:43 G	15689143.55	15689143.78	15689144.02	0.0135	0.0033 *
Venus	38243-09-09 05:31 G	15689279.54	15689279.73	15689279.92	0.0135	0.0061
Venus	38244-04-22 11:31 G	15689505.77	15689505.98	15689506.19	0.0135	0.0035
Moon	38244-04-29 14:09 G	15689512.86	15689513.09	15689513.35	0.0135	0.0048
Earth	38244-04-29 15:21 G	15689512.90	15689513.14	15689513.38	0.0135	0.0044 *
Venus	38244-12-04 17:31 G	15689732.02	15689732.23	15689732.45	0.0135	0.0010
Earth	38245-05-04 01:12 G	15689882.43	15689882.55	15689882.70	0.0136	0.0115
Moon	38245-05-04 02:24 G	15689882.48	15689882.60	15689882.74	0.0136	0.0114 *
Venus	38245-07-18 23:45 G	15689958.28	15689958.49	15689958.71	0.0136	0.0018
Venus	38246-03-02 06:14 G	15690184.56	15690184.76	15690184.97	0.0136	0.0044
Venus	38246-10-14 12:43 G	15690410.85	15690411.03	15690411.22	0.0136	0.0071
Venus	38247-05-28 19:12 G	15690637.16	15690637.30	15690637.46	0.0136	0.0097
Venus	38248-01-10 01:55 G	15690863.50	15690863.58	15690863.68	0.0137	0.0124
Mars	38260-07-15 05:02 G	15695433.47	15695433.71	15695433.96	0.0142	0.0069
Mercury	38262-01-27 19:12 G	15695995.25	15695995.30	15695995.37	0.0143	0.0128
Mercury	38262-04-25 22:48 G	15696083.37	15696083.45	15696083.54	0.0143	0.0107
Mercury	38262-07-23 02:24 G	15696171.50	15696171.60	15696171.71	0.0143	0.0086
Mercury	38262-10-19 05:45 G	15696259.63	15696259.74	15696259.87	0.0143	0.0065
Mercury	38263-01-15 09:36 G	15696347.77	15696347.90	15696348.02	0.0143	0.0043
Mercury	38263-04-13 13:12 G	15696435.92	15696436.05	15696436.18	0.0143	0.0022
Mercury	38263-07-10 16:48 G	15696524.06	15696524.20	15696524.33	0.0143	0.0003
Mercury	38263-10-06 20:24 G	15696612.22	15696612.35	15696612.48	0.0143	0.0021
Mercury	38264-01-03 00:00 G	15696700.37	15696700.50	15696700.63	0.0143	0.0043

Mercury	38264-03-31 03:36 G	15696788.53	15696788.65	15696788.77	0.0143	0.0065
Mercury	38264-06-27 07:12 G	15696876.70	15696876.80	15696876.91	0.0143	0.0087
Mercury	38264-09-23 11:02 G	15696964.87	15696964.96	15696965.05	0.0143	0.0109
Mercury	38264-12-20 14:38 G	15697053.06	15697053.11	15697053.17	0.0144	0.0131
Venus	38282-09-28 19:55 G	15703544.25	15703544.33	15703544.44	0.0144	0.0130
Moon	38282-10-22 21:36 G	15703568.23	15703568.40	15703568.62	0.0144	0.0098
Earth	38282-10-22 23:45 G	15703568.33	15703568.49	15703568.68	0.0144	0.0102 *
Venus	38283-05-13 07:55 G	15703770.67	15703770.83	15703770.99	0.0143	0.0098
Earth	38283-10-27 23:02 G	15703938.21	15703938.46	15703938.72	0.0143	0.0017
Moon	38283-10-28 00:29 G	15703938.28	15703938.52	15703938.77	0.0143	0.0017 *
Venus	38283-12-25 19:26 G	15703997.12	15703997.31	15703997.51	0.0143	0.0066
Venus	38284-08-08 06:57 G	15704223.58	15704223.79	15704224.01	0.0143	0.0035
Moon	38284-10-31 20:53 G	15704308.14	15704308.37	15704308.61	0.0143	0.0063
Earth	38284-10-31 21:21 G	15704308.17	15704308.39	15704308.62	0.0143	0.0068 *
Venus	38285-03-22 18:14 G	15704450.04	15704450.26	15704450.48	0.0143	0.0004
Venus	38285-11-04 05:17 G	15704676.51	15704676.72	15704676.94	0.0143	0.0028
Venus	38286-06-18 16:19 G	15704902.98	15704903.18	15704903.38	0.0142	0.0059
Venus	38287-01-31 02:53 G	15705129.46	15705129.62	15705129.80	0.0142	0.0089
Venus	38287-09-14 13:55 G	15705355.96	15705356.08	15705356.19	0.0142	0.0119
Mars	38301-01-12 09:07 G	15710223.56	15710223.88	15710224.22	0.0136	0.0031
Mercury	38302-09-04 02:53 G	15710823.56	15710823.62	15710823.70	0.0136	0.0125
Mercury	38302-12-01 10:05 G	15710911.80	15710911.92	15710912.06	0.0136	0.0098
Mercury	38303-02-27 17:31 G	15711000.07	15711000.23	15711000.40	0.0135	0.0072
Mercury	38303-05-27 00:43 G	15711088.35	15711088.53	15711088.71	0.0135	0.0045
Mercury	38303-08-23 07:55 G	15711176.64	15711176.83	15711177.02	0.0135	0.0019
Mercury	38303-11-19 15:07 G	15711264.94	15711265.13	15711265.32	0.0135	0.0007
Mercury	38304-02-15 22:05 G	15711353.24	15711353.42	15711353.61	0.0135	0.0033
Mercury	38304-05-14 05:17 G	15711441.55	15711441.72	15711441.89	0.0135	0.0059
Mercury	38304-08-10 12:00 G	15711529.86	15711530.00	15711530.16	0.0135	0.0084
Mercury	38304-11-06 19:12 G	15711618.19	15711618.30	15711618.41	0.0135	0.0109

Mercury	38305-02-03 01:55 G	15711706.58	15711706.58	15711706.60	0.0135	0.0134
Venus	38326-02-12 02:53 G	15719385.55	15719385.62	15719385.73	0.0135	0.0123
Moon	38326-04-23 04:05 G	15719455.51	15719455.67	15719455.86	0.0135	0.0100
Earth	38326-04-23 06:29 G	15719455.59	15719455.77	15719455.96	0.0135	0.0093 *
Venus	38326-09-26 08:53 G	15719611.73	15719611.87	15719612.03	0.0135	0.0097
Earth	38327-04-27 15:21 G	15719824.90	15719825.14	15719825.40	0.0135	0.0024
Moon	38327-04-27 17:31 G	15719824.98	15719825.23	15719825.47	0.0135	0.0017 *
Venus	38327-05-10 14:53 G	15719837.94	15719838.12	15719838.31	0.0135	0.0071
Venus	38327-12-22 20:53 G	15720064.17	15720064.37	15720064.58	0.0135	0.0045
Moon	38328-04-30 23:02 G	15720194.22	15720194.46	15720194.72	0.0135	0.0043
Earth	38328-05-01 01:12 G	15720194.32	15720194.55	15720194.79	0.0135	0.0047 *
Venus	38328-08-05 02:53 G	15720290.41	15720290.62	15720290.84	0.0135	0.0020
Venus	38329-03-19 09:21 G	15720516.67	15720516.89	15720517.10	0.0136	0.0007
Earth	38329-05-05 10:48 G	15720563.85	15720563.95	15720564.10	0.0136	0.0119
Moon	38329-05-05 12:00 G	15720563.91	15720564.00	15720564.14	0.0136	0.0120 *
Venus	38329-10-31 15:22 G	15720742.94	15720743.14	15720743.36	0.0136	0.0034
Venus	38330-06-14 21:36 G	15720969.22	15720969.40	15720969.61	0.0136	0.0060
Venus	38331-01-27 04:19 G	15721195.52	15721195.68	15721195.85	0.0136	0.0087
Venus	38331-09-10 10:48 G	15721421.85	15721421.95	15721422.09	0.0136	0.0113
Mars	38345-03-10 17:02 G	15726351.97	15726352.21	15726352.48	0.0142	0.0063
Mercury	38346-02-18 02:10 G	15726696.53	15726696.59	15726696.66	0.0143	0.0124
Mercury	38346-05-17 05:46 G	15726784.65	15726784.74	15726784.83	0.0143	0.0103
Mercury	38346-08-13 09:22 G	15726872.78	15726872.89	15726873.00	0.0143	0.0082
Mercury	38346-11-09 12:58 G	15726960.92	15726961.04	15726961.16	0.0143	0.0061
Mercury	38347-02-05 16:19 G	15727049.06	15727049.18	15727049.31	0.0143	0.0040
Mercury	38347-05-04 19:55 G	15727137.20	15727137.33	15727137.47	0.0143	0.0019
Mercury	38347-07-31 23:31 G	15727225.35	15727225.48	15727225.62	0.0143	0.0005
Mercury	38347-10-28 03:07 G	15727313.50	15727313.63	15727313.77	0.0143	0.0025
Mercury	38348-01-24 06:43 G	15727401.66	15727401.78	15727401.91	0.0143	0.0047
Mercury	38348-04-21 10:19 G	15727489.82	15727489.93	15727490.06	0.0143	0.0069

Mercury	38348-07-18 13:55 G	15727577.99	15727578.08	15727578.20	0.0143	0.0091
Mercury	38348-10-14 17:46 G	15727666.16	15727666.24	15727666.33	0.0143	0.0112
Mercury	38349-01-10 21:22 G	15727754.36	15727754.39	15727754.45	0.0143	0.0135
Venus	38366-05-30 00:00 G	15734102.50	15734102.50	15734102.50	0.0144	0.0144
Moon	38366-10-24 02:53 G	15734249.46	15734249.62	15734249.81	0.0144	0.0107
Earth	38366-10-24 05:31 G	15734249.57	15734249.73	15734249.93	0.0144	0.0102 *
Venus	38367-01-11 11:17 G	15734328.85	15734328.97	15734329.12	0.0143	0.0113
Venus	38367-08-25 23:17 G	15734555.29	15734555.47	15734555.65	0.0143	0.0081
Earth	38367-10-29 04:48 G	15734619.45	15734619.70	15734619.95	0.0143	0.0016
Moon	38367-10-29 06:29 G	15734619.53	15734619.77	15734620.02	0.0143	0.0017 *
Venus	38368-04-08 10:48 G	15734781.74	15734781.95	15734782.15	0.0143	0.0049
Moon	38368-11-02 01:12 G	15734989.32	15734989.55	15734989.78	0.0143	0.0070
Earth	38368-11-02 02:53 G	15734989.41	15734989.62	15734989.85	0.0143	0.0068 *
Venus	38368-11-20 22:05 G	15735008.20	15735008.42	15735008.63	0.0143	0.0018
Venus	38369-07-05 09:07 G	15735234.66	15735234.88	15735235.10	0.0143	0.0013
Venus	38370-02-16 19:55 G	15735461.13	15735461.33	15735461.55	0.0142	0.0045
Venus	38370-10-01 06:43 G	15735687.61	15735687.78	15735687.98	0.0142	0.0076
Venus	38371-05-15 17:31 G	15735914.10	15735914.23	15735914.39	0.0142	0.0105
Venus	38371-12-28 04:05 G	15736140.62	15736140.67	15736140.74	0.0142	0.0135
Mercury	38386-09-24 08:53 G	15741524.79	15741524.87	15741524.96	0.0136	0.0122
Mercury	38386-12-21 16:05 G	15741613.04	15741613.17	15741613.32	0.0136	0.0096
Mercury	38387-03-19 23:31 G	15741701.32	15741701.48	15741701.65	0.0136	0.0069
Mercury	38387-06-16 06:43 G	15741789.60	15741789.78	15741789.97	0.0135	0.0042
Mercury	38387-09-12 13:55 G	15741877.89	15741878.08	15741878.27	0.0135	0.0016
Mercury	38387-12-09 21:07 G	15741966.19	15741966.38	15741966.57	0.0135	0.0010
Mercury	38388-03-07 04:05 G	15742054.49	15742054.67	15742054.86	0.0135	0.0036
Mercury	38388-06-03 11:02 G	15742142.80	15742142.96	15742143.14	0.0135	0.0062
Mercury	38388-08-30 18:14 G	15742231.12	15742231.26	15742231.41	0.0135	0.0087
Mercury	38388-11-27 00:58 G	15742319.45	15742319.54	15742319.66	0.0135	0.0113
Venus	38409-10-12 12:29 G	15749943.99	15749944.02	15749944.07	0.0135	0.0132

Moon	38410-04-23 13:26 G	15750136.87	15750137.06	15750137.28	0.0135	0.0083
Earth	38410-04-23 16:19 G	15750137.00	15750137.18	15750137.38	0.0135	0.0090 *
Venus	38410-05-26 18:14 G	15750170.14	15750170.26	15750170.41	0.0135	0.0107
Venus	38411-01-08 00:14 G	15750396.35	15750396.51	15750396.69	0.0135	0.0081
Earth	38411-04-28 01:41 G	15750506.32	15750506.57	15750506.82	0.0135	0.0020
Moon	38411-04-28 03:50 G	15750506.43	15750506.66	15750506.92	0.0135	0.0027 *
Venus	38411-08-22 06:29 G	15750622.57	15750622.77	15750622.97	0.0135	0.0055
Venus	38412-04-04 12:29 G	15750848.81	15750849.02	15750849.23	0.0135	0.0029
Moon	38412-05-01 08:53 G	15750875.64	15750875.87	15750876.12	0.0135	0.0056
Earth	38412-05-01 11:17 G	15750875.74	15750875.97	15750876.21	0.0135	0.0051 *
Venus	38412-11-16 18:29 G	15751075.06	15751075.27	15751075.49	0.0135	0.0005
Earth	38413-05-05 21:07 G	15751245.28	15751245.38	15751245.50	0.0136	0.0122
Moon	38413-05-05 23:46 G	15751245.38	15751245.49	15751245.61	0.0136	0.0119 *
Venus	38413-07-01 00:43 G	15751301.32	15751301.53	15751301.75	0.0136	0.0023
Venus	38414-02-12 07:12 G	15751527.60	15751527.80	15751528.01	0.0136	0.0050
Venus	38414-09-26 13:41 G	15751753.90	15751754.07	15751754.26	0.0136	0.0076
Venus	38415-05-10 20:24 G	15751980.21	15751980.35	15751980.49	0.0136	0.0103
Venus	38415-12-23 02:38 G	15752206.56	15752206.61	15752206.70	0.0136	0.0130
Mercury	38429-12-12 06:00 G	15757309.73	15757309.75	15757309.78	0.0142	0.0139
Mercury	38430-03-10 09:36 G	15757397.83	15757397.90	15757397.97	0.0142	0.0119
Mercury	38430-06-06 12:43 G	15757485.95	15757486.03	15757486.14	0.0143	0.0099
Mercury	38430-09-02 16:34 G	15757574.08	15757574.19	15757574.30	0.0143	0.0077
Mercury	38430-11-29 20:10 G	15757662.22	15757662.34	15757662.46	0.0143	0.0056
Mercury	38431-02-25 23:46 G	15757750.36	15757750.49	15757750.61	0.0143	0.0035
Mercury	38431-05-25 03:07 G	15757838.50	15757838.63	15757838.77	0.0143	0.0014
Mercury	38431-08-21 06:43 G	15757926.65	15757926.78	15757926.92	0.0143	0.0009
Mercury	38431-11-17 10:19 G	15758014.81	15758014.93	15758015.07	0.0143	0.0030
Mercury	38432-02-13 14:10 G	15758102.96	15758103.09	15758103.21	0.0143	0.0051
Mercury	38432-05-11 17:46 G	15758191.13	15758191.24	15758191.35	0.0143	0.0073
Mercury	38432-08-07 21:22 G	15758279.29	15758279.39	15758279.49	0.0143	0.0095

Mercury	38432-11-04 00:58 G	15758367.47	15758367.54	15758367.62	0.0143	0.0117
Mercury	38433-01-31 04:34 G	15758455.67	15758455.69	15758455.73	0.0143	0.0140
Venus	38450-09-10 16:05 G	15764887.08	15764887.17	15764887.29	0.0144	0.0126
Moon	38450-10-24 09:50 G	15764930.73	15764930.91	15764931.12	0.0144	0.0095
Earth	38450-10-24 12:58 G	15764930.88	15764931.04	15764931.24	0.0144	0.0100 *
Venus	38451-04-25 03:50 G	15765113.50	15765113.66	15765113.83	0.0143	0.0094
Earth	38451-10-29 12:00 G	15765300.75	15765301.00	15765301.26	0.0143	0.0016
Moon	38451-10-29 14:53 G	15765300.88	15765301.12	15765301.37	0.0143	0.0017 *
Venus	38451-12-07 15:07 G	15765339.95	15765340.13	15765340.34	0.0143	0.0064
Venus	38452-07-21 02:53 G	15765566.41	15765566.62	15765566.83	0.0143	0.0031
Moon	38452-11-02 08:10 G	15765670.62	15765670.84	15765671.08	0.0143	0.0066
Earth	38452-11-02 10:19 G	15765670.71	15765670.93	15765671.16	0.0143	0.0069 *
Venus	38453-03-04 14:10 G	15765792.87	15765793.09	15765793.31	0.0143	0.0001
Venus	38453-10-17 01:12 G	15766019.34	15766019.55	15766019.76	0.0143	0.0031
Venus	38454-05-31 12:00 G	15766245.81	15766246.00	15766246.20	0.0142	0.0062
Venus	38455-01-12 22:34 G	15766472.29	15766472.44	15766472.62	0.0142	0.0092
Venus	38455-08-27 09:22 G	15766698.79	15766698.89	15766699.01	0.0142	0.0122
Mars	38468-05-29 06:29 G	15771357.52	15771357.77	15771358.05	0.0137	0.0086
Mercury	38470-10-14 15:07 G	15772226.05	15772226.13	15772226.23	0.0136	0.0118
Mercury	38471-01-10 22:19 G	15772314.30	15772314.43	15772314.59	0.0136	0.0092
Mercury	38471-04-09 05:46 G	15772402.58	15772402.74	15772402.92	0.0136	0.0065
Mercury	38471-07-06 12:58 G	15772490.87	15772491.04	15772491.23	0.0135	0.0039
Mercury	38471-10-02 20:24 G	15772579.16	15772579.35	15772579.54	0.0135	0.0012
Mercury	38471-12-30 03:36 G	15772667.46	15772667.65	15772667.84	0.0135	0.0014
Mercury	38472-03-27 10:34 G	15772755.76	15772755.94	15772756.13	0.0135	0.0041
Mercury	38472-06-23 17:31 G	15772844.08	15772844.23	15772844.41	0.0135	0.0067
Mercury	38472-09-20 00:29 G	15772932.40	15772932.52	15772932.67	0.0135	0.0092
Mercury	38472-12-17 07:41 G	15773020.73	15773020.82	15773020.92	0.0135	0.0117
Venus	38494-01-24 04:05 G	15780728.58	15780728.67	15780728.79	0.0135	0.0116
Moon	38494-04-23 23:31 G	15780818.31	15780818.48	15780818.68	0.0135	0.0093

Earth	38494-04-24 02:24 G	15780818.43	15780818.60	15780818.81	0.0135	0.0087	*
Venus	38494-09-07 10:19 G	15780954.77	15780954.93	15780955.09	0.0135	0.0090	
Venus	38495-04-21 15:50 G	15781180.98	15781181.16	15781181.36	0.0135	0.0065	
Earth	38495-04-28 12:00 G	15781187.75	15781188.00	15781188.26	0.0135	0.0017	
Moon	38495-04-28 14:53 G	15781187.88	15781188.12	15781188.37	0.0135	0.0010	*
Venus	38495-12-03 22:05 G	15781407.22	15781407.42	15781407.63	0.0135	0.0039	
Moon	38496-05-01 18:43 G	15781557.04	15781557.28	15781557.53	0.0135	0.0048	
Earth	38496-05-01 21:36 G	15781557.18	15781557.40	15781557.64	0.0135	0.0054	*
Venus	38496-07-17 04:19 G	15781633.46	15781633.68	15781633.89	0.0135	0.0013	
Venus	38497-02-28 10:34 G	15781859.73	15781859.94	15781860.16	0.0136	0.0014	
Earth	38497-05-06 07:41 G	15781926.73	15781926.82	15781926.92	0.0136	0.0125	
Moon	38497-05-06 09:50 G	15781926.85	15781926.91	15781927.01	0.0136	0.0128	*
Venus	38497-10-12 16:48 G	15782086.00	15782086.20	15782086.42	0.0136	0.0040	
Venus	38498-05-26 23:17 G	15782312.29	15782312.47	15782312.67	0.0136	0.0066	
Venus	38499-01-08 05:46 G	15782538.59	15782538.74	15782538.91	0.0136	0.0093	
Venus	38499-08-22 12:29 G	15782764.93	15782765.02	15782765.14	0.0136	0.0120	
Mars	38512-07-29 14:24 G	15787488.83	15787489.10	15787489.38	0.0142	0.0031	
Mercury	38514-01-02 13:41 G	15788011.02	15788011.07	15788011.11	0.0142	0.0133	
Mercury	38514-03-31 17:02 G	15788099.14	15788099.21	15788099.29	0.0142	0.0112	
Mercury	38514-06-27 20:24 G	15788187.26	15788187.35	15788187.46	0.0143	0.0092	
Mercury	38514-09-24 00:00 G	15788275.39	15788275.50	15788275.62	0.0143	0.0071	
Mercury	38514-12-21 03:36 G	15788363.53	15788363.65	15788363.78	0.0143	0.0049	
Mercury	38515-03-19 07:12 G	15788451.67	15788451.80	15788451.93	0.0143	0.0028	
Mercury	38515-06-15 10:48 G	15788539.82	15788539.95	15788540.08	0.0143	0.0007	
Mercury	38515-09-11 14:24 G	15788627.97	15788628.10	15788628.23	0.0143	0.0015	
Mercury	38515-12-08 18:00 G	15788716.12	15788716.25	15788716.38	0.0143	0.0037	
Mercury	38516-03-05 21:36 G	15788804.28	15788804.40	15788804.53	0.0143	0.0058	
Mercury	38516-06-02 01:12 G	15788892.45	15788892.55	15788892.67	0.0143	0.0080	
Mercury	38516-08-29 04:48 G	15788980.62	15788980.70	15788980.80	0.0143	0.0103	
Mercury	38516-11-25 08:38 G	15789068.80	15789068.86	15789068.93	0.0143	0.0124	

Venus	38534-05-11 22:34 G	15795445.39	15795445.44	15795445.50	0.0144	0.0138
Moon	38534-10-25 19:26 G	15795612.15	15795612.31	15795612.51	0.0143	0.0104
Earth	38534-10-25 23:02 G	15795612.28	15795612.46	15795612.66	0.0143	0.0097 *
Venus	38534-12-24 10:05 G	15795671.78	15795671.92	15795672.07	0.0143	0.0107
Venus	38535-08-07 21:36 G	15795898.22	15795898.40	15795898.60	0.0143	0.0076
Earth	38535-10-30 21:36 G	15795982.15	15795982.40	15795982.66	0.0143	0.0013
Moon	38535-10-31 00:43 G	15795982.28	15795982.53	15795982.78	0.0143	0.0010 *
Venus	38536-03-21 09:07 G	15796124.67	15796124.88	15796125.09	0.0143	0.0044
Venus	38536-11-02 20:24 G	15796351.13	15796351.35	15796351.56	0.0143	0.0013
Moon	38536-11-03 16:34 G	15796351.98	15796352.19	15796352.42	0.0143	0.0073
Earth	38536-11-03 19:41 G	15796352.11	15796352.32	15796352.55	0.0143	0.0072 *
Venus	38537-06-17 07:12 G	15796577.59	15796577.80	15796578.02	0.0143	0.0019
Venus	38538-01-29 18:14 G	15796804.06	15796804.26	15796804.47	0.0142	0.0049
Venus	38538-09-13 05:02 G	15797030.54	15797030.71	15797030.90	0.0142	0.0080
Venus	38539-04-27 15:22 G	15797257.03	15797257.14	15797257.30	0.0142	0.0110
Venus	38539-12-10 02:24 G	15797483.56	15797483.60	15797483.64	0.0142	0.0139
Mars	38553-01-23 22:34 G	15802277.14	15802277.44	15802277.75	0.0136	0.0060
Mercury	38554-11-04 21:22 G	15802927.30	15802927.39	15802927.51	0.0136	0.0114
Mercury	38555-02-01 05:02 G	15803015.57	15803015.71	15803015.86	0.0136	0.0087
Mercury	38555-04-30 12:14 G	15803103.84	15803104.01	15803104.19	0.0135	0.0060
Mercury	38555-07-27 19:41 G	15803192.13	15803192.32	15803192.50	0.0135	0.0034
Mercury	38555-10-24 02:53 G	15803280.43	15803280.62	15803280.81	0.0135	0.0007
Mercury	38556-01-20 09:50 G	15803368.73	15803368.91	15803369.11	0.0135	0.0020
Mercury	38556-04-17 17:02 G	15803457.04	15803457.21	15803457.39	0.0135	0.0045
Mercury	38556-07-15 00:00 G	15803545.35	15803545.50	15803545.67	0.0135	0.0071
Mercury	38556-10-11 07:12 G	15803633.67	15803633.80	15803633.93	0.0135	0.0096
Mercury	38557-01-07 13:55 G	15803722.02	15803722.08	15803722.17	0.0135	0.0122
Venus	38577-09-24 13:26 G	15811287.00	15811287.06	15811287.15	0.0135	0.0126
Moon	38578-04-25 08:53 G	15811499.67	15811499.87	15811500.09	0.0135	0.0077
Earth	38578-04-25 12:29 G	15811499.83	15811500.02	15811500.23	0.0135	0.0084 *

Venus	38578-05-08 19:26 G	15811513.17	15811513.31	15811513.46	0.0135	0.0100
Venus	38578-12-21 01:12 G	15811739.38	15811739.55	15811739.74	0.0135	0.0075
Earth	38579-04-29 21:50 G	15811869.16	15811869.41	15811869.67	0.0135	0.0014
Moon	38579-04-30 00:58 G	15811869.30	15811869.54	15811869.80	0.0135	0.0021 *
Venus	38579-08-04 07:12 G	15811965.61	15811965.80	15811966.02	0.0135	0.0050
Venus	38580-03-17 13:41 G	15812191.86	15812192.07	15812192.29	0.0135	0.0023
Moon	38580-05-03 04:34 G	15812238.46	15812238.69	15812238.92	0.0135	0.0063
Earth	38580-05-03 07:26 G	15812238.59	15812238.81	15812239.05	0.0135	0.0057 *
Venus	38580-10-29 19:55 G	15812418.12	15812418.33	15812418.55	0.0136	0.0004
Earth	38581-05-07 17:31 G	15812608.17	15812608.23	15812608.33	0.0136	0.0129
Moon	38581-05-07 20:38 G	15812608.29	15812608.36	15812608.48	0.0136	0.0125 *
Venus	38581-06-13 02:10 G	15812644.38	15812644.59	15812644.81	0.0136	0.0030
Venus	38582-01-25 08:38 G	15812870.67	15812870.86	15812871.07	0.0136	0.0057
Venus	38582-09-08 15:07 G	15813096.97	15813097.13	15813097.31	0.0136	0.0083
Venus	38583-04-22 22:05 G	15813323.30	15813323.42	15813323.55	0.0136	0.0110
Venus	38583-12-05 04:48 G	15813549.70	15813549.70	15813549.72	0.0137	0.0137
Mars	38597-03-24 06:29 G	15818407.60	15818407.77	15818407.96	0.0142	0.0109
Mercury	38598-01-22 21:07 G	15818712.33	15818712.38	15818712.44	0.0142	0.0126
Mercury	38598-04-21 00:43 G	15818800.44	15818800.53	15818800.62	0.0142	0.0106
Mercury	38598-07-18 04:05 G	15818888.57	15818888.67	15818888.78	0.0143	0.0085
Mercury	38598-10-14 07:41 G	15818976.70	15818976.82	15818976.94	0.0143	0.0064
Mercury	38599-01-10 11:17 G	15819064.84	15819064.97	15819065.10	0.0143	0.0043
Mercury	38599-04-08 14:53 G	15819152.99	15819153.12	15819153.25	0.0143	0.0021
Mercury	38599-07-05 18:29 G	15819241.14	15819241.27	15819241.40	0.0143	0.0002
Mercury	38599-10-01 22:05 G	15819329.29	15819329.42	15819329.55	0.0143	0.0022
Mercury	38599-12-29 01:41 G	15819417.44	15819417.57	15819417.70	0.0143	0.0043
Mercury	38600-03-27 05:17 G	15819505.60	15819505.72	15819505.84	0.0143	0.0065
Mercury	38600-06-23 08:53 G	15819593.77	15819593.87	15819593.98	0.0143	0.0087
Mercury	38600-09-19 12:29 G	15819681.94	15819682.02	15819682.11	0.0143	0.0109
Mercury	38600-12-16 16:05 G	15819770.13	15819770.17	15819770.23	0.0143	0.0132

Venus	38618-08-24 17:17 G	15826230.12	15826230.22	15826230.36	0.0144	0.0119
Moon	38618-10-27 06:43 G	15826293.59	15826293.78	15826294.00	0.0143	0.0086
Earth	38618-10-27 10:34 G	15826293.76	15826293.94	15826294.14	0.0143	0.0093 *
Venus	38619-04-08 04:48 G	15826456.54	15826456.70	15826456.89	0.0143	0.0088
Earth	38619-11-01 09:22 G	15826663.63	15826663.89	15826664.14	0.0143	0.0008
Moon	38619-11-01 12:43 G	15826663.78	15826664.03	15826664.28	0.0143	0.0012 *
Venus	38619-11-20 16:19 G	15826682.99	15826683.18	15826683.39	0.0143	0.0056
Venus	38620-07-04 03:36 G	15826909.44	15826909.65	15826909.87	0.0143	0.0025
Moon	38620-11-05 04:19 G	15827033.46	15827033.68	15827033.90	0.0143	0.0074
Earth	38620-11-05 07:12 G	15827033.59	15827033.80	15827034.02	0.0143	0.0076 *
Venus	38621-02-15 14:53 G	15827135.90	15827136.12	15827136.34	0.0143	0.0007
Venus	38621-09-30 01:41 G	15827362.37	15827362.57	15827362.79	0.0143	0.0038
Venus	38622-05-14 12:29 G	15827588.84	15827589.02	15827589.22	0.0142	0.0068
Venus	38622-12-26 23:17 G	15827815.32	15827815.47	15827815.63	0.0142	0.0098
Venus	38623-08-10 10:05 G	15828041.83	15828041.92	15828042.01	0.0142	0.0128
Mercury	38638-08-29 21:07 G	15833540.37	15833540.38	15833540.42	0.0136	0.0134
Mercury	38638-11-26 04:48 G	15833628.58	15833628.70	15833628.82	0.0136	0.0107
Mercury	38639-02-22 11:46 G	15833716.85	15833716.99	15833717.16	0.0135	0.0081
Mercury	38639-05-21 19:12 G	15833805.13	15833805.30	15833805.49	0.0135	0.0054
Mercury	38639-08-18 02:38 G	15833893.42	15833893.61	15833893.80	0.0135	0.0027
Mercury	38639-11-14 09:50 G	15833981.72	15833981.91	15833982.10	0.0135	0.0002
Mercury	38640-02-10 17:02 G	15834070.02	15834070.21	15834070.40	0.0135	0.0026
Mercury	38640-05-09 00:14 G	15834158.33	15834158.51	15834158.68	0.0135	0.0052
Mercury	38640-08-05 07:12 G	15834246.65	15834246.80	15834246.96	0.0135	0.0077
Mercury	38640-11-01 14:10 G	15834334.98	15834335.09	15834335.22	0.0135	0.0103
Mercury	38641-01-28 21:07 G	15834423.33	15834423.38	15834423.44	0.0135	0.0128
Venus	38662-01-07 04:34 G	15842071.58	15842071.69	15842071.83	0.0135	0.0110
Moon	38662-04-26 18:29 G	15842181.09	15842181.27	15842181.48	0.0135	0.0087
Earth	38662-04-26 22:05 G	15842181.23	15842181.42	15842181.63	0.0135	0.0081 *
Venus	38662-08-21 10:48 G	15842297.78	15842297.95	15842298.12	0.0135	0.0084

Venus	38663-04-04 16:48 G	15842524.01	15842524.20	15842524.40	0.0135	0.0059
Earth	38663-05-01 07:26 G	15842550.56	15842550.81	15842551.07	0.0135	0.0011
Moon	38663-05-01 11:02 G	15842550.71	15842550.96	15842551.21	0.0135	0.0004 *
Venus	38663-11-16 22:48 G	15842750.24	15842750.45	15842750.66	0.0135	0.0033
Moon	38664-05-04 13:26 G	15842919.84	15842920.06	15842920.31	0.0135	0.0054
Earth	38664-05-04 17:02 G	15842920.00	15842920.21	15842920.45	0.0135	0.0061 *
Venus	38664-06-30 05:02 G	15842976.49	15842976.71	15842976.93	0.0135	0.0007
Venus	38665-02-11 11:31 G	15843202.76	15843202.98	15843203.19	0.0136	0.0020
Earth	38665-05-09 03:36 G	15843289.59	15843289.65	15843289.72	0.0136	0.0131
Moon	38665-05-09 06:43 G	15843289.77	15843289.78	15843289.81	0.0136	0.0135
Venus	38665-09-25 17:46 G	15843429.04	15843429.24	15843429.45	0.0136	0.0047
Venus	38666-05-10 00:14 G	15843655.34	15843655.51	15843655.70	0.0136	0.0073
Venus	38666-12-22 06:58 G	15843881.65	15843881.79	15843881.94	0.0136	0.0100
Venus	38667-08-05 13:26 G	15844108.00	15844108.06	15844108.16	0.0137	0.0127
Mars	38679-12-18 12:14 G	15848625.90	15848626.01	15848626.17	0.0142	0.0125
Mercury	38681-11-17 00:58 G	15849325.53	15849325.54	15849325.55	0.0142	0.0142
Mercury	38682-02-13 04:34 G	15849413.62	15849413.69	15849413.76	0.0142	0.0121
Mercury	38682-05-12 07:55 G	15849501.74	15849501.83	15849501.93	0.0142	0.0100
Mercury	38682-08-08 11:31 G	15849589.87	15849589.98	15849590.09	0.0143	0.0079
Mercury	38682-11-04 15:07 G	15849678.01	15849678.13	15849678.25	0.0143	0.0058
Mercury	38683-01-31 18:43 G	15849766.15	15849766.28	15849766.41	0.0143	0.0037
Mercury	38683-04-29 22:19 G	15849854.29	15849854.43	15849854.56	0.0143	0.0016
Mercury	38683-07-27 01:55 G	15849942.44	15849942.58	15849942.71	0.0143	0.0007
Mercury	38683-10-23 05:17 G	15850030.60	15850030.72	15850030.86	0.0143	0.0028
Mercury	38684-01-19 09:07 G	15850118.75	15850118.88	15850119.00	0.0143	0.0049
Mercury	38684-04-16 12:43 G	15850206.91	15850207.03	15850207.14	0.0143	0.0071
Mercury	38684-07-13 16:05 G	15850295.08	15850295.17	15850295.28	0.0143	0.0094
Mercury	38684-10-09 19:55 G	15850383.26	15850383.33	15850383.41	0.0143	0.0115
Mercury	38685-01-05 23:31 G	15850471.45	15850471.48	15850471.52	0.0143	0.0137
Venus	38702-04-25 00:43 G	15856788.45	15856788.53	15856788.63	0.0144	0.0130

Moon	38702-10-28 18:14 G	15856975.09	15856975.26	15856975.47	0.0143	0.0096
Earth	38702-10-28 22:19 G	15856975.23	15856975.43	15856975.63	0.0143	0.0088 *
Venus	38702-12-07 12:00 G	15857014.86	15857015.00	15857015.17	0.0143	0.0099
Venus	38703-07-21 23:46 G	15857241.30	15857241.49	15857241.69	0.0143	0.0068
Earth	38703-11-02 20:38 G	15857345.11	15857345.36	15857345.62	0.0143	0.0003
Moon	38703-11-03 00:14 G	15857345.26	15857345.51	15857345.76	0.0143	0.0000 *
Venus	38704-03-04 11:02 G	15857467.75	15857467.96	15857468.17	0.0143	0.0037
Venus	38704-10-16 22:19 G	15857694.21	15857694.43	15857694.65	0.0143	0.0006
Moon	38704-11-06 14:53 G	15857714.92	15857715.12	15857715.34	0.0143	0.0080
Earth	38704-11-06 18:29 G	15857715.07	15857715.27	15857715.49	0.0143	0.0081 *
Venus	38705-05-31 09:07 G	15857920.67	15857920.88	15857921.10	0.0143	0.0026
Venus	38706-01-12 19:55 G	15858147.14	15858147.33	15858147.54	0.0142	0.0057
Venus	38706-08-27 06:43 G	15858373.62	15858373.78	15858373.97	0.0142	0.0087
Venus	38707-04-10 17:31 G	15858600.12	15858600.23	15858600.36	0.0142	0.0117
Mars	38720-06-12 08:10 G	15863411.54	15863411.84	15863412.18	0.0136	0.0048
Mercury	38722-09-20 04:05 G	15864241.62	15864241.67	15864241.74	0.0136	0.0128
Mercury	38722-12-17 11:31 G	15864329.86	15864329.98	15864330.12	0.0135	0.0101
Mercury	38723-03-15 18:43 G	15864418.13	15864418.28	15864418.45	0.0135	0.0075
Mercury	38723-06-12 02:10 G	15864506.42	15864506.59	15864506.78	0.0135	0.0048
Mercury	38723-09-08 09:36 G	15864594.71	15864594.90	15864595.09	0.0135	0.0021
Mercury	38723-12-05 16:48 G	15864683.01	15864683.20	15864683.39	0.0135	0.0005
Mercury	38724-03-03 00:00 G	15864771.31	15864771.50	15864771.68	0.0135	0.0032
Mercury	38724-05-30 06:58 G	15864859.62	15864859.79	15864859.97	0.0135	0.0057
Mercury	38724-08-26 13:55 G	15864947.94	15864948.08	15864948.24	0.0135	0.0083
Mercury	38724-11-22 20:53 G	15865036.27	15865036.37	15865036.49	0.0135	0.0109
Mercury	38725-02-19 03:50 G	15865124.66	15865124.66	15865124.69	0.0135	0.0134
Venus	38745-09-07 13:12 G	15872629.96	15872630.05	15872630.16	0.0135	0.0120
Venus	38746-04-21 18:58 G	15872856.15	15872856.29	15872856.45	0.0135	0.0095
Moon	38746-04-28 02:24 G	15872862.40	15872862.60	15872862.82	0.0135	0.0073
Earth	38746-04-28 06:14 G	15872862.56	15872862.76	15872862.97	0.0135	0.0079 *

Venus	38746-12-04 00:58 G	15873082.36	15873082.54	15873082.73	0.0135	0.0069
Earth	38747-05-02 15:36 G	15873231.90	15873232.15	15873232.41	0.0135	0.0009
Moon	38747-05-02 19:12 G	15873232.05	15873232.30	15873232.55	0.0135	0.0016 *
Venus	38747-07-18 07:12 G	15873308.59	15873308.80	15873309.00	0.0135	0.0043
Venus	38748-02-29 13:26 G	15873534.85	15873535.06	15873535.28	0.0135	0.0017
Moon	38748-05-05 21:36 G	15873601.19	15873601.40	15873601.63	0.0135	0.0069
Earth	38748-05-06 00:58 G	15873601.34	15873601.54	15873601.79	0.0135	0.0063 *
Venus	38748-10-12 19:41 G	15873761.11	15873761.32	15873761.54	0.0136	0.0009
Earth	38749-05-10 11:17 G	15873970.95	15873970.97	15873971.04	0.0136	0.0134
Moon	38749-05-10 15:07 G	15873971.07	15873971.13	15873971.23	0.0136	0.0128
Venus	38749-05-27 01:55 G	15873987.38	15873987.58	15873987.80	0.0136	0.0036
Venus	38750-01-08 08:24 G	15874213.66	15874213.85	15874214.05	0.0136	0.0062
Venus	38750-08-22 15:07 G	15874439.97	15874440.13	15874440.30	0.0136	0.0089
Venus	38751-04-05 21:36 G	15874666.31	15874666.40	15874666.53	0.0136	0.0116
Mars	38764-08-12 23:02 G	15879544.19	15879544.46	15879544.75	0.0142	0.0008
Mercury	38765-12-08 07:41 G	15880026.80	15880026.82	15880026.86	0.0142	0.0139
Mercury	38766-03-06 11:17 G	15880114.91	15880114.97	15880115.05	0.0142	0.0118
Mercury	38766-06-02 14:53 G	15880203.03	15880203.12	15880203.22	0.0143	0.0097
Mercury	38766-08-29 18:29 G	15880291.16	15880291.27	15880291.38	0.0143	0.0076
Mercury	38766-11-25 21:50 G	15880379.30	15880379.41	15880379.54	0.0143	0.0055
Mercury	38767-02-22 01:26 G	15880467.44	15880467.56	15880467.70	0.0143	0.0034
Mercury	38767-05-21 05:02 G	15880555.58	15880555.71	15880555.85	0.0143	0.0013
Mercury	38767-08-17 08:38 G	15880643.73	15880643.86	15880644.00	0.0143	0.0010
Mercury	38767-11-13 12:14 G	15880731.88	15880732.01	15880732.14	0.0143	0.0031
Mercury	38768-02-09 15:50 G	15880820.04	15880820.16	15880820.29	0.0143	0.0053
Mercury	38768-05-07 19:26 G	15880908.20	15880908.31	15880908.43	0.0143	0.0075
Mercury	38768-08-03 23:17 G	15880996.37	15880996.47	15880996.57	0.0143	0.0097
Mercury	38768-10-31 02:53 G	15881084.55	15881084.62	15881084.70	0.0143	0.0119
Mercury	38769-01-27 06:29 G	15881172.75	15881172.77	15881172.80	0.0143	0.0141
Venus	38785-12-23 06:00 G	15887346.75	15887346.75	15887346.77	0.0144	0.0143

Venus	38786-08-06 17:31 G	15887573.11	15887573.23	15887573.38	0.0144	0.0113
Moon	38786-10-29 02:38 G	15887656.41	15887656.61	15887656.84	0.0143	0.0079
Earth	38786-10-29 06:29 G	15887656.58	15887656.77	15887656.98	0.0143	0.0086 *
Venus	38787-03-21 05:02 G	15887799.55	15887799.71	15887799.91	0.0143	0.0082
Venus	38787-11-02 16:34 G	15888026.00	15888026.19	15888026.40	0.0143	0.0050
Earth	38787-11-03 05:17 G	15888026.47	15888026.72	15888026.98	0.0143	0.0001
Moon	38787-11-03 08:53 G	15888026.62	15888026.87	15888027.13	0.0143	0.0006 *
Venus	38788-06-16 03:50 G	15888252.45	15888252.66	15888252.88	0.0143	0.0019
Moon	38788-11-06 23:46 G	15888396.29	15888396.49	15888396.71	0.0143	0.0083
Earth	38788-11-07 03:36 G	15888396.44	15888396.65	15888396.85	0.0143	0.0083 *
Venus	38789-01-28 15:07 G	15888478.92	15888479.13	15888479.35	0.0143	0.0013
Venus	38789-09-12 02:10 G	15888705.39	15888705.59	15888705.81	0.0142	0.0044
Venus	38790-04-26 12:58 G	15888931.87	15888932.04	15888932.24	0.0142	0.0075
Venus	38790-12-09 00:00 G	15889158.36	15889158.50	15889158.65	0.0142	0.0104
Venus	38791-07-23 10:19 G	15889384.88	15889384.93	15889385.02	0.0142	0.0135
Mars	38805-02-06 04:05 G	15894331.48	15894331.67	15894331.92	0.0136	0.0104
Mercury	38806-10-10 11:02 G	15894942.89	15894942.96	15894943.05	0.0136	0.0122
Mercury	38807-01-06 18:29 G	15895031.14	15895031.27	15895031.41	0.0135	0.0095
Mercury	38807-04-05 01:55 G	15895119.42	15895119.58	15895119.75	0.0135	0.0068
Mercury	38807-07-02 09:07 G	15895207.70	15895207.88	15895208.07	0.0135	0.0042
Mercury	38807-09-28 16:34 G	15895296.00	15895296.19	15895296.38	0.0135	0.0015
Mercury	38807-12-25 23:46 G	15895384.30	15895384.49	15895384.68	0.0135	0.0011
Mercury	38808-03-23 06:58 G	15895472.60	15895472.79	15895472.97	0.0135	0.0038
Mercury	38808-06-19 13:55 G	15895560.92	15895561.08	15895561.25	0.0135	0.0063
Mercury	38808-09-15 20:53 G	15895649.24	15895649.37	15895649.52	0.0135	0.0089
Mercury	38808-12-13 03:50 G	15895737.57	15895737.66	15895737.77	0.0135	0.0115
Venus	38829-05-07 21:22 G	15903188.36	15903188.39	15903188.46	0.0134	0.0131
Venus	38829-12-20 03:07 G	15903414.52	15903414.63	15903414.78	0.0135	0.0106
Moon	38830-04-28 10:48 G	15903543.77	15903543.95	15903544.17	0.0135	0.0082
Earth	38830-04-28 14:10 G	15903543.90	15903544.09	15903544.31	0.0135	0.0077 *

Venus	38830-08-03 09:22 G	15903640.72	15903640.89	15903641.07	0.0135	0.0080
Venus	38831-03-17 15:22 G	15903866.95	15903867.14	15903867.35	0.0135	0.0054
Earth	38831-05-02 23:31 G	15903913.23	15903913.48	15903913.74	0.0135	0.0007
Moon	38831-05-03 03:22 G	15903913.38	15903913.64	15903913.89	0.0135	0.0001 *
Venus	38831-10-29 21:36 G	15904093.19	15904093.40	15904093.61	0.0135	0.0028
Moon	38832-05-06 05:46 G	15904282.52	15904282.74	15904282.98	0.0135	0.0057
Earth	38832-05-06 09:07 G	15904282.67	15904282.88	15904283.12	0.0135	0.0065 *
Venus	38832-06-12 03:50 G	15904319.44	15904319.66	15904319.88	0.0135	0.0002
Venus	38833-01-24 10:05 G	15904545.71	15904545.92	15904546.14	0.0136	0.0024
Earth	38833-05-10 19:55 G	15904652.31	15904652.33	15904652.35	0.0136	0.0135
Venus	38833-09-07 16:34 G	15904771.99	15904772.19	15904772.39	0.0136	0.0051
Venus	38834-04-21 23:02 G	15904998.29	15904998.46	15904998.64	0.0136	0.0077
Venus	38834-12-04 05:17 G	15905224.60	15905224.72	15905224.88	0.0136	0.0105
Venus	38835-07-18 12:14 G	15905450.96	15905451.01	15905451.08	0.0136	0.0131
Mars	38849-04-07 07:41 G	15910462.78	15910462.82	15910462.90	0.0142	0.0138
Mercury	38849-12-28 14:24 G	15910728.07	15910728.10	15910728.14	0.0142	0.0137
Mercury	38850-03-26 18:00 G	15910816.18	15910816.25	15910816.33	0.0142	0.0116
Mercury	38850-06-22 21:36 G	15910904.30	15910904.40	15910904.50	0.0143	0.0095
Mercury	38850-09-19 00:58 G	15910992.43	15910992.54	15910992.66	0.0143	0.0074
Mercury	38850-12-16 04:34 G	15911080.57	15911080.69	15911080.81	0.0143	0.0053
Mercury	38851-03-14 08:10 G	15911168.71	15911168.84	15911168.97	0.0143	0.0031
Mercury	38851-06-10 11:46 G	15911256.86	15911256.99	15911257.12	0.0143	0.0010
Mercury	38851-09-06 15:22 G	15911345.01	15911345.14	15911345.27	0.0143	0.0012
Mercury	38851-12-03 18:58 G	15911433.16	15911433.29	15911433.42	0.0143	0.0033
Mercury	38852-02-29 22:19 G	15911521.32	15911521.43	15911521.56	0.0143	0.0055
Mercury	38852-05-28 02:10 G	15911609.48	15911609.59	15911609.70	0.0143	0.0076
Mercury	38852-08-24 05:46 G	15911697.65	15911697.74	15911697.84	0.0143	0.0098
Mercury	38852-11-20 09:22 G	15911785.83	15911785.89	15911785.97	0.0143	0.0121
Mercury	38853-02-16 12:58 G	15911874.04	15911874.04	15911874.06	0.0143	0.0143
Venus	38870-04-05 21:22 G	15918131.30	15918131.39	15918131.50	0.0144	0.0127

Moon	38870-10-29 09:07 G	15918337.70	15918337.88	15918338.08	0.0143	0.0093
Earth	38870-10-29 12:29 G	15918337.81	15918338.02	15918338.22	0.0143	0.0085 *
Venus	38870-11-18 09:07 G	15918357.72	15918357.88	15918358.04	0.0143	0.0096
Venus	38871-07-02 20:24 G	15918584.16	15918584.35	15918584.55	0.0143	0.0065
Earth	38871-11-03 11:17 G	15918707.71	15918707.97	15918708.22	0.0143	0.0002
Moon	38871-11-03 14:53 G	15918707.86	15918708.12	15918708.38	0.0143	0.0005 *
Venus	38872-02-14 07:55 G	15918810.62	15918810.83	15918811.05	0.0143	0.0033
Venus	38872-09-27 19:26 G	15919037.09	15919037.31	15919037.52	0.0143	0.0003
Moon	38872-11-07 05:31 G	15919077.54	15919077.73	15919077.95	0.0143	0.0082
Earth	38872-11-07 09:22 G	15919077.69	15919077.89	15919078.10	0.0143	0.0084 *
Venus	38873-05-12 06:14 G	15919263.56	15919263.76	15919263.98	0.0143	0.0030
Venus	38873-12-24 17:17 G	15919490.03	15919490.22	15919490.43	0.0142	0.0060
Venus	38874-08-08 04:34 G	15919716.52	15919716.69	15919716.86	0.0142	0.0091
Venus	38875-03-22 14:53 G	15919943.03	15919943.12	15919943.25	0.0142	0.0121
Mercury	38890-10-30 17:31 G	15925644.14	15925644.23	15925644.32	0.0136	0.0118
Mercury	38891-01-27 00:29 G	15925732.40	15925732.52	15925732.68	0.0136	0.0092
Mercury	38891-04-25 07:55 G	15925820.67	15925820.83	15925821.01	0.0135	0.0065
Mercury	38891-07-22 15:36 G	15925908.96	15925909.15	15925909.33	0.0135	0.0038
Mercury	38891-10-18 22:48 G	15925997.26	15925997.45	15925997.64	0.0135	0.0011
Mercury	38892-01-15 06:00 G	15926085.56	15926085.75	15926085.94	0.0135	0.0015
Mercury	38892-04-12 12:58 G	15926173.87	15926174.04	15926174.23	0.0135	0.0041
Mercury	38892-07-09 20:10 G	15926262.18	15926262.34	15926262.51	0.0135	0.0067
Mercury	38892-10-06 03:07 G	15926350.50	15926350.63	15926350.78	0.0135	0.0093
Mercury	38893-01-02 10:19 G	15926438.84	15926438.93	15926439.02	0.0135	0.0118
Venus	38913-08-20 11:46 G	15933972.90	15933972.99	15933973.11	0.0135	0.0116
Venus	38914-04-03 17:31 G	15934199.09	15934199.23	15934199.41	0.0135	0.0091
Moon	38914-04-29 18:58 G	15934225.09	15934225.29	15934225.52	0.0135	0.0070
Earth	38914-04-29 22:19 G	15934225.23	15934225.43	15934225.66	0.0135	0.0075 *
Venus	38914-11-15 23:46 G	15934425.31	15934425.49	15934425.69	0.0135	0.0065
Earth	38915-05-04 07:55 G	15934594.57	15934594.83	15934595.08	0.0135	0.0004

Moon	38915-05-04 10:48 G	15934594.70	15934594.95	15934595.22	0.0135	0.0011	*
Venus	38915-06-30 05:46 G	15934651.54	15934651.74	15934651.96	0.0135	0.0039	
Venus	38916-02-11 12:14 G	15934877.79	15934878.01	15934878.22	0.0135	0.0013	
Moon	38916-05-07 14:10 G	15934963.89	15934964.09	15934964.31	0.0135	0.0073	
Earth	38916-05-07 17:31 G	15934964.02	15934964.23	15934964.46	0.0135	0.0066	*
Venus	38916-09-24 18:29 G	15935104.05	15935104.27	15935104.49	0.0135	0.0013	
Jupiter	38916-12-13 07:41 G	15935183.41	15935183.82	15935184.24	0.0135	0.0078	
Venus	38917-05-09 00:43 G	15935330.33	15935330.53	15935330.74	0.0136	0.0040	
Moon	38917-05-12 07:26 G	15935333.75	15935333.81	15935333.88	0.0136	0.0131	
Venus	38917-12-21 07:12 G	15935556.61	15935556.80	15935556.99	0.0136	0.0066	
Venus	38918-08-04 13:26 G	15935782.92	15935783.06	15935783.23	0.0136	0.0093	
Venus	38919-03-18 20:10 G	15936009.26	15936009.34	15936009.46	0.0136	0.0120	
Mars	38932-01-01 09:07 G	15940680.70	15940680.88	15940681.09	0.0142	0.0102	
Mercury	38934-01-18 21:22 G	15941429.35	15941429.39	15941429.43	0.0142	0.0134	
Mercury	38934-04-17 00:43 G	15941517.46	15941517.53	15941517.61	0.0142	0.0113	
Mercury	38934-07-14 04:05 G	15941605.58	15941605.67	15941605.78	0.0143	0.0093	
Mercury	38934-10-10 07:41 G	15941693.71	15941693.82	15941693.94	0.0143	0.0072	
Mercury	38935-01-06 11:17 G	15941781.85	15941781.97	15941782.10	0.0143	0.0050	
Mercury	38935-04-04 14:53 G	15941869.99	15941870.12	15941870.25	0.0143	0.0029	
Mercury	38935-07-01 18:29 G	15941958.13	15941958.27	15941958.40	0.0143	0.0008	
Mercury	38935-09-27 22:05 G	15942046.28	15942046.42	15942046.55	0.0143	0.0014	
Mercury	38935-12-25 01:41 G	15942134.44	15942134.57	15942134.70	0.0143	0.0035	
Mercury	38936-03-22 05:02 G	15942222.59	15942222.71	15942222.84	0.0143	0.0057	
Mercury	38936-06-18 08:53 G	15942310.76	15942310.87	15942310.98	0.0143	0.0079	
Mercury	38936-09-14 12:29 G	15942398.93	15942399.02	15942399.11	0.0143	0.0101	
Mercury	38936-12-11 16:05 G	15942487.11	15942487.17	15942487.24	0.0143	0.0123	
Venus	38953-12-05 00:14 G	15948689.50	15948689.51	15948689.57	0.0144	0.0142	
Venus	38954-07-19 12:00 G	15948915.88	15948916.00	15948916.16	0.0144	0.0111	
Moon	38954-10-30 14:24 G	15949018.90	15949019.10	15949019.32	0.0143	0.0078	
Earth	38954-10-30 17:17 G	15949019.03	15949019.22	15949019.43	0.0143	0.0086	*

Venus	38955-03-02 23:46 G	15949142.32	15949142.49	15949142.68	0.0143	0.0079
Venus	38955-10-15 11:31 G	15949368.77	15949368.98	15949369.19	0.0143	0.0048
Earth	38955-11-04 16:19 G	15949388.93	15949389.18	15949389.44	0.0143	0.0001
Moon	38955-11-04 19:12 G	15949389.05	15949389.30	15949389.57	0.0143	0.0008 *
Venus	38956-05-28 22:48 G	15949595.23	15949595.45	15949595.67	0.0143	0.0016
Moon	38956-11-08 11:02 G	15949758.77	15949758.96	15949759.17	0.0143	0.0086
Earth	38956-11-08 14:24 G	15949758.91	15949759.10	15949759.32	0.0143	0.0084 *
Venus	38957-01-10 10:05 G	15949821.70	15949821.92	15949822.14	0.0143	0.0015
Venus	38957-08-24 21:22 G	15950048.18	15950048.39	15950048.60	0.0142	0.0046
Venus	38958-04-08 08:10 G	15950274.67	15950274.84	15950275.03	0.0142	0.0077
Venus	38958-11-20 18:58 G	15950501.16	15950501.29	15950501.45	0.0142	0.0107
Venus	38959-07-05 05:31 G	15950727.69	15950727.73	15950727.81	0.0142	0.0137
Mars	38972-06-24 00:29 G	15955465.19	15955465.52	15955465.87	0.0137	0.0016
Mercury	38974-11-20 23:31 G	15956345.38	15956345.48	15956345.58	0.0136	0.0115
Mercury	38975-02-17 06:58 G	15956433.64	15956433.79	15956433.93	0.0136	0.0088
Mercury	38975-05-16 13:55 G	15956521.92	15956522.08	15956522.26	0.0136	0.0062
Mercury	38975-08-12 21:36 G	15956610.21	15956610.40	15956610.58	0.0135	0.0035
Mercury	38975-11-09 04:48 G	15956698.51	15956698.70	15956698.89	0.0135	0.0008
Mercury	38976-02-05 12:00 G	15956786.81	15956787.00	15956787.19	0.0135	0.0018
Mercury	38976-05-03 18:58 G	15956875.12	15956875.29	15956875.48	0.0135	0.0045
Mercury	38976-07-31 02:10 G	15956963.43	15956963.59	15956963.76	0.0135	0.0070
Mercury	38976-10-27 09:07 G	15957051.76	15957051.88	15957052.02	0.0135	0.0096
Mercury	38977-01-23 16:05 G	15957140.10	15957140.17	15957140.26	0.0135	0.0122
Venus	38997-04-19 20:38 G	15964531.30	15964531.36	15964531.46	0.0134	0.0126
Venus	38997-12-02 02:53 G	15964757.48	15964757.62	15964757.77	0.0135	0.0100
Moon	38998-04-30 05:02 G	15964906.52	15964906.71	15964906.93	0.0135	0.0076
Earth	38998-04-30 07:41 G	15964906.61	15964906.82	15964907.04	0.0135	0.0072 *
Venus	38998-07-16 08:38 G	15964983.69	15964983.86	15964984.05	0.0135	0.0075
Venus	38999-02-27 14:53 G	15965209.93	15965210.12	15965210.33	0.0135	0.0049
Earth	38999-05-04 17:02 G	15965275.96	15965276.21	15965276.47	0.0135	0.0002

Moon	38999-05-04 20:10 G	15965276.08	15965276.34	15965276.60	0.0135	0.0005	*
Venus	38999-10-11 21:07 G	15965436.17	15965436.38	15965436.60	0.0135	0.0023	
Moon	39000-05-09 00:00 G	15965645.30	15965645.50	15965645.74	0.0135	0.0063	
Earth	39000-05-09 02:53 G	15965645.41	15965645.62	15965645.85	0.0135	0.0069	*
Venus	39000-05-26 03:22 G	15965662.42	15965662.64	15965662.86	0.0135	0.0003	

40TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 40th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	39001-01-07 09:36 G		15965888.69	15965888.90	15965889.11	0.0135	0.0030	
Venus	39001-08-21 16:05 G		15966114.97	15966115.17	15966115.37	0.0136	0.0056	
Venus	39002-04-04 22:48 G		15966341.27	15966341.45	15966341.62	0.0136	0.0082	
Venus	39002-11-17 04:48 G		15966567.59	15966567.70	15966567.85	0.0136	0.0109	
Venus	39003-07-01 11:31 G		15966793.97	15966793.98	15966794.03	0.0136	0.0136	
Mars	39016-08-26 21:07 G		15971599.11	15971599.38	15971599.65	0.0142	0.0034	
Mercury	39018-02-09 04:19 G		15972130.64	15972130.68	15972130.74	0.0142	0.0130	
Mercury	39018-05-08 07:55 G		15972218.75	15972218.83	15972218.92	0.0142	0.0109	
Mercury	39018-08-04 11:31 G		15972306.87	15972306.98	15972307.08	0.0143	0.0088	
Mercury	39018-10-31 14:53 G		15972395.01	15972395.12	15972395.24	0.0143	0.0067	
Mercury	39019-01-27 18:29 G		15972483.14	15972483.27	15972483.39	0.0143	0.0046	
Mercury	39019-04-25 22:05 G		15972571.29	15972571.42	15972571.55	0.0143	0.0025	
Mercury	39019-07-23 01:26 G		15972659.43	15972659.56	15972659.70	0.0143	0.0005	
Mercury	39019-10-19 05:02 G		15972747.58	15972747.71	15972747.84	0.0143	0.0018	

Mercury	39020-01-15 08:38 G	15972835.73	15972835.86	15972835.99	0.0143	0.0040
Mercury	39020-04-12 12:14 G	15972923.89	15972924.01	15972924.13	0.0143	0.0061
Mercury	39020-07-09 15:50 G	15973012.06	15973012.16	15973012.27	0.0143	0.0083
Mercury	39020-10-05 19:26 G	15973100.23	15973100.31	15973100.40	0.0143	0.0105
Mercury	39021-01-01 23:02 G	15973188.41	15973188.46	15973188.53	0.0143	0.0127
Venus	39038-03-19 17:02 G	15979474.11	15979474.21	15979474.33	0.0144	0.0124
Moon	39038-10-31 22:48 G	15979700.27	15979700.45	15979700.65	0.0143	0.0091
Earth	39038-11-01 00:43 G	15979700.33	15979700.53	15979700.74	0.0143	0.0084 *
Venus	39038-11-01 04:34 G	15979700.53	15979700.69	15979700.87	0.0143	0.0093 *
Venus	39039-06-15 16:05 G	15979926.98	15979927.17	15979927.38	0.0143	0.0061
Earth	39039-11-05 23:46 G	15980070.24	15980070.49	15980070.75	0.0143	0.0002
Moon	39039-11-06 02:38 G	15980070.35	15980070.61	15980070.87	0.0143	0.0007 *
Venus	39040-01-28 03:36 G	15980153.44	15980153.65	15980153.87	0.0143	0.0030
Venus	39040-09-10 15:07 G	15980379.91	15980380.13	15980380.35	0.0143	0.0002
Moon	39040-11-09 18:58 G	15980440.10	15980440.29	15980440.51	0.0143	0.0081
Earth	39040-11-09 22:05 G	15980440.22	15980440.42	15980440.63	0.0143	0.0085 *
Venus	39041-04-25 02:10 G	15980606.39	15980606.59	15980606.81	0.0143	0.0033
Jupiter	39041-07-02 15:22 G	15980674.61	15980675.14	15980675.68	0.0143	0.0002
Venus	39041-12-07 13:12 G	15980832.86	15980833.05	15980833.25	0.0142	0.0063
Venus	39042-07-22 00:14 G	15981059.35	15981059.51	15981059.68	0.0142	0.0094
Venus	39043-03-05 10:48 G	15981285.86	15981285.95	15981286.07	0.0142	0.0124
Mars	39057-02-18 14:38 G	15986385.02	15986385.11	15986385.21	0.0136	0.0131
Mercury	39058-12-12 05:31 G	15987046.62	15987046.73	15987046.84	0.0136	0.0112
Mercury	39059-03-10 12:58 G	15987134.89	15987135.04	15987135.19	0.0136	0.0085
Mercury	39059-06-06 20:10 G	15987223.17	15987223.34	15987223.52	0.0136	0.0058
Mercury	39059-09-03 03:36 G	15987311.46	15987311.65	15987311.83	0.0135	0.0032
Mercury	39059-11-30 10:48 G	15987399.76	15987399.95	15987400.14	0.0135	0.0005
Mercury	39060-02-26 18:00 G	15987488.06	15987488.25	15987488.44	0.0135	0.0021
Mercury	39060-05-25 00:58 G	15987576.37	15987576.54	15987576.73	0.0135	0.0048
Mercury	39060-08-21 08:10 G	15987664.69	15987664.84	15987665.01	0.0135	0.0073

Mercury	39060-11-17 15:07 G	15987753.01	15987753.13	15987753.27	0.0135	0.0099
Mercury	39061-02-13 22:19 G	15987841.36	15987841.43	15987841.50	0.0135	0.0125
Venus	39081-08-02 11:31 G	15995315.87	15995315.98	15995316.12	0.0135	0.0110
Venus	39082-03-16 17:31 G	15995542.08	15995542.23	15995542.41	0.0135	0.0085
Moon	39082-05-01 13:55 G	15995587.88	15995588.08	15995588.31	0.0135	0.0067
Earth	39082-05-01 16:19 G	15995587.98	15995588.18	15995588.41	0.0135	0.0070 *
Venus	39082-10-28 23:46 G	15995768.30	15995768.49	15995768.69	0.0135	0.0059
Earth	39083-05-06 02:10 G	15995957.34	15995957.59	15995957.85	0.0135	0.0001
Moon	39083-05-06 04:19 G	15995957.42	15995957.68	15995957.94	0.0135	0.0005 *
Venus	39083-06-12 05:46 G	15995994.54	15995994.74	15995994.96	0.0135	0.0033
Venus	39084-01-24 12:14 G	15996220.79	15996221.01	15996221.23	0.0135	0.0007
Moon	39084-05-09 09:22 G	15996326.70	15996326.89	15996327.10	0.0135	0.0079
Earth	39084-05-09 12:00 G	15996326.80	15996327.00	15996327.23	0.0135	0.0072 *
Venus	39084-09-06 18:29 G	15996447.06	15996447.27	15996447.49	0.0135	0.0019
Venus	39085-04-21 00:43 G	15996673.33	15996673.53	15996673.74	0.0136	0.0046
Moon	39085-05-14 01:12 G	15996696.55	15996696.55	15996696.57	0.0136	0.0136
Venus	39085-12-03 07:12 G	15996899.62	15996899.80	15996899.99	0.0136	0.0072
Venus	39086-07-17 13:55 G	15997125.93	15997126.08	15997126.23	0.0136	0.0098
Venus	39087-02-28 20:38 G	15997352.28	15997352.36	15997352.45	0.0136	0.0125
Mercury	39102-03-02 11:46 G	16002831.93	16002831.99	16002832.06	0.0142	0.0124
Mercury	39102-05-29 15:07 G	16002920.05	16002920.13	16002920.23	0.0142	0.0104
Mercury	39102-08-25 18:43 G	16003008.18	16003008.28	16003008.39	0.0143	0.0083
Mercury	39102-11-21 22:19 G	16003096.31	16003096.43	16003096.55	0.0143	0.0061
Mercury	39103-02-18 01:55 G	16003184.45	16003184.58	16003184.71	0.0143	0.0040
Mercury	39103-05-17 05:17 G	16003272.59	16003272.72	16003272.86	0.0143	0.0020
Mercury	39103-08-13 08:53 G	16003360.74	16003360.87	16003361.01	0.0143	0.0004
Mercury	39103-11-09 12:29 G	16003448.89	16003449.02	16003449.15	0.0143	0.0024
Mercury	39104-02-05 16:05 G	16003537.04	16003537.17	16003537.30	0.0143	0.0046
Mercury	39104-05-03 19:41 G	16003625.20	16003625.32	16003625.44	0.0143	0.0067
Mercury	39104-07-30 23:17 G	16003713.37	16003713.47	16003713.58	0.0143	0.0089

Mercury	39104-10-27 02:53 G	16003801.54	16003801.62	16003801.71	0.0143	0.0111
Mercury	39105-01-23 06:29 G	16003889.73	16003889.77	16003889.82	0.0143	0.0133
Venus	39121-11-17 23:17 G	16010032.42	16010032.47	16010032.55	0.0144	0.0136
Venus	39122-07-02 11:02 G	16010258.82	16010258.96	16010259.12	0.0143	0.0105
Moon	39122-11-02 09:22 G	16010381.68	16010381.89	16010382.10	0.0143	0.0074
Earth	39122-11-02 10:34 G	16010381.75	16010381.94	16010382.17	0.0143	0.0082 *
Venus	39123-02-13 22:34 G	16010485.26	16010485.44	16010485.64	0.0143	0.0074
Venus	39123-09-28 10:05 G	16010711.72	16010711.92	16010712.14	0.0143	0.0042
Earth	39123-11-07 09:50 G	16010751.66	16010751.91	16010752.17	0.0143	0.0004
Moon	39123-11-07 11:46 G	16010751.73	16010751.99	16010752.25	0.0143	0.0003 *
Venus	39124-05-11 21:36 G	16010938.18	16010938.40	16010938.62	0.0143	0.0011
Moon	39124-11-11 05:17 G	16011121.54	16011121.72	16011121.92	0.0143	0.0092
Earth	39124-11-11 07:55 G	16011121.64	16011121.83	16011122.04	0.0143	0.0088 *
Venus	39124-12-24 08:38 G	16011164.65	16011164.86	16011165.08	0.0143	0.0021
Venus	39125-08-07 19:55 G	16011391.13	16011391.33	16011391.54	0.0142	0.0051
Venus	39126-03-22 06:58 G	16011617.61	16011617.79	16011617.97	0.0142	0.0082
Venus	39126-11-03 17:31 G	16011844.11	16011844.23	16011844.38	0.0142	0.0112
Venus	39127-06-18 04:05 G	16012070.67	16012070.67	16012070.70	0.0142	0.0142
Mars	39139-11-10 22:48 G	16016599.41	16016599.45	16016599.55	0.0137	0.0134
Mercury	39142-10-06 04:34 G	16017659.67	16017659.69	16017659.72	0.0136	0.0134
Mercury	39143-01-02 12:00 G	16017747.89	16017748.00	16017748.12	0.0136	0.0107
Mercury	39143-03-31 19:12 G	16017836.16	16017836.30	16017836.47	0.0136	0.0081
Mercury	39143-06-28 02:38 G	16017924.44	16017924.61	16017924.79	0.0136	0.0054
Mercury	39143-09-24 10:05 G	16018012.73	16018012.92	16018013.11	0.0135	0.0027
Mercury	39143-12-21 17:17 G	16018101.03	16018101.22	16018101.41	0.0135	0.0002
Mercury	39144-03-19 00:29 G	16018189.34	16018189.52	16018189.71	0.0135	0.0026
Mercury	39144-06-15 07:26 G	16018277.65	16018277.81	16018278.00	0.0135	0.0053
Mercury	39144-09-11 14:38 G	16018365.96	16018366.11	16018366.27	0.0135	0.0078
Mercury	39144-12-08 21:36 G	16018454.29	16018454.40	16018454.53	0.0135	0.0104
Mercury	39145-03-07 04:48 G	16018542.66	16018542.70	16018542.76	0.0135	0.0129

Venus	39165-04-02 20:38 G	16025874.28	16025874.36	16025874.48	0.0135	0.0120
Venus	39165-11-15 02:53 G	16026100.47	16026100.62	16026100.78	0.0135	0.0094
Moon	39166-05-03 00:58 G	16026269.34	16026269.54	16026269.76	0.0135	0.0069
Earth	39166-05-03 02:10 G	16026269.38	16026269.59	16026269.82	0.0135	0.0067 *
Venus	39166-06-29 08:38 G	16026326.69	16026326.86	16026327.06	0.0135	0.0069
Venus	39167-02-10 14:53 G	16026552.93	16026553.12	16026553.34	0.0135	0.0044
Earth	39167-05-07 11:46 G	16026638.74	16026638.99	16026639.25	0.0135	0.0003
Moon	39167-05-07 13:41 G	16026638.81	16026639.07	16026639.34	0.0135	0.0009 *
Venus	39167-09-24 21:22 G	16026779.18	16026779.39	16026779.61	0.0135	0.0017
Venus	39168-05-08 03:36 G	16027005.43	16027005.65	16027005.87	0.0135	0.0009
Moon	39168-05-10 20:10 G	16027008.13	16027008.34	16027008.56	0.0135	0.0068
Earth	39168-05-10 21:36 G	16027008.20	16027008.40	16027008.62	0.0135	0.0074 *
Venus	39168-12-20 09:50 G	16027231.70	16027231.91	16027232.12	0.0136	0.0036
Venus	39169-08-03 16:05 G	16027457.99	16027458.17	16027458.37	0.0136	0.0062
Venus	39170-03-17 22:48 G	16027684.29	16027684.45	16027684.62	0.0136	0.0088
Venus	39170-10-30 05:31 G	16027910.62	16027910.73	16027910.85	0.0136	0.0115
Mars	39184-01-15 19:41 G	16032736.07	16032736.32	16032736.58	0.0142	0.0061
Mercury	39185-12-24 15:36 G	16033445.13	16033445.15	16033445.18	0.0142	0.0139
Mercury	39186-03-22 19:12 G	16033533.23	16033533.30	16033533.37	0.0142	0.0118
Mercury	39186-06-18 22:34 G	16033621.35	16033621.44	16033621.54	0.0143	0.0098
Mercury	39186-09-15 02:10 G	16033709.48	16033709.59	16033709.70	0.0143	0.0077
Mercury	39186-12-12 05:46 G	16033797.62	16033797.74	16033797.86	0.0143	0.0056
Mercury	39187-03-10 09:07 G	16033885.76	16033885.88	16033886.01	0.0143	0.0035
Mercury	39187-06-06 12:43 G	16033973.90	16033974.03	16033974.17	0.0143	0.0014
Mercury	39187-09-02 16:19 G	16034062.05	16034062.18	16034062.31	0.0143	0.0009
Mercury	39187-11-29 19:55 G	16034150.20	16034150.33	16034150.46	0.0143	0.0030
Mercury	39188-02-25 23:31 G	16034238.36	16034238.48	16034238.60	0.0143	0.0052
Mercury	39188-05-24 03:07 G	16034326.52	16034326.63	16034326.74	0.0143	0.0073
Mercury	39188-08-20 06:43 G	16034414.68	16034414.78	16034414.88	0.0143	0.0095
Mercury	39188-11-16 10:19 G	16034502.86	16034502.93	16034503.01	0.0143	0.0117

Mercury	39189-02-12 13:55 G	16034591.06	16034591.08	16034591.12	0.0143	0.0139
Venus	39206-03-01 18:43 G	16040817.17	16040817.28	16040817.42	0.0144	0.0116
Venus	39206-10-14 06:29 G	16041043.60	16041043.77	16041043.95	0.0143	0.0085
Moon	39206-11-02 22:34 G	16041063.25	16041063.44	16041063.65	0.0143	0.0083
Earth	39206-11-02 23:17 G	16041063.26	16041063.47	16041063.69	0.0143	0.0076 *
Venus	39207-05-28 18:00 G	16041270.05	16041270.25	16041270.45	0.0143	0.0053
Earth	39207-11-07 22:05 G	16041433.17	16041433.42	16041433.68	0.0143	0.0009
Moon	39207-11-07 23:46 G	16041433.24	16041433.49	16041433.76	0.0143	0.0016 *
Venus	39208-01-10 05:17 G	16041496.51	16041496.72	16041496.94	0.0143	0.0022
Venus	39208-08-23 16:48 G	16041722.98	16041723.20	16041723.42	0.0143	0.0009
Moon	39208-11-11 18:00 G	16041803.07	16041803.25	16041803.46	0.0143	0.0088
Earth	39208-11-11 19:55 G	16041803.15	16041803.33	16041803.53	0.0143	0.0093 *
Venus	39209-04-07 03:50 G	16041949.45	16041949.66	16041949.87	0.0143	0.0040
Venus	39209-11-19 14:38 G	16042175.93	16042176.11	16042176.31	0.0142	0.0071
Venus	39210-07-04 01:12 G	16042402.42	16042402.55	16042402.72	0.0142	0.0101
Venus	39211-02-15 11:46 G	16042628.93	16042628.99	16042629.10	0.0142	0.0131
Mars	39224-07-06 21:36 G	16047519.06	16047519.40	16047519.74	0.0136	0.0021
Mercury	39226-10-26 11:17 G	16048360.92	16048360.97	16048361.04	0.0136	0.0129
Mercury	39227-01-22 18:43 G	16048449.16	16048449.28	16048449.42	0.0136	0.0102
Mercury	39227-04-21 02:10 G	16048537.44	16048537.59	16048537.76	0.0136	0.0075
Mercury	39227-07-18 09:36 G	16048625.72	16048625.90	16048626.08	0.0135	0.0048
Mercury	39227-10-14 16:48 G	16048714.01	16048714.20	16048714.39	0.0135	0.0021
Mercury	39228-01-11 00:00 G	16048802.31	16048802.50	16048802.70	0.0135	0.0006
Mercury	39228-04-08 07:12 G	16048890.62	16048890.80	16048890.99	0.0135	0.0032
Mercury	39228-07-05 14:24 G	16048978.93	16048979.10	16048979.28	0.0135	0.0058
Mercury	39228-10-01 21:36 G	16049067.25	16049067.40	16049067.55	0.0135	0.0083
Mercury	39228-12-29 04:34 G	16049155.58	16049155.69	16049155.80	0.0135	0.0109
Mercury	39229-03-27 11:31 G	16049243.98	16049243.98	16049244.00	0.0135	0.0135
Venus	39248-12-01 05:17 G	16056432.68	16056432.72	16056432.80	0.0135	0.0130
Moon	39249-04-29 01:41 G	16056581.55	16056581.57	16056581.65	0.0135	0.0133

Earth	39249-04-29 01:41 G	16056581.57	16056581.57	16056581.59	0.0135	0.0135	*
Venus	39249-07-15 11:31 G	16056658.85	16056658.98	16056659.12	0.0135	0.0104	
Venus	39250-02-26 17:31 G	16056885.06	16056885.23	16056885.42	0.0135	0.0079	
Moon	39250-05-03 09:36 G	16056950.70	16056950.90	16056951.13	0.0135	0.0064	
Earth	39250-05-03 10:34 G	16056950.73	16056950.94	16056951.18	0.0135	0.0065	*
Venus	39250-10-10 23:31 G	16057111.29	16057111.48	16057111.69	0.0135	0.0053	
Earth	39251-05-07 20:24 G	16057320.09	16057320.35	16057320.60	0.0135	0.0005	
Moon	39251-05-07 20:53 G	16057320.11	16057320.37	16057320.64	0.0135	0.0002	*
Venus	39251-05-25 05:46 G	16057337.53	16057337.74	16057337.96	0.0135	0.0027	
Venus	39252-01-06 12:00 G	16057563.78	16057564.00	16057564.22	0.0135	0.0001	
Moon	39252-05-11 04:48 G	16057689.51	16057689.70	16057689.90	0.0136	0.0083	
Earth	39252-05-11 06:00 G	16057689.55	16057689.75	16057689.97	0.0136	0.0076	*
Venus	39252-08-19 18:14 G	16057790.05	16057790.26	16057790.47	0.0136	0.0025	
Venus	39253-04-03 00:29 G	16058016.33	16058016.52	16058016.73	0.0136	0.0052	
Venus	39253-11-15 06:43 G	16058242.62	16058242.78	16058242.97	0.0136	0.0078	
Venus	39254-06-29 13:12 G	16058468.93	16058469.05	16058469.21	0.0136	0.0104	
Venus	39255-02-10 19:55 G	16058695.29	16058695.33	16058695.41	0.0136	0.0131	
Mars	39268-09-09 07:41 G	16063654.60	16063654.82	16063655.08	0.0142	0.0076	
Mercury	39270-01-13 22:48 G	16064146.42	16064146.45	16064146.50	0.0142	0.0135	
Mercury	39270-04-12 02:24 G	16064234.52	16064234.60	16064234.68	0.0143	0.0114	
Mercury	39270-07-09 05:46 G	16064322.65	16064322.74	16064322.84	0.0143	0.0093	
Mercury	39270-10-05 09:22 G	16064410.78	16064410.89	16064411.00	0.0143	0.0072	
Mercury	39271-01-01 12:58 G	16064498.92	16064499.04	16064499.16	0.0143	0.0051	
Mercury	39271-03-30 16:19 G	16064587.06	16064587.18	16064587.31	0.0143	0.0030	
Mercury	39271-06-26 19:55 G	16064675.20	16064675.33	16064675.46	0.0143	0.0009	
Mercury	39271-09-22 23:31 G	16064763.35	16064763.48	16064763.61	0.0143	0.0013	
Mercury	39271-12-20 03:07 G	16064851.50	16064851.63	16064851.76	0.0143	0.0035	
Mercury	39272-03-17 06:43 G	16064939.66	16064939.78	16064939.90	0.0143	0.0057	
Mercury	39272-06-13 10:19 G	16065027.82	16065027.93	16065028.04	0.0143	0.0078	
Mercury	39272-09-09 13:55 G	16065115.99	16065116.08	16065116.18	0.0143	0.0100	

Mercury	39272-12-06 17:31 G	16065204.17	16065204.23	16065204.30	0.0143	0.0123
Venus	39289-10-30 01:55 G	16071375.49	16071375.58	16071375.69	0.0144	0.0128
Venus	39290-06-13 13:26 G	16071601.92	16071602.06	16071602.24	0.0143	0.0097
Moon	39290-11-03 10:19 G	16071744.71	16071744.93	16071745.15	0.0143	0.0065
Earth	39290-11-03 10:34 G	16071744.73	16071744.94	16071745.17	0.0143	0.0072 *
Venus	39291-01-26 01:12 G	16071828.36	16071828.55	16071828.75	0.0143	0.0065
Venus	39291-09-09 12:43 G	16072054.83	16072055.03	16072055.25	0.0143	0.0034
Earth	39291-11-08 09:36 G	16072114.64	16072114.90	16072115.15	0.0143	0.0013
Moon	39291-11-08 10:05 G	16072114.66	16072114.92	16072115.18	0.0143	0.0006 *
Venus	39292-04-23 00:14 G	16072281.29	16072281.51	16072281.73	0.0143	0.0003
Moon	39292-11-12 06:00 G	16072484.59	16072484.75	16072484.93	0.0143	0.0102
Earth	39292-11-12 07:26 G	16072484.64	16072484.81	16072485.01	0.0143	0.0097 *
Venus	39292-12-05 11:17 G	16072507.76	16072507.97	16072508.19	0.0143	0.0028
Venus	39293-07-19 22:05 G	16072734.24	16072734.42	16072734.63	0.0142	0.0060
Venus	39294-03-03 09:07 G	16072960.72	16072960.88	16072961.06	0.0142	0.0090
Venus	39294-10-15 19:55 G	16073187.22	16073187.33	16073187.45	0.0142	0.0120
Mercury	39310-11-16 18:29 G	16079062.19	16079062.27	16079062.36	0.0136	0.0122
Mercury	39311-02-13 01:55 G	16079150.45	16079150.58	16079150.72	0.0136	0.0095
Mercury	39311-05-12 09:22 G	16079238.72	16079238.89	16079239.06	0.0135	0.0068
Mercury	39311-08-08 16:34 G	16079327.01	16079327.19	16079327.38	0.0135	0.0041
Mercury	39311-11-04 23:46 G	16079415.31	16079415.49	16079415.69	0.0135	0.0015
Mercury	39312-02-01 07:12 G	16079503.61	16079503.80	16079503.99	0.0135	0.0012
Mercury	39312-04-29 14:10 G	16079591.91	16079592.09	16079592.28	0.0135	0.0038
Mercury	39312-07-26 21:22 G	16079680.23	16079680.39	16079680.56	0.0135	0.0064
Mercury	39312-10-23 04:19 G	16079768.55	16079768.68	16079768.83	0.0135	0.0090
Mercury	39313-01-19 11:17 G	16079856.89	16079856.97	16079857.08	0.0135	0.0116
Venus	39333-03-15 20:24 G	16087217.24	16087217.35	16087217.46	0.0135	0.0114
Earth	39333-04-30 10:19 G	16087262.88	16087262.93	16087262.97	0.0135	0.0132
Moon	39333-04-30 09:50 G	16087262.91	16087262.91	16087262.93	0.0135	0.0135 *
Venus	39333-10-28 01:55 G	16087443.43	16087443.58	16087443.75	0.0135	0.0089

Earth	39334-05-04 18:58 G	16087632.07	16087632.29	16087632.52	0.0135	0.0063
Moon	39334-05-04 19:12 G	16087632.09	16087632.30	16087632.52	0.0135	0.0063 *
Venus	39334-06-11 07:41 G	16087669.65	16087669.82	16087670.03	0.0135	0.0064
Venus	39335-01-23 13:55 G	16087895.88	16087896.08	16087896.30	0.0135	0.0038
Earth	39335-05-09 04:19 G	16088001.43	16088001.68	16088001.94	0.0135	0.0007
Moon	39335-05-09 04:48 G	16088001.44	16088001.70	16088001.96	0.0135	0.0011 *
Venus	39335-09-06 20:10 G	16088122.13	16088122.34	16088122.56	0.0135	0.0012
Venus	39336-04-20 02:24 G	16088348.38	16088348.60	16088348.82	0.0135	0.0014
Moon	39336-05-12 14:10 G	16088370.88	16088371.09	16088371.29	0.0135	0.0073
Earth	39336-05-12 13:55 G	16088370.88	16088371.08	16088371.30	0.0135	0.0078 *
Venus	39336-12-02 08:24 G	16088574.65	16088574.85	16088575.07	0.0136	0.0041
Venus	39337-07-16 14:38 G	16088800.93	16088801.11	16088801.31	0.0136	0.0067
Venus	39338-02-27 21:07 G	16089027.24	16089027.38	16089027.55	0.0136	0.0093
Venus	39338-10-12 03:36 G	16089253.57	16089253.65	16089253.77	0.0136	0.0120
Mercury	39354-02-04 05:31 G	16094847.69	16094847.73	16094847.78	0.0142	0.0132
Mercury	39354-05-03 09:07 G	16094935.80	16094935.88	16094935.96	0.0143	0.0111
Mercury	39354-07-30 12:29 G	16095023.93	16095024.02	16095024.13	0.0143	0.0091
Mercury	39354-10-26 16:05 G	16095112.06	16095112.17	16095112.29	0.0143	0.0069
Mercury	39355-01-22 19:41 G	16095200.19	16095200.32	16095200.44	0.0143	0.0048
Mercury	39355-04-20 23:17 G	16095288.34	16095288.47	16095288.60	0.0143	0.0027
Mercury	39355-07-18 02:38 G	16095376.48	16095376.61	16095376.75	0.0143	0.0007
Mercury	39355-10-14 06:14 G	16095464.63	16095464.76	16095464.89	0.0143	0.0016
Mercury	39356-01-10 09:50 G	16095552.78	16095552.91	16095553.04	0.0143	0.0038
Mercury	39356-04-07 13:26 G	16095640.94	16095641.06	16095641.18	0.0143	0.0060
Mercury	39356-07-04 17:02 G	16095729.11	16095729.21	16095729.32	0.0143	0.0082
Mercury	39356-09-30 20:38 G	16095817.27	16095817.36	16095817.46	0.0143	0.0104
Mercury	39356-12-28 00:14 G	16095905.46	16095905.51	16095905.58	0.0143	0.0126
Venus	39373-06-30 07:12 G	16101933.78	16101933.80	16101933.86	0.0144	0.0141
Venus	39374-02-11 18:58 G	16102160.17	16102160.29	16102160.45	0.0144	0.0110
Venus	39374-09-26 06:43 G	16102386.61	16102386.78	16102386.98	0.0143	0.0079

Earth	39374-11-04 19:12 G	16102426.09	16102426.30	16102426.53	0.0143	0.0069
Moon	39374-11-04 20:10 G	16102426.14	16102426.34	16102426.56	0.0143	0.0075 *
Venus	39375-05-10 18:29 G	16102613.07	16102613.27	16102613.48	0.0143	0.0047
Earth	39375-11-09 18:14 G	16102796.01	16102796.26	16102796.52	0.0143	0.0016
Moon	39375-11-09 18:29 G	16102796.02	16102796.27	16102796.54	0.0143	0.0024 *
Venus	39375-12-23 05:46 G	16102839.53	16102839.74	16102839.97	0.0143	0.0017
Venus	39376-08-05 17:17 G	16103066.00	16103066.22	16103066.44	0.0143	0.0015
Moon	39376-11-13 15:50 G	16103165.99	16103166.16	16103166.35	0.0143	0.0094
Earth	39376-11-13 16:34 G	16103166.01	16103166.19	16103166.37	0.0143	0.0100 *
Venus	39377-03-20 04:19 G	16103292.48	16103292.68	16103292.89	0.0143	0.0046
Venus	39377-11-01 15:22 G	16103518.96	16103519.14	16103519.33	0.0142	0.0077
Venus	39378-06-16 01:55 G	16103745.45	16103745.58	16103745.74	0.0142	0.0107
Venus	39379-01-28 12:43 G	16103971.98	16103972.03	16103972.09	0.0142	0.0136
Mars	39391-11-23 06:29 G	16108653.52	16108653.77	16108654.04	0.0137	0.0088
Mercury	39394-12-07 00:58 G	16109763.46	16109763.54	16109763.65	0.0136	0.0117
Mercury	39395-03-05 08:24 G	16109851.72	16109851.85	16109852.01	0.0136	0.0090
Mercury	39395-06-01 16:05 G	16109940.00	16109940.17	16109940.34	0.0135	0.0063
Mercury	39395-08-28 23:17 G	16110028.29	16110028.47	16110028.66	0.0135	0.0036
Mercury	39395-11-25 06:43 G	16110116.59	16110116.78	16110116.97	0.0135	0.0009
Mercury	39396-02-21 13:55 G	16110204.89	16110205.08	16110205.27	0.0135	0.0017
Mercury	39396-05-19 21:07 G	16110293.20	16110293.38	16110293.56	0.0135	0.0043
Mercury	39396-08-16 04:05 G	16110381.51	16110381.67	16110381.84	0.0135	0.0069
Mercury	39396-11-12 11:17 G	16110469.84	16110469.97	16110470.11	0.0135	0.0095
Mercury	39397-02-08 18:14 G	16110558.19	16110558.26	16110558.35	0.0135	0.0121
Venus	39416-11-14 04:05 G	16117775.61	16117775.67	16117775.77	0.0134	0.0125
Moon	39417-05-01 16:05 G	16117944.11	16117944.17	16117944.29	0.0134	0.0127
Earth	39417-05-01 17:31 G	16117944.19	16117944.23	16117944.31	0.0134	0.0131 *
Venus	39417-06-28 09:50 G	16118001.78	16118001.91	16118002.07	0.0135	0.0100
Venus	39418-02-09 16:05 G	16118227.99	16118228.17	16118228.36	0.0135	0.0074
Earth	39418-05-06 02:24 G	16118313.38	16118313.60	16118313.83	0.0135	0.0061

Moon	39418-05-06 03:07 G	16118313.41	16118313.63	16118313.85	0.0135	0.0061	*
Venus	39418-09-23 21:50 G	16118454.22	16118454.41	16118454.62	0.0135	0.0049	
Venus	39419-05-08 03:50 G	16118680.45	16118680.66	16118680.88	0.0135	0.0023	
Moon	39419-05-10 10:48 G	16118682.68	16118682.95	16118683.21	0.0135	0.0007	
Earth	39419-05-10 11:46 G	16118682.74	16118682.99	16118683.24	0.0135	0.0009	*
Venus	39419-12-20 10:05 G	16118906.70	16118906.92	16118907.13	0.0135	0.0003	
Earth	39420-05-13 21:22 G	16119052.19	16119052.39	16119052.60	0.0135	0.0080	
Moon	39420-05-13 21:07 G	16119052.21	16119052.38	16119052.59	0.0135	0.0086	*
Venus	39420-08-02 16:05 G	16119132.96	16119133.17	16119133.39	0.0135	0.0029	
Venus	39421-03-16 22:34 G	16119359.24	16119359.44	16119359.64	0.0136	0.0055	
Venus	39421-10-29 04:48 G	16119585.53	16119585.70	16119585.88	0.0136	0.0081	
Venus	39422-06-12 11:02 G	16119811.84	16119811.96	16119812.11	0.0136	0.0107	
Venus	39423-01-24 17:31 G	16120038.21	16120038.23	16120038.29	0.0136	0.0134	
Mars	39436-01-29 18:29 G	16124791.00	16124791.27	16124791.54	0.0142	0.0037	
Mercury	39438-02-25 12:14 G	16125548.96	16125549.01	16125549.06	0.0142	0.0131	
Mercury	39438-05-24 15:36 G	16125637.07	16125637.15	16125637.24	0.0143	0.0110	
Mercury	39438-08-20 19:12 G	16125725.20	16125725.30	16125725.40	0.0143	0.0089	
Mercury	39438-11-16 22:34 G	16125813.33	16125813.44	16125813.56	0.0143	0.0068	
Mercury	39439-02-13 02:10 G	16125901.47	16125901.59	16125901.72	0.0143	0.0047	
Mercury	39439-05-12 05:46 G	16125989.61	16125989.74	16125989.87	0.0143	0.0025	
Mercury	39439-08-08 09:22 G	16126077.76	16126077.89	16126078.02	0.0143	0.0004	
Mercury	39439-11-04 12:58 G	16126165.91	16126166.04	16126166.17	0.0143	0.0018	
Mercury	39440-01-31 16:19 G	16126254.06	16126254.18	16126254.31	0.0143	0.0040	
Mercury	39440-04-28 19:55 G	16126342.22	16126342.33	16126342.46	0.0143	0.0062	
Mercury	39440-07-25 23:31 G	16126430.38	16126430.48	16126430.59	0.0143	0.0083	
Mercury	39440-10-22 03:07 G	16126518.55	16126518.63	16126518.73	0.0143	0.0106	
Mercury	39441-01-18 06:58 G	16126606.73	16126606.79	16126606.85	0.0143	0.0127	
Venus	39457-10-12 23:02 G	16132718.36	16132718.46	16132718.58	0.0144	0.0124	
Venus	39458-05-27 10:34 G	16132944.79	16132944.94	16132945.12	0.0144	0.0093	
Earth	39458-11-06 01:12 G	16133107.34	16133107.55	16133107.79	0.0143	0.0069	

Moon	39458-11-06 02:24 G	16133107.39	16133107.60	16133107.83	0.0143	0.0063 *
Venus	39459-01-08 22:19 G	16133171.24	16133171.43	16133171.63	0.0143	0.0061
Venus	39459-08-23 10:05 G	16133397.71	16133397.92	16133398.13	0.0143	0.0030
Moon	39459-11-10 23:17 G	16133477.21	16133477.47	16133477.73	0.0143	0.0009
Earth	39459-11-11 00:14 G	16133477.26	16133477.51	16133477.77	0.0143	0.0017 *
Venus	39460-04-05 21:22 G	16133624.17	16133624.39	16133624.61	0.0143	0.0003
Earth	39460-11-14 22:19 G	16133847.26	16133847.43	16133847.62	0.0143	0.0101
Moon	39460-11-14 22:19 G	16133847.28	16133847.43	16133847.61	0.0143	0.0107 *
Venus	39460-11-18 08:38 G	16133850.65	16133850.86	16133851.07	0.0143	0.0032
Venus	39461-07-02 19:26 G	16134077.12	16134077.31	16134077.51	0.0143	0.0063
Venus	39462-02-14 06:14 G	16134303.61	16134303.76	16134303.94	0.0142	0.0093
Venus	39462-09-28 17:02 G	16134530.12	16134530.21	16134530.34	0.0142	0.0123
Mars	39476-07-19 22:48 G	16139573.16	16139573.45	16139573.77	0.0136	0.0063
Mercury	39478-12-28 07:41 G	16140464.72	16140464.82	16140464.93	0.0136	0.0112
Mercury	39479-03-26 14:53 G	16140552.98	16140553.12	16140553.28	0.0136	0.0085
Mercury	39479-06-22 22:19 G	16140641.26	16140641.43	16140641.61	0.0135	0.0058
Mercury	39479-09-19 05:46 G	16140729.55	16140729.74	16140729.93	0.0135	0.0032
Mercury	39479-12-16 13:12 G	16140817.85	16140818.05	16140818.24	0.0135	0.0006
Mercury	39480-03-13 20:24 G	16140906.16	16140906.35	16140906.54	0.0135	0.0022
Mercury	39480-06-10 03:22 G	16140994.47	16140994.64	16140994.83	0.0135	0.0048
Mercury	39480-09-06 10:34 G	16141082.79	16141082.94	16141083.11	0.0135	0.0074
Mercury	39480-12-03 17:31 G	16141171.12	16141171.23	16141171.37	0.0135	0.0100
Mercury	39481-03-02 00:58 G	16141259.47	16141259.54	16141259.61	0.0135	0.0125
Venus	39500-07-15 13:12 G	16148334.05	16148334.05	16148334.07	0.0134	0.0134
Venus	39501-02-26 18:58 G	16148560.18	16148560.29	16148560.42	0.0134	0.0109
Moon	39501-05-03 00:43 G	16148625.49	16148625.53	16148625.59	0.0134	0.0132
Earth	39501-05-03 02:24 G	16148625.53	16148625.60	16148625.68	0.0134	0.0128 *
Venus	39501-10-11 00:29 G	16148786.37	16148786.52	16148786.71	0.0135	0.0085
Earth	39502-05-07 11:02 G	16148994.74	16148994.96	16148995.20	0.0135	0.0059
Moon	39502-05-07 12:43 G	16148994.82	16148995.03	16148995.26	0.0135	0.0057 *

Venus	39502-05-25 06:29 G	16149012.59	16149012.77	16149012.98	0.0135	0.0059
Venus	39503-01-06 12:29 G	16149238.81	16149239.02	16149239.24	0.0135	0.0034
Moon	39503-05-11 19:12 G	16149364.04	16149364.30	16149364.56	0.0135	0.0013
Earth	39503-05-11 20:24 G	16149364.09	16149364.35	16149364.60	0.0135	0.0011 *
Venus	39503-08-20 18:29 G	16149465.06	16149465.27	16149465.49	0.0135	0.0008
Venus	39504-04-03 00:43 G	16149691.32	16149691.53	16149691.75	0.0135	0.0018
Earth	39504-05-15 05:31 G	16149733.54	16149733.73	16149733.94	0.0135	0.0082
Moon	39504-05-15 06:43 G	16149733.60	16149733.78	16149734.00	0.0135	0.0079 *
Venus	39504-11-15 06:43 G	16149917.58	16149917.78	16149917.99	0.0135	0.0044
Venus	39505-06-29 12:58 G	16150143.86	16150144.04	16150144.24	0.0136	0.0070
Venus	39506-02-10 19:41 G	16150370.17	16150370.32	16150370.47	0.0136	0.0096
Venus	39506-09-25 02:10 G	16150596.50	16150596.59	16150596.68	0.0136	0.0122
Mars	39520-09-24 02:24 G	16155709.41	16155709.60	16155709.82	0.0142	0.0097
Mercury	39522-03-18 18:58 G	16156250.24	16156250.29	16156250.35	0.0142	0.0128
Mercury	39522-06-14 22:19 G	16156338.35	16156338.43	16156338.52	0.0142	0.0107
Mercury	39522-09-11 01:55 G	16156426.48	16156426.58	16156426.69	0.0143	0.0086
Mercury	39522-12-08 05:31 G	16156514.61	16156514.73	16156514.85	0.0143	0.0065
Mercury	39523-03-06 08:53 G	16156602.75	16156602.87	16156603.00	0.0143	0.0044
Mercury	39523-06-02 12:29 G	16156690.89	16156691.02	16156691.15	0.0143	0.0023
Mercury	39523-08-29 16:05 G	16156779.04	16156779.17	16156779.30	0.0143	0.0001
Mercury	39523-11-25 19:41 G	16156867.19	16156867.32	16156867.45	0.0143	0.0021
Mercury	39524-02-21 23:17 G	16156955.34	16156955.47	16156955.60	0.0143	0.0042
Mercury	39524-05-20 02:38 G	16157043.50	16157043.61	16157043.74	0.0143	0.0065
Mercury	39524-08-16 06:14 G	16157131.66	16157131.76	16157131.87	0.0143	0.0086
Mercury	39524-11-12 09:50 G	16157219.83	16157219.91	16157220.01	0.0143	0.0108
Mercury	39525-02-08 13:26 G	16157308.02	16157308.06	16157308.13	0.0143	0.0131
Venus	39541-06-13 02:38 G	16163276.57	16163276.61	16163276.69	0.0144	0.0138
Venus	39542-01-25 14:24 G	16163502.97	16163503.10	16163503.26	0.0144	0.0107
Venus	39542-09-09 02:24 G	16163729.42	16163729.60	16163729.79	0.0144	0.0075
Earth	39542-11-07 07:26 G	16163788.59	16163788.81	16163789.03	0.0143	0.0068

Moon	39542-11-07 09:36 G	16163788.70	16163788.90	16163789.12	0.0143	0.0072 *
Venus	39543-04-23 13:55 G	16163955.88	16163956.08	16163956.29	0.0143	0.0044
Moon	39543-11-12 04:48 G	16164158.45	16164158.70	16164158.97	0.0143	0.0024
Earth	39543-11-12 06:14 G	16164158.51	16164158.76	16164159.02	0.0143	0.0018 *
Venus	39543-12-06 01:26 G	16164182.34	16164182.56	16164182.78	0.0143	0.0013
Venus	39544-07-19 12:43 G	16164408.81	16164409.03	16164409.25	0.0143	0.0018
Earth	39544-11-16 04:34 G	16164528.52	16164528.69	16164528.87	0.0143	0.0101
Moon	39544-11-16 05:46 G	16164528.56	16164528.74	16164528.93	0.0143	0.0094 *
Venus	39545-03-02 23:46 G	16164635.29	16164635.49	16164635.70	0.0143	0.0049
Venus	39545-10-15 10:34 G	16164861.77	16164861.94	16164862.14	0.0143	0.0080
Venus	39546-05-29 21:22 G	16165088.27	16165088.39	16165088.54	0.0142	0.0110
Venus	39547-01-11 07:55 G	16165314.81	16165314.83	16165314.90	0.0142	0.0140
Mercury	39563-01-18 13:41 G	16171165.96	16171166.07	16171166.19	0.0136	0.0109
Mercury	39563-04-16 21:07 G	16171254.23	16171254.38	16171254.54	0.0136	0.0082
Mercury	39563-07-14 04:34 G	16171342.52	16171342.69	16171342.87	0.0135	0.0055
Mercury	39563-10-10 11:46 G	16171430.81	16171430.99	16171431.19	0.0135	0.0029
Mercury	39564-01-06 19:12 G	16171519.11	16171519.30	16171519.49	0.0135	0.0002
Mercury	39564-04-04 02:24 G	16171607.42	16171607.60	16171607.79	0.0135	0.0025
Mercury	39564-07-01 09:36 G	16171695.73	16171695.90	16171696.08	0.0135	0.0051
Mercury	39564-09-27 16:48 G	16171784.05	16171784.20	16171784.36	0.0135	0.0077
Mercury	39564-12-25 00:00 G	16171872.38	16171872.50	16171872.62	0.0135	0.0103
Mercury	39565-03-23 06:58 G	16171960.74	16171960.79	16171960.85	0.0135	0.0129
Venus	39584-10-27 03:22 G	16179118.56	16179118.64	16179118.76	0.0134	0.0120
Moon	39585-05-03 07:55 G	16179306.74	16179306.83	16179306.97	0.0135	0.0121
Earth	39585-05-03 10:19 G	16179306.87	16179306.93	16179307.04	0.0135	0.0127 *
Venus	39585-06-10 09:07 G	16179344.74	16179344.88	16179345.05	0.0135	0.0095
Venus	39586-01-22 15:07 G	16179570.95	16179571.13	16179571.32	0.0135	0.0069
Earth	39586-05-07 19:12 G	16179676.08	16179676.30	16179676.55	0.0135	0.0057
Moon	39586-05-07 21:07 G	16179676.17	16179676.38	16179676.62	0.0135	0.0059 *
Venus	39586-09-05 20:53 G	16179797.18	16179797.37	16179797.59	0.0135	0.0044

Venus	39587-04-20 03:07 G	16180023.42	16180023.63	16180023.85	0.0135	0.0018
Moon	39587-05-12 02:10 G	16180045.34	16180045.59	16180045.86	0.0135	0.0014
Earth	39587-05-12 04:34 G	16180045.44	16180045.69	16180045.95	0.0135	0.0014 *
Venus	39587-12-02 09:07 G	16180249.67	16180249.88	16180250.10	0.0135	0.0008
Earth	39588-05-15 13:55 G	16180414.90	16180415.08	16180415.29	0.0135	0.0085
Moon	39588-05-15 15:36 G	16180414.98	16180415.15	16180415.35	0.0135	0.0089 *
Venus	39588-07-15 15:22 G	16180475.93	16180476.14	16180476.35	0.0135	0.0034
Venus	39589-02-26 21:36 G	16180702.21	16180702.40	16180702.60	0.0136	0.0060
Venus	39589-10-11 03:50 G	16180928.50	16180928.66	16180928.84	0.0136	0.0086
Venus	39590-05-25 10:19 G	16181154.82	16181154.93	16181155.06	0.0136	0.0112
Mars	39603-06-19 10:48 G	16185927.95	16185927.95	16185927.95	0.0141	0.0141
Mercury	39606-04-08 02:10 G	16186951.53	16186951.59	16186951.66	0.0142	0.0123
Mercury	39606-07-05 05:31 G	16187039.65	16187039.73	16187039.83	0.0142	0.0103
Mercury	39606-10-01 09:07 G	16187127.78	16187127.88	16187127.99	0.0143	0.0081
Mercury	39606-12-28 12:43 G	16187215.91	16187216.03	16187216.15	0.0143	0.0060
Mercury	39607-03-26 16:19 G	16187304.05	16187304.18	16187304.30	0.0143	0.0039
Mercury	39607-06-22 19:41 G	16187392.19	16187392.32	16187392.46	0.0143	0.0018
Mercury	39607-09-18 23:17 G	16187480.34	16187480.47	16187480.60	0.0143	0.0004
Mercury	39607-12-16 02:53 G	16187568.49	16187568.62	16187568.75	0.0143	0.0025
Mercury	39608-03-13 06:29 G	16187656.64	16187656.77	16187656.89	0.0143	0.0047
Mercury	39608-06-09 10:05 G	16187744.80	16187744.92	16187745.04	0.0143	0.0069
Mercury	39608-09-05 13:26 G	16187832.97	16187833.06	16187833.17	0.0143	0.0091
Mercury	39608-12-02 17:02 G	16187921.14	16187921.21	16187921.30	0.0143	0.0113
Mercury	39609-02-28 20:38 G	16188009.33	16188009.36	16188009.42	0.0143	0.0136
Venus	39625-09-24 19:41 G	16194061.22	16194061.32	16194061.46	0.0144	0.0120
Venus	39626-05-09 07:26 G	16194287.66	16194287.81	16194288.00	0.0144	0.0089
Earth	39626-11-07 15:36 G	16194469.93	16194470.15	16194470.39	0.0143	0.0066
Moon	39626-11-07 18:00 G	16194470.04	16194470.25	16194470.49	0.0143	0.0062 *
Venus	39626-12-21 19:12 G	16194514.11	16194514.30	16194514.51	0.0143	0.0057
Venus	39627-08-05 06:43 G	16194740.57	16194740.78	16194741.00	0.0143	0.0026

Moon	39627-11-12 12:00 G	16194839.74	16194840.00	16194840.26	0.0143	0.0012
Earth	39627-11-12 14:38 G	16194839.86	16194840.11	16194840.36	0.0143	0.0019 *
Venus	39628-03-18 18:14 G	16194967.04	16194967.26	16194967.48	0.0143	0.0005
Venus	39628-10-31 05:17 G	16195193.51	16195193.72	16195193.94	0.0143	0.0036
Earth	39628-11-16 12:43 G	16195209.86	16195210.03	16195210.21	0.0143	0.0103
Moon	39628-11-16 14:10 G	16195209.95	16195210.09	16195210.26	0.0143	0.0110 *
Venus	39629-06-14 16:05 G	16195419.99	16195420.17	16195420.38	0.0143	0.0067
Venus	39630-01-27 03:07 G	16195646.48	16195646.63	16195646.80	0.0142	0.0097
Venus	39630-09-10 14:10 G	16195873.00	16195873.09	16195873.19	0.0142	0.0126
Mars	39643-12-05 20:10 G	16200707.04	16200707.34	16200707.65	0.0137	0.0059
Mercury	39646-11-11 12:29 G	16201778.99	16201779.02	16201779.08	0.0136	0.0132
Mercury	39647-02-07 19:55 G	16201867.22	16201867.33	16201867.47	0.0136	0.0105
Mercury	39647-05-07 03:22 G	16201955.50	16201955.64	16201955.81	0.0136	0.0078
Mercury	39647-08-03 10:48 G	16202043.78	16202043.95	16202044.14	0.0135	0.0051
Mercury	39647-10-30 18:29 G	16202132.08	16202132.27	16202132.46	0.0135	0.0023
Mercury	39648-01-27 01:41 G	16202220.38	16202220.57	16202220.76	0.0135	0.0004
Mercury	39648-04-24 08:53 G	16202308.69	16202308.87	16202309.06	0.0135	0.0030
Mercury	39648-07-21 16:05 G	16202397.00	16202397.17	16202397.35	0.0135	0.0056
Mercury	39648-10-17 23:17 G	16202485.33	16202485.47	16202485.63	0.0135	0.0082
Mercury	39649-01-14 06:29 G	16202573.66	16202573.77	16202573.89	0.0135	0.0108
Mercury	39649-04-12 13:26 G	16202662.05	16202662.06	16202662.09	0.0135	0.0134
Venus	39668-06-26 12:43 G	16209676.98	16209677.03	16209677.10	0.0134	0.0129
Venus	39669-02-07 18:29 G	16209903.15	16209903.27	16209903.42	0.0135	0.0104
Moon	39669-05-03 17:17 G	16209988.16	16209988.22	16209988.31	0.0135	0.0129
Earth	39669-05-03 19:55 G	16209988.25	16209988.33	16209988.45	0.0135	0.0124 *
Venus	39669-09-22 00:14 G	16210129.35	16210129.51	16210129.70	0.0135	0.0079
Venus	39670-05-06 06:29 G	16210355.57	16210355.77	16210355.97	0.0135	0.0053
Earth	39670-05-08 05:02 G	16210357.48	16210357.71	16210357.95	0.0135	0.0054
Moon	39670-05-08 07:41 G	16210357.60	16210357.82	16210358.06	0.0135	0.0051 *
Venus	39670-12-18 12:14 G	16210581.80	16210582.01	16210582.23	0.0135	0.0028

Moon	39671-05-12 12:00 G	16210726.74	16210727.00	16210727.25	0.0135	0.0017
Earth	39671-05-12 14:24 G	16210726.85	16210727.10	16210727.35	0.0135	0.0016 *
Venus	39671-08-01 18:14 G	16210808.05	16210808.26	16210808.48	0.0135	0.0003
Venus	39672-03-15 00:29 G	16211034.31	16211034.52	16211034.74	0.0135	0.0024
Earth	39672-05-15 23:17 G	16211096.30	16211096.47	16211096.69	0.0135	0.0088
Moon	39672-05-16 02:10 G	16211096.41	16211096.59	16211096.80	0.0135	0.0084 *
Venus	39672-10-27 06:58 G	16211260.59	16211260.79	16211260.99	0.0136	0.0050
Venus	39673-06-10 12:58 G	16211486.87	16211487.04	16211487.23	0.0136	0.0076
Venus	39674-01-22 19:26 G	16211713.18	16211713.31	16211713.46	0.0136	0.0102
Venus	39674-09-06 02:10 G	16211939.53	16211939.59	16211939.67	0.0136	0.0128
Mars	39688-02-12 00:14 G	16216846.23	16216846.51	16216846.79	0.0142	0.0003
Mercury	39690-01-30 06:00 G	16217564.73	16217564.75	16217564.79	0.0142	0.0138
Mercury	39690-04-28 09:36 G	16217652.83	16217652.90	16217652.98	0.0142	0.0117
Mercury	39690-07-25 12:58 G	16217740.96	16217741.04	16217741.15	0.0142	0.0097
Mercury	39690-10-21 16:34 G	16217829.08	16217829.19	16217829.31	0.0143	0.0075
Mercury	39691-01-17 20:10 G	16217917.22	16217917.34	16217917.46	0.0143	0.0054
Mercury	39691-04-15 23:46 G	16218005.36	16218005.49	16218005.62	0.0143	0.0033
Mercury	39691-07-13 03:22 G	16218093.50	16218093.64	16218093.77	0.0143	0.0012
Mercury	39691-10-09 06:43 G	16218181.65	16218181.78	16218181.92	0.0143	0.0011
Mercury	39692-01-05 10:19 G	16218269.80	16218269.93	16218270.06	0.0143	0.0032
Mercury	39692-04-02 13:55 G	16218357.96	16218358.08	16218358.20	0.0143	0.0053
Mercury	39692-06-29 17:31 G	16218446.12	16218446.23	16218446.34	0.0143	0.0075
Mercury	39692-09-25 21:07 G	16218534.29	16218534.38	16218534.48	0.0143	0.0097
Mercury	39692-12-23 00:43 G	16218622.46	16218622.53	16218622.61	0.0143	0.0119
Mercury	39693-03-21 04:19 G	16218710.67	16218710.68	16218710.70	0.0143	0.0141
Venus	39709-05-26 02:53 G	16224619.54	16224619.62	16224619.72	0.0144	0.0131
Venus	39710-01-07 14:38 G	16224845.96	16224846.11	16224846.27	0.0144	0.0100
Venus	39710-08-22 02:24 G	16225072.41	16225072.60	16225072.80	0.0144	0.0069
Earth	39710-11-09 02:24 G	16225151.39	16225151.60	16225151.84	0.0143	0.0063
Moon	39710-11-09 05:46 G	16225151.53	16225151.74	16225151.98	0.0143	0.0066 *

Venus	39711-04-05 13:55 G	16225298.87	16225299.08	16225299.29	0.0143	0.0038
Moon	39711-11-13 22:48 G	16225521.20	16225521.45	16225521.71	0.0143	0.0029
Earth	39711-11-14 01:26 G	16225521.32	16225521.56	16225521.82	0.0143	0.0023 *
Venus	39711-11-18 01:12 G	16225525.33	16225525.55	16225525.77	0.0143	0.0007
Venus	39712-07-01 12:29 G	16225751.80	16225752.02	16225752.23	0.0143	0.0024
Earth	39712-11-17 23:31 G	16225891.32	16225891.48	16225891.66	0.0143	0.0107
Moon	39712-11-18 02:10 G	16225891.41	16225891.59	16225891.77	0.0143	0.0099 *
Venus	39713-02-12 23:17 G	16225978.28	16225978.47	16225978.68	0.0143	0.0055
Venus	39713-09-27 10:19 G	16226204.77	16226204.93	16226205.12	0.0143	0.0086
Venus	39714-05-11 21:07 G	16226431.27	16226431.38	16226431.52	0.0142	0.0116
Mars	39728-08-01 18:14 G	16231627.03	16231627.26	16231627.51	0.0136	0.0097
Mercury	39730-12-02 19:26 G	16232480.25	16232480.31	16232480.40	0.0136	0.0126
Mercury	39731-03-01 02:53 G	16232568.50	16232568.62	16232568.77	0.0136	0.0099
Mercury	39731-05-28 10:19 G	16232656.78	16232656.93	16232657.11	0.0135	0.0072
Mercury	39731-08-24 17:46 G	16232745.07	16232745.24	16232745.43	0.0135	0.0045
Mercury	39731-11-21 01:26 G	16232833.37	16232833.56	16232833.75	0.0135	0.0017
Mercury	39732-02-17 08:38 G	16232921.67	16232921.86	16232922.05	0.0135	0.0009
Mercury	39732-05-15 15:50 G	16233009.98	16233010.16	16233010.35	0.0135	0.0036
Mercury	39732-08-11 23:02 G	16233098.29	16233098.46	16233098.63	0.0135	0.0062
Mercury	39732-11-08 06:14 G	16233186.62	16233186.76	16233186.91	0.0135	0.0088
Mercury	39733-02-04 13:12 G	16233274.96	16233275.05	16233275.16	0.0135	0.0114
Venus	39752-10-09 03:22 G	16240461.54	16240461.64	16240461.77	0.0135	0.0114
Moon	39753-05-05 01:55 G	16240669.46	16240669.58	16240669.72	0.0135	0.0115
Earth	39753-05-05 05:02 G	16240669.62	16240669.71	16240669.84	0.0135	0.0122 *
Venus	39753-05-23 09:07 G	16240687.73	16240687.88	16240688.06	0.0135	0.0089
Venus	39754-01-04 15:07 G	16240913.95	16240914.13	16240914.33	0.0135	0.0063
Earth	39754-05-09 13:55 G	16241038.85	16241039.08	16241039.32	0.0135	0.0052
Moon	39754-05-09 16:48 G	16241038.98	16241039.20	16241039.44	0.0135	0.0055 *
Venus	39754-08-18 21:07 G	16241140.17	16241140.38	16241140.59	0.0135	0.0038
Venus	39755-04-02 03:22 G	16241366.42	16241366.64	16241366.85	0.0135	0.0012

Moon	39755-05-13 19:55 G	16241408.07	16241408.33	16241408.58	0.0135	0.0020
Earth	39755-05-13 23:17 G	16241408.22	16241408.47	16241408.72	0.0135	0.0018 *
Venus	39755-11-14 09:22 G	16241592.68	16241592.89	16241593.11	0.0135	0.0014
Earth	39756-05-17 08:38 G	16241777.68	16241777.86	16241778.06	0.0135	0.0090
Moon	39756-05-17 11:17 G	16241777.81	16241777.97	16241778.17	0.0135	0.0093 *
Venus	39756-06-27 15:36 G	16241818.94	16241819.15	16241819.36	0.0135	0.0040
Venus	39757-02-08 21:50 G	16242045.23	16242045.41	16242045.61	0.0136	0.0066
Venus	39757-09-23 04:19 G	16242271.53	16242271.68	16242271.85	0.0136	0.0092
Venus	39758-05-07 10:48 G	16242497.86	16242497.95	16242498.07	0.0136	0.0118
Mars	39772-10-07 14:24 G	16247765.06	16247765.10	16247765.16	0.0142	0.0139
Mercury	39774-02-20 13:26 G	16248266.02	16248266.06	16248266.12	0.0142	0.0133
Mercury	39774-05-19 17:02 G	16248354.13	16248354.21	16248354.29	0.0143	0.0112
Mercury	39774-08-15 20:24 G	16248442.26	16248442.35	16248442.46	0.0143	0.0091
Mercury	39774-11-12 00:00 G	16248530.39	16248530.50	16248530.62	0.0143	0.0070
Mercury	39775-02-08 03:36 G	16248618.53	16248618.65	16248618.78	0.0143	0.0048
Mercury	39775-05-07 07:12 G	16248706.67	16248706.80	16248706.93	0.0143	0.0027
Mercury	39775-08-03 10:48 G	16248794.81	16248794.95	16248795.08	0.0143	0.0007
Mercury	39775-10-30 14:10 G	16248882.96	16248883.09	16248883.23	0.0143	0.0017
Mercury	39776-01-26 17:46 G	16248971.11	16248971.24	16248971.37	0.0143	0.0038
Mercury	39776-04-23 21:22 G	16249059.27	16249059.39	16249059.51	0.0143	0.0060
Mercury	39776-07-21 00:58 G	16249147.43	16249147.54	16249147.65	0.0143	0.0082
Mercury	39776-10-17 04:34 G	16249235.60	16249235.69	16249235.78	0.0143	0.0104
Mercury	39777-01-13 08:10 G	16249323.78	16249323.84	16249323.91	0.0143	0.0126
Venus	39793-01-23 10:48 G	16255177.93	16255177.95	16255178.00	0.0144	0.0142
Venus	39793-09-06 22:48 G	16255404.32	16255404.45	16255404.60	0.0144	0.0111
Moon	39793-11-04 12:00 G	16255462.97	16255463.00	16255463.09	0.0144	0.0140
Earth	39793-11-04 16:05 G	16255463.15	16255463.17	16255463.22	0.0144	0.0142
Venus	39794-04-21 10:34 G	16255630.76	16255630.94	16255631.12	0.0144	0.0080
Earth	39794-11-09 15:36 G	16255832.92	16255833.15	16255833.38	0.0143	0.0057
Moon	39794-11-09 18:29 G	16255833.05	16255833.27	16255833.52	0.0143	0.0054 *

Venus	39794-12-03 22:05 G	16255857.21	16255857.42	16255857.62	0.0143	0.0049
Venus	39795-07-18 09:22 G	16256083.68	16256083.89	16256084.11	0.0143	0.0018
Moon	39795-11-14 10:48 G	16256202.70	16256202.95	16256203.22	0.0143	0.0023
Earth	39795-11-14 14:24 G	16256202.85	16256203.10	16256203.35	0.0143	0.0028 *
Venus	39796-02-29 20:38 G	16256310.15	16256310.36	16256310.58	0.0143	0.0014
Venus	39796-10-13 07:55 G	16256536.62	16256536.83	16256537.04	0.0143	0.0044
Earth	39796-11-18 12:14 G	16256572.87	16256573.01	16256573.18	0.0143	0.0112
Moon	39796-11-18 15:07 G	16256573.00	16256573.13	16256573.27	0.0143	0.0119 *
Venus	39797-05-27 18:43 G	16256763.11	16256763.28	16256763.48	0.0143	0.0075
Venus	39798-01-09 05:46 G	16256989.60	16256989.74	16256989.89	0.0142	0.0105
Venus	39798-08-23 16:48 G	16257216.13	16257216.20	16257216.27	0.0142	0.0134
Mercury	39814-12-24 02:53 G	16263181.54	16263181.62	16263181.73	0.0136	0.0118
Mercury	39815-03-22 10:19 G	16263269.80	16263269.93	16263270.09	0.0135	0.0091
Mercury	39815-06-18 17:46 G	16263358.08	16263358.24	16263358.42	0.0135	0.0064
Mercury	39815-09-15 01:26 G	16263446.37	16263446.56	16263446.75	0.0135	0.0036
Mercury	39815-12-12 08:38 G	16263534.67	16263534.86	16263535.06	0.0135	0.0010
Mercury	39816-03-09 16:05 G	16263622.98	16263623.17	16263623.36	0.0135	0.0017
Mercury	39816-06-05 23:17 G	16263711.29	16263711.47	16263711.65	0.0135	0.0043
Mercury	39816-09-02 06:14 G	16263799.61	16263799.76	16263799.93	0.0135	0.0070
Mercury	39816-11-29 13:26 G	16263887.94	16263888.06	16263888.20	0.0135	0.0096
Mercury	39817-02-25 20:24 G	16263976.29	16263976.35	16263976.45	0.0135	0.0122
Venus	39836-06-09 12:58 G	16271019.96	16271020.04	16271020.13	0.0134	0.0123
Venus	39837-01-21 18:43 G	16271246.13	16271246.28	16271246.43	0.0135	0.0098
Moon	39837-05-06 11:02 G	16271350.88	16271350.96	16271351.07	0.0135	0.0125
Earth	39837-05-06 14:24 G	16271351.00	16271351.10	16271351.24	0.0135	0.0119 *
Venus	39837-09-05 00:29 G	16271472.34	16271472.52	16271472.71	0.0135	0.0073
Venus	39838-04-19 06:14 G	16271698.56	16271698.76	16271698.97	0.0135	0.0048
Earth	39838-05-10 23:17 G	16271720.24	16271720.47	16271720.71	0.0135	0.0049
Moon	39838-05-11 02:53 G	16271720.39	16271720.62	16271720.86	0.0135	0.0044 *
Venus	39838-12-01 12:14 G	16271924.80	16271925.01	16271925.23	0.0135	0.0022

Moon	39839-05-15 05:17 G	16272089.47	16272089.72	16272089.98	0.0135	0.0020
Earth	39839-05-15 08:38 G	16272089.61	16272089.86	16272090.11	0.0135	0.0021 *
Venus	39839-07-15 18:29 G	16272151.05	16272151.27	16272151.48	0.0135	0.0004
Venus	39840-02-27 00:29 G	16272377.32	16272377.52	16272377.74	0.0135	0.0030
Earth	39840-05-18 18:00 G	16272459.08	16272459.25	16272459.45	0.0135	0.0092
Moon	39840-05-18 21:36 G	16272459.22	16272459.40	16272459.59	0.0135	0.0091 *
Venus	39840-10-10 06:58 G	16272603.59	16272603.79	16272603.99	0.0136	0.0056
Venus	39841-05-24 13:12 G	16272829.89	16272830.05	16272830.23	0.0136	0.0082
Venus	39842-01-05 19:41 G	16273056.20	16273056.32	16273056.46	0.0136	0.0108
Venus	39842-08-20 02:10 G	16273282.57	16273282.59	16273282.64	0.0136	0.0135
Mars	39855-07-03 21:07 G	16277983.21	16277983.38	16277983.59	0.0141	0.0103
Mercury	39858-03-13 20:38 G	16278967.31	16278967.36	16278967.42	0.0142	0.0128
Mercury	39858-06-10 00:14 G	16279055.43	16279055.51	16279055.60	0.0143	0.0107
Mercury	39858-09-06 03:36 G	16279143.55	16279143.65	16279143.76	0.0143	0.0086
Mercury	39858-12-03 07:12 G	16279231.69	16279231.80	16279231.92	0.0143	0.0065
Mercury	39859-03-01 10:48 G	16279319.82	16279319.95	16279320.08	0.0143	0.0043
Mercury	39859-05-28 14:24 G	16279407.97	16279408.10	16279408.23	0.0143	0.0022
Mercury	39859-08-24 17:46 G	16279496.11	16279496.24	16279496.38	0.0143	0.0005
Mercury	39859-11-20 21:22 G	16279584.26	16279584.39	16279584.52	0.0143	0.0021
Mercury	39860-02-17 00:58 G	16279672.42	16279672.54	16279672.67	0.0143	0.0043
Mercury	39860-05-15 04:34 G	16279760.57	16279760.69	16279760.81	0.0143	0.0065
Mercury	39860-08-11 08:10 G	16279848.74	16279848.84	16279848.95	0.0143	0.0087
Mercury	39860-11-07 11:46 G	16279936.91	16279936.99	16279937.08	0.0143	0.0109
Mercury	39861-02-03 15:22 G	16280025.09	16280025.14	16280025.20	0.0144	0.0131
Venus	39877-05-08 05:46 G	16285962.64	16285962.74	16285962.87	0.0144	0.0123
Moon	39877-11-06 00:00 G	16286144.45	16286144.50	16286144.57	0.0144	0.0139
Earth	39877-11-06 03:07 G	16286144.59	16286144.63	16286144.73	0.0144	0.0138
Venus	39877-12-20 17:31 G	16286189.07	16286189.23	16286189.41	0.0144	0.0092
Venus	39878-08-04 05:17 G	16286415.53	16286415.72	16286415.93	0.0144	0.0061
Earth	39878-11-11 03:07 G	16286514.39	16286514.63	16286514.87	0.0144	0.0052

Moon	39878-11-11 06:43 G	16286514.55	16286514.78	16286515.02	0.0144	0.0054 *
Venus	39879-03-18 16:48 G	16286641.99	16286642.20	16286642.42	0.0143	0.0030
Venus	39879-10-31 04:19 G	16286868.46	16286868.68	16286868.90	0.0143	0.0002
Moon	39879-11-15 22:34 G	16286884.20	16286884.44	16286884.70	0.0143	0.0039
Earth	39879-11-16 01:55 G	16286884.34	16286884.58	16286884.84	0.0143	0.0034 *
Venus	39880-06-13 15:22 G	16287094.94	16287095.14	16287095.36	0.0143	0.0033
Earth	39880-11-20 00:14 G	16287254.38	16287254.51	16287254.66	0.0143	0.0117
Moon	39880-11-20 03:07 G	16287254.50	16287254.63	16287254.81	0.0143	0.0110 *
Venus	39881-01-26 02:24 G	16287321.42	16287321.60	16287321.81	0.0143	0.0064
Venus	39881-09-09 13:55 G	16287547.92	16287548.08	16287548.25	0.0143	0.0094
Venus	39882-04-24 00:43 G	16287774.43	16287774.53	16287774.65	0.0142	0.0124
Mars	39895-12-19 09:50 G	16292761.57	16292761.91	16292762.25	0.0137	0.0008
Mercury	39899-01-13 10:19 G	16293882.83	16293882.93	16293883.06	0.0135	0.0110
Mercury	39899-04-11 17:46 G	16293971.10	16293971.24	16293971.41	0.0135	0.0083
Mercury	39899-07-09 01:26 G	16294059.39	16294059.56	16294059.74	0.0135	0.0055
Mercury	39899-10-05 08:53 G	16294147.68	16294147.87	16294148.06	0.0135	0.0028
Mercury	39900-01-01 16:05 G	16294235.98	16294236.17	16294236.37	0.0135	0.0004
Mercury	39900-03-30 23:17 G	16294324.29	16294324.47	16294324.67	0.0135	0.0025
Mercury	39900-06-27 06:29 G	16294412.60	16294412.77	16294412.96	0.0135	0.0051
Mercury	39900-09-23 13:41 G	16294500.92	16294501.07	16294501.24	0.0135	0.0077
Mercury	39900-12-20 20:53 G	16294589.26	16294589.37	16294589.50	0.0135	0.0103
Mercury	39901-03-19 03:50 G	16294677.62	16294677.66	16294677.73	0.0135	0.0129
Venus	39920-02-08 21:36 G	16301578.37	16301578.40	16301578.43	0.0134	0.0133
Venus	39920-09-22 02:53 G	16301804.51	16301804.62	16301804.76	0.0134	0.0108
Venus	39921-05-06 08:38 G	16302030.70	16302030.86	16302031.04	0.0134	0.0083
Moon	39921-05-07 18:58 G	16302032.17	16302032.29	16302032.46	0.0134	0.0110
Earth	39921-05-07 22:34 G	16302032.33	16302032.44	16302032.58	0.0134	0.0117 *
Venus	39921-12-18 14:38 G	16302256.92	16302257.11	16302257.31	0.0135	0.0058
Earth	39922-05-12 07:26 G	16302401.58	16302401.81	16302402.05	0.0135	0.0047
Moon	39922-05-12 10:48 G	16302401.73	16302401.95	16302402.19	0.0135	0.0052 *

Venus	39922-08-01 20:24 G	16302483.15	16302483.35	16302483.57	0.0135	0.0033
Venus	39923-03-16 02:38 G	16302709.40	16302709.61	16302709.83	0.0135	0.0007
Moon	39923-05-16 12:43 G	16302770.79	16302771.03	16302771.29	0.0135	0.0027
Earth	39923-05-16 16:34 G	16302770.94	16302771.19	16302771.44	0.0135	0.0023 *
Venus	39923-10-28 08:38 G	16302935.65	16302935.86	16302936.08	0.0135	0.0020
Earth	39924-05-20 01:41 G	16303140.41	16303140.57	16303140.78	0.0135	0.0095
Moon	39924-05-20 05:17 G	16303140.56	16303140.72	16303140.91	0.0135	0.0095 *
Venus	39924-06-10 14:53 G	16303161.92	16303162.12	16303162.33	0.0135	0.0045
Venus	39925-01-22 20:53 G	16303388.20	16303388.37	16303388.57	0.0136	0.0072
Jupiter	39925-03-08 10:48 G	16303432.48	16303432.95	16303433.45	0.0136	0.0035
Venus	39925-09-06 03:36 G	16303614.51	16303614.65	16303614.81	0.0136	0.0097
Venus	39926-04-20 10:19 G	16303840.84	16303840.93	16303841.02	0.0136	0.0123
Mars	39940-02-27 05:46 G	16308901.48	16308901.74	16308902.02	0.0142	0.0032
Mercury	39942-04-04 03:22 G	16309668.59	16309668.64	16309668.71	0.0143	0.0126
Mercury	39942-07-01 06:58 G	16309756.71	16309756.79	16309756.88	0.0143	0.0104
Mercury	39942-09-27 10:19 G	16309844.83	16309844.93	16309845.04	0.0143	0.0084
Mercury	39942-12-24 13:55 G	16309932.97	16309933.08	16309933.20	0.0143	0.0062
Mercury	39943-03-22 17:31 G	16310021.10	16310021.23	16310021.36	0.0143	0.0041
Mercury	39943-06-18 21:07 G	16310109.25	16310109.38	16310109.51	0.0143	0.0020
Mercury	39943-09-15 00:29 G	16310197.39	16310197.52	16310197.66	0.0143	0.0005
Mercury	39943-12-12 04:05 G	16310285.54	16310285.67	16310285.80	0.0143	0.0024
Mercury	39944-03-09 07:41 G	16310373.70	16310373.82	16310373.95	0.0143	0.0045
Mercury	39944-06-05 11:17 G	16310461.85	16310461.97	16310462.09	0.0143	0.0067
Mercury	39944-09-01 14:53 G	16310550.02	16310550.12	16310550.23	0.0143	0.0089
Mercury	39944-11-28 18:29 G	16310638.19	16310638.27	16310638.36	0.0144	0.0111
Mercury	39945-02-24 22:05 G	16310726.38	16310726.42	16310726.47	0.0144	0.0133
Venus	39961-01-06 11:02 G	16316520.91	16316520.96	16316521.05	0.0144	0.0137
Venus	39961-08-20 23:17 G	16316747.33	16316747.47	16316747.62	0.0144	0.0105
Moon	39961-11-07 08:38 G	16316825.77	16316825.86	16316825.98	0.0144	0.0131
Earth	39961-11-07 12:00 G	16316825.94	16316826.00	16316826.11	0.0144	0.0135 *

Venus	39962-04-04 11:02 G	16316973.78	16316973.96	16316974.15	0.0144	0.0074
Earth	39962-11-12 12:14 G	16317195.77	16317196.01	16317196.25	0.0144	0.0049
Moon	39962-11-12 15:36 G	16317195.92	16317196.15	16317196.40	0.0144	0.0047 *
Venus	39962-11-16 22:34 G	16317200.24	16317200.44	16317200.66	0.0144	0.0043
Venus	39963-07-01 10:19 G	16317426.71	16317426.93	16317427.15	0.0143	0.0011
Moon	39963-11-17 07:26 G	16317565.57	16317565.81	16317566.07	0.0143	0.0032
Earth	39963-11-17 11:17 G	16317565.73	16317565.97	16317566.22	0.0143	0.0037 *
Venus	39964-02-12 21:36 G	16317653.19	16317653.40	16317653.62	0.0143	0.0020
Venus	39964-09-26 08:53 G	16317879.68	16317879.87	16317880.09	0.0143	0.0051
Earth	39964-11-21 09:36 G	16317935.78	16317935.90	16317936.05	0.0143	0.0120
Moon	39964-11-21 12:43 G	16317935.94	16317936.03	16317936.16	0.0143	0.0128 *
Venus	39965-05-10 19:55 G	16318106.17	16318106.33	16318106.53	0.0143	0.0082
Venus	39965-12-23 07:12 G	16318332.68	16318332.80	16318332.94	0.0142	0.0112
Venus	39966-08-06 18:14 G	16318559.25	16318559.26	16318559.29	0.0142	0.0141
Mercury	39982-11-07 10:34 G	16324495.88	16324495.94	16324496.00	0.0136	0.0129
Mercury	39983-02-03 18:00 G	16324584.12	16324584.25	16324584.38	0.0135	0.0102
Mercury	39983-05-03 01:26 G	16324672.40	16324672.56	16324672.72	0.0135	0.0075
Mercury	39983-07-30 08:38 G	16324760.69	16324760.86	16324761.05	0.0135	0.0048
Mercury	39983-10-26 16:05 G	16324848.98	16324849.17	16324849.36	0.0135	0.0021
Mercury	39984-01-22 23:31 G	16324937.29	16324937.48	16324937.67	0.0135	0.0006
Mercury	39984-04-20 06:43 G	16325025.59	16325025.78	16325025.97	0.0135	0.0032
Mercury	39984-07-17 13:55 G	16325113.91	16325114.08	16325114.26	0.0135	0.0058
Mercury	39984-10-13 21:07 G	16325202.23	16325202.38	16325202.53	0.0135	0.0084
Mercury	39985-01-10 04:05 G	16325290.57	16325290.67	16325290.79	0.0135	0.0110

41ST MILLENNIUM CE

This is a list of transits visible from Uranus in the 41st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	40004-05-22 12:29	G	16332362.92	16332363.02	16332363.12	0.0134	0.0118	
Venus	40005-01-03 17:46	G	16332589.10	16332589.24	16332589.41	0.0134	0.0093	
Moon	40005-05-08 04:19	G	16332713.59	16332713.68	16332713.81	0.0134	0.0120	
Earth	40005-05-08 07:55	G	16332713.71	16332713.83	16332713.98	0.0134	0.0113	*
Venus	40005-08-17 23:46	G	16332815.31	16332815.49	16332815.68	0.0134	0.0068	
Venus	40006-04-01 05:31	G	16333041.54	16333041.73	16333041.95	0.0135	0.0043	
Earth	40006-05-12 16:34	G	16333082.96	16333083.19	16333083.44	0.0135	0.0044	
Moon	40006-05-12 20:10	G	16333083.10	16333083.34	16333083.59	0.0135	0.0038	*
Venus	40006-11-13 11:46	G	16333267.77	16333267.99	16333268.20	0.0135	0.0017	
Moon	40007-05-16 22:19	G	16333452.18	16333452.43	16333452.68	0.0135	0.0023	
Earth	40007-05-17 01:55	G	16333452.33	16333452.58	16333452.83	0.0135	0.0026	*
Venus	40007-06-27 17:46	G	16333494.02	16333494.24	16333494.45	0.0135	0.0009	
Venus	40008-02-08 23:46	G	16333720.29	16333720.49	16333720.70	0.0135	0.0035	
Earth	40008-05-20 10:48	G	16333821.80	16333821.95	16333822.15	0.0135	0.0098	
Moon	40008-05-20 15:07	G	16333821.96	16333822.13	16333822.31	0.0135	0.0097	*
Venus	40008-09-22 06:00	G	16333946.56	16333946.75	16333946.95	0.0135	0.0061	
Venus	40009-05-06 12:14	G	16334172.85	16334173.01	16334173.18	0.0136	0.0087	
Venus	40009-12-18 18:29	G	16334399.17	16334399.27	16334399.40	0.0136	0.0113	
Mercury	40026-04-24 10:05	G	16340369.86	16340369.92	16340369.99	0.0143	0.0124	
Mercury	40026-07-21 13:26	G	16340457.98	16340458.06	16340458.16	0.0143	0.0103	
Mercury	40026-10-17 17:02	G	16340546.11	16340546.21	16340546.32	0.0143	0.0082	
Mercury	40027-01-13 20:38	G	16340634.24	16340634.36	16340634.48	0.0143	0.0060	
Mercury	40027-04-12 00:14	G	16340722.38	16340722.51	16340722.63	0.0143	0.0039	
Mercury	40027-07-09 03:36	G	16340810.52	16340810.65	16340810.78	0.0143	0.0018	
Mercury	40027-10-05 07:12	G	16340898.67	16340898.80	16340898.93	0.0143	0.0004	

Mercury	40028-01-01 10:48 G	16340986.82	16340986.95	16340987.08	0.0143	0.0026
Mercury	40028-03-29 14:24 G	16341074.97	16341075.10	16341075.22	0.0143	0.0047
Mercury	40028-06-25 17:46 G	16341163.13	16341163.24	16341163.36	0.0143	0.0069
Mercury	40028-09-21 21:22 G	16341251.29	16341251.39	16341251.50	0.0143	0.0091
Mercury	40028-12-19 00:58 G	16341339.47	16341339.54	16341339.63	0.0144	0.0113
Mercury	40029-03-17 04:34 G	16341427.66	16341427.69	16341427.74	0.0144	0.0136
Venus	40045-04-20 03:07 G	16347305.52	16347305.63	16347305.76	0.0144	0.0119
Moon	40045-11-07 14:53 G	16347507.08	16347507.12	16347507.22	0.0144	0.0138
Earth	40045-11-07 18:29 G	16347507.19	16347507.27	16347507.37	0.0144	0.0134 *
Venus	40045-12-02 14:53 G	16347531.96	16347532.12	16347532.30	0.0144	0.0088
Venus	40046-07-17 02:38 G	16347758.42	16347758.61	16347758.82	0.0144	0.0057
Earth	40046-11-12 18:14 G	16347877.04	16347877.26	16347877.52	0.0144	0.0049
Moon	40046-11-12 22:05 G	16347877.18	16347877.42	16347877.67	0.0144	0.0048 *
Venus	40047-02-28 14:24 G	16347984.89	16347985.10	16347985.32	0.0143	0.0026
Venus	40047-10-13 02:10 G	16348211.37	16348211.59	16348211.81	0.0143	0.0006
Moon	40047-11-17 14:24 G	16348246.86	16348247.10	16348247.35	0.0143	0.0042
Earth	40047-11-17 17:46 G	16348247.01	16348247.24	16348247.50	0.0143	0.0038 *
Venus	40048-05-26 13:26 G	16348437.85	16348438.06	16348438.28	0.0143	0.0037
Earth	40048-11-21 16:05 G	16348617.06	16348617.17	16348617.33	0.0143	0.0122
Moon	40048-11-21 20:10 G	16348617.20	16348617.34	16348617.51	0.0143	0.0114 *
Venus	40049-01-08 00:43 G	16348664.35	16348664.53	16348664.73	0.0143	0.0068
Venus	40049-08-22 11:46 G	16348890.85	16348890.99	16348891.17	0.0143	0.0099
Jupiter	40049-10-06 20:53 G	16348936.04	16348936.37	16348936.80	0.0143	0.0100
Venus	40050-04-05 23:02 G	16349117.38	16349117.46	16349117.56	0.0142	0.0128
Mars	40063-05-06 17:02 G	16353896.06	16353896.21	16353896.38	0.0137	0.0120
Mercury	40066-11-27 17:02 G	16355197.15	16355197.21	16355197.30	0.0136	0.0124
Mercury	40067-02-24 00:29 G	16355285.40	16355285.52	16355285.67	0.0136	0.0097
Mercury	40067-05-23 07:55 G	16355373.68	16355373.83	16355374.01	0.0135	0.0070
Mercury	40067-08-19 15:36 G	16355461.97	16355462.15	16355462.33	0.0135	0.0043
Mercury	40067-11-15 22:48 G	16355550.26	16355550.45	16355550.65	0.0135	0.0016

Mercury	40068-02-12 06:14 G	16355638.57	16355638.76	16355638.95	0.0135	0.0011
Mercury	40068-05-10 13:26 G	16355726.88	16355727.06	16355727.25	0.0135	0.0037
Mercury	40068-08-06 20:38 G	16355815.19	16355815.36	16355815.53	0.0135	0.0064
Mercury	40068-11-03 03:36 G	16355903.52	16355903.65	16355903.80	0.0135	0.0090
Mercury	40069-01-30 10:34 G	16355991.86	16355991.94	16355992.06	0.0135	0.0116
Venus	40088-01-20 21:22 G	16362921.34	16362921.39	16362921.47	0.0134	0.0127
Venus	40088-09-03 03:07 G	16363147.50	16363147.63	16363147.78	0.0134	0.0102
Venus	40089-04-17 08:53 G	16363373.70	16363373.87	16363374.05	0.0134	0.0077
Moon	40089-05-08 14:10 G	16363394.94	16363395.09	16363395.26	0.0134	0.0104
Earth	40089-05-08 17:17 G	16363395.09	16363395.22	16363395.37	0.0134	0.0111 *
Venus	40089-11-29 14:38 G	16363599.92	16363600.11	16363600.32	0.0134	0.0052
Earth	40090-05-13 01:41 G	16363764.34	16363764.57	16363764.82	0.0135	0.0042
Moon	40090-05-13 05:17 G	16363764.49	16363764.72	16363764.97	0.0135	0.0047 *
Venus	40090-07-13 20:38 G	16363826.15	16363826.36	16363826.57	0.0135	0.0027
Venus	40091-02-25 02:38 G	16364052.40	16364052.61	16364052.83	0.0135	0.0003
Moon	40091-05-17 07:12 G	16364133.57	16364133.80	16364134.06	0.0135	0.0034
Earth	40091-05-17 10:48 G	16364133.71	16364133.95	16364134.21	0.0135	0.0029 *
Venus	40091-10-09 08:38 G	16364278.65	16364278.86	16364279.08	0.0135	0.0025
Earth	40092-05-20 20:10 G	16364503.18	16364503.34	16364503.52	0.0135	0.0099
Moon	40092-05-20 23:17 G	16364503.32	16364503.47	16364503.67	0.0135	0.0099 *
Venus	40092-05-22 14:53 G	16364504.92	16364505.12	16364505.32	0.0135	0.0050
Venus	40093-01-03 20:53 G	16364731.20	16364731.37	16364731.56	0.0135	0.0076
Venus	40093-08-18 02:53 G	16364957.50	16364957.62	16364957.78	0.0136	0.0103
Venus	40094-04-01 09:36 G	16365183.85	16365183.90	16365183.98	0.0136	0.0128
Mars	40107-07-17 18:29 G	16370038.05	16370038.27	16370038.51	0.0141	0.0078
Mercury	40110-02-16 13:26 G	16370983.06	16370983.06	16370983.09	0.0142	0.0142
Mercury	40110-05-15 17:02 G	16371071.15	16371071.21	16371071.28	0.0143	0.0120
Mercury	40110-08-11 20:24 G	16371159.27	16371159.35	16371159.45	0.0143	0.0100
Mercury	40110-11-08 00:00 G	16371247.39	16371247.50	16371247.61	0.0143	0.0078
Mercury	40111-02-04 03:36 G	16371335.53	16371335.65	16371335.77	0.0143	0.0057

Mercury	40111-05-03 06:58 G	16371423.67	16371423.79	16371423.92	0.0143	0.0036
Mercury	40111-07-30 10:34 G	16371511.81	16371511.94	16371512.07	0.0143	0.0015
Mercury	40111-10-26 14:10 G	16371599.95	16371600.09	16371600.22	0.0143	0.0008
Mercury	40112-01-22 17:31 G	16371688.10	16371688.23	16371688.36	0.0143	0.0029
Mercury	40112-04-19 21:07 G	16371776.26	16371776.38	16371776.51	0.0143	0.0050
Mercury	40112-07-17 00:43 G	16371864.42	16371864.53	16371864.65	0.0143	0.0072
Mercury	40112-10-13 04:05 G	16371952.58	16371952.67	16371952.78	0.0143	0.0095
Mercury	40113-01-09 07:41 G	16372040.76	16372040.82	16372040.91	0.0143	0.0117
Mercury	40113-04-07 11:17 G	16372128.95	16372128.97	16372129.02	0.0144	0.0139
Venus	40128-12-19 07:41 G	16377863.74	16377863.82	16377863.91	0.0144	0.0133
Venus	40129-08-02 19:41 G	16378090.17	16378090.32	16378090.48	0.0144	0.0101
Moon	40129-11-08 23:31 G	16378188.37	16378188.48	16378188.60	0.0144	0.0127
Earth	40129-11-09 01:41 G	16378188.50	16378188.57	16378188.69	0.0144	0.0133 *
Venus	40130-03-17 07:41 G	16378316.63	16378316.82	16378317.01	0.0144	0.0070
Venus	40130-10-29 19:26 G	16378543.10	16378543.31	16378543.52	0.0144	0.0039
Earth	40130-11-14 02:10 G	16378558.35	16378558.59	16378558.83	0.0144	0.0047
Moon	40130-11-14 05:17 G	16378558.48	16378558.72	16378558.97	0.0144	0.0047 *
Venus	40131-06-13 06:58 G	16378769.58	16378769.79	16378770.01	0.0143	0.0008
Moon	40131-11-18 22:05 G	16378928.19	16378928.42	16378928.67	0.0143	0.0036
Earth	40131-11-19 01:55 G	16378928.33	16378928.58	16378928.82	0.0143	0.0039 *
Venus	40132-01-25 18:29 G	16378996.06	16378996.27	16378996.49	0.0143	0.0024
Venus	40132-09-08 06:00 G	16379222.56	16379222.75	16379222.96	0.0143	0.0055
Earth	40132-11-23 00:00 G	16379298.39	16379298.50	16379298.65	0.0143	0.0123
Moon	40132-11-23 03:50 G	16379298.56	16379298.66	16379298.77	0.0143	0.0129 *
Venus	40133-04-22 17:17 G	16379449.06	16379449.22	16379449.40	0.0143	0.0086
Venus	40133-12-05 04:19 G	16379675.57	16379675.68	16379675.82	0.0143	0.0116
Mars	40148-01-01 12:58 G	16384815.72	16384816.04	16384816.38	0.0137	0.0036
Mercury	40150-12-18 23:46 G	16385898.41	16385898.49	16385898.59	0.0136	0.0119
Mercury	40151-03-17 07:12 G	16385986.67	16385986.80	16385986.95	0.0136	0.0092
Mercury	40151-06-13 14:38 G	16386074.95	16386075.11	16386075.29	0.0136	0.0065

Mercury	40151-09-09 22:05 G	16386163.24	16386163.42	16386163.61	0.0135	0.0038
Mercury	40151-12-07 05:31 G	16386251.54	16386251.73	16386251.93	0.0135	0.0011
Mercury	40152-03-04 12:43 G	16386339.85	16386340.03	16386340.23	0.0135	0.0017
Mercury	40152-05-31 20:10 G	16386428.16	16386428.34	16386428.52	0.0135	0.0043
Mercury	40152-08-28 03:07 G	16386516.48	16386516.63	16386516.81	0.0135	0.0069
Mercury	40152-11-24 10:19 G	16386604.80	16386604.93	16386605.07	0.0135	0.0095
Mercury	40153-02-20 17:17 G	16386693.15	16386693.22	16386693.32	0.0135	0.0121
Venus	40172-05-04 12:58 G	16393705.94	16393706.04	16393706.18	0.0134	0.0111
Venus	40172-12-16 18:43 G	16393932.13	16393932.28	16393932.46	0.0134	0.0086
Moon	40173-05-10 00:43 G	16394076.42	16394076.53	16394076.68	0.0134	0.0115
Earth	40173-05-10 03:50 G	16394076.53	16394076.66	16394076.83	0.0134	0.0107 *
Venus	40173-07-31 00:29 G	16394158.34	16394158.52	16394158.73	0.0134	0.0062
Venus	40174-03-14 06:43 G	16394384.57	16394384.78	16394384.99	0.0135	0.0036
Earth	40174-05-14 12:43 G	16394445.79	16394446.03	16394446.27	0.0135	0.0038
Moon	40174-05-14 15:36 G	16394445.90	16394446.15	16394446.41	0.0135	0.0031 *
Venus	40174-10-26 12:43 G	16394610.81	16394611.03	16394611.25	0.0135	0.0010
Moon	40175-05-18 18:43 G	16394815.04	16394815.28	16394815.53	0.0135	0.0028
Earth	40175-05-18 21:50 G	16394815.17	16394815.41	16394815.66	0.0135	0.0032 *
Venus	40175-06-09 18:29 G	16394837.06	16394837.27	16394837.49	0.0135	0.0016
Venus	40176-01-22 00:43 G	16395063.33	16395063.53	16395063.74	0.0135	0.0041
Earth	40176-05-22 06:43 G	16395184.64	16395184.78	16395184.97	0.0135	0.0104
Moon	40176-05-22 10:19 G	16395184.79	16395184.93	16395185.11	0.0135	0.0105 *
Venus	40176-09-04 06:43 G	16395289.60	16395289.78	16395289.98	0.0135	0.0067
Venus	40177-04-18 13:12 G	16395515.90	16395516.05	16395516.21	0.0135	0.0093
Venus	40177-11-30 19:12 G	16395742.21	16395742.30	16395742.42	0.0136	0.0119
Mars	40192-03-11 08:10 G	16400956.60	16400956.84	16400957.10	0.0142	0.0065
Mercury	40194-03-08 20:53 G	16401684.34	16401684.37	16401684.42	0.0142	0.0136
Mercury	40194-06-05 00:29 G	16401772.45	16401772.52	16401772.60	0.0143	0.0115
Mercury	40194-09-01 03:50 G	16401860.57	16401860.66	16401860.77	0.0143	0.0094
Mercury	40194-11-28 07:26 G	16401948.70	16401948.81	16401948.92	0.0143	0.0073

Mercury	40195-02-24 10:48 G	16402036.83	16402036.95	16402037.08	0.0143	0.0052
Mercury	40195-05-23 14:24 G	16402124.97	16402125.10	16402125.23	0.0143	0.0030
Mercury	40195-08-19 18:00 G	16402213.12	16402213.25	16402213.38	0.0143	0.0009
Mercury	40195-11-15 21:36 G	16402301.26	16402301.40	16402301.53	0.0143	0.0013
Mercury	40196-02-12 00:58 G	16402389.42	16402389.54	16402389.67	0.0143	0.0035
Mercury	40196-05-10 04:34 G	16402477.57	16402477.69	16402477.81	0.0143	0.0056
Mercury	40196-08-06 08:10 G	16402565.73	16402565.84	16402565.95	0.0143	0.0078
Mercury	40196-11-02 11:31 G	16402653.90	16402653.98	16402654.09	0.0143	0.0101
Mercury	40197-01-29 15:07 G	16402742.07	16402742.13	16402742.21	0.0143	0.0123
Venus	40213-04-03 01:55 G	16408648.46	16408648.58	16408648.72	0.0144	0.0113
Moon	40213-11-10 09:22 G	16408869.83	16408869.89	16408870.00	0.0144	0.0135
Earth	40213-11-10 11:46 G	16408869.90	16408869.99	16408870.12	0.0144	0.0130 *
Venus	40213-11-15 13:55 G	16408874.90	16408875.08	16408875.26	0.0144	0.0082
Venus	40214-06-30 01:41 G	16409101.37	16409101.57	16409101.78	0.0144	0.0051
Earth	40214-11-15 12:14 G	16409239.77	16409240.01	16409240.26	0.0144	0.0044
Moon	40214-11-15 15:07 G	16409239.88	16409240.13	16409240.38	0.0144	0.0042 *
Venus	40215-02-11 13:26 G	16409327.84	16409328.06	16409328.28	0.0144	0.0019
Venus	40215-09-26 01:12 G	16409554.33	16409554.55	16409554.77	0.0143	0.0012
Moon	40215-11-20 08:53 G	16409609.63	16409609.87	16409610.11	0.0143	0.0044
Earth	40215-11-20 11:46 G	16409609.75	16409609.99	16409610.24	0.0143	0.0042 *
Venus	40216-05-09 12:29 G	16409780.82	16409781.02	16409781.23	0.0143	0.0043
Earth	40216-11-24 10:19 G	16409979.83	16409979.93	16409980.06	0.0143	0.0126
Moon	40216-11-24 13:55 G	16409979.95	16409980.08	16409980.24	0.0143	0.0119 *
Venus	40216-12-21 23:46 G	16410007.31	16410007.49	16410007.69	0.0143	0.0074
Venus	40217-08-05 11:02 G	16410233.82	16410233.96	16410234.12	0.0143	0.0104
Venus	40218-03-19 22:19 G	16410460.36	16410460.43	16410460.50	0.0142	0.0134
Mercury	40235-01-09 06:43 G	16416599.68	16416599.78	16416599.90	0.0136	0.0112
Mercury	40235-04-07 14:24 G	16416687.95	16416688.10	16416688.25	0.0136	0.0085
Mercury	40235-07-04 21:36 G	16416776.24	16416776.40	16416776.59	0.0135	0.0058
Mercury	40235-10-01 05:02 G	16416864.53	16416864.71	16416864.91	0.0135	0.0032

Mercury	40235-12-28 12:29 G	16416952.83	16416953.02	16416953.22	0.0135	0.0005
Mercury	40236-03-25 19:55 G	16417041.14	16417041.33	16417041.52	0.0135	0.0022
Mercury	40236-06-22 02:53 G	16417129.45	16417129.62	16417129.81	0.0135	0.0049
Mercury	40236-09-18 10:05 G	16417217.77	16417217.92	16417218.09	0.0135	0.0075
Mercury	40236-12-15 17:17 G	16417306.11	16417306.22	16417306.36	0.0135	0.0101
Mercury	40237-03-14 00:29 G	16417394.47	16417394.52	16417394.59	0.0135	0.0127
Venus	40256-01-03 22:48 G	16424264.38	16424264.45	16424264.57	0.0134	0.0120
Venus	40256-08-17 04:34 G	16424490.56	16424490.69	16424490.86	0.0134	0.0096
Venus	40257-03-31 10:34 G	16424716.77	16424716.94	16424717.14	0.0134	0.0070
Moon	40257-05-11 12:14 G	16424757.86	16424758.01	16424758.19	0.0134	0.0098
Earth	40257-05-11 14:10 G	16424757.96	16424758.09	16424758.27	0.0134	0.0105 *
Venus	40257-11-12 16:34 G	16424942.99	16424943.19	16424943.40	0.0135	0.0045
Earth	40258-05-15 23:02 G	16425127.22	16425127.46	16425127.71	0.0135	0.0035
Moon	40258-05-16 01:55 G	16425127.34	16425127.58	16425127.84	0.0135	0.0041 *
Venus	40258-06-26 22:19 G	16425169.22	16425169.43	16425169.65	0.0135	0.0020
Venus	40259-02-08 04:19 G	16425395.47	16425395.68	16425395.90	0.0135	0.0007
Moon	40259-05-20 05:31 G	16425496.50	16425496.73	16425496.97	0.0135	0.0041
Earth	40259-05-20 08:10 G	16425496.60	16425496.84	16425497.09	0.0135	0.0035 *
Venus	40259-09-22 10:19 G	16425621.73	16425621.93	16425622.15	0.0135	0.0032
Venus	40260-05-05 16:34 G	16425847.99	16425848.19	16425848.39	0.0135	0.0058
Earth	40260-05-23 17:17 G	16425866.08	16425866.22	16425866.39	0.0135	0.0106
Moon	40260-05-23 19:55 G	16425866.19	16425866.33	16425866.52	0.0135	0.0105 *
Venus	40260-12-17 22:34 G	16426074.28	16426074.44	16426074.62	0.0135	0.0084
Venus	40261-08-01 05:02 G	16426300.58	16426300.71	16426300.84	0.0136	0.0109
Venus	40262-03-15 11:17 G	16426526.96	16426526.97	16426527.00	0.0136	0.0135
Mercury	40278-03-30 04:19 G	16432385.64	16432385.68	16432385.74	0.0143	0.0130
Mercury	40278-06-26 07:55 G	16432473.75	16432473.83	16432473.92	0.0143	0.0109
Mercury	40278-09-22 11:17 G	16432561.88	16432561.97	16432562.08	0.0143	0.0088
Mercury	40278-12-19 14:53 G	16432650.01	16432650.12	16432650.24	0.0143	0.0066
Mercury	40279-03-17 18:29 G	16432738.14	16432738.27	16432738.39	0.0143	0.0045

Mercury	40279-06-13 21:50 G	16432826.29	16432826.41	16432826.55	0.0143	0.0024
Mercury	40279-09-10 01:26 G	16432914.43	16432914.56	16432914.69	0.0143	0.0003
Mercury	40279-12-07 05:02 G	16433002.58	16433002.71	16433002.84	0.0143	0.0019
Mercury	40280-03-04 08:38 G	16433090.73	16433090.86	16433090.98	0.0143	0.0041
Mercury	40280-05-31 12:00 G	16433178.89	16433179.00	16433179.13	0.0143	0.0063
Mercury	40280-08-27 15:36 G	16433267.05	16433267.15	16433267.26	0.0143	0.0085
Mercury	40280-11-23 19:12 G	16433355.22	16433355.30	16433355.39	0.0143	0.0107
Mercury	40281-02-19 22:48 G	16433443.40	16433443.45	16433443.51	0.0144	0.0129
Venus	40296-12-01 10:05 G	16439206.82	16439206.92	16439207.04	0.0144	0.0124
Venus	40297-07-15 22:05 G	16439433.26	16439433.42	16439433.60	0.0144	0.0093
Moon	40297-11-11 00:00 G	16439551.37	16439551.50	16439551.65	0.0144	0.0118
Earth	40297-11-11 01:26 G	16439551.45	16439551.56	16439551.70	0.0144	0.0124 *
Venus	40298-02-27 09:50 G	16439659.73	16439659.91	16439660.12	0.0144	0.0062
Venus	40298-10-11 21:50 G	16439886.20	16439886.41	16439886.63	0.0144	0.0030
Earth	40298-11-16 01:41 G	16439921.33	16439921.57	16439921.82	0.0144	0.0038
Moon	40298-11-16 04:05 G	16439921.42	16439921.67	16439921.93	0.0144	0.0039 *
Venus	40299-05-26 09:36 G	16440112.68	16440112.90	16440113.12	0.0143	0.0001
Moon	40299-11-20 22:19 G	16440291.20	16440291.43	16440291.67	0.0143	0.0045
Earth	40299-11-21 01:12 G	16440291.31	16440291.55	16440291.80	0.0143	0.0047 *
Venus	40300-01-07 21:07 G	16440339.17	16440339.38	16440339.59	0.0143	0.0032
Venus	40300-08-22 08:38 G	16440565.66	16440565.86	16440566.05	0.0143	0.0063
Earth	40300-11-25 23:46 G	16440661.40	16440661.49	16440661.59	0.0143	0.0131
Moon	40300-11-26 02:24 G	16440661.55	16440661.60	16440661.69	0.0143	0.0137 *
Venus	40301-04-05 19:41 G	16440792.17	16440792.32	16440792.49	0.0143	0.0094
Venus	40301-11-18 06:43 G	16441018.69	16441018.78	16441018.90	0.0143	0.0124
Mars	40315-05-21 01:41 G	16445950.31	16445950.57	16445950.89	0.0137	0.0073
Mercury	40318-11-03 06:58 G	16447212.75	16447212.79	16447212.85	0.0136	0.0131
Mercury	40319-01-30 14:24 G	16447300.99	16447301.10	16447301.23	0.0136	0.0104
Mercury	40319-04-28 21:50 G	16447389.26	16447389.41	16447389.58	0.0135	0.0077
Mercury	40319-07-26 05:17 G	16447477.55	16447477.72	16447477.91	0.0135	0.0050

Mercury	40319-10-22 12:58 G	16447565.85	16447566.04	16447566.23	0.0135	0.0023
Mercury	40320-01-18 20:10 G	16447654.15	16447654.34	16447654.54	0.0135	0.0005
Mercury	40320-04-16 03:22 G	16447742.46	16447742.64	16447742.83	0.0135	0.0031
Mercury	40320-07-13 10:34 G	16447830.77	16447830.94	16447831.12	0.0135	0.0058
Mercury	40320-10-09 18:00 G	16447919.10	16447919.25	16447919.40	0.0135	0.0084
Mercury	40321-01-06 00:43 G	16448007.44	16448007.53	16448007.66	0.0135	0.0110
Venus	40339-09-04 09:50 G	16454822.86	16454822.91	16454822.99	0.0134	0.0128
Venus	40340-04-17 15:36 G	16455049.02	16455049.15	16455049.30	0.0134	0.0103
Venus	40340-11-29 21:22 G	16455275.22	16455275.39	16455275.57	0.0134	0.0078
Moon	40341-05-13 00:14 G	16455439.37	16455439.51	16455439.67	0.0134	0.0107
Earth	40341-05-13 02:24 G	16455439.44	16455439.60	16455439.78	0.0134	0.0100 *
Venus	40341-07-14 03:07 G	16455501.44	16455501.63	16455501.83	0.0134	0.0053
Venus	40342-02-25 09:07 G	16455727.67	16455727.88	16455728.09	0.0135	0.0028
Earth	40342-05-17 10:48 G	16455808.71	16455808.95	16455809.21	0.0135	0.0031
Moon	40342-05-17 12:43 G	16455808.79	16455809.03	16455809.30	0.0135	0.0024 *
Venus	40342-10-09 15:07 G	16455953.91	16455954.13	16455954.34	0.0135	0.0003
Moon	40343-05-21 17:31 G	16456178.00	16456178.23	16456178.48	0.0135	0.0035
Earth	40343-05-21 19:41 G	16456178.09	16456178.32	16456178.58	0.0135	0.0040 *
Venus	40343-05-23 20:53 G	16456180.16	16456180.37	16456180.59	0.0135	0.0023
Venus	40344-01-05 02:38 G	16456406.42	16456406.61	16456406.82	0.0135	0.0049
Earth	40344-05-25 04:48 G	16456547.58	16456547.70	16456547.87	0.0135	0.0111
Moon	40344-05-25 07:55 G	16456547.69	16456547.83	16456547.98	0.0135	0.0113 *
Venus	40344-08-18 08:53 G	16456632.70	16456632.87	16456633.06	0.0135	0.0075
Venus	40345-04-01 15:07 G	16456859.00	16456859.13	16456859.29	0.0136	0.0101
Venus	40345-11-13 21:22 G	16457085.33	16457085.39	16457085.49	0.0136	0.0126
Mars	40359-08-01 10:48 G	16462093.68	16462093.95	16462094.22	0.0141	0.0031
Mercury	40362-04-20 12:00 G	16463086.94	16463087.00	16463087.07	0.0143	0.0123
Mercury	40362-07-17 15:36 G	16463175.06	16463175.15	16463175.24	0.0143	0.0101
Mercury	40362-10-13 18:58 G	16463263.19	16463263.29	16463263.40	0.0143	0.0081
Mercury	40363-01-09 22:34 G	16463351.32	16463351.44	16463351.56	0.0143	0.0059

Mercury	40363-04-08 02:10 G	16463439.46	16463439.59	16463439.71	0.0143	0.0038
Mercury	40363-07-05 05:31 G	16463527.60	16463527.73	16463527.86	0.0143	0.0017
Mercury	40363-10-01 09:07 G	16463615.75	16463615.88	16463616.01	0.0143	0.0005
Mercury	40363-12-28 12:43 G	16463703.90	16463704.03	16463704.16	0.0143	0.0027
Mercury	40364-03-25 16:19 G	16463792.05	16463792.18	16463792.30	0.0143	0.0049
Mercury	40364-06-21 19:55 G	16463880.21	16463880.33	16463880.44	0.0143	0.0071
Mercury	40364-09-17 23:17 G	16463968.38	16463968.47	16463968.58	0.0143	0.0093
Mercury	40364-12-15 02:53 G	16464056.55	16464056.62	16464056.71	0.0143	0.0115
Mercury	40365-03-13 06:43 G	16464144.74	16464144.78	16464144.82	0.0144	0.0137
Venus	40380-08-01 18:58 G	16469765.22	16469765.29	16469765.38	0.0144	0.0135
Venus	40381-03-16 06:58 G	16469991.65	16469991.79	16469991.95	0.0144	0.0103
Venus	40381-10-28 18:58 G	16470218.11	16470218.29	16470218.49	0.0144	0.0072
Moon	40381-11-12 14:24 G	16470232.99	16470233.10	16470233.24	0.0144	0.0123
Earth	40381-11-12 15:50 G	16470233.03	16470233.16	16470233.32	0.0144	0.0117 *
Venus	40382-06-12 06:43 G	16470444.58	16470444.78	16470445.00	0.0144	0.0041
Earth	40382-11-17 16:05 G	16470602.93	16470603.17	16470603.43	0.0144	0.0032
Moon	40382-11-17 18:00 G	16470603.00	16470603.25	16470603.51	0.0144	0.0028 *
Venus	40383-01-24 18:29 G	16470671.06	16470671.27	16470671.49	0.0144	0.0010
Venus	40383-09-08 06:14 G	16470897.55	16470897.76	16470897.98	0.0143	0.0022
Moon	40383-11-22 13:26 G	16470972.83	16470973.06	16470973.29	0.0143	0.0056
Earth	40383-11-22 15:36 G	16470972.91	16470973.15	16470973.39	0.0143	0.0054 *
Venus	40384-04-21 17:31 G	16471124.04	16471124.23	16471124.44	0.0143	0.0054
Earth	40384-11-26 13:55 G	16471343.03	16471343.08	16471343.16	0.0143	0.0138
Moon	40384-11-26 17:17 G	16471343.12	16471343.22	16471343.32	0.0143	0.0131 *
Venus	40384-12-04 04:48 G	16471350.53	16471350.70	16471350.89	0.0143	0.0084
Venus	40385-07-18 16:05 G	16471577.04	16471577.17	16471577.30	0.0143	0.0114
Mars	40400-01-15 08:24 G	16476870.61	16476870.85	16476871.10	0.0137	0.0095
Mercury	40402-11-23 15:07 G	16477914.05	16477914.13	16477914.22	0.0136	0.0121
Mercury	40403-02-19 22:34 G	16478002.30	16478002.44	16478002.58	0.0135	0.0094
Mercury	40403-05-19 06:00 G	16478090.58	16478090.75	16478090.92	0.0135	0.0067

Mercury	40403-08-15 13:26 G	16478178.88	16478179.06	16478179.25	0.0135	0.0040
Mercury	40403-11-11 20:53 G	16478267.18	16478267.37	16478267.56	0.0135	0.0013
Mercury	40404-02-08 04:05 G	16478355.48	16478355.67	16478355.87	0.0135	0.0014
Mercury	40404-05-06 11:31 G	16478443.79	16478443.98	16478444.16	0.0135	0.0040
Mercury	40404-08-02 18:29 G	16478532.11	16478532.27	16478532.45	0.0135	0.0067
Mercury	40404-10-30 01:41 G	16478620.44	16478620.57	16478620.72	0.0135	0.0093
Mercury	40405-01-26 08:53 G	16478708.79	16478708.87	16478708.97	0.0135	0.0119
Venus	40423-12-17 01:41 G	16485607.47	16485607.57	16485607.70	0.0134	0.0112
Venus	40424-07-30 07:26 G	16485833.65	16485833.81	16485833.98	0.0134	0.0088
Venus	40425-03-13 13:12 G	16486059.86	16486060.05	16486060.25	0.0134	0.0063
Moon	40425-05-13 11:46 G	16486120.83	16486120.99	16486121.19	0.0134	0.0090
Earth	40425-05-13 12:43 G	16486120.87	16486121.03	16486121.23	0.0134	0.0096 *
Venus	40425-10-25 18:58 G	16486286.09	16486286.29	16486286.50	0.0134	0.0037
Earth	40426-05-17 21:22 G	16486490.15	16486490.39	16486490.64	0.0135	0.0027
Moon	40426-05-17 23:17 G	16486490.21	16486490.47	16486490.72	0.0135	0.0033 *
Venus	40426-06-09 00:43 G	16486512.32	16486512.53	16486512.75	0.0135	0.0012
Venus	40427-01-21 06:29 G	16486738.56	16486738.77	16486738.99	0.0135	0.0014
Moon	40427-05-22 04:19 G	16486859.47	16486859.68	16486859.92	0.0135	0.0050
Earth	40427-05-22 06:00 G	16486859.52	16486859.75	16486860.00	0.0135	0.0043 *
Venus	40427-09-04 12:29 G	16486964.82	16486965.02	16486965.23	0.0135	0.0039
Venus	40428-04-17 18:14 G	16487191.09	16487191.26	16487191.47	0.0135	0.0066
Earth	40428-05-25 15:22 G	16487229.01	16487229.14	16487229.28	0.0135	0.0114
Moon	40428-05-25 16:48 G	16487229.06	16487229.20	16487229.36	0.0135	0.0110 *
Venus	40428-11-30 00:29 G	16487417.37	16487417.52	16487417.69	0.0135	0.0091
Venus	40429-07-14 06:43 G	16487643.68	16487643.78	16487643.90	0.0136	0.0116
Mars	40444-03-25 23:02 G	16493012.31	16493012.46	16493012.66	0.0142	0.0110
Mercury	40446-02-11 15:50 G	16493700.14	16493700.16	16493700.19	0.0143	0.0139
Mercury	40446-05-10 19:12 G	16493788.24	16493788.30	16493788.38	0.0143	0.0118
Mercury	40446-08-06 22:48 G	16493876.36	16493876.45	16493876.55	0.0143	0.0097
Mercury	40446-11-03 02:10 G	16493964.49	16493964.59	16493964.71	0.0143	0.0076

Mercury	40447-01-30 05:46 G	16494052.62	16494052.74	16494052.86	0.0143	0.0054
Mercury	40447-04-28 09:22 G	16494140.76	16494140.89	16494141.02	0.0143	0.0033
Mercury	40447-07-25 12:43 G	16494228.90	16494229.03	16494229.17	0.0143	0.0012
Mercury	40447-10-21 16:19 G	16494317.05	16494317.18	16494317.31	0.0143	0.0011
Mercury	40448-01-17 19:55 G	16494405.20	16494405.33	16494405.46	0.0143	0.0032
Mercury	40448-04-14 23:31 G	16494493.36	16494493.48	16494493.60	0.0143	0.0054
Mercury	40448-07-12 02:53 G	16494581.52	16494581.62	16494581.74	0.0143	0.0077
Mercury	40448-10-08 06:29 G	16494669.68	16494669.77	16494669.88	0.0143	0.0099
Mercury	40449-01-04 10:05 G	16494757.86	16494757.92	16494758.00	0.0144	0.0121
Mercury	40449-04-02 13:41 G	16494846.07	16494846.07	16494846.10	0.0144	0.0143
Venus	40464-11-13 15:07 G	16500550.00	16500550.13	16500550.26	0.0144	0.0115
Venus	40465-06-28 02:53 G	16500776.45	16500776.62	16500776.81	0.0144	0.0084
Moon	40465-11-13 04:34 G	16500914.54	16500914.69	16500914.87	0.0144	0.0105
Earth	40465-11-13 05:17 G	16500914.56	16500914.72	16500914.88	0.0144	0.0111 *
Venus	40466-02-09 14:53 G	16501002.93	16501003.12	16501003.33	0.0144	0.0052
Venus	40466-09-24 02:53 G	16501229.41	16501229.62	16501229.84	0.0144	0.0021
Earth	40466-11-18 05:17 G	16501284.48	16501284.72	16501284.98	0.0144	0.0026
Moon	40466-11-18 06:43 G	16501284.52	16501284.78	16501285.04	0.0144	0.0028 *
Venus	40467-05-08 14:38 G	16501455.89	16501456.11	16501456.33	0.0144	0.0011
Moon	40467-11-23 02:53 G	16501654.41	16501654.62	16501654.86	0.0143	0.0060
Earth	40467-11-23 04:48 G	16501654.48	16501654.70	16501654.94	0.0143	0.0060 *
Venus	40467-12-21 02:10 G	16501682.38	16501682.59	16501682.80	0.0143	0.0042
Venus	40468-08-03 13:26 G	16501908.88	16501909.06	16501909.26	0.0143	0.0073
Venus	40469-03-18 00:58 G	16502135.39	16502135.54	16502135.69	0.0143	0.0103
Venus	40469-10-30 11:46 G	16502361.93	16502361.99	16502362.08	0.0143	0.0134
Mercury	40486-12-13 23:02 G	16508615.37	16508615.46	16508615.59	0.0136	0.0111
Mercury	40487-03-12 06:29 G	16508703.63	16508703.77	16508703.94	0.0135	0.0084
Mercury	40487-06-08 14:10 G	16508791.92	16508792.09	16508792.27	0.0135	0.0056
Mercury	40487-09-04 21:36 G	16508880.22	16508880.40	16508880.59	0.0135	0.0029
Mercury	40487-12-02 05:02 G	16508968.52	16508968.71	16508968.90	0.0135	0.0002

Mercury	40488-02-28 12:29 G	16509056.83	16509057.02	16509057.21	0.0135	0.0025
Mercury	40488-05-26 19:26 G	16509145.14	16509145.31	16509145.50	0.0135	0.0051
Mercury	40488-08-23 02:53 G	16509233.46	16509233.62	16509233.78	0.0135	0.0077
Mercury	40488-11-19 10:05 G	16509321.80	16509321.92	16509322.04	0.0135	0.0103
Mercury	40489-02-15 17:17 G	16509410.17	16509410.22	16509410.27	0.0135	0.0129
Venus	40507-08-17 12:14 G	16516165.94	16516166.01	16516166.12	0.0134	0.0121
Venus	40508-03-30 18:00 G	16516392.11	16516392.25	16516392.41	0.0134	0.0096
Venus	40508-11-11 23:46 G	16516618.31	16516618.49	16516618.68	0.0134	0.0071
Moon	40509-05-14 23:46 G	16516802.32	16516802.49	16516802.65	0.0134	0.0098
Earth	40509-05-15 00:14 G	16516802.34	16516802.51	16516802.71	0.0134	0.0092 *
Venus	40509-06-26 05:17 G	16516844.52	16516844.72	16516844.93	0.0134	0.0046
Venus	40510-02-07 11:02 G	16517070.75	16517070.96	16517071.18	0.0134	0.0021
Earth	40510-05-19 08:38 G	16517171.61	16517171.86	16517172.11	0.0135	0.0022
Moon	40510-05-19 09:07 G	16517171.63	16517171.88	16517172.15	0.0135	0.0016 *
Venus	40510-09-21 16:48 G	16517296.99	16517297.20	16517297.42	0.0135	0.0005
Venus	40511-05-05 22:34 G	16517523.23	16517523.44	16517523.66	0.0135	0.0030
Moon	40511-05-23 16:05 G	16517540.95	16517541.17	16517541.41	0.0135	0.0042
Earth	40511-05-23 17:02 G	16517540.98	16517541.21	16517541.46	0.0135	0.0048 *
Venus	40511-12-18 04:19 G	16517749.49	16517749.68	16517749.89	0.0135	0.0055
Earth	40512-05-27 02:10 G	16517910.47	16517910.59	16517910.72	0.0135	0.0118
Moon	40512-05-27 03:22 G	16517910.54	16517910.64	16517910.77	0.0135	0.0122 *
Venus	40512-07-31 10:34 G	16517975.77	16517975.94	16517976.11	0.0135	0.0081
Venus	40513-03-14 16:34 G	16518202.07	16518202.19	16518202.33	0.0135	0.0106
Venus	40513-10-26 22:48 G	16518428.41	16518428.45	16518428.51	0.0136	0.0132
Mars	40526-12-20 06:14 G	16523230.69	16523230.76	16523230.85	0.0141	0.0136
Mercury	40530-03-04 22:48 G	16524401.42	16524401.45	16524401.50	0.0143	0.0135
Mercury	40530-06-01 02:24 G	16524489.53	16524489.60	16524489.68	0.0143	0.0114
Mercury	40530-08-28 05:46 G	16524577.65	16524577.74	16524577.85	0.0143	0.0093
Mercury	40530-11-24 09:22 G	16524665.78	16524665.89	16524666.01	0.0143	0.0071
Mercury	40531-02-20 12:58 G	16524753.92	16524754.04	16524754.16	0.0143	0.0050

Mercury	40531-05-19 16:19 G	16524842.06	16524842.18	16524842.31	0.0143	0.0029
Mercury	40531-08-15 19:55 G	16524930.20	16524930.33	16524930.46	0.0143	0.0007
Mercury	40531-11-11 23:31 G	16525018.35	16525018.48	16525018.61	0.0143	0.0015
Mercury	40532-02-08 03:07 G	16525106.50	16525106.63	16525106.76	0.0143	0.0037
Mercury	40532-05-06 06:43 G	16525194.66	16525194.78	16525194.90	0.0143	0.0059
Mercury	40532-08-02 10:05 G	16525282.82	16525282.92	16525283.03	0.0143	0.0081
Mercury	40532-10-29 13:41 G	16525370.99	16525371.07	16525371.17	0.0143	0.0103
Mercury	40533-01-25 17:31 G	16525459.17	16525459.23	16525459.29	0.0144	0.0125
Venus	40548-07-14 20:53 G	16531108.28	16531108.37	16531108.49	0.0144	0.0128
Venus	40549-02-26 08:53 G	16531334.73	16531334.87	16531335.05	0.0144	0.0097
Venus	40549-10-10 21:22 G	16531561.20	16531561.39	16531561.59	0.0144	0.0064
Earth	40549-11-14 15:22 G	16531595.97	16531596.14	16531596.31	0.0144	0.0108
Moon	40549-11-14 15:07 G	16531595.99	16531596.13	16531596.29	0.0144	0.0114 *
Venus	40550-05-25 09:07 G	16531787.67	16531787.88	16531788.10	0.0144	0.0033
Earth	40550-11-19 15:36 G	16531965.90	16531966.15	16531966.40	0.0144	0.0022
Moon	40550-11-19 16:05 G	16531965.91	16531966.17	16531966.43	0.0144	0.0017 *
Venus	40551-01-06 21:07 G	16532014.16	16532014.38	16532014.60	0.0144	0.0003
Venus	40551-08-21 08:53 G	16532240.65	16532240.87	16532241.08	0.0144	0.0030
Moon	40551-11-24 13:55 G	16532335.87	16532336.08	16532336.31	0.0144	0.0065
Earth	40551-11-24 14:53 G	16532335.91	16532336.12	16532336.36	0.0144	0.0065 *
Venus	40552-04-03 20:24 G	16532467.15	16532467.35	16532467.55	0.0143	0.0061
Venus	40552-11-16 07:41 G	16532693.65	16532693.82	16532693.99	0.0143	0.0091
Moon	40552-11-28 15:50 G	16532706.16	16532706.16	16532706.18	0.0143	0.0143
Venus	40553-06-30 18:29 G	16532920.18	16532920.27	16532920.40	0.0143	0.0122
Mars	40567-06-03 06:43 G	16538005.44	16538005.78	16538006.12	0.0137	0.0004
Mercury	40570-10-07 23:31 G	16539228.43	16539228.48	16539228.55	0.0136	0.0129
Mercury	40571-01-04 06:58 G	16539316.68	16539316.79	16539316.93	0.0136	0.0102
Mercury	40571-04-02 14:53 G	16539404.95	16539405.12	16539405.28	0.0135	0.0074
Mercury	40571-06-29 21:50 G	16539493.24	16539493.41	16539493.61	0.0135	0.0048
Mercury	40571-09-26 05:31 G	16539581.54	16539581.73	16539581.92	0.0135	0.0020

Mercury	40571-12-23 12:58 G	16539669.85	16539670.04	16539670.23	0.0135	0.0007
Mercury	40572-03-20 20:10 G	16539758.16	16539758.34	16539758.53	0.0135	0.0034
Mercury	40572-06-17 03:22 G	16539846.48	16539846.64	16539846.82	0.0135	0.0060
Mercury	40572-09-13 10:34 G	16539934.80	16539934.94	16539935.10	0.0135	0.0087
Mercury	40572-12-10 17:46 G	16540023.15	16540023.24	16540023.35	0.0135	0.0113
Venus	40591-04-16 23:17 G	16546724.42	16546724.47	16546724.52	0.0134	0.0129
Venus	40591-11-29 04:19 G	16546950.56	16546950.68	16546950.83	0.0134	0.0105
Venus	40592-07-12 10:05 G	16547176.75	16547176.92	16547177.09	0.0134	0.0080
Venus	40593-02-23 15:36 G	16547402.96	16547403.15	16547403.35	0.0134	0.0056
Earth	40593-05-15 11:02 G	16547483.78	16547483.96	16547484.17	0.0134	0.0087
Moon	40593-05-15 11:17 G	16547483.80	16547483.97	16547484.18	0.0134	0.0083 *
Venus	40593-10-07 21:07 G	16547629.17	16547629.38	16547629.60	0.0134	0.0031
Earth	40594-05-19 19:12 G	16547853.05	16547853.30	16547853.56	0.0134	0.0018
Moon	40594-05-19 19:41 G	16547853.06	16547853.32	16547853.58	0.0134	0.0025 *
Venus	40594-05-22 02:53 G	16547855.40	16547855.62	16547855.83	0.0134	0.0006
Venus	40595-01-03 08:24 G	16548081.64	16548081.85	16548082.07	0.0135	0.0020
Moon	40595-05-24 03:22 G	16548222.42	16548222.64	16548222.87	0.0135	0.0058
Earth	40595-05-24 03:22 G	16548222.42	16548222.64	16548222.89	0.0135	0.0052 *
Venus	40595-08-17 13:55 G	16548307.89	16548308.08	16548308.30	0.0135	0.0046
Venus	40596-03-30 19:55 G	16548534.16	16548534.33	16548534.53	0.0135	0.0071
Moon	40596-05-27 12:29 G	16548591.90	16548592.02	16548592.16	0.0135	0.0116
Earth	40596-05-27 12:14 G	16548591.91	16548592.01	16548592.13	0.0135	0.0121 *
Venus	40596-11-12 01:55 G	16548760.44	16548760.58	16548760.75	0.0135	0.0097
Venus	40597-06-26 08:10 G	16548986.76	16548986.84	16548986.94	0.0135	0.0122
Mars	40611-08-15 15:07 G	16554148.85	16554149.13	16554149.41	0.0141	0.0002
Mercury	40614-03-26 05:46 G	16555102.70	16555102.74	16555102.80	0.0143	0.0132
Mercury	40614-06-22 09:07 G	16555190.81	16555190.88	16555190.97	0.0143	0.0111
Mercury	40614-09-18 12:43 G	16555278.93	16555279.03	16555279.14	0.0143	0.0089
Mercury	40614-12-15 16:19 G	16555367.06	16555367.18	16555367.29	0.0143	0.0068
Mercury	40615-03-13 19:41 G	16555455.20	16555455.32	16555455.45	0.0143	0.0047

Mercury	40615-06-09 23:17 G	16555543.34	16555543.47	16555543.60	0.0143	0.0025
Mercury	40615-09-06 02:53 G	16555631.49	16555631.62	16555631.75	0.0143	0.0005
Mercury	40615-12-03 06:14 G	16555719.63	16555719.76	16555719.90	0.0143	0.0018
Mercury	40616-02-29 09:50 G	16555807.79	16555807.91	16555808.04	0.0143	0.0040
Mercury	40616-05-27 13:26 G	16555895.94	16555896.06	16555896.18	0.0143	0.0062
Mercury	40616-08-23 17:02 G	16555984.10	16555984.21	16555984.32	0.0143	0.0083
Mercury	40616-11-19 20:38 G	16556072.27	16556072.36	16556072.45	0.0143	0.0106
Mercury	40617-02-16 00:14 G	16556160.45	16556160.51	16556160.57	0.0144	0.0128
Venus	40632-03-15 01:55 G	16561666.54	16561666.58	16561666.64	0.0145	0.0141
Venus	40632-10-27 13:55 G	16561892.96	16561893.08	16561893.24	0.0144	0.0110
Venus	40633-06-11 02:24 G	16562119.42	16562119.60	16562119.78	0.0144	0.0078
Earth	40633-11-15 23:31 G	16562277.31	16562277.48	16562277.65	0.0144	0.0106
Moon	40633-11-16 00:29 G	16562277.35	16562277.52	16562277.71	0.0144	0.0098 *
Venus	40634-01-23 14:10 G	16562345.89	16562346.09	16562346.31	0.0144	0.0047
Venus	40634-09-07 02:24 G	16562572.38	16562572.60	16562572.82	0.0144	0.0015
Moon	40634-11-20 23:17 G	16562647.22	16562647.47	16562647.74	0.0144	0.0024
Earth	40634-11-20 23:46 G	16562647.24	16562647.49	16562647.74	0.0144	0.0019 *
Venus	40635-04-21 14:10 G	16562798.87	16562799.09	16562799.31	0.0144	0.0017
Moon	40635-11-25 22:48 G	16563017.25	16563017.45	16563017.68	0.0144	0.0068
Earth	40635-11-25 23:17 G	16563017.26	16563017.47	16563017.71	0.0144	0.0067 *
Venus	40635-12-04 01:41 G	16563025.37	16563025.57	16563025.78	0.0144	0.0048
Venus	40636-07-17 12:58 G	16563251.87	16563252.04	16563252.23	0.0143	0.0079
Venus	40637-03-01 00:14 G	16563478.38	16563478.51	16563478.67	0.0143	0.0109
Venus	40637-10-13 11:31 G	16563704.95	16563704.98	16563705.05	0.0143	0.0139
Mercury	40654-10-29 06:58 G	16569929.72	16569929.79	16569929.90	0.0136	0.0121
Mercury	40655-01-25 14:53 G	16570017.98	16570018.12	16570018.26	0.0136	0.0093
Mercury	40655-04-23 22:19 G	16570106.26	16570106.43	16570106.60	0.0135	0.0066
Mercury	40655-07-21 05:46 G	16570194.56	16570194.74	16570194.93	0.0135	0.0038
Mercury	40655-10-17 13:12 G	16570282.86	16570283.05	16570283.24	0.0135	0.0011
Mercury	40656-01-13 20:38 G	16570371.17	16570371.36	16570371.55	0.0135	0.0016

Mercury	40656-04-11 03:50 G	16570459.48	16570459.66	16570459.85	0.0135	0.0042
Mercury	40656-07-08 11:02 G	16570547.80	16570547.96	16570548.13	0.0135	0.0069
Mercury	40656-10-04 18:14 G	16570636.13	16570636.26	16570636.41	0.0135	0.0095
Mercury	40657-01-01 01:26 G	16570724.49	16570724.56	16570724.65	0.0135	0.0121
Venus	40675-07-30 15:50 G	16577509.05	16577509.16	16577509.28	0.0134	0.0113
Venus	40676-03-12 21:36 G	16577735.24	16577735.40	16577735.56	0.0134	0.0088
Venus	40676-10-25 02:38 G	16577961.43	16577961.61	16577961.81	0.0134	0.0064
Earth	40677-05-16 23:31 G	16578165.30	16578165.48	16578165.70	0.0134	0.0083
Moon	40677-05-17 00:00 G	16578165.33	16578165.50	16578165.70	0.0134	0.0088 *
Venus	40677-06-08 08:10 G	16578187.64	16578187.84	16578188.06	0.0134	0.0039
Venus	40678-01-20 13:55 G	16578413.87	16578414.08	16578414.30	0.0134	0.0014
Moon	40678-05-21 06:58 G	16578534.53	16578534.79	16578535.06	0.0134	0.0007
Earth	40678-05-21 07:41 G	16578534.57	16578534.82	16578535.08	0.0134	0.0014 *
Venus	40678-09-03 19:41 G	16578640.10	16578640.32	16578640.54	0.0134	0.0011
Venus	40679-04-18 01:26 G	16578866.35	16578866.56	16578866.77	0.0135	0.0037
Earth	40679-05-25 15:50 G	16578903.94	16578904.16	16578904.40	0.0135	0.0057
Moon	40679-05-25 16:05 G	16578903.96	16578904.17	16578904.41	0.0135	0.0051 *
Venus	40679-11-30 07:12 G	16579092.61	16579092.80	16579093.00	0.0135	0.0062
Earth	40680-05-29 00:43 G	16579273.45	16579273.53	16579273.63	0.0135	0.0126
Moon	40680-05-29 00:43 G	16579273.48	16579273.53	16579273.60	0.0135	0.0131 *
Venus	40680-07-13 13:12 G	16579318.89	16579319.05	16579319.22	0.0135	0.0087
Venus	40681-02-24 18:58 G	16579545.19	16579545.29	16579545.42	0.0135	0.0113
Mercury	40698-04-15 13:12 G	16585804.00	16585804.05	16585804.12	0.0142	0.0126
Mercury	40698-07-12 16:48 G	16585892.12	16585892.20	16585892.29	0.0143	0.0104
Mercury	40698-10-08 20:24 G	16585980.24	16585980.35	16585980.45	0.0143	0.0083
Mercury	40699-01-04 23:46 G	16586068.37	16586068.49	16586068.61	0.0143	0.0062
Mercury	40699-04-03 03:22 G	16586156.51	16586156.64	16586156.76	0.0143	0.0041
Mercury	40699-06-30 06:43 G	16586244.65	16586244.78	16586244.91	0.0143	0.0020
Mercury	40699-09-26 10:19 G	16586332.80	16586332.93	16586333.06	0.0143	0.0002
Mercury	40699-12-23 13:55 G	16586420.95	16586421.08	16586421.21	0.0143	0.0024

Mercury	40700-03-21 17:17 G	16586509.10	16586509.22	16586509.35	0.0143	0.0046
Mercury	40700-06-17 20:53 G	16586597.26	16586597.37	16586597.49	0.0143	0.0068
Mercury	40700-09-14 00:29 G	16586685.42	16586685.52	16586685.63	0.0143	0.0090
Mercury	40700-12-11 04:05 G	16586773.59	16586773.67	16586773.75	0.0143	0.0112
Mercury	40701-03-09 07:41 G	16586861.78	16586861.82	16586861.87	0.0144	0.0134
Venus	40716-06-27 19:55 G	16592451.22	16592451.33	16592451.46	0.0145	0.0122
Venus	40717-02-09 07:55 G	16592677.68	16592677.83	16592678.02	0.0144	0.0091
Venus	40717-09-23 20:10 G	16592904.15	16592904.34	16592904.55	0.0144	0.0059
Earth	40717-11-17 08:53 G	16592958.70	16592958.87	16592959.06	0.0144	0.0103
Moon	40717-11-17 10:34 G	16592958.78	16592958.94	16592959.10	0.0144	0.0110 *
Venus	40718-05-08 08:24 G	16593130.63	16593130.85	16593131.06	0.0144	0.0027
Moon	40718-11-22 08:24 G	16593328.59	16593328.85	16593329.11	0.0144	0.0010
Earth	40718-11-22 09:36 G	16593328.64	16593328.90	16593329.15	0.0144	0.0016 *
Venus	40718-12-20 20:10 G	16593357.12	16593357.34	16593357.56	0.0144	0.0004
Venus	40719-08-04 07:55 G	16593583.62	16593583.83	16593584.04	0.0144	0.0035
Earth	40719-11-27 09:07 G	16593698.67	16593698.88	16593699.11	0.0144	0.0070
Moon	40719-11-27 09:36 G	16593698.69	16593698.90	16593699.12	0.0144	0.0068 *
Venus	40720-03-17 19:12 G	16593810.12	16593810.30	16593810.50	0.0144	0.0066
Venus	40720-10-30 06:58 G	16594036.63	16594036.79	16594036.95	0.0143	0.0097
Venus	40721-06-13 18:00 G	16594263.16	16594263.25	16594263.36	0.0143	0.0127
Mars	40734-10-20 17:02 G	16599140.05	16599140.21	16599140.41	0.0137	0.0117
Mercury	40738-11-19 14:24 G	16600631.01	16600631.10	16600631.23	0.0136	0.0113
Mercury	40739-02-15 22:19 G	16600719.28	16600719.43	16600719.59	0.0136	0.0085
Mercury	40739-05-15 05:46 G	16600807.57	16600807.74	16600807.92	0.0136	0.0058
Mercury	40739-08-11 13:12 G	16600895.87	16600896.05	16600896.25	0.0135	0.0031
Mercury	40739-11-07 20:38 G	16600984.17	16600984.36	16600984.56	0.0135	0.0005
Mercury	40740-02-04 04:05 G	16601072.48	16601072.67	16601072.86	0.0135	0.0024
Mercury	40740-05-02 11:17 G	16601160.80	16601160.97	16601161.16	0.0135	0.0051
Mercury	40740-07-29 18:29 G	16601249.13	16601249.27	16601249.44	0.0135	0.0077
Mercury	40740-10-26 01:55 G	16601337.46	16601337.58	16601337.71	0.0135	0.0103

Mercury	40741-01-22 09:07 G	16601425.83	16601425.88	16601425.94	0.0135	0.0129
Venus	40759-03-31 03:07 G	16608067.55	16608067.63	16608067.73	0.0134	0.0121
Venus	40759-11-12 08:24 G	16608293.71	16608293.85	16608294.01	0.0134	0.0097
Venus	40760-06-25 13:55 G	16608519.90	16608520.08	16608520.27	0.0134	0.0072
Venus	40761-02-06 19:26 G	16608746.11	16608746.31	16608746.52	0.0134	0.0047
Earth	40761-05-18 12:00 G	16608846.81	16608847.00	16608847.22	0.0134	0.0078
Moon	40761-05-18 13:26 G	16608846.87	16608847.06	16608847.28	0.0134	0.0074 *
Venus	40761-09-21 00:58 G	16608972.33	16608972.54	16608972.76	0.0134	0.0023
Venus	40762-05-05 06:43 G	16609198.56	16609198.78	16609199.00	0.0134	0.0003
Moon	40762-05-22 19:12 G	16609216.04	16609216.30	16609216.56	0.0134	0.0014
Earth	40762-05-22 20:10 G	16609216.09	16609216.34	16609216.60	0.0134	0.0008 *
Venus	40762-12-17 12:14 G	16609424.80	16609425.01	16609425.23	0.0135	0.0028
Earth	40763-05-27 04:34 G	16609585.46	16609585.69	16609585.91	0.0135	0.0061
Moon	40763-05-27 05:17 G	16609585.52	16609585.72	16609585.94	0.0135	0.0069 *
Venus	40763-07-31 18:00 G	16609651.06	16609651.25	16609651.46	0.0135	0.0054
Venus	40764-03-14 00:00 G	16609877.34	16609877.50	16609877.69	0.0135	0.0079
Moon	40764-05-30 12:00 G	16609954.92	16609955.00	16609955.11	0.0135	0.0125
Earth	40764-05-30 13:12 G	16609955.00	16609955.05	16609955.11	0.0135	0.0131 *
Venus	40764-10-26 06:00 G	16610103.63	16610103.75	16610103.90	0.0135	0.0105
Venus	40765-06-09 12:14 G	16610329.96	16610330.01	16610330.08	0.0135	0.0130
Mars	40779-01-03 18:00 G	16615286.04	16615286.25	16615286.46	0.0141	0.0092
Mercury	40782-02-07 17:31 G	16616417.21	16616417.23	16616417.26	0.0142	0.0139
Mercury	40782-05-06 20:53 G	16616505.31	16616505.37	16616505.45	0.0142	0.0118
Mercury	40782-08-03 00:14 G	16616593.43	16616593.51	16616593.62	0.0143	0.0098
Mercury	40782-10-30 03:50 G	16616681.56	16616681.66	16616681.78	0.0143	0.0076
Mercury	40783-01-26 07:26 G	16616769.69	16616769.81	16616769.93	0.0143	0.0055
Mercury	40783-04-24 10:48 G	16616857.83	16616857.95	16616858.08	0.0143	0.0034
Mercury	40783-07-21 14:24 G	16616945.97	16616946.10	16616946.23	0.0143	0.0012
Mercury	40783-10-17 18:00 G	16617034.12	16617034.25	16617034.38	0.0143	0.0010
Mercury	40784-01-13 21:22 G	16617122.27	16617122.39	16617122.52	0.0143	0.0032

Mercury	40784-04-11 00:58 G	16617210.42	16617210.54	16617210.67	0.0143	0.0053
Mercury	40784-07-08 04:34 G	16617298.58	16617298.69	16617298.80	0.0143	0.0075
Mercury	40784-10-04 08:10 G	16617386.74	16617386.84	16617386.94	0.0143	0.0097
Mercury	40784-12-31 11:46 G	16617474.92	16617474.99	16617475.06	0.0143	0.0119
Mercury	40785-03-29 15:22 G	16617563.12	16617563.14	16617563.16	0.0144	0.0141
Venus	40800-02-26 03:36 G	16623009.57	16623009.65	16623009.73	0.0145	0.0133
Venus	40800-10-09 15:36 G	16623236.00	16623236.15	16623236.31	0.0145	0.0102
Venus	40801-05-24 03:36 G	16623462.47	16623462.65	16623462.85	0.0144	0.0071
Earth	40801-11-17 20:38 G	16623640.20	16623640.36	16623640.57	0.0144	0.0099
Moon	40801-11-17 23:17 G	16623640.29	16623640.47	16623640.67	0.0144	0.0090 *
Venus	40802-01-05 15:36 G	16623688.95	16623689.15	16623689.37	0.0144	0.0039
Venus	40802-08-20 03:36 G	16623915.44	16623915.65	16623915.87	0.0144	0.0008
Moon	40802-11-22 19:41 G	16624010.07	16624010.32	16624010.59	0.0144	0.0017
Earth	40802-11-22 21:36 G	16624010.14	16624010.40	16624010.65	0.0144	0.0011 *
Venus	40803-04-03 15:22 G	16624141.93	16624142.14	16624142.36	0.0144	0.0024
Venus	40803-11-16 03:07 G	16624368.43	16624368.63	16624368.83	0.0144	0.0055
Earth	40803-11-27 21:07 G	16624380.18	16624380.38	16624380.61	0.0144	0.0075
Moon	40803-11-27 22:05 G	16624380.22	16624380.42	16624380.64	0.0144	0.0077 *
Venus	40804-06-29 14:24 G	16624594.94	16624595.10	16624595.28	0.0144	0.0086
Venus	40805-02-11 01:41 G	16624821.46	16624821.57	16624821.71	0.0143	0.0117
Mars	40819-06-16 23:31 G	16630060.18	16630060.48	16630060.81	0.0137	0.0053
Mercury	40822-09-12 15:07 G	16631244.09	16631244.13	16631244.20	0.0136	0.0130
Mercury	40822-12-09 23:02 G	16631332.33	16631332.46	16631332.59	0.0136	0.0102
Mercury	40823-03-08 06:29 G	16631420.61	16631420.77	16631420.93	0.0136	0.0075
Mercury	40823-06-04 13:55 G	16631508.90	16631509.08	16631509.27	0.0135	0.0047
Mercury	40823-08-31 21:22 G	16631597.20	16631597.39	16631597.59	0.0135	0.0020
Mercury	40823-11-28 04:48 G	16631685.51	16631685.70	16631685.90	0.0135	0.0008
Mercury	40824-02-24 12:00 G	16631773.82	16631774.00	16631774.20	0.0135	0.0035
Mercury	40824-05-22 19:26 G	16631862.14	16631862.31	16631862.49	0.0135	0.0061
Mercury	40824-08-19 02:38 G	16631950.47	16631950.61	16631950.77	0.0135	0.0087

Mercury	40824-11-15 10:05 G	16632038.82	16632038.92	16632039.03	0.0135	0.0113
Venus	40842-11-28 15:22 G	16638626.09	16638626.14	16638626.20	0.0134	0.0128
Venus	40843-07-12 20:24 G	16638852.23	16638852.35	16638852.50	0.0134	0.0104
Venus	40844-02-24 02:10 G	16639078.42	16639078.59	16639078.77	0.0134	0.0079
Venus	40844-10-07 07:26 G	16639304.62	16639304.81	16639305.02	0.0134	0.0055
Earth	40845-05-19 02:10 G	16639528.38	16639528.59	16639528.81	0.0134	0.0072
Moon	40845-05-19 03:36 G	16639528.46	16639528.65	16639528.86	0.0134	0.0077 *
Venus	40845-05-21 12:58 G	16639530.84	16639531.04	16639531.26	0.0134	0.0030
Venus	40846-01-02 18:43 G	16639757.06	16639757.28	16639757.50	0.0134	0.0005
Moon	40846-05-23 08:10 G	16639897.58	16639897.84	16639898.11	0.0134	0.0004
Earth	40846-05-23 10:19 G	16639897.67	16639897.93	16639898.18	0.0134	0.0004 *
Venus	40846-08-17 00:14 G	16639983.30	16639983.51	16639983.73	0.0135	0.0021
Venus	40847-03-31 06:14 G	16640209.56	16640209.76	16640209.97	0.0135	0.0046
Earth	40847-05-27 18:29 G	16640267.05	16640267.27	16640267.49	0.0135	0.0067
Moon	40847-05-27 19:55 G	16640267.12	16640267.33	16640267.55	0.0135	0.0061 *
Venus	40847-11-12 12:14 G	16640435.83	16640436.01	16640436.19	0.0135	0.0071
Venus	40848-06-25 17:46 G	16640662.11	16640662.24	16640662.41	0.0135	0.0097
Venus	40849-02-07 00:00 G	16640888.42	16640888.50	16640888.61	0.0135	0.0122
Mars	40863-08-29 13:41 G	16646204.83	16646205.07	16646205.34	0.0141	0.0060
Mercury	40866-02-28 01:41 G	16647118.52	16647118.57	16647118.62	0.0142	0.0130
Mercury	40866-05-27 05:02 G	16647206.63	16647206.71	16647206.80	0.0142	0.0109
Mercury	40866-08-23 08:38 G	16647294.76	16647294.86	16647294.96	0.0143	0.0088
Mercury	40866-11-19 12:00 G	16647382.89	16647383.00	16647383.12	0.0143	0.0067
Mercury	40867-02-15 15:22 G	16647471.02	16647471.14	16647471.27	0.0143	0.0046
Mercury	40867-05-14 18:58 G	16647559.16	16647559.29	16647559.42	0.0143	0.0024
Mercury	40867-08-10 22:34 G	16647647.31	16647647.44	16647647.57	0.0143	0.0003
Mercury	40867-11-07 02:10 G	16647735.46	16647735.59	16647735.72	0.0143	0.0020
Mercury	40868-02-03 05:31 G	16647823.61	16647823.73	16647823.86	0.0143	0.0041
Mercury	40868-05-01 09:07 G	16647911.76	16647911.88	16647912.00	0.0143	0.0063
Mercury	40868-07-28 12:43 G	16647999.92	16648000.03	16648000.14	0.0143	0.0085

Mercury	40868-10-24 16:19 G	16648088.09	16648088.18	16648088.27	0.0143	0.0107
Mercury	40869-01-20 19:55 G	16648176.27	16648176.33	16648176.39	0.0144	0.0129
Venus	40883-10-26 12:58 G	16653568.02	16653568.04	16653568.09	0.0145	0.0143
Venus	40884-06-09 00:58 G	16653794.42	16653794.54	16653794.69	0.0145	0.0112
Venus	40885-01-21 13:12 G	16654020.88	16654021.05	16654021.24	0.0145	0.0080
Venus	40885-09-05 01:26 G	16654247.36	16654247.56	16654247.77	0.0144	0.0049
Earth	40885-11-18 12:29 G	16654321.84	16654322.02	16654322.23	0.0144	0.0090
Moon	40885-11-18 14:53 G	16654321.95	16654322.12	16654322.32	0.0144	0.0098 *
Venus	40886-04-19 13:26 G	16654473.84	16654474.06	16654474.28	0.0144	0.0017
Moon	40886-11-23 11:02 G	16654691.70	16654691.96	16654692.22	0.0144	0.0003
Earth	40886-11-23 13:12 G	16654691.80	16654692.05	16654692.31	0.0144	0.0004 *
Venus	40886-12-02 01:12 G	16654700.33	16654700.55	16654700.77	0.0144	0.0014
Venus	40887-07-16 12:58 G	16654926.83	16654927.04	16654927.24	0.0144	0.0045
Earth	40887-11-28 12:58 G	16655061.84	16655062.04	16655062.25	0.0144	0.0082
Moon	40887-11-28 14:24 G	16655061.91	16655062.10	16655062.32	0.0144	0.0080 *
Venus	40888-02-28 00:29 G	16655153.34	16655153.52	16655153.71	0.0144	0.0076
Venus	40888-10-11 12:00 G	16655379.86	16655380.00	16655380.15	0.0143	0.0107
Venus	40889-05-25 23:02 G	16655606.42	16655606.46	16655606.54	0.0143	0.0137
Mercury	40906-10-03 23:46 G	16661945.41	16661945.49	16661945.60	0.0136	0.0118
Mercury	40906-12-31 07:12 G	16662033.67	16662033.80	16662033.96	0.0136	0.0091
Mercury	40907-03-29 15:07 G	16662121.96	16662122.13	16662122.30	0.0136	0.0063
Mercury	40907-06-25 22:34 G	16662210.25	16662210.44	16662210.63	0.0135	0.0036
Mercury	40907-09-22 06:00 G	16662298.56	16662298.75	16662298.95	0.0135	0.0008
Mercury	40907-12-19 13:26 G	16662386.87	16662387.06	16662387.25	0.0135	0.0019
Mercury	40908-03-16 20:38 G	16662475.19	16662475.36	16662475.55	0.0135	0.0046
Mercury	40908-06-13 03:50 G	16662563.51	16662563.66	16662563.83	0.0135	0.0072
Mercury	40908-09-09 11:17 G	16662651.85	16662651.97	16662652.11	0.0135	0.0098
Mercury	40908-12-06 18:14 G	16662740.21	16662740.26	16662740.35	0.0135	0.0125
Venus	40927-03-13 08:38 G	16669410.76	16669410.86	16669410.99	0.0134	0.0112
Venus	40927-10-25 14:10 G	16669636.93	16669637.09	16669637.26	0.0134	0.0087

Earth	40928-05-16 08:10 G	16669840.84	16669840.84	16669840.86	0.0134	0.0134
Venus	40928-06-07 19:12 G	16669863.13	16669863.30	16669863.51	0.0134	0.0063
Venus	40929-01-20 00:58 G	16670089.34	16670089.54	16670089.75	0.0134	0.0038
Earth	40929-05-20 15:22 G	16670209.94	16670210.14	16670210.38	0.0134	0.0066
Moon	40929-05-20 18:00 G	16670210.05	16670210.25	16670210.48	0.0134	0.0063 *
Venus	40929-09-03 06:29 G	16670315.56	16670315.77	16670315.99	0.0134	0.0013
Venus	40930-04-17 12:14 G	16670541.80	16670542.01	16670542.23	0.0134	0.0013
Moon	40930-05-24 21:36 G	16670579.14	16670579.40	16670579.66	0.0134	0.0003
Earth	40930-05-24 23:46 G	16670579.23	16670579.49	16670579.74	0.0134	0.0004 *
Venus	40930-11-29 18:00 G	16670768.04	16670768.25	16670768.46	0.0135	0.0038
Earth	40931-05-29 07:55 G	16670948.62	16670948.83	16670949.05	0.0135	0.0073
Moon	40931-05-29 09:36 G	16670948.72	16670948.90	16670949.12	0.0135	0.0081 *
Venus	40931-07-13 23:46 G	16670994.30	16670994.49	16670994.69	0.0135	0.0063
Venus	40932-02-25 05:31 G	16671220.58	16671220.73	16671220.91	0.0135	0.0089
Venus	40932-10-08 11:31 G	16671446.89	16671446.98	16671447.11	0.0135	0.0114
Jupiter	40933-06-19 01:55 G	16671700.29	16671700.58	16671700.93	0.0135	0.0105
Mercury	40950-03-21 09:22 G	16677819.83	16677819.89	16677819.96	0.0142	0.0123
Mercury	40950-06-17 12:43 G	16677907.95	16677908.03	16677908.13	0.0143	0.0102
Mercury	40950-09-13 16:19 G	16677996.07	16677996.18	16677996.29	0.0143	0.0081
Mercury	40950-12-10 19:41 G	16678084.21	16678084.32	16678084.44	0.0143	0.0059
Mercury	40951-03-08 23:17 G	16678172.34	16678172.47	16678172.60	0.0143	0.0038
Mercury	40951-06-05 02:38 G	16678260.48	16678260.61	16678260.75	0.0143	0.0017
Mercury	40951-09-01 06:14 G	16678348.63	16678348.76	16678348.89	0.0143	0.0005
Mercury	40951-11-28 09:50 G	16678436.78	16678436.91	16678437.04	0.0143	0.0027
Mercury	40952-02-24 13:12 G	16678524.93	16678525.05	16678525.18	0.0143	0.0049
Mercury	40952-05-22 16:48 G	16678613.09	16678613.20	16678613.32	0.0143	0.0070
Mercury	40952-08-18 20:24 G	16678701.25	16678701.35	16678701.45	0.0143	0.0092
Mercury	40952-11-14 23:46 G	16678789.42	16678789.49	16678789.58	0.0143	0.0115
Mercury	40953-02-11 03:22 G	16678877.61	16678877.64	16678877.69	0.0144	0.0137
Venus	40968-02-08 10:05 G	16684352.82	16684352.92	16684353.05	0.0145	0.0123

Venus	40968-09-21 22:34 G	16684579.28	16684579.44	16684579.62	0.0145	0.0091
Venus	40969-05-06 10:34 G	16684805.75	16684805.94	16684806.15	0.0145	0.0060
Earth	40969-11-20 03:50 G	16685003.46	16685003.66	16685003.88	0.0144	0.0083
Moon	40969-11-20 06:58 G	16685003.59	16685003.79	16685004.01	0.0144	0.0075 *
Venus	40969-12-18 22:34 G	16685032.24	16685032.44	16685032.67	0.0144	0.0029
Venus	40970-08-02 10:48 G	16685258.73	16685258.95	16685259.17	0.0144	0.0004
Moon	40970-11-25 02:10 G	16685373.33	16685373.59	16685373.85	0.0144	0.0002
Earth	40970-11-25 04:48 G	16685373.44	16685373.70	16685373.95	0.0144	0.0005 *
Venus	40971-03-16 22:34 G	16685485.23	16685485.44	16685485.65	0.0144	0.0035
Venus	40971-10-29 10:19 G	16685711.74	16685711.93	16685712.13	0.0144	0.0066
Earth	40971-11-30 04:34 G	16685743.50	16685743.69	16685743.89	0.0144	0.0090
Moon	40971-11-30 06:14 G	16685743.59	16685743.76	16685743.96	0.0144	0.0094 *
Venus	40972-06-11 21:50 G	16685938.26	16685938.41	16685938.58	0.0144	0.0097
Venus	40973-01-24 09:07 G	16686164.80	16686164.88	16686164.99	0.0143	0.0128
Mars	40986-11-03 07:12 G	16691195.48	16691195.80	16691196.14	0.0137	0.0040
Mercury	40990-07-28 01:26 G	16692558.52	16692558.56	16692558.61	0.0136	0.0132
Mercury	40990-10-24 08:53 G	16692646.76	16692646.87	16692647.00	0.0136	0.0105
Mercury	40991-01-20 16:19 G	16692735.03	16692735.18	16692735.35	0.0136	0.0078
Mercury	40991-04-19 00:00 G	16692823.32	16692823.50	16692823.69	0.0135	0.0050
Mercury	40991-07-16 07:26 G	16692911.62	16692911.81	16692912.01	0.0135	0.0023
Mercury	40991-10-12 14:53 G	16692999.93	16693000.12	16693000.32	0.0135	0.0006
Mercury	40992-01-08 22:19 G	16693088.24	16693088.43	16693088.62	0.0135	0.0031
Mercury	40992-04-06 05:31 G	16693176.57	16693176.73	16693176.91	0.0135	0.0058
Mercury	40992-07-03 12:43 G	16693264.89	16693265.03	16693265.19	0.0135	0.0085
Mercury	40992-09-29 19:55 G	16693353.24	16693353.33	16693353.45	0.0135	0.0111

42ND MILLENNIUM CE

This is a list of transits visible from Uranus in the 42nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	41010-11-11 21:07	G	16699969.29	16699969.38	16699969.48	0.0134	0.0119	
Venus	41011-06-26 02:10	G	16700195.45	16700195.59	16700195.75	0.0134	0.0095	
Venus	41012-02-07 07:55	G	16700421.64	16700421.83	16700422.01	0.0134	0.0070	
Moon	41012-05-17 18:43	G	16700522.23	16700522.28	16700522.38	0.0134	0.0128	
Earth	41012-05-17 21:50	G	16700522.36	16700522.41	16700522.51	0.0134	0.0128	*
Venus	41012-09-20 12:58	G	16700647.85	16700648.04	16700648.26	0.0134	0.0046	
Venus	41013-05-04 18:43	G	16700874.07	16700874.28	16700874.50	0.0134	0.0021	
Earth	41013-05-22 05:31	G	16700891.51	16700891.73	16700891.97	0.0134	0.0060	
Moon	41013-05-22 07:55	G	16700891.62	16700891.83	16700892.06	0.0134	0.0064	*
Venus	41013-12-17 00:14	G	16701100.30	16701100.51	16701100.73	0.0134	0.0005	
Moon	41014-05-26 10:48	G	16701260.69	16701260.95	16701261.21	0.0134	0.0015	
Earth	41014-05-26 13:41	G	16701260.82	16701261.07	16701261.32	0.0134	0.0009	*
Venus	41014-07-31 06:00	G	16701326.54	16701326.75	16701326.96	0.0134	0.0030	
Venus	41015-03-14 11:31	G	16701552.80	16701552.98	16701553.19	0.0135	0.0056	
Earth	41015-05-30 21:50	G	16701630.21	16701630.41	16701630.62	0.0135	0.0079	
Moon	41015-05-31 00:14	G	16701630.31	16701630.51	16701630.73	0.0135	0.0073	*
Venus	41015-10-26 17:31	G	16701779.07	16701779.23	16701779.42	0.0135	0.0081	
Venus	41016-06-08 23:31	G	16702005.36	16702005.48	16702005.62	0.0135	0.0106	
Venus	41017-01-21 05:31	G	16702231.69	16702231.73	16702231.79	0.0135	0.0131	
Mars	41031-01-18 21:36	G	16707342.13	16707342.40	16707342.68	0.0141	0.0032	
Mercury	41034-01-13 13:26	G	16708433.04	16708433.06	16708433.11	0.0142	0.0137	
Mercury	41034-04-11 17:02	G	16708521.14	16708521.21	16708521.29	0.0143	0.0115	

Mercury	41034-07-08 20:24 G	16708609.26	16708609.35	16708609.46	0.0143	0.0095
Mercury	41034-10-05 00:00 G	16708697.39	16708697.50	16708697.61	0.0143	0.0073
Mercury	41035-01-01 03:22 G	16708785.52	16708785.64	16708785.77	0.0143	0.0052
Mercury	41035-03-30 06:58 G	16708873.66	16708873.79	16708873.92	0.0143	0.0031
Mercury	41035-06-26 10:34 G	16708961.81	16708961.94	16708962.07	0.0143	0.0010
Mercury	41035-09-22 13:55 G	16709049.95	16709050.08	16709050.21	0.0143	0.0013
Mercury	41035-12-19 17:31 G	16709138.10	16709138.23	16709138.36	0.0143	0.0034
Mercury	41036-03-16 20:53 G	16709226.26	16709226.37	16709226.50	0.0143	0.0057
Mercury	41036-06-13 00:29 G	16709314.41	16709314.52	16709314.64	0.0143	0.0078
Mercury	41036-09-09 04:05 G	16709402.58	16709402.67	16709402.77	0.0143	0.0100
Mercury	41036-12-06 07:26 G	16709490.76	16709490.81	16709490.89	0.0144	0.0123
Venus	41051-10-09 18:58 G	16714911.21	16714911.29	16714911.38	0.0145	0.0133
Venus	41052-05-23 07:12 G	16715137.65	16715137.80	16715137.96	0.0145	0.0102
Venus	41053-01-04 19:12 G	16715364.12	16715364.30	16715364.50	0.0145	0.0071
Venus	41053-08-19 07:41 G	16715590.61	16715590.82	16715591.03	0.0144	0.0039
Earth	41053-11-21 18:29 G	16715685.06	16715685.27	16715685.49	0.0144	0.0075
Moon	41053-11-21 21:22 G	16715685.20	16715685.39	16715685.61	0.0144	0.0083 *
Venus	41054-04-02 19:55 G	16715817.11	16715817.33	16715817.54	0.0144	0.0007
Venus	41054-11-15 07:41 G	16716043.61	16716043.82	16716044.04	0.0144	0.0025
Moon	41054-11-26 16:19 G	16716054.92	16716055.18	16716055.44	0.0144	0.0019
Earth	41054-11-26 19:26 G	16716055.06	16716055.31	16716055.56	0.0144	0.0012 *
Venus	41055-06-29 19:26 G	16716270.11	16716270.31	16716270.52	0.0144	0.0056
Earth	41055-12-01 19:12 G	16716425.13	16716425.30	16716425.50	0.0144	0.0098
Moon	41055-12-01 21:50 G	16716425.24	16716425.41	16716425.61	0.0144	0.0094 *
Venus	41056-02-11 07:12 G	16716496.63	16716496.80	16716496.98	0.0144	0.0087
Venus	41056-09-24 18:43 G	16716723.17	16716723.28	16716723.42	0.0143	0.0118
Mercury	41074-08-18 10:05 G	16723259.85	16723259.92	16723260.03	0.0136	0.0120
Mercury	41074-11-14 17:46 G	16723348.11	16723348.24	16723348.39	0.0136	0.0092
Mercury	41075-02-11 01:12 G	16723436.39	16723436.55	16723436.73	0.0136	0.0065
Mercury	41075-05-10 08:53 G	16723524.69	16723524.87	16723525.06	0.0135	0.0037

Mercury	41075-08-06 16:19 G	16723612.99	16723613.18	16723613.38	0.0135	0.0011
Mercury	41075-11-02 23:46 G	16723701.30	16723701.49	16723701.69	0.0135	0.0017
Mercury	41076-01-30 06:58 G	16723789.62	16723789.79	16723789.98	0.0135	0.0044
Mercury	41076-04-27 14:24 G	16723877.94	16723878.10	16723878.27	0.0135	0.0071
Mercury	41076-07-24 21:36 G	16723966.28	16723966.40	16723966.54	0.0135	0.0097
Mercury	41076-10-21 04:48 G	16724054.63	16724054.70	16724054.79	0.0135	0.0123
Venus	41094-07-12 09:07 G	16730527.82	16730527.88	16730527.94	0.0133	0.0127
Venus	41095-02-23 14:10 G	16730753.97	16730754.09	16730754.24	0.0133	0.0103
Venus	41095-10-07 19:26 G	16730980.15	16730980.31	16730980.50	0.0134	0.0079
Moon	41096-05-18 08:24 G	16731203.76	16731203.85	16731203.97	0.0134	0.0122
Earth	41096-05-18 11:46 G	16731203.89	16731203.99	16731204.09	0.0134	0.0121 *
Venus	41096-05-21 00:58 G	16731206.34	16731206.54	16731206.74	0.0134	0.0054
Venus	41097-01-02 06:14 G	16731432.55	16731432.76	16731432.98	0.0134	0.0029
Earth	41097-05-22 18:58 G	16731573.06	16731573.29	16731573.52	0.0134	0.0053
Moon	41097-05-22 22:19 G	16731573.20	16731573.43	16731573.66	0.0134	0.0050 *
Venus	41097-08-16 12:00 G	16731658.78	16731659.00	16731659.21	0.0134	0.0004
Venus	41098-03-30 17:31 G	16731885.02	16731885.23	16731885.45	0.0134	0.0022
Moon	41098-05-26 23:46 G	16731942.23	16731942.49	16731942.75	0.0134	0.0010
Earth	41098-05-27 02:38 G	16731942.36	16731942.61	16731942.87	0.0134	0.0016 *
Venus	41098-11-11 23:17 G	16732111.27	16732111.47	16732111.68	0.0134	0.0046
Earth	41099-05-31 10:48 G	16732311.76	16732311.95	16732312.15	0.0134	0.0085
Moon	41099-05-31 13:26 G	16732311.90	16732312.06	16732312.26	0.0134	0.0093 *
Venus	41099-06-26 04:48 G	16732337.53	16732337.70	16732337.90	0.0134	0.0072
Venus	41100-02-07 10:48 G	16732563.81	16732563.95	16732564.11	0.0135	0.0097
Venus	41100-09-21 16:48 G	16732790.12	16732790.20	16732790.30	0.0135	0.0122
Mars	41115-09-14 08:24 G	16738260.70	16738260.85	16738261.05	0.0141	0.0112
Mercury	41118-02-03 20:38 G	16739134.32	16739134.36	16739134.41	0.0142	0.0132
Mercury	41118-05-03 00:00 G	16739222.43	16739222.50	16739222.59	0.0142	0.0112
Mercury	41118-07-30 03:36 G	16739310.55	16739310.65	16739310.75	0.0143	0.0090
Mercury	41118-10-26 07:12 G	16739398.68	16739398.80	16739398.91	0.0143	0.0069

Mercury	41119-01-22 10:34 G	16739486.82	16739486.94	16739487.07	0.0143	0.0048
Mercury	41119-04-20 13:55 G	16739574.96	16739575.08	16739575.22	0.0143	0.0027
Mercury	41119-07-17 17:31 G	16739663.10	16739663.23	16739663.36	0.0143	0.0005
Mercury	41119-10-13 21:07 G	16739751.25	16739751.38	16739751.51	0.0143	0.0017
Mercury	41120-01-10 00:29 G	16739839.40	16739839.52	16739839.65	0.0143	0.0038
Mercury	41120-04-07 04:05 G	16739927.55	16739927.67	16739927.79	0.0143	0.0060
Mercury	41120-07-04 07:26 G	16740015.71	16740015.81	16740015.93	0.0143	0.0082
Mercury	41120-09-30 11:17 G	16740103.88	16740103.97	16740104.06	0.0143	0.0104
Mercury	41120-12-27 14:53 G	16740192.06	16740192.12	16740192.18	0.0144	0.0126
Venus	41136-01-22 12:43 G	16745695.90	16745696.03	16745696.17	0.0145	0.0115
Venus	41136-09-05 00:58 G	16745922.38	16745922.54	16745922.73	0.0145	0.0084
Venus	41137-04-19 13:26 G	16746148.86	16746149.06	16746149.27	0.0145	0.0052
Earth	41137-11-23 03:50 G	16746366.45	16746366.66	16746366.89	0.0144	0.0072
Moon	41137-11-23 07:41 G	16746366.60	16746366.82	16746367.05	0.0144	0.0064 *
Venus	41137-12-02 01:41 G	16746375.35	16746375.57	16746375.79	0.0144	0.0020
Venus	41138-07-16 13:41 G	16746601.86	16746602.07	16746602.29	0.0144	0.0012
Moon	41138-11-28 01:55 G	16746736.33	16746736.58	16746736.84	0.0144	0.0009
Earth	41138-11-28 05:17 G	16746736.47	16746736.72	16746736.97	0.0144	0.0016 *
Venus	41139-02-28 01:41 G	16746828.37	16746828.57	16746828.78	0.0144	0.0043
Venus	41139-10-12 13:41 G	16747054.89	16747055.07	16747055.26	0.0144	0.0074
Earth	41139-12-03 05:17 G	16747106.56	16747106.72	16747106.91	0.0144	0.0102
Moon	41139-12-03 08:10 G	16747106.69	16747106.84	16747107.02	0.0144	0.0106 *
Venus	41140-05-26 01:26 G	16747281.42	16747281.56	16747281.71	0.0144	0.0105
Jupiter	41140-12-05 06:14 G	16747474.51	16747474.76	16747475.08	0.0144	0.0121
Venus	41141-01-07 12:58 G	16747507.98	16747508.04	16747508.12	0.0143	0.0136
Mars	41154-03-23 11:02 G	16752330.93	16752330.96	16752331.04	0.0138	0.0136
Mercury	41158-09-08 18:29 G	16753961.17	16753961.27	16753961.40	0.0136	0.0109
Mercury	41158-12-06 02:24 G	16754049.45	16754049.60	16754049.76	0.0136	0.0081
Mercury	41159-03-04 09:50 G	16754137.74	16754137.91	16754138.09	0.0136	0.0054
Mercury	41159-05-31 17:17 G	16754226.03	16754226.22	16754226.42	0.0136	0.0027

Mercury	41159-08-28 00:43 G	16754314.34	16754314.53	16754314.73	0.0136	0.0003
Mercury	41159-11-24 08:10 G	16754402.65	16754402.84	16754403.03	0.0135	0.0028
Mercury	41160-02-20 15:36 G	16754490.97	16754491.15	16754491.33	0.0135	0.0055
Mercury	41160-05-18 22:48 G	16754579.30	16754579.45	16754579.61	0.0135	0.0081
Mercury	41160-08-15 06:14 G	16754667.64	16754667.76	16754667.87	0.0135	0.0108
Mercury	41160-11-11 12:58 G	16754756.04	16754756.04	16754756.08	0.0135	0.0134
Venus	41178-10-25 02:24 G	16761312.50	16761312.60	16761312.74	0.0133	0.0111
Venus	41179-06-08 07:55 G	16761538.67	16761538.83	16761539.00	0.0133	0.0086
Venus	41180-01-20 12:58 G	16761764.86	16761765.04	16761765.25	0.0134	0.0062
Moon	41180-05-19 21:36 G	16761885.30	16761885.40	16761885.55	0.0134	0.0117
Earth	41180-05-20 01:41 G	16761885.45	16761885.57	16761885.70	0.0134	0.0115 *
Venus	41180-09-02 18:29 G	16761991.07	16761991.27	16761991.49	0.0134	0.0037
Venus	41181-04-17 00:14 G	16762217.29	16762217.51	16762217.73	0.0134	0.0012
Earth	41181-05-24 08:53 G	16762254.64	16762254.87	16762255.11	0.0134	0.0047
Moon	41181-05-24 11:46 G	16762254.77	16762254.99	16762255.24	0.0134	0.0051 *
Venus	41181-11-29 05:46 G	16762443.52	16762443.74	16762443.96	0.0134	0.0013
Moon	41182-05-28 12:58 G	16762623.80	16762624.04	16762624.30	0.0134	0.0027
Earth	41182-05-28 16:48 G	16762623.95	16762624.20	16762624.45	0.0134	0.0021 *
Venus	41182-07-13 11:17 G	16762669.77	16762669.97	16762670.18	0.0134	0.0039
Venus	41183-02-24 17:02 G	16762896.02	16762896.21	16762896.40	0.0134	0.0064
Earth	41183-06-02 00:43 G	16762993.35	16762993.53	16762993.72	0.0134	0.0091
Moon	41183-06-02 03:36 G	16762993.47	16762993.65	16762993.86	0.0134	0.0085 *
Venus	41183-10-08 22:48 G	16763122.29	16763122.45	16763122.62	0.0134	0.0089
Venus	41184-05-22 04:34 G	16763348.58	16763348.69	16763348.81	0.0135	0.0114
Mars	41198-06-08 21:50 G	16768479.33	16768479.41	16768479.53	0.0141	0.0131
Mercury	41202-02-24 04:05 G	16769835.62	16769835.67	16769835.74	0.0142	0.0127
Mercury	41202-05-23 07:41 G	16769923.73	16769923.82	16769923.91	0.0142	0.0105
Mercury	41202-08-19 11:02 G	16770011.86	16770011.96	16770012.07	0.0143	0.0085
Mercury	41202-11-15 14:24 G	16770099.99	16770100.10	16770100.22	0.0143	0.0064
Mercury	41203-02-11 18:00 G	16770188.12	16770188.25	16770188.38	0.0143	0.0042

Mercury	41203-05-10 21:22 G	16770276.26	16770276.39	16770276.52	0.0143	0.0021
Mercury	41203-08-07 00:58 G	16770364.41	16770364.54	16770364.67	0.0143	0.0001
Mercury	41203-11-03 04:19 G	16770452.55	16770452.68	16770452.82	0.0143	0.0023
Mercury	41204-01-30 07:55 G	16770540.71	16770540.83	16770540.96	0.0143	0.0044
Mercury	41204-04-27 11:31 G	16770628.86	16770628.98	16770629.10	0.0143	0.0066
Mercury	41204-07-24 15:07 G	16770717.02	16770717.13	16770717.23	0.0143	0.0088
Mercury	41204-10-20 18:29 G	16770805.19	16770805.27	16770805.36	0.0143	0.0110
Mercury	41205-01-16 22:05 G	16770893.37	16770893.42	16770893.47	0.0143	0.0132
Venus	41219-09-21 18:29 G	16776254.18	16776254.27	16776254.39	0.0145	0.0128
Venus	41220-05-05 07:12 G	16776480.64	16776480.80	16776480.96	0.0145	0.0096
Venus	41220-12-17 19:12 G	16776707.12	16776707.30	16776707.51	0.0145	0.0065
Venus	41221-08-01 07:41 G	16776933.61	16776933.82	16776934.04	0.0145	0.0033
Earth	41221-11-23 14:10 G	16777047.87	16777048.09	16777048.32	0.0144	0.0068
Moon	41221-11-23 17:31 G	16777048.02	16777048.23	16777048.45	0.0144	0.0075 *
Venus	41222-03-15 19:55 G	16777160.12	16777160.33	16777160.55	0.0144	0.0003
Venus	41222-10-28 08:10 G	16777386.63	16777386.84	16777387.05	0.0144	0.0031
Moon	41222-11-28 11:31 G	16777417.74	16777417.98	16777418.24	0.0144	0.0028
Earth	41222-11-28 15:22 G	16777417.89	16777418.14	16777418.40	0.0144	0.0019 *
Venus	41223-06-11 19:55 G	16777613.14	16777613.33	16777613.53	0.0144	0.0062
Earth	41223-12-03 15:22 G	16777787.99	16777788.14	16777788.34	0.0144	0.0106
Moon	41223-12-03 18:58 G	16777788.13	16777788.29	16777788.48	0.0144	0.0100 *
Venus	41224-01-24 07:55 G	16777839.67	16777839.83	16777840.00	0.0144	0.0093
Venus	41224-09-06 19:41 G	16778066.22	16778066.32	16778066.44	0.0144	0.0124
Mars	41238-11-17 15:50 G	16783250.84	16783251.16	16783251.50	0.0137	0.0035
Mercury	41242-07-02 18:58 G	16784574.23	16784574.29	16784574.36	0.0136	0.0128
Mercury	41242-09-29 02:24 G	16784662.48	16784662.60	16784662.74	0.0136	0.0100
Mercury	41242-12-26 10:05 G	16784750.76	16784750.92	16784751.09	0.0136	0.0072
Mercury	41243-03-24 17:31 G	16784839.06	16784839.23	16784839.42	0.0136	0.0045
Mercury	41243-06-21 01:12 G	16784927.36	16784927.55	16784927.74	0.0136	0.0017
Mercury	41243-09-17 08:38 G	16785015.67	16785015.86	16785016.05	0.0136	0.0010

Mercury	41243-12-14 16:05 G	16785103.98	16785104.17	16785104.35	0.0136	0.0037
Mercury	41244-03-11 23:17 G	16785192.30	16785192.47	16785192.65	0.0135	0.0064
Mercury	41244-06-08 06:29 G	16785280.64	16785280.77	16785280.92	0.0135	0.0091
Mercury	41244-09-04 13:55 G	16785368.99	16785369.08	16785369.18	0.0135	0.0117
Venus	41262-06-24 14:53 G	16791871.03	16791871.12	16791871.23	0.0133	0.0117
Venus	41263-02-05 20:10 G	16792097.20	16792097.34	16792097.51	0.0133	0.0093
Venus	41263-09-20 01:41 G	16792323.39	16792323.57	16792323.76	0.0134	0.0069
Venus	41264-05-03 07:12 G	16792549.59	16792549.80	16792550.00	0.0134	0.0044
Moon	41264-05-20 12:14 G	16792566.88	16792567.01	16792567.17	0.0134	0.0109
Earth	41264-05-20 15:50 G	16792567.03	16792567.16	16792567.32	0.0134	0.0109 *
Venus	41264-12-15 12:29 G	16792775.81	16792776.02	16792776.24	0.0134	0.0019
Earth	41265-05-24 23:02 G	16792936.23	16792936.46	16792936.71	0.0134	0.0041
Moon	41265-05-25 02:53 G	16792936.38	16792936.62	16792936.87	0.0134	0.0039 *
Venus	41265-07-29 18:00 G	16793002.03	16793002.25	16793002.47	0.0134	0.0006
Venus	41266-03-12 23:31 G	16793228.28	16793228.48	16793228.70	0.0134	0.0031
Moon	41266-05-29 03:22 G	16793305.40	16793305.64	16793305.90	0.0134	0.0024
Earth	41266-05-29 06:43 G	16793305.54	16793305.78	16793306.04	0.0134	0.0028 *
Venus	41266-10-25 05:02 G	16793454.53	16793454.71	16793454.92	0.0134	0.0056
Earth	41267-06-02 15:07 G	16793674.95	16793675.13	16793675.30	0.0134	0.0097
Moon	41267-06-02 18:14 G	16793675.12	16793675.26	16793675.43	0.0134	0.0104 *
Venus	41267-06-08 10:34 G	16793680.79	16793680.94	16793681.13	0.0134	0.0082
Venus	41268-01-20 16:34 G	16793907.06	16793907.19	16793907.33	0.0135	0.0106
Venus	41268-09-02 22:19 G	16794133.39	16794133.43	16794133.49	0.0135	0.0131
Mars	41283-02-01 12:43 G	16799397.75	16799398.03	16799398.31	0.0141	0.0017
Mercury	41285-12-18 08:10 G	16800448.84	16800448.84	16800448.86	0.0142	0.0141
Mercury	41286-03-16 11:31 G	16800536.92	16800536.98	16800537.06	0.0142	0.0121
Mercury	41286-06-12 15:07 G	16800625.04	16800625.13	16800625.23	0.0142	0.0099
Mercury	41286-09-08 18:29 G	16800713.17	16800713.27	16800713.38	0.0142	0.0079
Mercury	41286-12-05 21:50 G	16800801.30	16800801.41	16800801.54	0.0143	0.0058
Mercury	41287-03-04 01:26 G	16800889.43	16800889.56	16800889.69	0.0143	0.0036

Mercury	41287-05-31 04:48 G	16800977.58	16800977.70	16800977.84	0.0143	0.0016
Mercury	41287-08-27 08:24 G	16801065.72	16801065.85	16801065.98	0.0143	0.0007
Mercury	41287-11-23 11:46 G	16801153.87	16801153.99	16801154.13	0.0143	0.0029
Mercury	41288-02-19 15:22 G	16801242.02	16801242.14	16801242.27	0.0143	0.0050
Mercury	41288-05-17 18:43 G	16801330.18	16801330.28	16801330.40	0.0143	0.0073
Mercury	41288-08-13 22:34 G	16801418.34	16801418.44	16801418.54	0.0143	0.0094
Mercury	41288-11-10 02:10 G	16801506.51	16801506.59	16801506.66	0.0143	0.0116
Mercury	41289-02-06 05:31 G	16801594.70	16801594.73	16801594.77	0.0143	0.0138
Venus	41303-05-23 00:14 G	16806812.46	16806812.51	16806812.56	0.0145	0.0140
Venus	41304-01-04 12:29 G	16807038.89	16807039.02	16807039.17	0.0145	0.0109
Venus	41304-08-18 01:12 G	16807265.37	16807265.55	16807265.73	0.0145	0.0077
Venus	41305-04-01 13:26 G	16807491.86	16807492.06	16807492.27	0.0145	0.0046
Venus	41305-11-14 01:41 G	16807718.36	16807718.57	16807718.79	0.0145	0.0014
Earth	41305-11-24 23:31 G	16807729.26	16807729.48	16807729.72	0.0145	0.0065
Moon	41305-11-25 03:22 G	16807729.41	16807729.64	16807729.88	0.0145	0.0058 *
Venus	41306-06-28 13:41 G	16807944.86	16807945.07	16807945.30	0.0144	0.0019
Moon	41306-11-29 21:36 G	16808099.15	16808099.40	16808099.65	0.0144	0.0015
Earth	41306-11-30 00:58 G	16808099.29	16808099.54	16808099.80	0.0144	0.0023 *
Venus	41307-02-10 01:55 G	16808171.38	16808171.58	16808171.79	0.0144	0.0049
Venus	41307-09-24 13:41 G	16808397.91	16808398.07	16808398.27	0.0144	0.0081
Earth	41307-12-05 00:58 G	16808469.40	16808469.54	16808469.73	0.0144	0.0109
Moon	41307-12-05 04:48 G	16808469.56	16808469.70	16808469.87	0.0144	0.0114 *
Venus	41308-05-08 01:41 G	16808624.45	16808624.57	16808624.72	0.0144	0.0112
Venus	41308-12-20 13:26 G	16808851.04	16808851.06	16808851.10	0.0144	0.0142
Mercury	41326-07-24 02:24 G	16815275.52	16815275.60	16815275.71	0.0136	0.0120
Mercury	41326-10-20 10:19 G	16815363.79	16815363.93	16815364.08	0.0136	0.0091
Mercury	41327-01-16 17:46 G	16815452.08	16815452.24	16815452.42	0.0136	0.0064
Mercury	41327-04-15 01:26 G	16815540.37	16815540.56	16815540.75	0.0136	0.0036
Mercury	41327-07-12 08:53 G	16815628.68	16815628.87	16815629.07	0.0136	0.0009
Mercury	41327-10-08 16:19 G	16815716.99	16815717.18	16815717.37	0.0136	0.0019

Mercury	41328-01-04 23:46 G	16815805.31	16815805.49	16815805.67	0.0136	0.0045
Mercury	41328-04-02 06:58 G	16815893.64	16815893.79	16815893.96	0.0135	0.0073
Mercury	41328-06-29 14:10 G	16815981.97	16815982.09	16815982.23	0.0135	0.0099
Mercury	41328-09-25 21:36 G	16816070.34	16816070.40	16816070.48	0.0135	0.0126
Venus	41346-02-23 03:22 G	16822429.59	16822429.64	16822429.74	0.0133	0.0125
Venus	41346-10-07 09:07 G	16822655.74	16822655.88	16822656.02	0.0133	0.0100
Venus	41347-05-21 14:10 G	16822881.92	16822882.09	16822882.28	0.0134	0.0076
Venus	41348-01-02 19:41 G	16823108.12	16823108.32	16823108.52	0.0134	0.0051
Moon	41348-05-22 03:07 G	16823248.48	16823248.63	16823248.79	0.0134	0.0105
Earth	41348-05-22 06:29 G	16823248.63	16823248.77	16823248.95	0.0134	0.0103 *
Venus	41348-08-16 00:58 G	16823334.33	16823334.54	16823334.76	0.0134	0.0027
Venus	41349-03-30 06:43 G	16823560.56	16823560.78	16823561.00	0.0134	0.0002
Earth	41349-05-26 13:41 G	16823617.84	16823618.07	16823618.33	0.0134	0.0035
Moon	41349-05-26 17:31 G	16823617.98	16823618.23	16823618.47	0.0134	0.0037 *
Venus	41349-11-11 12:14 G	16823786.80	16823787.01	16823787.23	0.0134	0.0024
Moon	41350-05-30 18:00 G	16823987.00	16823987.25	16823987.49	0.0134	0.0039
Earth	41350-05-30 21:36 G	16823987.16	16823987.40	16823987.65	0.0134	0.0034 *
Venus	41350-06-25 17:46 G	16824013.04	16824013.24	16824013.45	0.0134	0.0049
Venus	41351-02-06 23:31 G	16824239.30	16824239.48	16824239.66	0.0134	0.0074
Earth	41351-06-04 05:17 G	16824356.58	16824356.72	16824356.90	0.0134	0.0104
Moon	41351-06-04 08:38 G	16824356.71	16824356.86	16824357.06	0.0134	0.0098 *
Venus	41351-09-21 05:02 G	16824465.57	16824465.71	16824465.86	0.0135	0.0099
Venus	41352-05-04 10:48 G	16824691.88	16824691.95	16824692.04	0.0135	0.0124
Mercury	41370-01-08 16:19 G	16831150.14	16831150.18	16831150.23	0.0142	0.0132
Mercury	41370-04-06 19:41 G	16831238.25	16831238.32	16831238.41	0.0142	0.0111
Mercury	41370-07-03 23:02 G	16831326.37	16831326.46	16831326.57	0.0142	0.0090
Mercury	41370-09-30 02:38 G	16831414.50	16831414.61	16831414.73	0.0142	0.0069
Mercury	41370-12-27 06:00 G	16831502.63	16831502.75	16831502.88	0.0143	0.0048
Mercury	41371-03-25 09:36 G	16831590.77	16831590.90	16831591.03	0.0143	0.0027
Mercury	41371-06-21 12:58 G	16831678.91	16831679.04	16831679.17	0.0143	0.0006

Mercury	41371-09-17 16:34 G	16831767.06	16831767.19	16831767.32	0.0143	0.0016
Mercury	41371-12-14 20:10 G	16831855.21	16831855.34	16831855.46	0.0143	0.0038
Mercury	41372-03-11 23:31 G	16831943.36	16831943.48	16831943.60	0.0143	0.0060
Mercury	41372-06-08 03:07 G	16832031.52	16832031.63	16832031.74	0.0143	0.0082
Mercury	41372-09-04 06:43 G	16832119.69	16832119.78	16832119.87	0.0143	0.0103
Mercury	41372-12-01 10:05 G	16832207.86	16832207.92	16832207.99	0.0143	0.0126
Venus	41387-09-03 21:36 G	16837597.28	16837597.40	16837597.53	0.0145	0.0119
Venus	41388-04-17 09:50 G	16837823.75	16837823.91	16837824.09	0.0145	0.0088
Moon	41388-11-20 09:07 G	16838040.87	16838040.88	16838040.93	0.0145	0.0144
Venus	41388-11-29 22:19 G	16838050.23	16838050.43	16838050.63	0.0145	0.0056
Venus	41389-07-14 10:34 G	16838276.73	16838276.94	16838277.16	0.0145	0.0024
Earth	41389-11-25 14:10 G	16838410.87	16838411.09	16838411.33	0.0144	0.0058
Moon	41389-11-25 17:31 G	16838411.01	16838411.23	16838411.47	0.0144	0.0065 *
Venus	41390-02-25 22:48 G	16838503.23	16838503.45	16838503.67	0.0144	0.0008
Venus	41390-10-10 10:48 G	16838729.75	16838729.95	16838730.17	0.0144	0.0040
Moon	41390-11-30 11:46 G	16838780.75	16838780.99	16838781.24	0.0144	0.0037
Earth	41390-11-30 15:36 G	16838780.90	16838781.15	16838781.40	0.0144	0.0029 *
Venus	41391-05-24 23:02 G	16838956.27	16838956.46	16838956.65	0.0144	0.0070
Earth	41391-12-05 15:36 G	16839151.01	16839151.15	16839151.32	0.0144	0.0115
Moon	41391-12-05 18:58 G	16839151.15	16839151.29	16839151.48	0.0144	0.0109 *
Venus	41392-01-06 10:48 G	16839182.80	16839182.95	16839183.11	0.0144	0.0101
Venus	41392-08-19 22:34 G	16839409.36	16839409.44	16839409.53	0.0144	0.0132
Mars	41406-04-06 10:05 G	16844385.65	16844385.92	16844386.23	0.0138	0.0073
Mercury	41410-08-14 10:48 G	16845976.84	16845976.95	16845977.07	0.0136	0.0109
Mercury	41410-11-10 18:14 G	16846065.12	16846065.26	16846065.43	0.0136	0.0081
Mercury	41411-02-07 01:55 G	16846153.41	16846153.58	16846153.77	0.0136	0.0053
Mercury	41411-05-06 09:36 G	16846241.71	16846241.90	16846242.09	0.0136	0.0026
Mercury	41411-08-02 17:02 G	16846330.02	16846330.21	16846330.41	0.0136	0.0003
Mercury	41411-10-30 00:29 G	16846418.34	16846418.52	16846418.71	0.0136	0.0029
Mercury	41412-01-26 07:41 G	16846506.66	16846506.82	16846507.01	0.0136	0.0057

Mercury	41412-04-23 15:22 G	16846594.99	16846595.14	16846595.29	0.0135	0.0083
Mercury	41412-07-20 22:34 G	16846683.34	16846683.44	16846683.56	0.0135	0.0110
Venus	41429-10-24 16:19 G	16852988.16	16852988.18	16852988.23	0.0133	0.0131
Venus	41430-06-07 21:36 G	16853214.29	16853214.40	16853214.54	0.0133	0.0107
Venus	41431-01-20 03:07 G	16853440.47	16853440.63	16853440.81	0.0134	0.0083
Venus	41431-09-03 08:38 G	16853666.66	16853666.86	16853667.06	0.0134	0.0058
Venus	41432-04-16 13:55 G	16853892.88	16853893.08	16853893.30	0.0134	0.0034
Moon	41432-05-23 18:14 G	16853930.08	16853930.26	16853930.43	0.0134	0.0095
Earth	41432-05-23 21:50 G	16853930.23	16853930.41	16853930.58	0.0134	0.0096 *
Venus	41432-11-28 19:26 G	16854119.10	16854119.31	16854119.53	0.0134	0.0009
Earth	41433-05-28 04:48 G	16854299.46	16854299.70	16854299.95	0.0134	0.0028
Moon	41433-05-28 08:24 G	16854299.61	16854299.85	16854300.11	0.0134	0.0027 *
Venus	41433-07-13 00:58 G	16854345.33	16854345.54	16854345.76	0.0134	0.0016
Venus	41434-02-24 06:29 G	16854571.57	16854571.77	16854571.98	0.0134	0.0042
Moon	41434-06-01 09:07 G	16854668.64	16854668.88	16854669.13	0.0134	0.0037
Earth	41434-06-01 12:14 G	16854668.78	16854669.01	16854669.27	0.0134	0.0042 *
Venus	41434-10-08 12:00 G	16854797.82	16854798.00	16854798.20	0.0134	0.0067
Venus	41435-05-22 17:31 G	16855024.09	16855024.23	16855024.40	0.0134	0.0092
Earth	41435-06-05 20:24 G	16855038.21	16855038.35	16855038.50	0.0135	0.0110
Moon	41435-06-06 00:14 G	16855038.39	16855038.51	16855038.64	0.0135	0.0117 *
Venus	41436-01-03 23:02 G	16855250.37	16855250.46	16855250.59	0.0135	0.0117
Mars	41450-06-24 02:38 G	16860535.38	16860535.61	16860535.87	0.0141	0.0066
Mercury	41454-01-30 00:14 G	16861851.46	16861851.51	16861851.58	0.0142	0.0123
Mercury	41454-04-28 03:50 G	16861939.57	16861939.66	16861939.75	0.0142	0.0102
Mercury	41454-07-25 07:12 G	16862027.69	16862027.80	16862027.91	0.0142	0.0081
Mercury	41454-10-21 10:34 G	16862115.83	16862115.94	16862116.06	0.0142	0.0060
Mercury	41455-01-17 13:55 G	16862203.96	16862204.08	16862204.21	0.0142	0.0040
Mercury	41455-04-15 17:31 G	16862292.10	16862292.23	16862292.36	0.0143	0.0018
Mercury	41455-07-12 21:07 G	16862380.24	16862380.38	16862380.51	0.0143	0.0005
Mercury	41455-10-09 00:29 G	16862468.39	16862468.52	16862468.65	0.0143	0.0025

Mercury	41456-01-05 04:05 G	16862556.54	16862556.67	16862556.79	0.0143	0.0047
Mercury	41456-04-02 07:26 G	16862644.70	16862644.81	16862644.93	0.0143	0.0069
Mercury	41456-06-29 11:02 G	16862732.86	16862732.96	16862733.06	0.0143	0.0091
Mercury	41456-09-25 14:38 G	16862821.03	16862821.11	16862821.19	0.0143	0.0112
Mercury	41456-12-22 18:14 G	16862909.22	16862909.26	16862909.30	0.0143	0.0135
Venus	41471-05-05 06:00 G	16868155.67	16868155.75	16868155.86	0.0145	0.0130
Venus	41471-12-17 18:43 G	16868382.13	16868382.28	16868382.44	0.0145	0.0098
Venus	41472-07-31 06:58 G	16868608.61	16868608.79	16868609.00	0.0145	0.0067
Moon	41472-11-22 00:00 G	16868722.48	16868722.50	16868722.57	0.0145	0.0142
Earth	41472-11-22 02:53 G	16868722.57	16868722.62	16868722.71	0.0145	0.0139 *
Venus	41473-03-14 19:26 G	16868835.10	16868835.31	16868835.53	0.0145	0.0035
Venus	41473-10-27 07:41 G	16869061.61	16869061.82	16869062.04	0.0145	0.0004
Earth	41473-11-27 04:34 G	16869092.47	16869092.69	16869092.94	0.0145	0.0052
Moon	41473-11-27 08:10 G	16869092.60	16869092.84	16869093.09	0.0145	0.0045 *
Venus	41474-06-10 19:55 G	16869288.11	16869288.33	16869288.54	0.0144	0.0029
Moon	41474-12-02 02:38 G	16869462.37	16869462.61	16869462.87	0.0144	0.0029
Earth	41474-12-02 05:46 G	16869462.51	16869462.74	16869463.00	0.0144	0.0036 *
Venus	41475-01-23 07:41 G	16869514.63	16869514.82	16869515.03	0.0144	0.0060
Venus	41475-09-06 19:41 G	16869741.16	16869741.32	16869741.50	0.0144	0.0091
Earth	41475-12-07 05:46 G	16869832.63	16869832.74	16869832.90	0.0144	0.0122
Moon	41475-12-07 09:36 G	16869832.80	16869832.90	16869833.04	0.0144	0.0128 *
Venus	41476-04-20 07:26 G	16869967.71	16869967.81	16869967.93	0.0144	0.0122
Mars	41490-12-01 21:07 G	16875306.17	16875306.38	16875306.60	0.0138	0.0106
Mercury	41494-06-07 11:31 G	16876589.92	16876589.98	16876590.07	0.0136	0.0125
Mercury	41494-09-03 19:12 G	16876678.18	16876678.30	16876678.45	0.0136	0.0097
Mercury	41494-12-01 03:07 G	16876766.46	16876766.63	16876766.79	0.0136	0.0069
Mercury	41495-02-27 10:34 G	16876854.76	16876854.94	16876855.13	0.0136	0.0042
Mercury	41495-05-26 18:00 G	16876943.06	16876943.25	16876943.45	0.0136	0.0015
Mercury	41495-08-23 01:26 G	16877031.37	16877031.56	16877031.76	0.0136	0.0014
Mercury	41495-11-19 08:53 G	16877119.69	16877119.87	16877120.06	0.0136	0.0041

Mercury	41496-02-15 16:19 G	16877208.02	16877208.18	16877208.35	0.0136	0.0068
Mercury	41496-05-13 23:31 G	16877296.36	16877296.48	16877296.63	0.0135	0.0095
Mercury	41496-08-10 06:43 G	16877384.72	16877384.78	16877384.88	0.0135	0.0122
Venus	41514-02-06 10:48 G	16883772.84	16883772.95	16883773.07	0.0133	0.0114
Venus	41514-09-20 16:05 G	16883999.01	16883999.17	16883999.34	0.0133	0.0090
Venus	41515-05-04 21:07 G	16884225.21	16884225.38	16884225.59	0.0134	0.0066
Venus	41515-12-17 02:38 G	16884451.41	16884451.61	16884451.82	0.0134	0.0041
Moon	41516-05-25 09:07 G	16884611.71	16884611.88	16884612.07	0.0134	0.0093
Earth	41516-05-25 12:14 G	16884611.84	16884612.01	16884612.22	0.0134	0.0090 *
Venus	41516-07-30 08:10 G	16884677.63	16884677.84	16884678.06	0.0134	0.0016
Venus	41517-03-13 13:41 G	16884903.86	16884904.07	16884904.29	0.0134	0.0009
Earth	41517-05-29 19:26 G	16884981.07	16884981.31	16884981.57	0.0134	0.0022
Moon	41517-05-29 23:02 G	16884981.21	16884981.46	16884981.72	0.0134	0.0024 *
Venus	41517-10-25 19:12 G	16885130.09	16885130.30	16885130.51	0.0134	0.0034
Moon	41518-06-02 23:31 G	16885350.26	16885350.48	16885350.72	0.0134	0.0051
Earth	41518-06-03 03:07 G	16885350.40	16885350.63	16885350.88	0.0134	0.0047 *
Venus	41518-06-09 00:29 G	16885356.34	16885356.52	16885356.72	0.0134	0.0059
Venus	41519-01-21 06:00 G	16885582.59	16885582.75	16885582.93	0.0134	0.0084
Earth	41519-06-07 10:48 G	16885719.85	16885719.95	16885720.10	0.0135	0.0117
Moon	41519-06-07 14:10 G	16885719.97	16885720.09	16885720.26	0.0135	0.0111 *
Venus	41519-09-04 11:46 G	16885808.87	16885808.99	16885809.12	0.0135	0.0109
Venus	41520-04-17 17:31 G	16886035.22	16886035.23	16886035.27	0.0135	0.0134
Mars	41535-02-17 22:34 G	16891454.23	16891454.44	16891454.67	0.0141	0.0086
Mercury	41537-11-24 04:48 G	16892464.67	16892464.70	16892464.75	0.0142	0.0135
Mercury	41538-02-20 08:24 G	16892552.78	16892552.85	16892552.93	0.0142	0.0114
Mercury	41538-05-19 11:46 G	16892640.90	16892640.99	16892641.09	0.0142	0.0093
Mercury	41538-08-15 15:07 G	16892729.03	16892729.13	16892729.25	0.0142	0.0073
Mercury	41538-11-11 18:43 G	16892817.16	16892817.28	16892817.40	0.0142	0.0051
Mercury	41539-02-07 22:05 G	16892905.30	16892905.42	16892905.55	0.0143	0.0030
Mercury	41539-05-07 01:41 G	16892993.44	16892993.57	16892993.70	0.0143	0.0008

Mercury	41539-08-03 05:02 G	16893081.58	16893081.71	16893081.84	0.0143	0.0014
Mercury	41539-10-30 08:38 G	16893169.73	16893169.86	16893169.99	0.0143	0.0035
Mercury	41540-01-26 12:00 G	16893257.88	16893258.00	16893258.13	0.0143	0.0057
Mercury	41540-04-23 15:36 G	16893346.04	16893346.15	16893346.26	0.0143	0.0078
Mercury	41540-07-20 19:12 G	16893434.21	16893434.30	16893434.39	0.0143	0.0100
Mercury	41540-10-16 22:48 G	16893522.38	16893522.45	16893522.52	0.0143	0.0122
Venus	41555-01-03 16:19 G	16898714.12	16898714.18	16898714.23	0.0145	0.0139
Venus	41555-08-18 04:34 G	16898940.56	16898940.69	16898940.85	0.0145	0.0108
Venus	41556-03-31 17:17 G	16899167.04	16899167.22	16899167.41	0.0145	0.0076
Venus	41556-11-13 05:31 G	16899393.53	16899393.73	16899393.94	0.0145	0.0045
Moon	41556-11-23 17:02 G	16899404.12	16899404.21	16899404.34	0.0145	0.0129
Earth	41556-11-23 19:41 G	16899404.22	16899404.32	16899404.44	0.0145	0.0130 *
Venus	41557-06-27 17:46 G	16899620.02	16899620.24	16899620.46	0.0145	0.0013
Earth	41557-11-28 21:22 G	16899774.16	16899774.39	16899774.64	0.0145	0.0043
Moon	41557-11-29 00:14 G	16899774.27	16899774.51	16899774.76	0.0145	0.0048 *
Venus	41558-02-09 05:46 G	16899846.53	16899846.74	16899846.97	0.0144	0.0020
Venus	41558-09-23 18:00 G	16900073.05	16900073.25	16900073.46	0.0144	0.0051
Moon	41558-12-03 18:58 G	16900144.06	16900144.29	16900144.53	0.0144	0.0052
Earth	41558-12-03 22:19 G	16900144.20	16900144.43	16900144.68	0.0144	0.0045 *
Venus	41559-05-08 05:46 G	16900299.58	16900299.74	16900299.94	0.0144	0.0082
Earth	41559-12-08 22:34 G	16900514.35	16900514.44	16900514.56	0.0144	0.0130
Moon	41559-12-09 02:10 G	16900514.46	16900514.59	16900514.73	0.0144	0.0123 *
Venus	41559-12-20 17:31 G	16900526.11	16900526.23	16900526.38	0.0144	0.0113
Venus	41560-08-03 05:17 G	16900752.71	16900752.72	16900752.75	0.0144	0.0143
Mercury	41578-06-28 20:24 G	16907291.26	16907291.35	16907291.48	0.0136	0.0113
Mercury	41578-09-25 04:19 G	16907379.53	16907379.68	16907379.84	0.0136	0.0084
Mercury	41578-12-22 11:46 G	16907467.82	16907467.99	16907468.18	0.0136	0.0057
Mercury	41579-03-20 19:26 G	16907556.12	16907556.31	16907556.50	0.0136	0.0029
Mercury	41579-06-17 02:53 G	16907644.43	16907644.62	16907644.82	0.0136	0.0004
Mercury	41579-09-13 10:34 G	16907732.75	16907732.94	16907733.13	0.0136	0.0026

Mercury	41579-12-10 17:46 G	16907821.07	16907821.24	16907821.43	0.0136	0.0053
Mercury	41580-03-08 00:58 G	16907909.40	16907909.54	16907909.71	0.0135	0.0081
Mercury	41580-06-04 08:24 G	16907997.75	16907997.85	16907997.98	0.0135	0.0107
Mercury	41580-08-31 15:50 G	16908086.14	16908086.16	16908086.20	0.0135	0.0134
Venus	41597-10-06 23:17 G	16914331.39	16914331.47	16914331.57	0.0133	0.0121
Venus	41598-05-21 04:19 G	16914557.55	16914557.68	16914557.85	0.0133	0.0098
Venus	41599-01-02 09:50 G	16914783.73	16914783.91	16914784.10	0.0133	0.0073
Venus	41599-08-16 14:53 G	16915009.93	16915010.12	16915010.34	0.0134	0.0049
Venus	41600-03-29 20:38 G	16915236.15	16915236.36	16915236.58	0.0134	0.0023
Moon	41600-05-25 23:17 G	16915293.29	16915293.47	16915293.68	0.0134	0.0082
Earth	41600-05-26 02:53 G	16915293.42	16915293.62	16915293.82	0.0134	0.0083 *
Venus	41600-11-11 01:55 G	16915462.37	16915462.58	16915462.80	0.0134	0.0003
Earth	41601-05-30 09:50 G	16915662.66	16915662.91	16915663.16	0.0134	0.0015
Moon	41601-05-30 12:58 G	16915662.79	16915663.04	16915663.30	0.0134	0.0015 *
Venus	41601-06-25 07:26 G	16915688.60	16915688.81	16915689.02	0.0134	0.0026
Venus	41602-02-06 12:43 G	16915914.84	16915915.03	16915915.24	0.0134	0.0051
Moon	41602-06-03 14:10 G	16916031.86	16916032.09	16916032.33	0.0134	0.0050
Earth	41602-06-03 17:17 G	16916031.99	16916032.22	16916032.46	0.0134	0.0054 *
Venus	41602-09-20 18:00 G	16916141.09	16916141.25	16916141.45	0.0134	0.0077
Venus	41603-05-05 00:00 G	16916367.36	16916367.50	16916367.65	0.0134	0.0101
Earth	41603-06-08 00:43 G	16916401.44	16916401.53	16916401.65	0.0134	0.0123
Moon	41603-06-08 04:05 G	16916401.63	16916401.67	16916401.76	0.0134	0.0130 *
Venus	41603-12-17 05:31 G	16916593.66	16916593.73	16916593.81	0.0135	0.0126
Mercury	41621-12-14 12:29 G	16923165.97	16923166.02	16923166.08	0.0142	0.0129
Mercury	41622-03-12 15:50 G	16923254.08	16923254.16	16923254.25	0.0142	0.0108
Mercury	41622-06-08 19:12 G	16923342.21	16923342.30	16923342.41	0.0142	0.0087
Mercury	41622-09-04 22:48 G	16923430.34	16923430.45	16923430.57	0.0142	0.0066
Mercury	41622-12-02 02:24 G	16923518.47	16923518.60	16923518.72	0.0142	0.0045
Mercury	41623-02-28 05:46 G	16923606.61	16923606.74	16923606.87	0.0142	0.0023
Mercury	41623-05-27 09:07 G	16923694.75	16923694.88	16923695.02	0.0143	0.0004

Mercury	41623-08-23 12:43 G	16923782.90	16923783.03	16923783.16	0.0143	0.0020
Mercury	41623-11-19 16:05 G	16923871.05	16923871.17	16923871.30	0.0143	0.0042
Mercury	41624-02-15 19:41 G	16923959.20	16923959.32	16923959.44	0.0143	0.0063
Mercury	41624-05-13 23:02 G	16924047.36	16924047.46	16924047.57	0.0143	0.0085
Mercury	41624-08-10 02:38 G	16924135.53	16924135.61	16924135.70	0.0143	0.0107
Mercury	41624-11-06 06:14 G	16924223.71	16924223.76	16924223.82	0.0143	0.0129
Venus	41639-04-17 11:31 G	16929498.87	16929498.98	16929499.11	0.0145	0.0120
Venus	41639-11-29 23:46 G	16929725.33	16929725.49	16929725.67	0.0145	0.0089
Venus	41640-07-13 12:14 G	16929951.82	16929952.01	16929952.22	0.0145	0.0057
Moon	41640-11-24 05:17 G	16930085.61	16930085.72	16930085.85	0.0145	0.0127
Earth	41640-11-24 07:12 G	16930085.68	16930085.80	16930085.93	0.0145	0.0125 *
Venus	41641-02-25 00:43 G	16930178.32	16930178.53	16930178.75	0.0145	0.0025
Venus	41641-10-09 12:58 G	16930404.83	16930405.04	16930405.26	0.0145	0.0007
Earth	41641-11-29 08:53 G	16930455.62	16930455.87	16930456.12	0.0145	0.0038
Moon	41641-11-29 11:31 G	16930455.73	16930455.98	16930456.24	0.0145	0.0032 *
Venus	41642-05-24 00:58 G	16930631.34	16930631.54	16930631.76	0.0144	0.0039
Moon	41642-12-04 07:26 G	16930825.57	16930825.81	16930826.05	0.0144	0.0042
Earth	41642-12-04 09:50 G	16930825.68	16930825.91	16930826.16	0.0144	0.0050 *
Venus	41643-01-05 13:12 G	16930857.86	16930858.05	16930858.24	0.0144	0.0070
Venus	41643-08-20 00:43 G	16931084.39	16931084.53	16931084.70	0.0144	0.0101
Earth	41643-12-09 10:19 G	16931195.85	16931195.93	16931196.02	0.0144	0.0135
Moon	41643-12-09 13:26 G	16931196.04	16931196.06	16931196.12	0.0144	0.0142
Venus	41644-04-02 12:43 G	16931310.95	16931311.03	16931311.13	0.0144	0.0131
Mars	41658-04-20 01:41 G	16936441.24	16936441.57	16936441.92	0.0138	0.0009
Mercury	41662-04-21 21:22 G	16937904.34	16937904.39	16937904.45	0.0136	0.0129
Mercury	41662-07-19 05:02 G	16937992.59	16937992.71	16937992.84	0.0136	0.0101
Mercury	41662-10-15 12:43 G	16938080.87	16938081.03	16938081.20	0.0136	0.0073
Mercury	41663-01-11 20:10 G	16938169.17	16938169.34	16938169.53	0.0136	0.0046
Mercury	41663-04-10 03:50 G	16938257.47	16938257.66	16938257.86	0.0136	0.0018
Mercury	41663-07-07 11:17 G	16938345.78	16938345.97	16938346.17	0.0136	0.0010

Mercury	41663-10-03 18:58 G	16938434.10	16938434.29	16938434.47	0.0136	0.0037
Mercury	41663-12-31 02:24 G	16938522.43	16938522.60	16938522.77	0.0136	0.0064
Mercury	41664-03-28 09:22 G	16938610.76	16938610.89	16938611.05	0.0135	0.0092
Mercury	41664-06-24 17:02 G	16938699.12	16938699.21	16938699.31	0.0135	0.0118
Venus	41681-06-06 11:31 G	16944889.94	16944889.98	16944890.04	0.0133	0.0129
Venus	41682-01-18 16:48 G	16945116.07	16945116.20	16945116.34	0.0133	0.0104
Venus	41682-09-01 21:50 G	16945342.25	16945342.41	16945342.59	0.0133	0.0081
Venus	41683-04-16 03:22 G	16945568.44	16945568.64	16945568.84	0.0133	0.0056
Venus	41683-11-28 08:24 G	16945794.65	16945794.85	16945795.07	0.0134	0.0032
Moon	41684-05-26 13:41 G	16945974.88	16945975.07	16945975.27	0.0134	0.0081
Earth	41684-05-26 16:19 G	16945974.97	16945975.18	16945975.39	0.0134	0.0077 *
Venus	41684-07-11 13:55 G	16946020.86	16946021.08	16946021.29	0.0134	0.0007
Venus	41685-02-22 19:12 G	16946247.09	16946247.30	16946247.52	0.0134	0.0018
Earth	41685-05-30 23:02 G	16946344.21	16946344.46	16946344.72	0.0134	0.0009
Moon	41685-05-31 02:10 G	16946344.33	16946344.59	16946344.84	0.0134	0.0010 *
Venus	41685-10-07 00:29 G	16946473.32	16946473.52	16946473.73	0.0134	0.0043
Venus	41686-05-21 05:46 G	16946699.57	16946699.74	16946699.94	0.0134	0.0068
Moon	41686-06-04 03:22 G	16946713.42	16946713.64	16946713.86	0.0134	0.0063
Earth	41686-06-04 06:14 G	16946713.54	16946713.76	16946714.00	0.0134	0.0060 *
Venus	41687-01-02 11:17 G	16946925.82	16946925.97	16946926.14	0.0134	0.0093
Earth	41687-06-08 13:41 G	16947083.02	16947083.07	16947083.16	0.0134	0.0129
Moon	41687-06-08 16:48 G	16947083.11	16947083.20	16947083.31	0.0134	0.0123 *
Venus	41687-08-16 16:48 G	16947152.11	16947152.20	16947152.32	0.0134	0.0117
Mars	41702-07-09 02:24 G	16952591.32	16952591.60	16952591.88	0.0140	0.0010
Mercury	41706-01-04 19:55 G	16953867.27	16953867.33	16953867.40	0.0142	0.0123
Mercury	41706-04-02 23:17 G	16953955.39	16953955.47	16953955.56	0.0142	0.0102
Mercury	41706-06-30 02:38 G	16954043.51	16954043.61	16954043.72	0.0142	0.0081
Mercury	41706-09-26 06:14 G	16954131.64	16954131.76	16954131.88	0.0142	0.0060
Mercury	41706-12-23 09:36 G	16954219.78	16954219.90	16954220.03	0.0142	0.0039
Mercury	41707-03-21 13:12 G	16954307.92	16954308.05	16954308.18	0.0142	0.0018

Mercury	41707-06-17 16:34 G	16954396.06	16954396.19	16954396.32	0.0143	0.0004
Mercury	41707-09-13 19:55 G	16954484.21	16954484.33	16954484.47	0.0143	0.0026
Mercury	41707-12-10 23:31 G	16954572.36	16954572.48	16954572.61	0.0143	0.0047
Mercury	41708-03-08 02:53 G	16954660.51	16954660.62	16954660.74	0.0143	0.0069
Mercury	41708-06-04 06:29 G	16954748.67	16954748.77	16954748.88	0.0143	0.0091
Mercury	41708-08-31 10:05 G	16954836.84	16954836.92	16954837.00	0.0143	0.0112
Mercury	41708-11-27 13:41 G	16954925.03	16954925.07	16954925.11	0.0143	0.0134
Venus	41722-12-16 17:17 G	16960057.15	16960057.22	16960057.32	0.0145	0.0133
Venus	41723-07-31 06:00 G	16960283.60	16960283.75	16960283.91	0.0145	0.0101
Venus	41724-03-13 18:14 G	16960510.08	16960510.26	16960510.47	0.0145	0.0070
Venus	41724-10-26 06:43 G	16960736.58	16960736.78	16960737.00	0.0145	0.0038
Moon	41724-11-25 15:50 G	16960767.05	16960767.16	16960767.31	0.0145	0.0122
Earth	41724-11-25 17:31 G	16960767.09	16960767.23	16960767.37	0.0145	0.0121 *
Venus	41725-06-09 19:12 G	16960963.08	16960963.30	16960963.52	0.0145	0.0006
Earth	41725-11-30 18:58 G	16961137.05	16961137.29	16961137.54	0.0145	0.0034
Moon	41725-11-30 20:38 G	16961137.11	16961137.36	16961137.62	0.0145	0.0038 *
Venus	41726-01-22 07:26 G	16961189.59	16961189.81	16961190.02	0.0145	0.0026
Venus	41726-09-05 19:26 G	16961416.11	16961416.31	16961416.52	0.0144	0.0057
Moon	41726-12-05 17:17 G	16961507.01	16961507.22	16961507.46	0.0144	0.0061
Earth	41726-12-05 19:55 G	16961507.11	16961507.33	16961507.58	0.0144	0.0054 *
Venus	41727-04-20 07:26 G	16961642.64	16961642.81	16961642.99	0.0144	0.0088
Venus	41727-12-02 19:12 G	16961869.19	16961869.30	16961869.43	0.0144	0.0119
Earth	41727-12-10 20:38 G	16961877.30	16961877.36	16961877.43	0.0144	0.0139
Moon	41727-12-10 23:02 G	16961877.37	16961877.46	16961877.58	0.0144	0.0132 *
Mercury	41746-05-13 05:17 G	16968605.64	16968605.72	16968605.82	0.0136	0.0120
Mercury	41746-08-09 13:12 G	16968693.91	16968694.05	16968694.19	0.0136	0.0091
Mercury	41746-11-05 20:53 G	16968782.20	16968782.37	16968782.54	0.0136	0.0063
Mercury	41747-02-02 04:19 G	16968870.50	16968870.68	16968870.87	0.0136	0.0036
Mercury	41747-05-01 12:00 G	16968958.81	16968959.00	16968959.19	0.0136	0.0008
Mercury	41747-07-28 19:26 G	16969047.12	16969047.31	16969047.50	0.0136	0.0020

Mercury	41747-10-25 02:53 G	16969135.44	16969135.62	16969135.81	0.0136	0.0047
Mercury	41748-01-21 10:19 G	16969223.77	16969223.93	16969224.10	0.0136	0.0074
Mercury	41748-04-18 17:31 G	16969312.12	16969312.23	16969312.37	0.0136	0.0101
Mercury	41748-07-16 01:12 G	16969400.49	16969400.55	16969400.61	0.0135	0.0128
Venus	41765-09-19 04:48 G	16975674.60	16975674.70	16975674.83	0.0133	0.0112
Venus	41766-05-03 10:19 G	16975900.77	16975900.93	16975901.09	0.0133	0.0088
Venus	41766-12-15 15:22 G	16976126.95	16976127.14	16976127.34	0.0133	0.0063
Venus	41767-07-29 20:38 G	16976353.15	16976353.36	16976353.57	0.0133	0.0039
Venus	41768-03-12 01:55 G	16976579.37	16976579.58	16976579.80	0.0134	0.0015
Moon	41768-05-28 03:07 G	16976656.43	16976656.63	16976656.85	0.0134	0.0069
Earth	41768-05-28 05:31 G	16976656.53	16976656.73	16976656.96	0.0134	0.0072 *
Venus	41768-10-24 07:12 G	16976805.59	16976805.80	16976806.02	0.0134	0.0010
Earth	41769-06-01 12:43 G	16977025.78	16977026.03	16977026.28	0.0134	0.0003
Moon	41769-06-01 15:07 G	16977025.87	16977026.13	16977026.39	0.0134	0.0005 *
Venus	41769-06-07 12:29 G	16977031.81	16977032.02	16977032.23	0.0134	0.0035
Venus	41770-01-19 17:31 G	16977258.05	16977258.23	16977258.44	0.0134	0.0060
Moon	41770-06-05 17:17 G	16977395.02	16977395.22	16977395.45	0.0134	0.0063
Earth	41770-06-05 19:55 G	16977395.11	16977395.33	16977395.56	0.0134	0.0065 *
Venus	41770-09-02 23:17 G	16977484.31	16977484.47	16977484.64	0.0134	0.0084
Venus	41771-04-17 04:34 G	16977710.59	16977710.69	16977710.84	0.0134	0.0110
Earth	41771-06-10 03:07 G	16977764.63	16977764.63	16977764.67	0.0134	0.0134
Venus	41771-11-29 10:34 G	16977936.93	16977936.94	16977936.97	0.0134	0.0134
Mars	41787-03-03 14:38 G	16983510.08	16983510.11	16983510.19	0.0141	0.0138
Mercury	41789-10-29 00:00 G	16984480.47	16984480.50	16984480.52	0.0142	0.0138
Mercury	41790-01-25 03:07 G	16984568.57	16984568.63	16984568.71	0.0142	0.0118
Mercury	41790-04-23 06:29 G	16984656.69	16984656.77	16984656.88	0.0142	0.0097
Mercury	41790-07-20 10:05 G	16984744.81	16984744.92	16984745.03	0.0142	0.0076
Mercury	41790-10-16 13:26 G	16984832.94	16984833.06	16984833.19	0.0142	0.0055
Mercury	41791-01-12 17:02 G	16984921.08	16984921.21	16984921.34	0.0142	0.0034
Mercury	41791-04-10 20:24 G	16985009.22	16985009.35	16985009.48	0.0142	0.0012

Mercury	41791-07-08 00:00 G	16985097.37	16985097.50	16985097.63	0.0142	0.0010
Mercury	41791-10-04 03:22 G	16985185.51	16985185.64	16985185.77	0.0143	0.0031
Mercury	41791-12-31 06:43 G	16985273.66	16985273.78	16985273.91	0.0143	0.0052
Mercury	41792-03-28 10:19 G	16985361.82	16985361.93	16985362.04	0.0143	0.0074
Mercury	41792-06-24 13:41 G	16985449.98	16985450.07	16985450.17	0.0143	0.0096
Mercury	41792-09-20 17:02 G	16985538.15	16985538.21	16985538.30	0.0143	0.0118
Mercury	41792-12-17 20:53 G	16985626.35	16985626.37	16985626.40	0.0143	0.0139
Venus	41807-03-31 09:50 G	16990841.80	16990841.91	16990842.06	0.0145	0.0116
Venus	41807-11-12 22:34 G	16991068.27	16991068.44	16991068.63	0.0145	0.0083
Venus	41808-06-26 10:48 G	16991294.76	16991294.95	16991295.16	0.0145	0.0052
Moon	41808-11-26 23:46 G	16991448.37	16991448.49	16991448.64	0.0145	0.0120
Earth	41808-11-26 23:46 G	16991448.38	16991448.49	16991448.66	0.0145	0.0121 *
Venus	41809-02-07 23:17 G	16991521.25	16991521.47	16991521.69	0.0145	0.0020
Venus	41809-09-22 11:31 G	16991747.77	16991747.98	16991748.20	0.0145	0.0012
Earth	41809-12-02 01:55 G	16991818.33	16991818.58	16991818.83	0.0145	0.0033
Moon	41809-12-02 02:53 G	16991818.37	16991818.62	16991818.89	0.0145	0.0029 *
Venus	41810-05-06 23:31 G	16991974.28	16991974.48	16991974.70	0.0145	0.0044
Moon	41810-12-07 01:26 G	16992188.34	16992188.56	16992188.80	0.0144	0.0049
Earth	41810-12-07 02:53 G	16992188.39	16992188.62	16992188.86	0.0144	0.0055 *
Venus	41810-12-19 11:31 G	16992200.80	16992200.98	16992201.18	0.0144	0.0075
Venus	41811-08-02 23:31 G	16992427.34	16992427.48	16992427.63	0.0144	0.0105
Earth	41811-12-12 03:22 G	16992558.60	16992558.64	16992558.71	0.0144	0.0140
Venus	41812-03-16 11:02 G	16992653.91	16992653.96	16992654.05	0.0144	0.0136
Mars	41825-09-06 09:07 G	16997575.70	16997575.88	16997576.11	0.0138	0.0112
Mercury	41830-06-03 12:14 G	16999306.92	16999307.01	16999307.13	0.0136	0.0114
Mercury	41830-08-30 19:55 G	16999395.19	16999395.33	16999395.49	0.0136	0.0086
Mercury	41830-11-27 03:36 G	16999483.48	16999483.65	16999483.84	0.0136	0.0058
Mercury	41831-02-23 11:31 G	16999571.79	16999571.98	16999572.17	0.0136	0.0029
Mercury	41831-05-22 18:58 G	16999660.10	16999660.29	16999660.49	0.0136	0.0003
Mercury	41831-08-19 02:38 G	16999748.42	16999748.61	16999748.80	0.0136	0.0026

Mercury	41831-11-15 09:50 G	16999836.74	16999836.91	16999837.10	0.0136	0.0054
Mercury	41832-02-11 17:17 G	16999925.08	16999925.22	16999925.39	0.0136	0.0081
Mercury	41832-05-10 00:43 G	17000013.43	17000013.53	17000013.66	0.0136	0.0108
Mercury	41832-08-06 08:10 G	17000101.83	17000101.84	17000101.87	0.0136	0.0135
Venus	41849-05-20 16:34 G	17006233.11	17006233.19	17006233.30	0.0133	0.0119
Venus	41850-01-01 21:36 G	17006459.27	17006459.40	17006459.57	0.0133	0.0096
Venus	41850-08-16 02:53 G	17006685.45	17006685.62	17006685.82	0.0133	0.0071
Venus	41851-03-30 08:24 G	17006911.65	17006911.85	17006912.06	0.0133	0.0047
Moon	41851-05-26 14:24 G	17006969.04	17006969.10	17006969.18	0.0134	0.0128
Venus	41851-11-11 13:41 G	17007137.86	17007138.07	17007138.29	0.0134	0.0022
Moon	41852-05-29 17:17 G	17007338.02	17007338.22	17007338.44	0.0134	0.0071
Earth	41852-05-29 18:43 G	17007338.08	17007338.28	17007338.52	0.0134	0.0067 *
Venus	41852-06-24 18:58 G	17007364.07	17007364.29	17007364.51	0.0134	0.0002
Venus	41853-02-06 00:14 G	17007590.30	17007590.51	17007590.72	0.0134	0.0027
Earth	41853-06-03 01:55 G	17007707.33	17007707.58	17007707.84	0.0134	0.0002
Moon	41853-06-03 04:05 G	17007707.41	17007707.67	17007707.93	0.0134	0.0002 *
Venus	41853-09-20 05:31 G	17007816.54	17007816.73	17007816.94	0.0134	0.0052
Venus	41854-05-04 10:48 G	17008042.79	17008042.95	17008043.14	0.0134	0.0077
Moon	41854-06-07 06:43 G	17008076.59	17008076.78	17008077.00	0.0134	0.0073
Earth	41854-06-07 09:22 G	17008076.67	17008076.89	17008077.10	0.0134	0.0071 *
Venus	41854-12-16 16:34 G	17008269.06	17008269.19	17008269.34	0.0134	0.0101
Venus	41855-07-30 21:50 G	17008495.36	17008495.41	17008495.50	0.0134	0.0127
Mars	41869-11-27 07:26 G	17013728.63	17013728.81	17013729.01	0.0140	0.0102
Mercury	41873-11-19 07:41 G	17015181.77	17015181.82	17015181.87	0.0142	0.0131
Mercury	41874-02-15 11:02 G	17015269.88	17015269.96	17015270.04	0.0142	0.0110
Mercury	41874-05-14 14:24 G	17015358.00	17015358.10	17015358.20	0.0142	0.0089
Mercury	41874-08-10 17:46 G	17015446.13	17015446.24	17015446.36	0.0142	0.0068
Mercury	41874-11-06 21:22 G	17015534.26	17015534.39	17015534.51	0.0142	0.0047
Mercury	41875-02-03 00:43 G	17015622.40	17015622.53	17015622.66	0.0142	0.0026
Mercury	41875-05-02 04:05 G	17015710.54	17015710.67	17015710.80	0.0142	0.0006

Mercury	41875-07-29 07:41 G	17015798.69	17015798.82	17015798.95	0.0142	0.0017
Mercury	41875-10-25 11:02 G	17015886.84	17015886.96	17015887.09	0.0142	0.0038
Mercury	41876-01-21 14:24 G	17015974.99	17015975.10	17015975.23	0.0143	0.0060
Mercury	41876-04-18 18:00 G	17016063.14	17016063.25	17016063.36	0.0143	0.0081
Mercury	41876-07-15 21:36 G	17016151.31	17016151.40	17016151.49	0.0143	0.0103
Mercury	41876-10-12 00:58 G	17016239.48	17016239.54	17016239.61	0.0143	0.0125
Venus	41890-11-28 16:48 G	17021400.10	17021400.20	17021400.30	0.0145	0.0127
Venus	41891-07-13 04:48 G	17021626.55	17021626.70	17021626.88	0.0145	0.0095
Venus	41892-02-24 17:02 G	17021853.03	17021853.21	17021853.42	0.0145	0.0064
Venus	41892-10-08 05:46 G	17022079.53	17022079.74	17022079.95	0.0145	0.0032
Earth	41892-11-27 10:19 G	17022129.80	17022129.93	17022130.10	0.0145	0.0117
Moon	41892-11-27 10:48 G	17022129.83	17022129.95	17022130.11	0.0145	0.0119 *
Venus	41893-05-22 18:00 G	17022306.03	17022306.25	17022306.47	0.0145	0.0002
Moon	41893-12-02 12:29 G	17022499.76	17022500.02	17022500.28	0.0145	0.0032
Earth	41893-12-02 12:14 G	17022499.77	17022500.01	17022500.26	0.0145	0.0029 *
Venus	41894-01-04 05:46 G	17022532.54	17022532.74	17022532.96	0.0145	0.0032
Venus	41894-08-18 18:00 G	17022759.06	17022759.25	17022759.45	0.0144	0.0063
Moon	41894-12-07 12:14 G	17022869.79	17022870.01	17022870.23	0.0144	0.0065
Earth	41894-12-07 13:26 G	17022869.83	17022870.06	17022870.29	0.0144	0.0058 *
Venus	41895-04-02 06:00 G	17022985.59	17022985.75	17022985.92	0.0144	0.0094
Venus	41895-11-14 17:46 G	17023212.14	17023212.24	17023212.36	0.0144	0.0124
Moon	41895-12-12 15:07 G	17023240.06	17023240.13	17023240.23	0.0144	0.0136
Earth	41895-12-12 13:55 G	17023240.08	17023240.08	17023240.09	0.0144	0.0144 *
Mars	41910-05-04 11:46 G	17028495.71	17028495.99	17028496.32	0.0138	0.0061
Mercury	41914-03-28 12:00 G	17029919.97	17029920.00	17029920.05	0.0136	0.0134
Mercury	41914-06-24 19:41 G	17030008.21	17030008.32	17030008.45	0.0136	0.0106
Mercury	41914-09-21 03:22 G	17030096.49	17030096.64	17030096.81	0.0136	0.0078
Mercury	41914-12-18 11:02 G	17030184.79	17030184.96	17030185.15	0.0136	0.0050
Mercury	41915-03-16 18:58 G	17030273.10	17030273.29	17030273.48	0.0136	0.0021
Mercury	41915-06-13 02:24 G	17030361.41	17030361.60	17030361.80	0.0136	0.0007

Mercury	41915-09-09 10:05 G	17030449.73	17030449.92	17030450.11	0.0136	0.0034
Mercury	41915-12-06 17:17 G	17030538.06	17030538.22	17030538.40	0.0136	0.0062
Mercury	41916-03-04 00:58 G	17030626.40	17030626.54	17030626.69	0.0136	0.0089
Mercury	41916-05-31 08:24 G	17030714.75	17030714.85	17030714.95	0.0136	0.0116
Venus	41933-01-19 04:34 G	17036791.63	17036791.69	17036791.76	0.0133	0.0127
Venus	41933-09-02 09:50 G	17037017.78	17037017.91	17037018.05	0.0133	0.0103
Venus	41934-04-16 14:53 G	17037243.96	17037244.12	17037244.31	0.0133	0.0079
Venus	41934-11-28 20:10 G	17037470.15	17037470.34	17037470.55	0.0134	0.0054
Earth	41935-05-28 01:12 G	17037650.51	17037650.55	17037650.64	0.0134	0.0129
Venus	41935-07-13 01:26 G	17037696.35	17037696.56	17037696.78	0.0134	0.0030
Venus	41936-02-24 06:58 G	17037922.57	17037922.79	17037923.01	0.0134	0.0005
Moon	41936-05-31 06:43 G	17038019.57	17038019.78	17038020.01	0.0134	0.0058
Earth	41936-05-31 08:10 G	17038019.63	17038019.84	17038020.08	0.0134	0.0061 *
Venus	41936-10-07 12:14 G	17038148.80	17038149.01	17038149.23	0.0134	0.0020
Venus	41937-05-21 17:31 G	17038375.03	17038375.23	17038375.44	0.0134	0.0044
Earth	41937-06-04 15:22 G	17038388.89	17038389.14	17038389.40	0.0134	0.0008
Moon	41937-06-04 16:48 G	17038388.94	17038389.20	17038389.47	0.0134	0.0006 *
Venus	41938-01-02 22:48 G	17038601.28	17038601.45	17038601.65	0.0134	0.0069
Moon	41938-06-08 21:22 G	17038758.20	17038758.39	17038758.60	0.0134	0.0075
Earth	41938-06-08 22:48 G	17038758.25	17038758.45	17038758.67	0.0134	0.0076 *
Venus	41938-08-17 04:19 G	17038827.54	17038827.68	17038827.85	0.0134	0.0094
Venus	41939-03-31 10:19 G	17039053.84	17039053.93	17039054.03	0.0134	0.0119
Mars	41954-07-24 01:55 G	17044647.33	17044647.58	17044647.86	0.0140	0.0050
Mercury	41957-12-10 15:36 G	17045883.09	17045883.15	17045883.22	0.0142	0.0122
Mercury	41958-03-08 18:58 G	17045971.21	17045971.29	17045971.39	0.0142	0.0101
Mercury	41958-06-04 22:19 G	17046059.33	17046059.43	17046059.54	0.0142	0.0081
Mercury	41958-09-01 01:41 G	17046147.46	17046147.57	17046147.70	0.0142	0.0060
Mercury	41958-11-28 05:17 G	17046235.59	17046235.72	17046235.85	0.0142	0.0039
Mercury	41959-02-24 08:38 G	17046323.73	17046323.86	17046323.99	0.0142	0.0018
Mercury	41959-05-23 12:00 G	17046411.87	17046412.00	17046412.14	0.0142	0.0006

Mercury	41959-08-19 15:36 G	17046500.02	17046500.15	17046500.28	0.0142	0.0025
Mercury	41959-11-15 18:58 G	17046588.17	17046588.29	17046588.42	0.0142	0.0047
Mercury	41960-02-11 22:19 G	17046676.32	17046676.43	17046676.55	0.0143	0.0069
Mercury	41960-05-10 01:55 G	17046764.48	17046764.58	17046764.68	0.0143	0.0090
Mercury	41960-08-06 05:17 G	17046852.65	17046852.72	17046852.81	0.0143	0.0112
Mercury	41960-11-02 08:53 G	17046940.83	17046940.87	17046940.92	0.0143	0.0133
Venus	41974-07-30 00:14 G	17051958.44	17051958.51	17051958.58	0.0145	0.0137
Venus	41975-03-13 12:29 G	17052184.87	17052185.02	17052185.17	0.0145	0.0106
Venus	41975-10-26 00:29 G	17052411.35	17052411.52	17052411.72	0.0145	0.0075
Venus	41976-06-08 12:43 G	17052637.83	17052638.03	17052638.25	0.0145	0.0044
Earth	41976-11-28 22:34 G	17052811.29	17052811.44	17052811.61	0.0145	0.0112
Moon	41976-11-28 23:31 G	17052811.33	17052811.48	17052811.65	0.0145	0.0110 *
Venus	41977-01-21 00:58 G	17052864.33	17052864.54	17052864.76	0.0145	0.0012
Venus	41977-09-04 13:12 G	17053090.84	17053091.05	17053091.27	0.0145	0.0020
Moon	41977-12-03 23:46 G	17053181.23	17053181.49	17053181.75	0.0145	0.0022
Earth	41977-12-04 00:00 G	17053181.25	17053181.50	17053181.75	0.0145	0.0025 *
Venus	41978-04-19 01:12 G	17053317.35	17053317.55	17053317.76	0.0144	0.0051
Venus	41978-12-01 12:58 G	17053543.87	17053544.04	17053544.23	0.0144	0.0082
Moon	41978-12-09 00:43 G	17053551.31	17053551.53	17053551.77	0.0144	0.0057
Earth	41978-12-09 00:43 G	17053551.31	17053551.53	17053551.77	0.0144	0.0063 *
Venus	41979-07-16 00:43 G	17053770.41	17053770.53	17053770.68	0.0144	0.0113
Venus	41980-02-27 12:43 G	17053997.02	17053997.03	17053997.05	0.0144	0.0143
Mercury	41998-04-17 19:26 G	17060621.25	17060621.31	17060621.39	0.0136	0.0126
Mercury	41998-07-15 03:07 G	17060709.51	17060709.63	17060709.78	0.0136	0.0098
Mercury	41998-10-11 10:48 G	17060797.79	17060797.95	17060798.13	0.0136	0.0070
Mercury	41999-01-07 18:43 G	17060886.09	17060886.28	17060886.47	0.0136	0.0041
Mercury	41999-04-06 02:24 G	17060974.40	17060974.60	17060974.79	0.0136	0.0013
Mercury	41999-07-03 09:50 G	17061062.72	17061062.91	17061063.11	0.0136	0.0015
Mercury	41999-09-29 17:17 G	17061151.04	17061151.22	17061151.41	0.0136	0.0042
Mercury	41999-12-27 00:43 G	17061239.37	17061239.53	17061239.71	0.0136	0.0070

Mercury 42000-03-24 08:10 G 17061327.72 17061327.84 17061327.99 0.0136 0.0097

Mercury 42000-06-20 15:36 G 17061416.08 17061416.15 17061416.24 0.0136 0.0124

43RD MILLENNIUM CE

This is a list of transits visible from Uranus in the 43rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	42017-05-02 21:07	G	17067576.28	17067576.38	17067576.52	0.0133	0.0111	
Venus	42017-12-15 02:24	G	17067802.45	17067802.60	17067802.78	0.0134	0.0087	
Venus	42018-07-29 07:55	G	17068028.64	17068028.83	17068029.02	0.0134	0.0062	
Venus	42019-03-12 13:12	G	17068254.85	17068255.05	17068255.26	0.0134	0.0038	
Earth	42019-05-28 14:24	G	17068332.02	17068332.10	17068332.21	0.0134	0.0124	
Moon	42019-05-28 15:36	G	17068332.03	17068332.15	17068332.28	0.0134	0.0117	*
Venus	42019-10-24 18:43	G	17068481.06	17068481.28	17068481.49	0.0134	0.0013	
Moon	42020-05-31 21:07	G	17068701.17	17068701.38	17068701.60	0.0134	0.0061	
Earth	42020-05-31 21:22	G	17068701.17	17068701.39	17068701.63	0.0134	0.0056	*
Venus	42020-06-07 00:00	G	17068707.28	17068707.50	17068707.71	0.0134	0.0012	
Venus	42021-01-19 05:02	G	17068933.51	17068933.71	17068933.93	0.0134	0.0037	
Earth	42021-06-05 04:48	G	17069070.45	17069070.70	17069070.96	0.0134	0.0013	
Moon	42021-06-05 05:46	G	17069070.48	17069070.74	17069071.00	0.0134	0.0014	*
Venus	42021-09-02 10:48	G	17069159.76	17069159.95	17069160.14	0.0134	0.0061	
Venus	42022-04-16 16:19	G	17069386.02	17069386.18	17069386.36	0.0134	0.0086	
Moon	42022-06-09 11:17	G	17069439.78	17069439.97	17069440.16	0.0134	0.0083	
Earth	42022-06-09 12:14	G	17069439.81	17069440.01	17069440.22	0.0134	0.0082	*

Venus	42022-11-28 21:50 G	17069612.30	17069612.41	17069612.55	0.0134	0.0111
Jupiter	42024-09-03 12:29 G	17070256.52	17070257.02	17070257.51	0.0135	0.0026
Mercury	42041-10-03 20:24 G	17076496.31	17076496.35	17076496.39	0.0142	0.0134
Mercury	42041-12-30 23:31 G	17076584.41	17076584.48	17076584.56	0.0142	0.0114
Mercury	42042-03-29 02:53 G	17076672.53	17076672.62	17076672.73	0.0142	0.0093
Mercury	42042-06-25 06:29 G	17076760.66	17076760.77	17076760.88	0.0142	0.0072
Mercury	42042-09-21 09:50 G	17076848.79	17076848.91	17076849.03	0.0142	0.0051
Mercury	42042-12-18 13:12 G	17076936.92	17076937.05	17076937.18	0.0142	0.0030
Mercury	42043-03-16 16:34 G	17077025.06	17077025.19	17077025.32	0.0142	0.0010
Mercury	42043-06-12 20:10 G	17077113.21	17077113.34	17077113.47	0.0142	0.0013
Mercury	42043-09-08 23:31 G	17077201.35	17077201.48	17077201.61	0.0142	0.0034
Mercury	42043-12-06 02:53 G	17077289.50	17077289.62	17077289.75	0.0142	0.0056
Mercury	42044-03-03 06:14 G	17077377.66	17077377.76	17077377.88	0.0143	0.0078
Mercury	42044-05-30 09:50 G	17077465.82	17077465.91	17077466.01	0.0143	0.0099
Mercury	42044-08-26 13:12 G	17077553.99	17077554.05	17077554.13	0.0143	0.0121
Mercury	42044-11-22 17:02 G	17077642.20	17077642.21	17077642.22	0.0143	0.0142
Venus	42058-11-10 21:22 G	17082743.28	17082743.39	17082743.53	0.0145	0.0117
Venus	42059-06-25 09:50 G	17082969.74	17082969.91	17082970.09	0.0145	0.0085
Venus	42060-02-06 21:50 G	17083196.22	17083196.41	17083196.62	0.0145	0.0054
Venus	42060-09-20 10:19 G	17083422.72	17083422.93	17083423.15	0.0145	0.0022
Earth	42060-11-29 13:26 G	17083492.90	17083493.06	17083493.25	0.0145	0.0105
Moon	42060-11-29 14:53 G	17083492.97	17083493.12	17083493.30	0.0145	0.0108 *
Venus	42061-05-04 22:34 G	17083649.22	17083649.44	17083649.66	0.0145	0.0009
Moon	42061-12-04 13:55 G	17083862.82	17083863.08	17083863.34	0.0144	0.0018
Earth	42061-12-04 15:07 G	17083862.88	17083863.13	17083863.38	0.0144	0.0017 *
Venus	42061-12-17 10:34 G	17083875.73	17083875.94	17083876.15	0.0144	0.0041
Venus	42062-07-31 22:19 G	17084102.25	17084102.43	17084102.63	0.0144	0.0072
Earth	42062-12-09 16:05 G	17084232.95	17084233.17	17084233.40	0.0144	0.0069
Moon	42062-12-09 16:05 G	17084232.96	17084233.17	17084233.38	0.0144	0.0076 *
Venus	42063-03-15 10:05 G	17084328.78	17084328.92	17084329.09	0.0144	0.0104

Venus	42063-10-27 22:05 G	17084555.36	17084555.42	17084555.51	0.0144	0.0134
Mars	42077-09-19 04:19 G	17089630.38	17089630.68	17089631.01	0.0138	0.0053
Mercury	42082-05-08 03:50 G	17091322.56	17091322.66	17091322.77	0.0136	0.0115
Mercury	42082-08-04 11:31 G	17091410.84	17091410.98	17091411.14	0.0136	0.0087
Mercury	42082-10-31 19:12 G	17091499.13	17091499.30	17091499.48	0.0136	0.0059
Mercury	42083-01-28 02:53 G	17091587.43	17091587.62	17091587.81	0.0136	0.0031
Mercury	42083-04-26 10:34 G	17091675.75	17091675.94	17091676.14	0.0136	0.0003
Mercury	42083-07-23 18:00 G	17091764.06	17091764.25	17091764.45	0.0136	0.0025
Mercury	42083-10-20 01:26 G	17091852.39	17091852.56	17091852.75	0.0136	0.0053
Mercury	42084-01-16 08:53 G	17091940.73	17091940.87	17091941.04	0.0136	0.0080
Mercury	42084-04-13 16:34 G	17092029.07	17092029.19	17092029.31	0.0136	0.0107
Mercury	42084-07-11 00:00 G	17092117.48	17092117.50	17092117.53	0.0136	0.0134
Venus	42101-01-01 08:53 G	17098134.79	17098134.87	17098134.99	0.0133	0.0119
Venus	42101-08-15 14:10 G	17098360.95	17098361.09	17098361.26	0.0133	0.0095
Venus	42102-03-29 19:41 G	17098587.14	17098587.32	17098587.51	0.0134	0.0070
Venus	42102-11-11 00:58 G	17098813.34	17098813.54	17098813.75	0.0134	0.0046
Earth	42103-05-30 03:36 G	17099013.55	17099013.65	17099013.79	0.0134	0.0118
Moon	42103-05-30 03:36 G	17099013.56	17099013.65	17099013.75	0.0134	0.0124 *
Venus	42103-06-25 06:14 G	17099039.55	17099039.76	17099039.98	0.0134	0.0021
Venus	42104-02-06 11:46 G	17099265.77	17099265.99	17099266.20	0.0134	0.0004
Moon	42104-06-02 10:19 G	17099382.71	17099382.93	17099383.17	0.0134	0.0046
Earth	42104-06-02 10:48 G	17099382.72	17099382.95	17099383.19	0.0134	0.0050 *
Venus	42104-09-19 17:02 G	17099492.00	17099492.21	17099492.43	0.0134	0.0029
Venus	42105-05-03 22:19 G	17099718.25	17099718.43	17099718.64	0.0134	0.0054
Moon	42105-06-06 18:14 G	17099752.00	17099752.26	17099752.52	0.0134	0.0015
Earth	42105-06-06 18:00 G	17099752.00	17099752.25	17099752.51	0.0134	0.0019 *
Venus	42105-12-16 04:05 G	17099944.50	17099944.67	17099944.85	0.0134	0.0078
Moon	42106-06-11 01:26 G	17100121.38	17100121.56	17100121.75	0.0134	0.0087
Earth	42106-06-11 01:26 G	17100121.38	17100121.56	17100121.77	0.0134	0.0087 *
Venus	42106-07-30 09:36 G	17100170.77	17100170.90	17100171.05	0.0134	0.0103

Venus	42107-03-13 15:07 G	17100397.09	17100397.13	17100397.22	0.0134	0.0129
Mars	42121-12-12 12:58 G	17105784.78	17105785.04	17105785.32	0.0140	0.0038
Mercury	42125-10-25 03:50 G	17107197.62	17107197.66	17107197.73	0.0142	0.0127
Mercury	42126-01-21 07:26 G	17107285.73	17107285.81	17107285.90	0.0142	0.0106
Mercury	42126-04-19 10:48 G	17107373.85	17107373.95	17107374.05	0.0142	0.0085
Mercury	42126-07-16 14:10 G	17107461.98	17107462.09	17107462.21	0.0142	0.0064
Mercury	42126-10-12 17:31 G	17107550.11	17107550.23	17107550.36	0.0142	0.0043
Mercury	42127-01-08 21:07 G	17107638.25	17107638.38	17107638.51	0.0142	0.0023
Mercury	42127-04-07 00:29 G	17107726.39	17107726.52	17107726.65	0.0142	0.0002
Mercury	42127-07-04 03:50 G	17107814.53	17107814.66	17107814.79	0.0142	0.0020
Mercury	42127-09-30 07:12 G	17107902.68	17107902.80	17107902.93	0.0142	0.0042
Mercury	42127-12-27 10:48 G	17107990.83	17107990.95	17107991.07	0.0142	0.0063
Mercury	42128-03-24 14:10 G	17108078.99	17108079.09	17108079.20	0.0143	0.0085
Mercury	42128-06-20 17:31 G	17108167.15	17108167.23	17108167.33	0.0143	0.0107
Mercury	42128-09-16 21:07 G	17108255.33	17108255.38	17108255.44	0.0143	0.0129
Venus	42142-07-12 05:02 G	17113301.63	17113301.71	17113301.83	0.0145	0.0128
Venus	42143-02-23 17:31 G	17113528.08	17113528.23	17113528.40	0.0145	0.0097
Venus	42143-10-08 06:00 G	17113754.56	17113754.75	17113754.95	0.0145	0.0065
Venus	42144-05-21 18:14 G	17113981.05	17113981.26	17113981.47	0.0145	0.0034
Earth	42144-12-01 02:24 G	17114174.42	17114174.60	17114174.80	0.0145	0.0099
Moon	42144-12-01 04:48 G	17114174.51	17114174.70	17114174.89	0.0145	0.0095 *
Venus	42145-01-03 06:14 G	17114207.55	17114207.76	17114207.98	0.0145	0.0004
Venus	42145-08-17 18:29 G	17114434.06	17114434.27	17114434.49	0.0144	0.0029
Moon	42145-12-06 02:38 G	17114544.35	17114544.61	17114544.87	0.0144	0.0010
Earth	42145-12-06 04:05 G	17114544.42	17114544.67	17114544.93	0.0144	0.0011 *
Venus	42146-04-01 06:14 G	17114660.58	17114660.76	17114660.97	0.0144	0.0062
Venus	42146-11-13 18:14 G	17114887.11	17114887.26	17114887.44	0.0144	0.0092
Earth	42146-12-11 05:02 G	17114914.50	17114914.71	17114914.93	0.0144	0.0076
Moon	42146-12-11 06:14 G	17114914.55	17114914.76	17114914.98	0.0144	0.0071 *
Venus	42147-06-28 06:00 G	17115113.66	17115113.75	17115113.88	0.0144	0.0123

Jupiter	42149-03-29 12:00 G	17115753.61	17115754.00	17115754.47	0.0143	0.0084
Mars	42162-05-17 10:48 G	17120550.85	17120550.95	17120551.12	0.0138	0.0126
Mercury	42166-03-02 04:05 G	17121935.64	17121935.67	17121935.70	0.0137	0.0134
Mercury	42166-05-29 11:31 G	17122023.87	17122023.98	17122024.11	0.0136	0.0106
Mercury	42166-08-25 19:12 G	17122112.15	17122112.30	17122112.47	0.0136	0.0078
Mercury	42166-11-22 03:07 G	17122200.45	17122200.63	17122200.81	0.0136	0.0049
Mercury	42167-02-18 10:48 G	17122288.76	17122288.95	17122289.14	0.0136	0.0021
Mercury	42167-05-17 18:14 G	17122377.07	17122377.26	17122377.46	0.0136	0.0007
Mercury	42167-08-14 01:55 G	17122465.39	17122465.58	17122465.77	0.0136	0.0034
Mercury	42167-11-10 09:07 G	17122553.72	17122553.88	17122554.07	0.0136	0.0062
Mercury	42168-02-06 16:48 G	17122642.06	17122642.20	17122642.35	0.0136	0.0089
Mercury	42168-05-05 00:14 G	17122730.42	17122730.51	17122730.61	0.0136	0.0116
Venus	42184-08-31 20:10 G	17128693.28	17128693.34	17128693.41	0.0133	0.0127
Venus	42185-04-15 01:26 G	17128919.43	17128919.56	17128919.71	0.0133	0.0103
Venus	42185-11-27 06:29 G	17129145.61	17129145.77	17129145.96	0.0133	0.0079
Venus	42186-07-11 11:46 G	17129371.80	17129371.99	17129372.20	0.0134	0.0054
Venus	42187-02-22 17:17 G	17129598.01	17129598.22	17129598.44	0.0134	0.0030
Moon	42187-05-30 15:22 G	17129694.99	17129695.14	17129695.31	0.0134	0.0106
Earth	42187-05-30 15:50 G	17129695.04	17129695.16	17129695.30	0.0134	0.0113 *
Venus	42187-10-06 22:48 G	17129824.23	17129824.45	17129824.67	0.0134	0.0005
Venus	42188-05-20 04:05 G	17130050.46	17130050.67	17130050.89	0.0134	0.0020
Earth	42188-06-02 22:48 G	17130064.22	17130064.45	17130064.70	0.0134	0.0045
Moon	42188-06-02 23:46 G	17130064.26	17130064.49	17130064.72	0.0134	0.0051 *
Venus	42189-01-01 09:22 G	17130276.69	17130276.89	17130277.10	0.0134	0.0045
Moon	42189-06-07 05:46 G	17130433.48	17130433.74	17130434.00	0.0134	0.0026
Earth	42189-06-07 06:14 G	17130433.51	17130433.76	17130434.01	0.0134	0.0023 *
Venus	42189-08-15 14:53 G	17130502.95	17130503.12	17130503.32	0.0134	0.0070
Venus	42190-03-29 20:53 G	17130729.22	17130729.37	17130729.52	0.0134	0.0095
Earth	42190-06-11 13:26 G	17130802.89	17130803.06	17130803.26	0.0134	0.0092
Moon	42190-06-11 13:41 G	17130802.91	17130803.07	17130803.26	0.0134	0.0092 *

Venus	42190-11-11 02:10 G	17130955.51	17130955.59	17130955.70	0.0134	0.0120
Mars	42206-08-08 01:26 G	17136703.41	17136703.56	17136703.76	0.0140	0.0109
Mercury	42209-11-15 11:17 G	17137898.91	17137898.97	17137899.04	0.0142	0.0121
Mercury	42210-02-11 14:38 G	17137987.03	17137987.11	17137987.21	0.0142	0.0101
Mercury	42210-05-10 18:00 G	17138075.15	17138075.25	17138075.36	0.0142	0.0080
Mercury	42210-08-06 21:22 G	17138163.28	17138163.39	17138163.52	0.0142	0.0059
Mercury	42210-11-03 00:58 G	17138251.41	17138251.54	17138251.66	0.0142	0.0038
Mercury	42211-01-30 04:19 G	17138339.55	17138339.68	17138339.81	0.0142	0.0017
Mercury	42211-04-28 07:41 G	17138427.69	17138427.82	17138427.95	0.0142	0.0006
Mercury	42211-07-25 11:02 G	17138515.84	17138515.96	17138516.10	0.0142	0.0027
Mercury	42211-10-21 14:38 G	17138603.99	17138604.11	17138604.23	0.0142	0.0047
Mercury	42212-01-17 18:00 G	17138692.14	17138692.25	17138692.37	0.0143	0.0069
Mercury	42212-04-14 21:22 G	17138780.30	17138780.39	17138780.50	0.0143	0.0091
Mercury	42212-07-12 00:58 G	17138868.47	17138868.54	17138868.63	0.0143	0.0112
Mercury	42212-10-08 04:34 G	17138956.65	17138956.69	17138956.73	0.0143	0.0134
Venus	42226-03-12 11:46 G	17143859.95	17143859.99	17143860.05	0.0145	0.0140
Venus	42226-10-25 00:00 G	17144086.37	17144086.50	17144086.65	0.0145	0.0109
Venus	42227-06-08 12:14 G	17144312.84	17144313.01	17144313.20	0.0145	0.0078
Venus	42228-01-21 00:43 G	17144539.32	17144539.53	17144539.74	0.0145	0.0046
Venus	42228-09-03 12:58 G	17144765.83	17144766.04	17144766.26	0.0145	0.0015
Earth	42228-12-02 13:12 G	17144855.87	17144856.05	17144856.26	0.0145	0.0094
Moon	42228-12-02 16:05 G	17144855.99	17144856.17	17144856.36	0.0145	0.0098 *
Venus	42229-04-18 01:12 G	17144992.34	17144992.55	17144992.77	0.0145	0.0017
Venus	42229-11-30 13:26 G	17145218.85	17145219.06	17145219.27	0.0144	0.0049
Moon	42229-12-07 12:43 G	17145225.77	17145226.03	17145226.29	0.0144	0.0006
Earth	42229-12-07 15:07 G	17145225.88	17145226.13	17145226.39	0.0144	0.0007 *
Venus	42230-07-15 01:12 G	17145445.38	17145445.55	17145445.74	0.0144	0.0080
Earth	42230-12-12 16:05 G	17145595.97	17145596.17	17145596.40	0.0144	0.0081
Moon	42230-12-12 17:31 G	17145596.04	17145596.23	17145596.44	0.0144	0.0086 *
Venus	42231-02-26 13:12 G	17145671.92	17145672.05	17145672.20	0.0144	0.0111

Venus	42231-10-11 01:26 G	17145898.53	17145898.56	17145898.60	0.0144	0.0141
Mercury	42250-03-23 11:46 G	17152636.92	17152636.99	17152637.08	0.0137	0.0125
Mercury	42250-06-19 19:26 G	17152725.18	17152725.31	17152725.46	0.0136	0.0096
Mercury	42250-09-16 03:07 G	17152813.47	17152813.63	17152813.81	0.0136	0.0068
Mercury	42250-12-13 10:48 G	17152901.77	17152901.95	17152902.15	0.0136	0.0041
Mercury	42251-03-11 18:43 G	17152990.08	17152990.28	17152990.47	0.0136	0.0012
Mercury	42251-06-08 02:10 G	17153078.40	17153078.59	17153078.79	0.0136	0.0016
Mercury	42251-09-04 09:50 G	17153166.72	17153166.91	17153167.09	0.0136	0.0043
Mercury	42251-12-01 17:02 G	17153255.06	17153255.21	17153255.39	0.0136	0.0071
Mercury	42252-02-28 00:43 G	17153343.40	17153343.53	17153343.66	0.0136	0.0098
Mercury	42252-05-26 08:10 G	17153431.77	17153431.84	17153431.91	0.0136	0.0125
Venus	42268-12-14 12:43 G	17159477.91	17159478.03	17159478.15	0.0133	0.0111
Venus	42269-07-28 17:46 G	17159704.08	17159704.24	17159704.41	0.0133	0.0087
Venus	42270-03-11 23:02 G	17159930.27	17159930.46	17159930.66	0.0133	0.0062
Venus	42270-10-24 04:19 G	17160156.48	17160156.68	17160156.89	0.0133	0.0038
Moon	42271-06-01 01:55 G	17160376.47	17160376.58	17160376.73	0.0134	0.0115
Earth	42271-06-01 03:50 G	17160376.52	17160376.66	17160376.82	0.0134	0.0108 *
Venus	42271-06-07 09:36 G	17160382.69	17160382.90	17160383.12	0.0134	0.0014
Venus	42272-01-19 15:07 G	17160608.91	17160609.13	17160609.34	0.0134	0.0012
Earth	42272-06-04 10:48 G	17160745.72	17160745.95	17160746.20	0.0134	0.0040
Moon	42272-06-04 12:00 G	17160745.76	17160746.00	17160746.24	0.0134	0.0035 *
Venus	42272-09-01 20:10 G	17160835.15	17160835.34	17160835.56	0.0134	0.0037
Venus	42273-04-16 01:55 G	17161061.40	17161061.58	17161061.78	0.0134	0.0061
Moon	42273-06-08 16:48 G	17161114.95	17161115.20	17161115.46	0.0134	0.0024
Earth	42273-06-08 18:00 G	17161115.01	17161115.25	17161115.50	0.0134	0.0028 *
Venus	42273-11-28 07:26 G	17161287.65	17161287.81	17161287.99	0.0134	0.0086
Earth	42274-06-13 01:41 G	17161484.40	17161484.57	17161484.75	0.0134	0.0096
Moon	42274-06-13 02:38 G	17161484.46	17161484.61	17161484.79	0.0134	0.0099 *
Venus	42274-07-12 13:12 G	17161513.93	17161514.05	17161514.17	0.0134	0.0110
Mars	42289-05-02 13:26 G	17166922.03	17166922.06	17166922.10	0.0140	0.0138

Mercury	42293-09-08 15:07 G	17168512.11	17168512.13	17168512.16	0.0141	0.0137
Mercury	42293-12-05 18:29 G	17168600.20	17168600.27	17168600.34	0.0142	0.0117
Mercury	42294-03-03 21:36 G	17168688.32	17168688.40	17168688.51	0.0142	0.0097
Mercury	42294-05-31 01:12 G	17168776.44	17168776.55	17168776.66	0.0142	0.0076
Mercury	42294-08-27 04:34 G	17168864.57	17168864.69	17168864.81	0.0142	0.0055
Mercury	42294-11-23 07:55 G	17168952.71	17168952.83	17168952.96	0.0142	0.0034
Mercury	42295-02-19 11:31 G	17169040.85	17169040.98	17169041.11	0.0142	0.0013
Mercury	42295-05-18 14:53 G	17169128.99	17169129.12	17169129.25	0.0142	0.0009
Mercury	42295-08-14 18:14 G	17169217.13	17169217.26	17169217.39	0.0142	0.0030
Mercury	42295-11-10 21:36 G	17169305.28	17169305.40	17169305.53	0.0142	0.0052
Mercury	42296-02-07 01:12 G	17169393.44	17169393.55	17169393.66	0.0142	0.0073
Mercury	42296-05-05 04:34 G	17169481.60	17169481.69	17169481.79	0.0143	0.0095
Mercury	42296-08-01 07:55 G	17169569.77	17169569.83	17169569.92	0.0143	0.0117
Mercury	42296-10-28 11:31 G	17169657.96	17169657.98	17169658.02	0.0143	0.0138
Venus	42310-06-25 04:05 G	17174644.57	17174644.67	17174644.80	0.0145	0.0123
Venus	42311-02-06 16:34 G	17174871.03	17174871.19	17174871.37	0.0145	0.0092
Venus	42311-09-21 05:02 G	17175097.52	17175097.71	17175097.92	0.0145	0.0060
Venus	42312-05-04 17:17 G	17175324.01	17175324.22	17175324.44	0.0145	0.0029
Earth	42312-12-03 20:24 G	17175537.17	17175537.35	17175537.56	0.0145	0.0093
Moon	42312-12-03 23:31 G	17175537.30	17175537.48	17175537.70	0.0145	0.0088 *
Venus	42312-12-17 05:31 G	17175550.52	17175550.73	17175550.95	0.0145	0.0005
Venus	42313-07-31 17:46 G	17175777.03	17175777.24	17175777.45	0.0144	0.0035
Moon	42313-12-08 19:55 G	17175907.07	17175907.33	17175907.59	0.0144	0.0006
Earth	42313-12-08 22:34 G	17175907.18	17175907.44	17175907.69	0.0144	0.0005 *
Venus	42314-03-15 05:46 G	17176003.55	17176003.74	17176003.94	0.0144	0.0066
Venus	42314-10-27 18:00 G	17176230.09	17176230.25	17176230.41	0.0144	0.0097
Earth	42314-12-13 23:17 G	17176277.28	17176277.47	17176277.69	0.0144	0.0082
Moon	42314-12-14 01:55 G	17176277.38	17176277.58	17176277.80	0.0144	0.0079 *
Venus	42315-06-11 05:46 G	17176456.65	17176456.74	17176456.85	0.0144	0.0128
Mars	42329-10-03 19:41 G	17181684.98	17181685.32	17181685.66	0.0138	0.0005

Mercury	42334-04-13 18:14 G	17183338.18	17183338.26	17183338.37	0.0137	0.0120
Mercury	42334-07-11 01:55 G	17183426.45	17183426.58	17183426.74	0.0137	0.0092
Mercury	42334-10-07 10:05 G	17183514.75	17183514.92	17183515.09	0.0136	0.0063
Mercury	42335-01-03 17:46 G	17183603.05	17183603.24	17183603.43	0.0136	0.0035
Mercury	42335-04-02 01:12 G	17183691.36	17183691.55	17183691.75	0.0136	0.0008
Mercury	42335-06-29 08:53 G	17183779.68	17183779.87	17183780.06	0.0136	0.0021
Mercury	42335-09-25 16:19 G	17183868.00	17183868.18	17183868.37	0.0136	0.0049
Mercury	42335-12-22 23:46 G	17183956.34	17183956.49	17183956.66	0.0136	0.0076
Mercury	42336-03-20 07:26 G	17184044.69	17184044.81	17184044.93	0.0136	0.0103
Mercury	42336-06-16 14:24 G	17184133.07	17184133.10	17184133.17	0.0136	0.0131
Venus	42352-08-14 22:48 G	17190036.37	17190036.45	17190036.56	0.0133	0.0119
Venus	42353-03-29 04:05 G	17190262.53	17190262.67	17190262.84	0.0133	0.0096
Venus	42353-11-10 09:22 G	17190488.72	17190488.89	17190489.09	0.0133	0.0071
Venus	42354-06-24 14:53 G	17190714.92	17190715.12	17190715.33	0.0133	0.0047
Venus	42355-02-05 20:10 G	17190941.13	17190941.34	17190941.56	0.0134	0.0022
Moon	42355-06-02 13:26 G	17191057.89	17191058.06	17191058.25	0.0134	0.0097
Earth	42355-06-02 15:22 G	17191057.98	17191058.14	17191058.30	0.0134	0.0104 *
Venus	42355-09-20 01:41 G	17191167.35	17191167.57	17191167.79	0.0134	0.0003
Venus	42356-05-03 06:58 G	17191393.59	17191393.79	17191394.01	0.0134	0.0028
Earth	42356-06-05 22:19 G	17191427.18	17191427.43	17191427.67	0.0134	0.0036
Moon	42356-06-06 00:14 G	17191427.28	17191427.51	17191427.75	0.0134	0.0043 *
Venus	42356-12-15 12:14 G	17191619.83	17191620.01	17191620.23	0.0134	0.0053
Moon	42357-06-10 03:36 G	17191796.41	17191796.65	17191796.91	0.0134	0.0037
Earth	42357-06-10 05:31 G	17191796.49	17191796.73	17191796.98	0.0134	0.0032 *
Venus	42357-07-29 18:00 G	17191846.08	17191846.25	17191846.43	0.0134	0.0077
Venus	42358-03-12 23:31 G	17192072.35	17192072.48	17192072.63	0.0134	0.0102
Earth	42358-06-14 12:29 G	17192165.88	17192166.02	17192166.21	0.0134	0.0101
Moon	42358-06-14 14:24 G	17192165.94	17192166.10	17192166.27	0.0134	0.0099 *
Venus	42358-10-25 05:17 G	17192298.66	17192298.72	17192298.80	0.0134	0.0126
Mars	42373-12-26 23:46 G	17197840.21	17197840.49	17197840.77	0.0140	0.0006

Mercury	42377-09-29 22:05 G	17199213.39	17199213.42	17199213.47	0.0141	0.0134
Mercury	42377-12-27 01:41 G	17199301.49	17199301.57	17199301.65	0.0141	0.0112
Mercury	42378-03-25 05:02 G	17199389.61	17199389.71	17199389.81	0.0142	0.0092
Mercury	42378-06-21 08:24 G	17199477.74	17199477.85	17199477.96	0.0142	0.0071
Mercury	42378-09-17 11:46 G	17199565.87	17199565.99	17199566.11	0.0142	0.0050
Mercury	42378-12-14 15:07 G	17199654.00	17199654.13	17199654.26	0.0142	0.0029
Mercury	42379-03-12 18:29 G	17199742.14	17199742.27	17199742.40	0.0142	0.0009
Mercury	42379-06-08 21:50 G	17199830.28	17199830.41	17199830.55	0.0142	0.0014
Mercury	42379-09-05 01:26 G	17199918.43	17199918.56	17199918.69	0.0142	0.0034
Mercury	42379-12-02 04:48 G	17200006.58	17200006.70	17200006.82	0.0142	0.0056
Mercury	42380-02-28 08:10 G	17200094.74	17200094.84	17200094.96	0.0142	0.0078
Mercury	42380-05-26 11:46 G	17200182.90	17200182.99	17200183.08	0.0142	0.0099
Mercury	42380-08-22 15:07 G	17200271.07	17200271.13	17200271.20	0.0143	0.0121
Mercury	42380-11-18 18:43 G	17200359.28	17200359.28	17200359.29	0.0143	0.0142
Venus	42394-02-22 08:38 G	17205202.80	17205202.86	17205202.94	0.0145	0.0136
Venus	42394-10-06 21:07 G	17205429.23	17205429.38	17205429.53	0.0145	0.0105
Venus	42395-05-21 09:22 G	17205655.71	17205655.89	17205656.08	0.0145	0.0074
Venus	42396-01-02 21:50 G	17205882.20	17205882.41	17205882.62	0.0145	0.0042
Venus	42396-08-16 10:05 G	17206108.70	17206108.92	17206109.14	0.0145	0.0010
Earth	42396-12-04 03:50 G	17206218.47	17206218.66	17206218.86	0.0145	0.0091
Moon	42396-12-04 07:12 G	17206218.63	17206218.80	17206219.00	0.0145	0.0097 *
Venus	42397-03-30 22:19 G	17206335.21	17206335.43	17206335.65	0.0144	0.0021
Venus	42397-11-12 10:05 G	17206561.73	17206561.92	17206562.14	0.0144	0.0054
Moon	42397-12-09 02:24 G	17206588.34	17206588.60	17206588.86	0.0144	0.0001
Earth	42397-12-09 05:46 G	17206588.49	17206588.74	17206589.00	0.0144	0.0004 *
Venus	42398-06-26 22:19 G	17206788.26	17206788.43	17206788.62	0.0144	0.0084
Earth	42398-12-14 06:43 G	17206958.58	17206958.78	17206959.00	0.0144	0.0083
Moon	42398-12-14 09:36 G	17206958.70	17206958.90	17206959.10	0.0144	0.0087 *
Venus	42399-02-08 10:05 G	17207014.81	17207014.92	17207015.07	0.0144	0.0116
Mercury	42418-05-04 00:58 G	17214039.44	17214039.54	17214039.65	0.0137	0.0115

Mercury	42418-07-31 08:38 G	17214127.72	17214127.86	17214128.02	0.0137	0.0087
Mercury	42418-10-27 16:34 G	17214216.01	17214216.19	17214216.37	0.0137	0.0058
Mercury	42419-01-24 00:14 G	17214304.32	17214304.51	17214304.70	0.0136	0.0030
Mercury	42419-04-22 07:55 G	17214392.63	17214392.83	17214393.02	0.0136	0.0003
Mercury	42419-07-19 15:22 G	17214480.95	17214481.14	17214481.34	0.0136	0.0026
Mercury	42419-10-15 22:48 G	17214569.28	17214569.45	17214569.64	0.0136	0.0054
Mercury	42420-01-12 06:29 G	17214657.62	17214657.77	17214657.93	0.0136	0.0081
Mercury	42420-04-09 13:41 G	17214745.97	17214746.07	17214746.20	0.0136	0.0109
Mercury	42420-07-06 21:22 G	17214834.39	17214834.39	17214834.40	0.0136	0.0136
Venus	42436-04-14 09:22 G	17220594.84	17220594.89	17220594.96	0.0133	0.0128
Venus	42436-11-26 14:38 G	17220820.98	17220821.11	17220821.25	0.0133	0.0104
Venus	42437-07-10 19:55 G	17221047.16	17221047.33	17221047.51	0.0133	0.0079
Venus	42438-02-22 01:26 G	17221273.37	17221273.56	17221273.76	0.0133	0.0055
Venus	42438-10-06 06:43 G	17221499.58	17221499.78	17221500.00	0.0134	0.0031
Venus	42439-05-20 12:14 G	17221725.79	17221726.01	17221726.23	0.0134	0.0006
Moon	42439-06-02 23:31 G	17221739.34	17221739.48	17221739.65	0.0134	0.0107
Earth	42439-06-03 02:38 G	17221739.45	17221739.61	17221739.78	0.0134	0.0100 *
Venus	42440-01-01 17:31 G	17221952.02	17221952.23	17221952.45	0.0134	0.0020
Earth	42440-06-06 09:36 G	17222108.66	17222108.90	17222109.15	0.0134	0.0033
Moon	42440-06-06 12:00 G	17222108.76	17222109.00	17222109.24	0.0134	0.0026 *
Venus	42440-08-14 23:02 G	17222178.26	17222178.46	17222178.67	0.0134	0.0044
Venus	42441-03-29 04:34 G	17222404.51	17222404.69	17222404.89	0.0134	0.0069
Moon	42441-06-10 14:24 G	17222477.85	17222478.10	17222478.36	0.0134	0.0031
Earth	42441-06-10 16:48 G	17222477.96	17222478.20	17222478.45	0.0134	0.0036 *
Venus	42441-11-10 10:19 G	17222630.78	17222630.93	17222631.09	0.0134	0.0093
Earth	42442-06-15 00:29 G	17222847.37	17222847.52	17222847.68	0.0134	0.0105
Moon	42442-06-15 02:24 G	17222847.48	17222847.60	17222847.77	0.0134	0.0108 *
Venus	42442-06-24 15:36 G	17222857.06	17222857.15	17222857.26	0.0134	0.0118
Mercury	42461-10-20 05:46 G	17229914.69	17229914.74	17229914.80	0.0141	0.0127
Mercury	42462-01-16 09:07 G	17230002.80	17230002.88	17230002.97	0.0141	0.0106

Mercury	42462-04-14 12:29 G	17230090.92	17230091.02	17230091.13	0.0142	0.0086
Mercury	42462-07-11 15:50 G	17230179.05	17230179.16	17230179.28	0.0142	0.0065
Mercury	42462-10-07 19:12 G	17230267.18	17230267.30	17230267.43	0.0142	0.0044
Mercury	42463-01-03 22:34 G	17230355.32	17230355.44	17230355.57	0.0142	0.0023
Mercury	42463-04-02 02:10 G	17230443.46	17230443.59	17230443.72	0.0142	0.0004
Mercury	42463-06-29 05:31 G	17230531.60	17230531.73	17230531.86	0.0142	0.0020
Mercury	42463-09-25 08:53 G	17230619.75	17230619.87	17230620.00	0.0142	0.0041
Mercury	42463-12-22 12:14 G	17230707.90	17230708.01	17230708.13	0.0142	0.0063
Mercury	42464-03-19 15:36 G	17230796.05	17230796.15	17230796.27	0.0142	0.0084
Mercury	42464-06-15 19:12 G	17230884.22	17230884.30	17230884.39	0.0142	0.0106
Mercury	42464-09-11 22:34 G	17230972.39	17230972.44	17230972.51	0.0142	0.0128
Venus	42478-06-06 02:24 G	17235987.49	17235987.60	17235987.74	0.0145	0.0118
Venus	42479-01-18 14:53 G	17236213.95	17236214.12	17236214.30	0.0145	0.0086
Venus	42479-09-02 03:07 G	17236440.44	17236440.63	17236440.84	0.0145	0.0055
Venus	42480-04-15 15:22 G	17236666.93	17236667.14	17236667.36	0.0145	0.0024
Venus	42480-11-28 03:36 G	17236893.43	17236893.65	17236893.87	0.0144	0.0009
Earth	42480-12-04 12:43 G	17236899.83	17236900.03	17236900.24	0.0144	0.0089
Moon	42480-12-04 16:05 G	17236899.97	17236900.17	17236900.39	0.0144	0.0082 *
Venus	42481-07-12 15:36 G	17237119.95	17237120.15	17237120.37	0.0144	0.0040
Moon	42481-12-09 11:02 G	17237269.70	17237269.96	17237270.22	0.0144	0.0004
Earth	42481-12-09 14:24 G	17237269.85	17237270.10	17237270.36	0.0144	0.0003 *
Venus	42482-02-24 03:36 G	17237346.47	17237346.65	17237346.85	0.0144	0.0071
Venus	42482-10-08 15:36 G	17237573.01	17237573.15	17237573.32	0.0144	0.0103
Earth	42482-12-14 14:53 G	17237639.93	17237640.12	17237640.34	0.0144	0.0085
Moon	42482-12-14 18:29 G	17237640.08	17237640.27	17237640.49	0.0144	0.0084 *
Venus	42483-05-23 03:22 G	17237799.58	17237799.64	17237799.74	0.0144	0.0133
Mars	42497-02-17 14:38 G	17242819.03	17242819.11	17242819.24	0.0139	0.0132
Mercury	42502-05-25 07:12 G	17244740.69	17244740.80	17244740.92	0.0137	0.0111
Mercury	42502-08-21 14:53 G	17244828.97	17244829.12	17244829.28	0.0137	0.0083
Mercury	42502-11-17 22:34 G	17244917.27	17244917.44	17244917.63	0.0137	0.0054

Mercury	42503-02-14 06:14 G	17245005.58	17245005.76	17245005.96	0.0136	0.0026
Mercury	42503-05-13 13:55 G	17245093.89	17245094.08	17245094.28	0.0136	0.0004
Mercury	42503-08-09 21:36 G	17245182.21	17245182.40	17245182.59	0.0136	0.0030
Mercury	42503-11-06 05:02 G	17245270.54	17245270.71	17245270.89	0.0136	0.0058
Mercury	42504-02-02 12:43 G	17245358.88	17245359.03	17245359.18	0.0136	0.0085
Mercury	42504-04-30 19:55 G	17245447.24	17245447.33	17245447.45	0.0136	0.0113
Venus	42520-07-28 00:29 G	17251379.42	17251379.52	17251379.65	0.0133	0.0113
Venus	42521-03-11 05:46 G	17251605.60	17251605.74	17251605.92	0.0134	0.0089
Venus	42521-10-23 11:31 G	17251831.79	17251831.98	17251832.17	0.0134	0.0064
Venus	42522-06-06 17:02 G	17252058.00	17252058.21	17252058.41	0.0134	0.0039
Venus	42523-01-18 22:19 G	17252284.22	17252284.43	17252284.65	0.0134	0.0014
Moon	42523-06-04 10:34 G	17252420.76	17252420.94	17252421.14	0.0134	0.0090
Earth	42523-06-04 13:12 G	17252420.89	17252421.05	17252421.24	0.0134	0.0097 *
Venus	42523-09-02 03:50 G	17252510.44	17252510.66	17252510.88	0.0134	0.0010
Venus	42524-04-15 09:22 G	17252736.68	17252736.89	17252737.10	0.0134	0.0035
Earth	42524-06-07 20:10 G	17252790.10	17252790.34	17252790.60	0.0134	0.0029
Moon	42524-06-07 23:17 G	17252790.24	17252790.47	17252790.72	0.0134	0.0036 *
Venus	42524-11-27 14:53 G	17252962.93	17252963.12	17252963.32	0.0134	0.0060
Moon	42525-06-12 00:43 G	17253159.30	17253159.53	17253159.78	0.0134	0.0046
Earth	42525-06-12 03:50 G	17253159.42	17253159.66	17253159.90	0.0134	0.0039 *
Venus	42525-07-11 20:10 G	17253189.19	17253189.34	17253189.52	0.0134	0.0085
Venus	42526-02-23 01:55 G	17253415.46	17253415.58	17253415.71	0.0134	0.0110
Earth	42526-06-16 11:02 G	17253528.83	17253528.96	17253529.12	0.0134	0.0109
Moon	42526-06-16 13:55 G	17253528.93	17253529.08	17253529.23	0.0134	0.0106 *
Venus	42526-10-07 07:26 G	17253641.81	17253641.81	17253641.83	0.0134	0.0134
Mars	42541-05-17 04:19 G	17258977.47	17258977.68	17258977.90	0.0139	0.0089
Mercury	42545-08-14 10:05 G	17260527.91	17260527.92	17260527.93	0.0141	0.0140
Mercury	42545-11-10 13:12 G	17260616.00	17260616.05	17260616.13	0.0141	0.0121
Mercury	42546-02-06 16:48 G	17260704.11	17260704.20	17260704.29	0.0141	0.0099
Mercury	42546-05-05 20:10 G	17260792.23	17260792.34	17260792.45	0.0142	0.0079

Mercury	42546-08-01 23:31 G	17260880.36	17260880.48	17260880.60	0.0142	0.0058
Mercury	42546-10-29 02:53 G	17260968.50	17260968.62	17260968.75	0.0142	0.0037
Mercury	42547-01-25 06:14 G	17261056.63	17261056.76	17261056.89	0.0142	0.0016
Mercury	42547-04-23 09:50 G	17261144.77	17261144.91	17261145.04	0.0142	0.0007
Mercury	42547-07-20 13:12 G	17261232.92	17261233.05	17261233.18	0.0142	0.0027
Mercury	42547-10-16 16:34 G	17261321.07	17261321.19	17261321.31	0.0142	0.0048
Mercury	42548-01-12 19:55 G	17261409.22	17261409.33	17261409.45	0.0142	0.0070
Mercury	42548-04-09 23:17 G	17261497.38	17261497.47	17261497.58	0.0142	0.0092
Mercury	42548-07-07 02:53 G	17261585.55	17261585.62	17261585.70	0.0142	0.0113
Mercury	42548-10-03 06:29 G	17261673.73	17261673.77	17261673.81	0.0142	0.0135
Venus	42562-02-04 09:50 G	17266545.82	17266545.91	17266546.02	0.0145	0.0129
Venus	42562-09-18 22:05 G	17266772.28	17266772.42	17266772.60	0.0145	0.0098
Venus	42563-05-03 10:19 G	17266998.75	17266998.93	17266999.14	0.0145	0.0067
Venus	42563-12-15 22:48 G	17267225.24	17267225.45	17267225.66	0.0145	0.0035
Venus	42564-07-29 10:48 G	17267451.74	17267451.95	17267452.17	0.0144	0.0005
Earth	42564-12-06 00:29 G	17267581.33	17267581.52	17267581.74	0.0144	0.0084
Moon	42564-12-06 04:19 G	17267581.49	17267581.68	17267581.89	0.0144	0.0091 *
Venus	42565-03-12 23:02 G	17267678.25	17267678.46	17267678.67	0.0144	0.0029
Venus	42565-10-25 10:48 G	17267904.77	17267904.95	17267905.16	0.0144	0.0061
Moon	42565-12-10 22:34 G	17267951.19	17267951.44	17267951.70	0.0144	0.0007
Earth	42565-12-11 02:10 G	17267951.34	17267951.59	17267951.85	0.0144	0.0003 *
Venus	42566-06-08 22:48 G	17268131.29	17268131.45	17268131.63	0.0144	0.0091
Earth	42566-12-16 02:38 G	17268321.42	17268321.61	17268321.82	0.0144	0.0089
Moon	42566-12-16 06:14 G	17268321.57	17268321.76	17268321.96	0.0144	0.0091 *
Venus	42567-01-21 10:34 G	17268357.84	17268357.94	17268358.07	0.0144	0.0122
Mars	42581-10-15 17:17 G	17273738.91	17273739.22	17273739.55	0.0139	0.0044
Mercury	42586-03-18 06:14 G	17275353.73	17275353.76	17275353.82	0.0137	0.0133
Mercury	42586-06-14 14:10 G	17275441.97	17275442.09	17275442.22	0.0137	0.0104
Mercury	42586-09-10 21:50 G	17275530.26	17275530.41	17275530.58	0.0137	0.0076
Mercury	42586-12-08 05:31 G	17275618.56	17275618.73	17275618.92	0.0136	0.0048

Mercury	42587-03-06 13:26 G	17275706.87	17275707.06	17275707.25	0.0136	0.0019
Mercury	42587-06-02 21:07 G	17275795.19	17275795.38	17275795.57	0.0136	0.0009
Mercury	42587-08-30 04:34 G	17275883.51	17275883.69	17275883.88	0.0136	0.0037
Mercury	42587-11-26 12:00 G	17275971.84	17275972.00	17275972.18	0.0136	0.0065
Mercury	42588-02-22 19:41 G	17276060.19	17276060.32	17276060.47	0.0136	0.0092
Mercury	42588-05-21 03:07 G	17276148.55	17276148.63	17276148.73	0.0136	0.0120
Venus	42604-03-28 11:17 G	17281937.88	17281937.97	17281938.06	0.0134	0.0121
Venus	42604-11-09 16:34 G	17282164.05	17282164.19	17282164.34	0.0134	0.0097
Venus	42605-06-23 21:36 G	17282390.23	17282390.40	17282390.60	0.0134	0.0073
Venus	42606-02-05 03:22 G	17282616.44	17282616.64	17282616.85	0.0134	0.0048
Venus	42606-09-19 08:53 G	17282842.66	17282842.87	17282843.08	0.0134	0.0023
Venus	42607-05-03 14:24 G	17283068.88	17283069.10	17283069.32	0.0134	0.0002
Moon	42607-06-05 21:07 G	17283102.21	17283102.38	17283102.55	0.0134	0.0099
Earth	42607-06-06 00:29 G	17283102.35	17283102.52	17283102.71	0.0134	0.0093 *
Venus	42607-12-15 19:41 G	17283295.11	17283295.32	17283295.54	0.0134	0.0027
Earth	42608-06-09 07:41 G	17283471.57	17283471.82	17283472.07	0.0134	0.0025
Moon	42608-06-09 10:48 G	17283471.70	17283471.95	17283472.19	0.0134	0.0018 *
Venus	42608-07-29 00:58 G	17283521.35	17283521.54	17283521.75	0.0134	0.0052
Venus	42609-03-12 06:43 G	17283747.61	17283747.78	17283747.97	0.0134	0.0076
Moon	42609-06-13 11:31 G	17283840.74	17283840.98	17283841.23	0.0134	0.0037
Earth	42609-06-13 14:53 G	17283840.89	17283841.12	17283841.37	0.0134	0.0044 *
Venus	42609-10-24 12:14 G	17283973.88	17283974.01	17283974.16	0.0134	0.0101
Venus	42610-06-07 17:46 G	17284200.18	17284200.24	17284200.33	0.0134	0.0126
Earth	42610-06-17 22:05 G	17284210.30	17284210.42	17284210.58	0.0134	0.0113
Moon	42610-06-18 01:41 G	17284210.45	17284210.57	17284210.70	0.0134	0.0117 *
Mars	42626-01-10 18:29 G	17289896.03	17289896.27	17289896.54	0.0140	0.0060
Mercury	42629-09-04 17:46 G	17291229.20	17291229.24	17291229.28	0.0141	0.0133
Mercury	42629-12-01 21:07 G	17291317.30	17291317.38	17291317.46	0.0141	0.0113
Mercury	42630-02-28 00:14 G	17291405.42	17291405.51	17291405.62	0.0141	0.0093
Mercury	42630-05-27 03:50 G	17291493.55	17291493.66	17291493.77	0.0142	0.0071

Mercury	42630-08-23 07:12 G	17291581.68	17291581.80	17291581.92	0.0142	0.0050
Mercury	42630-11-19 10:34 G	17291669.82	17291669.94	17291670.07	0.0142	0.0029
Mercury	42631-02-15 13:55 G	17291757.95	17291758.08	17291758.22	0.0142	0.0009
Mercury	42631-05-14 17:31 G	17291846.10	17291846.23	17291846.36	0.0142	0.0013
Mercury	42631-08-10 20:53 G	17291934.24	17291934.37	17291934.50	0.0142	0.0034
Mercury	42631-11-07 00:14 G	17292022.39	17292022.51	17292022.63	0.0142	0.0056
Mercury	42632-02-03 03:36 G	17292110.55	17292110.65	17292110.77	0.0142	0.0078
Mercury	42632-05-01 06:58 G	17292198.71	17292198.79	17292198.89	0.0142	0.0100
Mercury	42632-07-28 10:34 G	17292286.88	17292286.94	17292287.01	0.0142	0.0121
Mercury	42632-10-24 14:10 G	17292375.09	17292375.09	17292375.09	0.0142	0.0142
Venus	42645-10-05 18:00 G	17297104.21	17297104.25	17297104.31	0.0145	0.0140
Venus	42646-05-20 06:14 G	17297330.63	17297330.76	17297330.91	0.0145	0.0109
Venus	42647-01-01 18:29 G	17297557.09	17297557.27	17297557.46	0.0145	0.0078
Venus	42647-08-16 06:43 G	17297783.58	17297783.78	17297783.99	0.0145	0.0046
Venus	42648-03-29 18:58 G	17298010.07	17298010.29	17298010.51	0.0144	0.0014
Venus	42648-11-11 06:58 G	17298236.58	17298236.79	17298237.01	0.0144	0.0018
Earth	42648-12-07 13:26 G	17298262.86	17298263.06	17298263.29	0.0144	0.0079
Moon	42648-12-07 16:48 G	17298262.99	17298263.20	17298263.44	0.0144	0.0071 *
Venus	42649-06-25 18:58 G	17298463.09	17298463.29	17298463.50	0.0144	0.0049
Moon	42649-12-12 11:17 G	17298632.72	17298632.97	17298633.23	0.0144	0.0006
Earth	42649-12-12 15:07 G	17298632.87	17298633.13	17298633.38	0.0144	0.0009 *
Venus	42650-02-07 06:43 G	17298689.61	17298689.78	17298689.97	0.0144	0.0080
Venus	42650-09-21 18:29 G	17298916.15	17298916.27	17298916.43	0.0144	0.0111
Earth	42650-12-17 15:07 G	17299002.96	17299003.13	17299003.34	0.0144	0.0095
Moon	42650-12-17 18:58 G	17299003.11	17299003.29	17299003.49	0.0144	0.0095 *
Venus	42651-05-06 06:29 G	17299142.74	17299142.77	17299142.82	0.0144	0.0141
Mercury	42670-04-08 13:26 G	17306055.00	17306055.06	17306055.14	0.0137	0.0126
Mercury	42670-07-05 21:22 G	17306143.26	17306143.39	17306143.53	0.0137	0.0097
Mercury	42670-10-02 05:02 G	17306231.55	17306231.71	17306231.88	0.0137	0.0069
Mercury	42670-12-29 12:43 G	17306319.85	17306320.03	17306320.22	0.0136	0.0041

Mercury	42671-03-27 20:24 G	17306408.16	17306408.35	17306408.55	0.0136	0.0013
Mercury	42671-06-24 04:05 G	17306496.48	17306496.67	17306496.87	0.0136	0.0016
Mercury	42671-09-20 11:31 G	17306584.81	17306584.98	17306585.18	0.0136	0.0045
Mercury	42671-12-17 19:26 G	17306673.14	17306673.31	17306673.47	0.0136	0.0072
Mercury	42672-03-15 02:38 G	17306761.49	17306761.61	17306761.75	0.0136	0.0099
Mercury	42672-06-11 10:05 G	17306849.87	17306849.92	17306850.00	0.0136	0.0127
Venus	42687-11-26 20:38 G	17312496.33	17312496.36	17312496.42	0.0133	0.0131
Venus	42688-07-10 02:24 G	17312722.47	17312722.60	17312722.73	0.0134	0.0106
Venus	42689-02-21 07:41 G	17312948.66	17312948.82	17312949.00	0.0134	0.0082
Venus	42689-10-05 13:26 G	17313174.86	17313175.06	17313175.25	0.0134	0.0057
Venus	42690-05-19 18:29 G	17313401.07	17313401.27	17313401.49	0.0134	0.0033
Venus	42691-01-01 00:00 G	17313627.29	17313627.50	17313627.72	0.0134	0.0008
Moon	42691-06-06 07:12 G	17313783.61	17313783.80	17313784.01	0.0134	0.0083
Earth	42691-06-06 10:19 G	17313783.77	17313783.93	17313784.14	0.0134	0.0090 *
Venus	42691-08-15 05:31 G	17313853.52	17313853.73	17313853.95	0.0134	0.0017
Venus	42692-03-28 11:02 G	17314079.76	17314079.96	17314080.17	0.0134	0.0042
Earth	42692-06-09 17:46 G	17314152.99	17314153.24	17314153.49	0.0134	0.0021
Moon	42692-06-09 21:07 G	17314153.14	17314153.38	17314153.63	0.0134	0.0029 *
Venus	42692-11-09 16:19 G	17314306.01	17314306.18	17314306.38	0.0134	0.0067
Moon	42693-06-13 21:36 G	17314522.17	17314522.40	17314522.64	0.0134	0.0053
Earth	42693-06-14 00:43 G	17314522.31	17314522.53	17314522.78	0.0134	0.0048 *
Venus	42693-06-23 22:05 G	17314532.27	17314532.42	17314532.58	0.0134	0.0092
Venus	42694-02-05 03:22 G	17314758.55	17314758.64	17314758.76	0.0134	0.0117
Earth	42694-06-18 08:24 G	17314891.74	17314891.85	17314891.99	0.0134	0.0116
Moon	42694-06-18 12:00 G	17314891.87	17314892.00	17314892.14	0.0134	0.0112 *
Mercury	42713-09-26 01:12 G	17321930.50	17321930.55	17321930.60	0.0141	0.0128
Mercury	42713-12-23 04:19 G	17322018.61	17322018.68	17322018.77	0.0141	0.0108
Mercury	42714-03-21 07:41 G	17322106.73	17322106.82	17322106.93	0.0142	0.0087
Mercury	42714-06-17 11:17 G	17322194.85	17322194.97	17322195.08	0.0142	0.0066
Mercury	42714-09-13 14:38 G	17322282.99	17322283.11	17322283.23	0.0142	0.0045

Mercury	42714-12-10 18:00 G	17322371.12	17322371.25	17322371.38	0.0142	0.0024
Mercury	42715-03-08 21:22 G	17322459.26	17322459.39	17322459.52	0.0142	0.0004
Mercury	42715-06-05 00:43 G	17322547.41	17322547.53	17322547.67	0.0142	0.0020
Mercury	42715-09-01 04:19 G	17322635.55	17322635.68	17322635.80	0.0142	0.0040
Mercury	42715-11-28 07:41 G	17322723.70	17322723.82	17322723.94	0.0142	0.0062
Mercury	42716-02-24 11:02 G	17322811.86	17322811.96	17322812.07	0.0142	0.0084
Mercury	42716-05-22 14:24 G	17322900.02	17322900.10	17322900.20	0.0142	0.0106
Mercury	42716-08-18 18:00 G	17322988.20	17322988.25	17322988.31	0.0142	0.0127
Venus	42730-01-18 13:12 G	17327888.94	17327889.05	17327889.18	0.0145	0.0121
Venus	42730-09-02 01:26 G	17328115.40	17328115.56	17328115.74	0.0145	0.0090
Venus	42731-04-16 13:55 G	17328341.88	17328342.08	17328342.28	0.0145	0.0058
Venus	42731-11-29 01:55 G	17328568.37	17328568.58	17328568.80	0.0145	0.0027
Venus	42732-07-12 14:10 G	17328794.87	17328795.09	17328795.31	0.0144	0.0005
Earth	42732-12-09 01:26 G	17328944.34	17328944.56	17328944.78	0.0144	0.0073
Moon	42732-12-09 04:48 G	17328944.49	17328944.70	17328944.92	0.0144	0.0080 *
Venus	42733-02-24 02:10 G	17329021.38	17329021.59	17329021.80	0.0144	0.0037
Venus	42733-10-08 13:55 G	17329247.90	17329248.08	17329248.29	0.0144	0.0069
Moon	42733-12-13 23:02 G	17329314.22	17329314.46	17329314.72	0.0144	0.0019
Earth	42733-12-14 02:24 G	17329314.35	17329314.60	17329314.86	0.0144	0.0014 *
Venus	42734-05-23 01:55 G	17329474.43	17329474.58	17329474.75	0.0144	0.0099
Earth	42734-12-19 02:38 G	17329684.45	17329684.61	17329684.81	0.0144	0.0100
Moon	42734-12-19 06:14 G	17329684.60	17329684.76	17329684.96	0.0144	0.0101 *
Venus	42735-01-04 13:55 G	17329700.99	17329701.08	17329701.17	0.0144	0.0129
Mars	42749-03-04 05:17 G	17334873.45	17334873.72	17334874.01	0.0139	0.0077
Mercury	42754-04-29 20:53 G	17336756.29	17336756.37	17336756.48	0.0137	0.0118
Mercury	42754-07-27 04:48 G	17336844.56	17336844.70	17336844.85	0.0137	0.0089
Mercury	42754-10-23 12:29 G	17336932.85	17336933.02	17336933.20	0.0136	0.0061
Mercury	42755-01-19 20:10 G	17337021.16	17337021.34	17337021.54	0.0136	0.0033
Mercury	42755-04-18 04:05 G	17337109.47	17337109.67	17337109.86	0.0136	0.0004
Mercury	42755-07-15 11:46 G	17337197.80	17337197.99	17337198.18	0.0136	0.0024

Mercury	42755-10-11 19:12 G	17337286.13	17337286.30	17337286.48	0.0136	0.0052
Mercury	42756-01-08 02:38 G	17337374.46	17337374.61	17337374.78	0.0136	0.0080
Mercury	42756-04-05 10:19 G	17337462.82	17337462.93	17337463.05	0.0136	0.0107
Mercury	42756-07-02 17:31 G	17337551.23	17337551.23	17337551.27	0.0136	0.0135
Venus	42772-03-10 12:00 G	17343280.91	17343281.00	17343281.13	0.0133	0.0116
Venus	42772-10-22 17:46 G	17343507.08	17343507.24	17343507.40	0.0133	0.0091
Venus	42773-06-05 22:48 G	17343733.28	17343733.45	17343733.65	0.0134	0.0067
Venus	42774-01-18 04:19 G	17343959.48	17343959.68	17343959.89	0.0134	0.0042
Venus	42774-09-01 09:50 G	17344185.69	17344185.91	17344186.13	0.0134	0.0017
Venus	42775-04-15 15:22 G	17344411.92	17344412.14	17344412.36	0.0134	0.0008
Moon	42775-06-07 16:34 G	17344465.02	17344465.19	17344465.39	0.0134	0.0092
Earth	42775-06-07 20:24 G	17344465.17	17344465.35	17344465.56	0.0134	0.0086 *
Venus	42775-11-27 20:38 G	17344638.15	17344638.36	17344638.58	0.0134	0.0033
Earth	42776-06-11 03:36 G	17344834.40	17344834.65	17344834.90	0.0134	0.0018
Moon	42776-06-11 06:58 G	17344834.54	17344834.79	17344835.04	0.0134	0.0011 *
Venus	42776-07-11 01:55 G	17344864.39	17344864.58	17344864.79	0.0134	0.0057
Venus	42777-02-22 07:26 G	17345090.65	17345090.81	17345090.99	0.0134	0.0082
Moon	42777-06-15 06:58 G	17345203.56	17345203.79	17345204.04	0.0134	0.0043
Earth	42777-06-15 10:48 G	17345203.72	17345203.95	17345204.19	0.0134	0.0050 *
Venus	42777-10-06 12:58 G	17345316.92	17345317.04	17345317.18	0.0134	0.0107
Venus	42778-05-20 18:29 G	17345543.24	17345543.27	17345543.33	0.0134	0.0131
Earth	42778-06-19 18:14 G	17345573.15	17345573.26	17345573.38	0.0134	0.0119
Moon	42778-06-19 21:36 G	17345573.32	17345573.40	17345573.50	0.0134	0.0125 *
Mars	42793-05-31 16:19 G	17351032.93	17351033.18	17351033.46	0.0140	0.0047
Mercury	42797-10-16 07:55 G	17352631.78	17352631.83	17352631.90	0.0141	0.0124
Mercury	42798-01-12 11:31 G	17352719.89	17352719.98	17352720.07	0.0141	0.0103
Mercury	42798-04-10 14:53 G	17352808.02	17352808.12	17352808.23	0.0142	0.0082
Mercury	42798-07-07 18:14 G	17352896.15	17352896.26	17352896.38	0.0142	0.0062
Mercury	42798-10-03 21:36 G	17352984.28	17352984.40	17352984.53	0.0142	0.0041
Mercury	42798-12-31 00:58 G	17353072.42	17353072.54	17353072.67	0.0142	0.0020

Mercury	42799-03-29 04:34 G	17353160.56	17353160.69	17353160.82	0.0142	0.0003
Mercury	42799-06-25 07:55 G	17353248.70	17353248.83	17353248.96	0.0142	0.0023
Mercury	42799-09-21 11:17 G	17353336.85	17353336.97	17353337.10	0.0142	0.0044
Mercury	42799-12-18 14:38 G	17353425.00	17353425.11	17353425.23	0.0142	0.0066
Mercury	42800-03-15 18:14 G	17353513.16	17353513.26	17353513.36	0.0142	0.0087
Mercury	42800-06-11 21:36 G	17353601.32	17353601.40	17353601.49	0.0142	0.0109
Mercury	42800-09-08 01:12 G	17353689.50	17353689.55	17353689.60	0.0142	0.0131
Venus	42813-09-17 18:29 G	17358447.20	17358447.27	17358447.36	0.0145	0.0134
Venus	42814-05-02 06:43 G	17358673.64	17358673.78	17358673.94	0.0145	0.0103
Venus	42814-12-14 18:58 G	17358900.11	17358900.29	17358900.49	0.0145	0.0072
Venus	42815-07-29 07:12 G	17359126.59	17359126.80	17359127.01	0.0145	0.0040
Venus	42816-03-11 19:26 G	17359353.09	17359353.31	17359353.53	0.0144	0.0008
Venus	42816-10-24 07:26 G	17359579.60	17359579.81	17359580.03	0.0144	0.0023
Earth	42816-12-09 09:22 G	17359625.68	17359625.89	17359626.13	0.0144	0.0071
Moon	42816-12-09 12:14 G	17359625.78	17359626.01	17359626.25	0.0144	0.0063 *
Venus	42817-06-07 19:26 G	17359806.11	17359806.31	17359806.51	0.0144	0.0055
Moon	42817-12-14 07:41 G	17359995.57	17359995.82	17359996.07	0.0144	0.0012
Earth	42817-12-14 11:02 G	17359995.70	17359995.96	17359996.21	0.0144	0.0017 *
Venus	42818-01-20 07:12 G	17360032.63	17360032.80	17360032.98	0.0144	0.0086
Venus	42818-09-03 19:12 G	17360259.18	17360259.30	17360259.43	0.0144	0.0116
Earth	42818-12-19 11:02 G	17360365.81	17360365.96	17360366.16	0.0144	0.0103
Moon	42818-12-19 14:53 G	17360365.95	17360366.12	17360366.30	0.0144	0.0104 *
Mars	42833-10-29 03:36 G	17365793.42	17365793.65	17365793.90	0.0139	0.0096
Mercury	42838-05-20 03:36 G	17367457.56	17367457.65	17367457.78	0.0137	0.0112
Mercury	42838-08-16 11:46 G	17367545.84	17367545.99	17367546.15	0.0137	0.0083
Mercury	42838-11-12 19:26 G	17367634.13	17367634.31	17367634.49	0.0136	0.0054
Mercury	42839-02-09 03:07 G	17367722.44	17367722.63	17367722.83	0.0136	0.0026
Mercury	42839-05-08 10:48 G	17367810.76	17367810.95	17367811.15	0.0136	0.0004
Mercury	42839-08-04 18:29 G	17367899.08	17367899.27	17367899.46	0.0136	0.0030
Mercury	42839-11-01 01:55 G	17367987.41	17367987.58	17367987.77	0.0136	0.0058

Mercury	42840-01-28 09:22 G	17368075.76	17368075.89	17368076.06	0.0136	0.0086
Mercury	42840-04-25 17:02 G	17368164.12	17368164.21	17368164.33	0.0136	0.0113
Venus	42855-11-08 21:36 G	17373839.33	17373839.40	17373839.48	0.0133	0.0125
Venus	42856-06-22 02:38 G	17374065.49	17374065.61	17374065.77	0.0133	0.0101
Venus	42857-02-03 08:24 G	17374291.67	17374291.85	17374292.03	0.0133	0.0076
Venus	42857-09-17 13:26 G	17374517.87	17374518.06	17374518.27	0.0134	0.0052
Venus	42858-05-01 18:58 G	17374744.08	17374744.29	17374744.51	0.0134	0.0027
Venus	42858-12-14 00:29 G	17374970.30	17374970.52	17374970.73	0.0134	0.0003
Moon	42859-06-08 01:55 G	17375146.39	17375146.58	17375146.80	0.0134	0.0078
Earth	42859-06-08 05:31 G	17375146.54	17375146.73	17375146.94	0.0134	0.0083 *
Venus	42859-07-28 05:31 G	17375196.53	17375196.73	17375196.95	0.0134	0.0023
Venus	42860-03-10 11:17 G	17375422.77	17375422.97	17375423.17	0.0134	0.0047
Earth	42860-06-11 12:29 G	17375515.77	17375516.02	17375516.27	0.0134	0.0015
Moon	42860-06-11 16:05 G	17375515.92	17375516.17	17375516.42	0.0134	0.0022 *
Venus	42860-10-22 16:19 G	17375649.01	17375649.18	17375649.38	0.0134	0.0072
Venus	42861-06-05 22:05 G	17375875.27	17375875.42	17375875.57	0.0134	0.0096
Moon	42861-06-15 16:05 G	17375884.96	17375885.17	17375885.40	0.0134	0.0060
Earth	42861-06-15 19:26 G	17375885.09	17375885.31	17375885.55	0.0134	0.0053 *
Venus	42862-01-18 03:22 G	17376101.56	17376101.64	17376101.74	0.0134	0.0121
Earth	42862-06-20 03:07 G	17376254.53	17376254.63	17376254.74	0.0134	0.0122
Moon	42862-06-20 06:29 G	17376254.66	17376254.77	17376254.91	0.0134	0.0117 *
Mars	42878-01-23 22:48 G	17381951.25	17381951.45	17381951.66	0.0140	0.0095
Mercury	42881-11-05 14:53 G	17383333.06	17383333.12	17383333.19	0.0141	0.0121
Mercury	42882-02-01 18:14 G	17383421.17	17383421.26	17383421.36	0.0141	0.0101
Mercury	42882-04-30 21:50 G	17383509.30	17383509.41	17383509.51	0.0141	0.0080
Mercury	42882-07-28 00:58 G	17383597.43	17383597.54	17383597.66	0.0142	0.0059
Mercury	42882-10-24 04:19 G	17383685.56	17383685.68	17383685.81	0.0142	0.0038
Mercury	42883-01-20 07:41 G	17383773.70	17383773.82	17383773.96	0.0142	0.0018
Mercury	42883-04-18 11:17 G	17383861.84	17383861.97	17383862.10	0.0142	0.0005
Mercury	42883-07-15 14:38 G	17383949.98	17383950.11	17383950.24	0.0142	0.0026

Mercury	42883-10-11 18:00 G	17384038.13	17384038.25	17384038.38	0.0142	0.0047
Mercury	42884-01-07 21:22 G	17384126.28	17384126.39	17384126.51	0.0142	0.0069
Mercury	42884-04-05 00:58 G	17384214.44	17384214.54	17384214.64	0.0142	0.0090
Mercury	42884-07-02 04:19 G	17384302.60	17384302.68	17384302.77	0.0142	0.0111
Mercury	42884-09-28 07:41 G	17384390.79	17384390.82	17384390.87	0.0142	0.0133
Venus	42897-12-30 10:19 G	17389231.81	17389231.93	17389232.06	0.0145	0.0117
Venus	42898-08-13 22:19 G	17389458.27	17389458.43	17389458.62	0.0145	0.0086
Venus	42899-03-28 10:34 G	17389684.75	17389684.94	17389685.15	0.0145	0.0055
Venus	42899-11-09 22:48 G	17389911.24	17389911.45	17389911.67	0.0145	0.0023
Venus	42900-06-24 10:48 G	17390137.74	17390137.95	17390138.17	0.0144	0.0009
Earth	42900-12-10 15:22 G	17390306.92	17390307.14	17390307.36	0.0144	0.0070
Moon	42900-12-10 17:31 G	17390307.02	17390307.23	17390307.46	0.0144	0.0077 *
Venus	42901-02-05 22:48 G	17390364.24	17390364.45	17390364.66	0.0144	0.0040
Venus	42901-09-20 10:48 G	17390590.77	17390590.95	17390591.15	0.0144	0.0071
Moon	42901-12-15 13:55 G	17390676.84	17390677.08	17390677.33	0.0144	0.0024
Earth	42901-12-15 16:19 G	17390676.93	17390677.18	17390677.44	0.0144	0.0017 *
Venus	42902-05-04 22:34 G	17390817.30	17390817.44	17390817.61	0.0144	0.0102
Venus	42902-12-17 10:05 G	17391043.86	17391043.92	17391044.03	0.0144	0.0133
Earth	42902-12-20 16:48 G	17391047.04	17391047.20	17391047.39	0.0144	0.0103
Moon	42902-12-20 19:55 G	17391047.17	17391047.33	17391047.53	0.0144	0.0102 *
Mercury	42922-03-14 02:10 G	17398070.59	17398070.59	17398070.63	0.0137	0.0136
Mercury	42922-06-10 10:19 G	17398158.81	17398158.93	17398159.05	0.0137	0.0107
Mercury	42922-09-06 18:00 G	17398247.10	17398247.25	17398247.42	0.0137	0.0079
Mercury	42922-12-04 01:55 G	17398335.40	17398335.58	17398335.76	0.0137	0.0050
Mercury	42923-03-02 09:36 G	17398423.71	17398423.90	17398424.09	0.0136	0.0022
Mercury	42923-05-29 17:17 G	17398512.03	17398512.22	17398512.42	0.0136	0.0007
Mercury	42923-08-26 00:58 G	17398600.35	17398600.54	17398600.73	0.0136	0.0035
Mercury	42923-11-22 08:38 G	17398688.69	17398688.86	17398689.03	0.0136	0.0063
Mercury	42924-02-18 16:05 G	17398777.03	17398777.17	17398777.32	0.0136	0.0090
Mercury	42924-05-16 23:31 G	17398865.39	17398865.48	17398865.58	0.0136	0.0118

Venus	42940-02-21 12:14 G	17404623.90	17404624.01	17404624.14	0.0133	0.0110
Venus	42940-10-04 17:31 G	17404850.08	17404850.23	17404850.41	0.0134	0.0085
Venus	42941-05-18 23:02 G	17405076.27	17405076.46	17405076.66	0.0134	0.0061
Venus	42941-12-31 04:05 G	17405302.47	17405302.67	17405302.89	0.0134	0.0037
Venus	42942-08-14 09:36 G	17405528.69	17405528.90	17405529.12	0.0134	0.0012
Venus	42943-03-28 15:07 G	17405754.92	17405755.13	17405755.35	0.0134	0.0013
Moon	42943-06-09 11:31 G	17405827.79	17405827.98	17405828.18	0.0134	0.0085
Earth	42943-06-09 14:24 G	17405827.92	17405828.10	17405828.33	0.0134	0.0081 *
Venus	42943-11-09 20:24 G	17405981.15	17405981.35	17405981.56	0.0134	0.0038
Earth	42944-06-12 21:36 G	17406197.15	17406197.40	17406197.66	0.0134	0.0013
Moon	42944-06-13 00:58 G	17406197.28	17406197.54	17406197.80	0.0134	0.0006 *
Venus	42944-06-23 01:55 G	17406207.39	17406207.58	17406207.77	0.0134	0.0062
Venus	42945-02-04 06:58 G	17406433.64	17406433.79	17406433.97	0.0134	0.0087
Moon	42945-06-17 01:26 G	17406566.33	17406566.56	17406566.80	0.0134	0.0049
Earth	42945-06-17 04:48 G	17406566.48	17406566.70	17406566.94	0.0134	0.0056 *
Venus	42945-09-18 12:43 G	17406659.92	17406660.03	17406660.16	0.0134	0.0112
Earth	42946-06-21 12:00 G	17406935.92	17406936.00	17406936.11	0.0134	0.0124
Moon	42946-06-21 15:36 G	17406936.10	17406936.15	17406936.21	0.0134	0.0131 *
Mercury	42965-08-30 18:29 G	17413946.26	17413946.27	17413946.30	0.0141	0.0138
Mercury	42965-11-26 22:05 G	17414034.35	17414034.42	17414034.49	0.0141	0.0118
Mercury	42966-02-23 01:12 G	17414122.46	17414122.55	17414122.65	0.0141	0.0097
Mercury	42966-05-22 04:34 G	17414210.59	17414210.69	17414210.80	0.0141	0.0076
Mercury	42966-08-18 07:55 G	17414298.72	17414298.83	17414298.96	0.0142	0.0056
Mercury	42966-11-14 11:17 G	17414386.85	17414386.97	17414387.10	0.0142	0.0035
Mercury	42967-02-10 14:53 G	17414474.99	17414475.12	17414475.25	0.0142	0.0014
Mercury	42967-05-09 18:14 G	17414563.13	17414563.26	17414563.39	0.0142	0.0008
Mercury	42967-08-05 21:36 G	17414651.27	17414651.40	17414651.53	0.0142	0.0029
Mercury	42967-11-02 00:58 G	17414739.42	17414739.54	17414739.66	0.0142	0.0050
Mercury	42968-01-29 04:19 G	17414827.57	17414827.68	17414827.80	0.0142	0.0072
Mercury	42968-04-26 07:41 G	17414915.73	17414915.82	17414915.93	0.0142	0.0093

Mercury	42968-07-23 11:17 G	17415003.90	17415003.97	17415004.05	0.0142	0.0115
Mercury	42968-10-19 14:38 G	17415092.08	17415092.11	17415092.15	0.0142	0.0136
Venus	42981-08-30 13:55 G	17419790.00	17419790.08	17419790.18	0.0145	0.0131
Venus	42982-04-14 02:10 G	17420016.44	17420016.59	17420016.75	0.0145	0.0100
Venus	42982-11-26 14:10 G	17420242.91	17420243.09	17420243.29	0.0145	0.0069
Venus	42983-07-11 02:24 G	17420469.39	17420469.60	17420469.81	0.0145	0.0037
Venus	42984-02-22 14:24 G	17420695.88	17420696.10	17420696.32	0.0144	0.0006
Venus	42984-10-06 02:24 G	17420922.39	17420922.60	17420922.82	0.0144	0.0026
Earth	42984-12-10 20:38 G	17420988.14	17420988.36	17420988.59	0.0144	0.0070
Moon	42984-12-10 21:36 G	17420988.17	17420988.40	17420988.65	0.0144	0.0063 *
Venus	42985-05-20 14:10 G	17421148.90	17421149.09	17421149.30	0.0144	0.0058
Moon	42985-12-15 19:41 G	17421358.08	17421358.32	17421358.57	0.0144	0.0011
Earth	42985-12-15 21:50 G	17421358.16	17421358.41	17421358.67	0.0144	0.0017 *
Venus	42986-01-02 01:55 G	17421375.42	17421375.58	17421375.77	0.0144	0.0089
Venus	42986-08-16 13:41 G	17421601.97	17421602.07	17421602.21	0.0144	0.0119
Earth	42986-12-20 22:19 G	17421728.27	17421728.43	17421728.62	0.0144	0.0103
Moon	42986-12-21 00:43 G	17421728.37	17421728.53	17421728.72	0.0144	0.0107 *

44TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 44th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	43001-03-16 18:14 G	17426926.94	17426927.26	17426927.58	0.0139	0.0048		
Mercury	43006-04-04 07:55 G	17428771.81	17428771.83	17428771.88	0.0137	0.0134		

Mercury	43006-07-01 15:50 G	17428860.05	17428860.16	17428860.29	0.0137	0.0105
Mercury	43006-09-27 23:31 G	17428948.33	17428948.48	17428948.66	0.0137	0.0077
Mercury	43006-12-25 07:41 G	17429036.63	17429036.82	17429037.00	0.0137	0.0048
Mercury	43007-03-23 15:22 G	17429124.95	17429125.14	17429125.33	0.0136	0.0019
Mercury	43007-06-19 23:02 G	17429213.26	17429213.46	17429213.65	0.0136	0.0009
Mercury	43007-09-16 06:29 G	17429301.59	17429301.77	17429301.97	0.0136	0.0037
Mercury	43007-12-13 14:10 G	17429389.93	17429390.09	17429390.27	0.0136	0.0065
Mercury	43008-03-10 21:36 G	17429478.27	17429478.40	17429478.55	0.0136	0.0093
Mercury	43008-06-07 05:17 G	17429566.64	17429566.72	17429566.82	0.0136	0.0120
Venus	43023-10-22 20:38 G	17435182.28	17435182.36	17435182.47	0.0134	0.0120
Venus	43024-06-05 02:10 G	17435408.45	17435408.59	17435408.75	0.0134	0.0095
Venus	43025-01-17 07:26 G	17435634.63	17435634.81	17435635.00	0.0134	0.0071
Venus	43025-08-31 12:58 G	17435860.84	17435861.04	17435861.24	0.0134	0.0046
Venus	43026-04-14 18:14 G	17436087.05	17436087.26	17436087.48	0.0134	0.0022
Venus	43026-11-26 23:46 G	17436313.27	17436313.49	17436313.71	0.0134	0.0003
Moon	43027-06-10 20:10 G	17436509.15	17436509.34	17436509.56	0.0134	0.0075
Earth	43027-06-10 23:02 G	17436509.27	17436509.46	17436509.68	0.0134	0.0079 *
Venus	43027-07-11 05:02 G	17436539.50	17436539.71	17436539.93	0.0134	0.0028
Venus	43028-02-22 10:19 G	17436765.74	17436765.93	17436766.14	0.0134	0.0053
Earth	43028-06-14 06:00 G	17436878.50	17436878.75	17436879.01	0.0134	0.0011
Moon	43028-06-14 09:22 G	17436878.63	17436878.89	17436879.14	0.0134	0.0017 *
Venus	43028-10-05 16:05 G	17436992.00	17436992.17	17436992.35	0.0134	0.0077
Venus	43029-05-19 21:22 G	17437218.27	17437218.39	17437218.55	0.0134	0.0103
Moon	43029-06-18 10:34 G	17437247.73	17437247.94	17437248.17	0.0134	0.0065
Earth	43029-06-18 13:12 G	17437247.84	17437248.05	17437248.29	0.0134	0.0058 *
Venus	43030-01-01 03:07 G	17437444.57	17437444.63	17437444.71	0.0134	0.0127
Earth	43030-06-22 20:53 G	17437617.30	17437617.37	17437617.46	0.0134	0.0127
Moon	43030-06-23 00:14 G	17437617.41	17437617.51	17437617.63	0.0134	0.0120 *
Jupiter	43032-12-11 06:29 G	17438519.63	17438519.77	17438519.98	0.0135	0.0126
Mars	43045-06-14 18:58 G	17443088.00	17443088.29	17443088.57	0.0139	0.0012

Mercury	43049-09-21 01:55 G	17444647.54	17444647.58	17444647.62	0.0141	0.0133
Mercury	43049-12-18 05:02 G	17444735.64	17444735.71	17444735.80	0.0141	0.0113
Mercury	43050-03-16 08:24 G	17444823.76	17444823.85	17444823.96	0.0141	0.0093
Mercury	43050-06-12 11:46 G	17444911.89	17444911.99	17444912.11	0.0141	0.0072
Mercury	43050-09-08 15:22 G	17445000.02	17445000.14	17445000.26	0.0142	0.0051
Mercury	43050-12-05 18:43 G	17445088.15	17445088.28	17445088.40	0.0142	0.0030
Mercury	43051-03-03 22:05 G	17445176.29	17445176.42	17445176.55	0.0142	0.0009
Mercury	43051-05-31 01:26 G	17445264.43	17445264.56	17445264.69	0.0142	0.0013
Mercury	43051-08-27 04:48 G	17445352.57	17445352.70	17445352.83	0.0142	0.0034
Mercury	43051-11-23 08:10 G	17445440.72	17445440.84	17445440.96	0.0142	0.0055
Mercury	43052-02-19 11:31 G	17445528.87	17445528.98	17445529.09	0.0142	0.0077
Mercury	43052-05-17 14:53 G	17445617.03	17445617.12	17445617.22	0.0142	0.0098
Mercury	43052-08-13 18:29 G	17445705.20	17445705.27	17445705.34	0.0142	0.0119
Mercury	43052-11-09 21:50 G	17445793.40	17445793.41	17445793.43	0.0142	0.0141
Venus	43065-04-30 18:58 G	17450348.28	17450348.29	17450348.33	0.0145	0.0144
Venus	43065-12-13 06:58 G	17450574.67	17450574.79	17450574.94	0.0145	0.0113
Venus	43066-07-27 18:58 G	17450801.12	17450801.29	17450801.48	0.0145	0.0082
Venus	43067-03-11 07:12 G	17451027.60	17451027.80	17451028.01	0.0145	0.0050
Venus	43067-10-23 19:26 G	17451254.09	17451254.31	17451254.52	0.0144	0.0019
Venus	43068-06-06 07:12 G	17451480.59	17451480.80	17451481.02	0.0144	0.0013
Earth	43068-12-12 04:19 G	17451669.46	17451669.68	17451669.91	0.0144	0.0068
Moon	43068-12-12 05:02 G	17451669.50	17451669.71	17451669.95	0.0144	0.0076 *
Venus	43069-01-18 19:12 G	17451707.09	17451707.30	17451707.51	0.0144	0.0044
Venus	43069-09-02 06:58 G	17451933.61	17451933.79	17451933.98	0.0144	0.0075
Moon	43069-12-17 04:34 G	17452039.45	17452039.69	17452039.94	0.0144	0.0026
Earth	43069-12-17 05:31 G	17452039.48	17452039.73	17452039.99	0.0144	0.0018 *
Venus	43070-04-16 18:43 G	17452160.14	17452160.28	17452160.44	0.0144	0.0106
Venus	43070-11-29 06:29 G	17452386.72	17452386.77	17452386.85	0.0144	0.0136
Earth	43070-12-22 06:14 G	17452409.59	17452409.76	17452409.93	0.0144	0.0104
Moon	43070-12-22 07:55 G	17452409.66	17452409.83	17452410.03	0.0144	0.0101 *

Mars	43085-11-10 12:00 G	17457846.86	17457847.00	17457847.19	0.0139	0.0121
Mercury	43090-04-24 14:10 G	17459473.04	17459473.09	17459473.16	0.0137	0.0130
Mercury	43090-07-21 22:05 G	17459561.30	17459561.42	17459561.56	0.0137	0.0101
Mercury	43090-10-18 05:46 G	17459649.59	17459649.74	17459649.92	0.0137	0.0073
Mercury	43091-01-14 13:41 G	17459737.89	17459738.07	17459738.26	0.0137	0.0044
Mercury	43091-04-12 21:36 G	17459826.20	17459826.40	17459826.59	0.0136	0.0016
Mercury	43091-07-10 05:02 G	17459914.52	17459914.71	17459914.91	0.0136	0.0013
Mercury	43091-10-06 12:43 G	17460002.85	17460003.03	17460003.22	0.0136	0.0041
Mercury	43092-01-02 20:24 G	17460091.18	17460091.35	17460091.52	0.0136	0.0069
Mercury	43092-03-31 03:50 G	17460179.53	17460179.66	17460179.81	0.0136	0.0097
Mercury	43092-06-27 11:17 G	17460267.91	17460267.97	17460268.06	0.0136	0.0124
Venus	43107-06-23 05:46 G	17465740.69	17465740.74	17465740.80	0.0134	0.0129
Venus	43108-02-04 11:02 G	17465966.84	17465966.96	17465967.11	0.0134	0.0105
Venus	43108-09-17 16:19 G	17466193.02	17466193.18	17466193.37	0.0134	0.0081
Venus	43109-05-01 21:50 G	17466419.22	17466419.41	17466419.62	0.0134	0.0056
Venus	43109-12-14 03:22 G	17466645.43	17466645.64	17466645.86	0.0134	0.0031
Venus	43110-07-28 08:53 G	17466871.65	17466871.87	17466872.09	0.0134	0.0007
Venus	43111-03-11 14:24 G	17467097.88	17467098.10	17467098.31	0.0134	0.0018
Moon	43111-06-12 05:31 G	17467190.55	17467190.73	17467190.95	0.0134	0.0080
Earth	43111-06-12 08:10 G	17467190.64	17467190.84	17467191.05	0.0134	0.0076 *
Venus	43111-10-23 19:41 G	17467324.12	17467324.32	17467324.53	0.0134	0.0043
Venus	43112-06-06 00:58 G	17467550.37	17467550.54	17467550.74	0.0134	0.0069
Earth	43112-06-15 15:22 G	17467559.89	17467560.14	17467560.39	0.0134	0.0008
Moon	43112-06-15 17:46 G	17467559.98	17467560.24	17467560.50	0.0134	0.0003 *
Venus	43113-01-18 06:58 G	17467776.63	17467776.79	17467776.94	0.0134	0.0093
Moon	43113-06-19 19:55 G	17467929.11	17467929.33	17467929.57	0.0134	0.0054
Earth	43113-06-19 22:48 G	17467929.23	17467929.45	17467929.68	0.0134	0.0060 *
Venus	43113-09-01 12:14 G	17468002.92	17468003.01	17468003.13	0.0134	0.0118
Earth	43114-06-24 06:00 G	17468298.71	17468298.75	17468298.84	0.0134	0.0130
Mars	43130-02-08 06:58 G	17474006.75	17474006.79	17474006.88	0.0140	0.0136

Mercury	43133-10-12 09:07 G	17475348.84	17475348.88	17475348.94	0.0141	0.0128
Mercury	43134-01-08 12:29 G	17475436.94	17475437.02	17475437.11	0.0141	0.0107
Mercury	43134-04-06 15:50 G	17475525.06	17475525.16	17475525.27	0.0141	0.0087
Mercury	43134-07-03 19:12 G	17475613.19	17475613.30	17475613.42	0.0141	0.0066
Mercury	43134-09-29 22:34 G	17475701.32	17475701.44	17475701.57	0.0142	0.0045
Mercury	43134-12-27 01:55 G	17475789.46	17475789.58	17475789.71	0.0142	0.0024
Mercury	43135-03-25 05:31 G	17475877.59	17475877.73	17475877.86	0.0142	0.0006
Mercury	43135-06-21 08:53 G	17475965.74	17475965.87	17475966.00	0.0142	0.0019
Mercury	43135-09-17 12:14 G	17476053.88	17476054.01	17476054.13	0.0142	0.0040
Mercury	43135-12-14 15:36 G	17476142.03	17476142.15	17476142.27	0.0142	0.0061
Mercury	43136-03-11 18:58 G	17476230.19	17476230.29	17476230.40	0.0142	0.0082
Mercury	43136-06-07 22:19 G	17476318.35	17476318.43	17476318.52	0.0142	0.0104
Mercury	43136-09-04 01:55 G	17476406.52	17476406.58	17476406.64	0.0142	0.0125
Venus	43149-08-13 13:55 G	17481132.98	17481133.08	17481133.20	0.0145	0.0125
Venus	43150-03-28 01:55 G	17481359.43	17481359.58	17481359.76	0.0145	0.0094
Venus	43150-11-09 13:55 G	17481585.89	17481586.08	17481586.29	0.0145	0.0063
Venus	43151-06-24 01:55 G	17481812.37	17481812.58	17481812.80	0.0144	0.0031
Venus	43152-02-05 13:55 G	17482038.87	17482039.08	17482039.30	0.0144	0.0003
Venus	43152-09-19 02:10 G	17482265.37	17482265.59	17482265.80	0.0144	0.0032
Moon	43152-12-13 14:38 G	17482350.87	17482351.11	17482351.36	0.0144	0.0057
Earth	43152-12-13 15:07 G	17482350.91	17482351.13	17482351.37	0.0144	0.0064 *
Venus	43153-05-03 13:41 G	17482491.89	17482492.07	17482492.28	0.0144	0.0063
Venus	43153-12-16 01:26 G	17482718.41	17482718.56	17482718.74	0.0144	0.0094
Moon	43153-12-18 15:36 G	17482720.91	17482721.15	17482721.40	0.0144	0.0016
Earth	43153-12-18 16:19 G	17482720.93	17482721.18	17482721.43	0.0144	0.0023 *
Venus	43154-07-30 12:58 G	17482944.96	17482945.04	17482945.17	0.0144	0.0125
Earth	43154-12-23 16:48 G	17483091.04	17483091.20	17483091.38	0.0144	0.0108
Moon	43154-12-23 18:00 G	17483091.09	17483091.25	17483091.42	0.0144	0.0113 *
Jupiter	43157-07-04 00:14 G	17484014.33	17484014.51	17484014.80	0.0143	0.0129
Mercury	43174-05-15 20:38 G	17490174.30	17490174.36	17490174.45	0.0137	0.0125

Mercury	43174-08-12 04:48 G	17490262.56	17490262.70	17490262.84	0.0137	0.0096
Mercury	43174-11-08 12:14 G	17490350.85	17490351.01	17490351.19	0.0137	0.0068
Mercury	43175-02-04 20:10 G	17490439.16	17490439.34	17490439.53	0.0136	0.0039
Mercury	43175-05-04 03:50 G	17490527.47	17490527.66	17490527.86	0.0136	0.0011
Mercury	43175-07-31 11:31 G	17490615.79	17490615.98	17490616.18	0.0136	0.0018
Mercury	43175-10-27 19:12 G	17490704.12	17490704.30	17490704.49	0.0136	0.0045
Mercury	43176-01-24 02:38 G	17490792.46	17490792.61	17490792.78	0.0136	0.0074
Mercury	43176-04-21 10:05 G	17490880.81	17490880.92	17490881.06	0.0136	0.0102
Mercury	43176-07-18 18:00 G	17490969.19	17490969.25	17490969.31	0.0136	0.0128
Venus	43191-10-04 19:41 G	17496525.23	17496525.32	17496525.45	0.0134	0.0115
Venus	43192-05-18 01:26 G	17496751.40	17496751.56	17496751.72	0.0134	0.0090
Venus	43192-12-30 06:29 G	17496977.59	17496977.77	17496977.97	0.0134	0.0066
Venus	43193-08-13 12:14 G	17497203.80	17497204.01	17497204.21	0.0134	0.0041
Venus	43194-03-27 17:31 G	17497430.02	17497430.23	17497430.45	0.0134	0.0017
Venus	43194-11-08 23:02 G	17497656.25	17497656.46	17497656.68	0.0134	0.0009
Moon	43195-06-12 15:22 G	17497871.93	17497872.14	17497872.35	0.0134	0.0071
Earth	43195-06-12 16:34 G	17497872.00	17497872.19	17497872.42	0.0134	0.0074 *
Venus	43195-06-23 04:34 G	17497882.48	17497882.69	17497882.90	0.0134	0.0033
Venus	43196-02-04 09:50 G	17498108.73	17498108.91	17498109.12	0.0134	0.0058
Earth	43196-06-16 00:00 G	17498241.25	17498241.50	17498241.76	0.0134	0.0007
Moon	43196-06-16 02:10 G	17498241.33	17498241.59	17498241.85	0.0134	0.0011 *
Venus	43196-09-17 15:22 G	17498334.99	17498335.14	17498335.33	0.0134	0.0083
Venus	43197-05-01 21:36 G	17498561.27	17498561.40	17498561.53	0.0134	0.0108
Moon	43197-06-20 05:46 G	17498610.54	17498610.74	17498610.96	0.0134	0.0070
Earth	43197-06-20 07:12 G	17498610.60	17498610.80	17498611.04	0.0134	0.0064 *
Venus	43197-12-14 02:53 G	17498787.60	17498787.62	17498787.67	0.0134	0.0133
Earth	43198-06-24 15:22 G	17498980.10	17498980.14	17498980.20	0.0134	0.0132
Moon	43198-06-24 17:46 G	17498980.16	17498980.24	17498980.34	0.0134	0.0125 *
Mars	43212-11-02 17:17 G	17504225.08	17504225.22	17504225.39	0.0139	0.0115
Mercury	43217-11-01 16:34 G	17506050.13	17506050.19	17506050.25	0.0141	0.0123

Mercury	43218-01-28 19:41 G	17506138.24	17506138.32	17506138.42	0.0141	0.0103
Mercury	43218-04-26 23:02 G	17506226.36	17506226.46	17506226.58	0.0141	0.0082
Mercury	43218-07-24 02:38 G	17506314.49	17506314.61	17506314.73	0.0142	0.0060
Mercury	43218-10-20 06:00 G	17506402.62	17506402.75	17506402.88	0.0142	0.0040
Mercury	43219-01-16 09:22 G	17506490.76	17506490.89	17506491.02	0.0142	0.0018
Mercury	43219-04-14 12:43 G	17506578.90	17506579.03	17506579.16	0.0142	0.0003
Mercury	43219-07-11 16:05 G	17506667.04	17506667.17	17506667.30	0.0142	0.0024
Mercury	43219-10-07 19:26 G	17506755.19	17506755.31	17506755.44	0.0142	0.0045
Mercury	43220-01-03 23:02 G	17506843.34	17506843.46	17506843.57	0.0142	0.0067
Mercury	43220-04-01 02:10 G	17506931.50	17506931.59	17506931.70	0.0142	0.0089
Mercury	43220-06-28 05:46 G	17507019.66	17507019.74	17507019.83	0.0142	0.0110
Mercury	43220-09-24 09:07 G	17507107.84	17507107.88	17507107.94	0.0142	0.0131
Venus	43233-04-12 20:53 G	17511691.32	17511691.37	17511691.46	0.0145	0.0137
Venus	43233-11-25 08:53 G	17511917.74	17511917.87	17511918.03	0.0145	0.0106
Venus	43234-07-09 20:53 G	17512144.20	17512144.37	17512144.57	0.0145	0.0075
Venus	43235-02-21 08:53 G	17512370.67	17512370.87	17512371.09	0.0144	0.0044
Venus	43235-10-05 21:22 G	17512597.17	17512597.39	17512597.60	0.0144	0.0012
Moon	43235-12-10 02:53 G	17512662.61	17512662.62	17512662.67	0.0144	0.0143
Venus	43236-05-19 09:07 G	17512823.67	17512823.88	17512824.10	0.0144	0.0020
Moon	43236-12-14 01:55 G	17513032.36	17513032.58	17513032.83	0.0144	0.0066
Earth	43236-12-14 02:38 G	17513032.39	17513032.61	17513032.85	0.0144	0.0059 *
Venus	43236-12-31 20:53 G	17513050.18	17513050.37	17513050.58	0.0144	0.0051
Venus	43237-08-15 08:53 G	17513276.70	17513276.87	17513277.05	0.0144	0.0082
Earth	43237-12-19 04:05 G	17513402.42	17513402.67	17513402.92	0.0144	0.0027
Moon	43237-12-19 04:19 G	17513402.45	17513402.68	17513402.92	0.0144	0.0035 *
Venus	43238-03-29 20:38 G	17513503.24	17513503.36	17513503.50	0.0144	0.0113
Venus	43238-11-11 08:24 G	17513729.85	17513729.85	17513729.88	0.0144	0.0144
Earth	43238-12-24 04:34 G	17513772.54	17513772.69	17513772.85	0.0144	0.0113
Moon	43238-12-24 05:02 G	17513772.55	17513772.71	17513772.89	0.0144	0.0108 *
Mars	43253-03-28 19:12 G	17518980.97	17518981.30	17518981.64	0.0139	0.0009

Mercury	43258-06-05 03:50 G	17520875.57	17520875.66	17520875.76	0.0137	0.0118
Mercury	43258-09-01 11:31 G	17520963.84	17520963.98	17520964.14	0.0137	0.0090
Mercury	43258-11-28 19:26 G	17521052.14	17521052.31	17521052.49	0.0137	0.0061
Mercury	43259-02-25 03:07 G	17521140.45	17521140.63	17521140.83	0.0136	0.0033
Mercury	43259-05-24 11:02 G	17521228.76	17521228.96	17521229.15	0.0136	0.0005
Mercury	43259-08-20 18:29 G	17521317.08	17521317.27	17521317.47	0.0136	0.0024
Mercury	43259-11-17 02:10 G	17521405.41	17521405.59	17521405.77	0.0136	0.0052
Mercury	43260-02-13 09:36 G	17521493.75	17521493.90	17521494.07	0.0136	0.0080
Mercury	43260-05-11 17:17 G	17521582.11	17521582.22	17521582.34	0.0136	0.0107
Mercury	43260-08-08 00:29 G	17521670.52	17521670.52	17521670.56	0.0136	0.0135
Venus	43275-06-04 04:48 G	17527083.64	17527083.70	17527083.79	0.0134	0.0125
Venus	43276-01-16 10:34 G	17527309.80	17527309.94	17527310.08	0.0134	0.0100
Venus	43276-08-29 15:36 G	17527535.98	17527536.15	17527536.34	0.0134	0.0076
Venus	43277-04-12 21:22 G	17527762.19	17527762.39	17527762.59	0.0134	0.0051
Venus	43277-11-25 02:38 G	17527988.40	17527988.61	17527988.83	0.0134	0.0027
Venus	43278-07-09 08:10 G	17528214.63	17528214.84	17528215.06	0.0134	0.0003
Venus	43279-02-20 13:41 G	17528440.86	17528441.07	17528441.29	0.0134	0.0023
Moon	43279-06-13 00:43 G	17528553.34	17528553.53	17528553.75	0.0134	0.0073
Earth	43279-06-13 01:41 G	17528553.37	17528553.57	17528553.80	0.0134	0.0071 *
Venus	43279-10-04 19:12 G	17528667.10	17528667.30	17528667.51	0.0134	0.0048
Venus	43280-05-18 00:43 G	17528893.36	17528893.53	17528893.72	0.0134	0.0073
Earth	43280-06-16 09:07 G	17528922.63	17528922.88	17528923.14	0.0134	0.0004
Moon	43280-06-16 10:05 G	17528922.66	17528922.92	17528923.19	0.0134	0.0002 *
Venus	43280-12-30 06:14 G	17529119.63	17529119.76	17529119.92	0.0134	0.0098
Moon	43281-06-20 15:07 G	17529291.92	17529292.13	17529292.36	0.0134	0.0060
Earth	43281-06-20 16:48 G	17529291.98	17529292.20	17529292.42	0.0134	0.0066 *
Venus	43281-08-13 12:14 G	17529345.93	17529346.01	17529346.10	0.0134	0.0123
Earth	43282-06-25 00:29 G	17529661.52	17529661.52	17529661.54	0.0134	0.0134
Mars	43297-06-28 04:19 G	17535143.41	17535143.68	17535143.96	0.0140	0.0029
Mercury	43301-08-26 20:10 G	17536663.33	17536663.34	17536663.36	0.0141	0.0139

Mercury	43301-11-22 23:31 G	17536751.42	17536751.48	17536751.55	0.0141	0.0119
Mercury	43302-02-19 02:53 G	17536839.53	17536839.62	17536839.72	0.0141	0.0098
Mercury	43302-05-18 06:14 G	17536927.66	17536927.76	17536927.87	0.0142	0.0077
Mercury	43302-08-14 09:36 G	17537015.78	17537015.90	17537016.02	0.0142	0.0057
Mercury	43302-11-10 12:58 G	17537103.92	17537104.04	17537104.17	0.0142	0.0036
Mercury	43303-02-06 16:19 G	17537192.05	17537192.18	17537192.31	0.0142	0.0015
Mercury	43303-05-05 19:55 G	17537280.20	17537280.33	17537280.46	0.0142	0.0008
Mercury	43303-08-01 23:17 G	17537368.34	17537368.47	17537368.60	0.0142	0.0028
Mercury	43303-10-29 02:38 G	17537456.49	17537456.61	17537456.73	0.0142	0.0049
Mercury	43304-01-25 06:00 G	17537544.64	17537544.75	17537544.87	0.0142	0.0071
Mercury	43304-04-22 09:22 G	17537632.80	17537632.89	17537632.99	0.0142	0.0093
Mercury	43304-07-19 12:43 G	17537720.96	17537721.03	17537721.12	0.0142	0.0114
Mercury	43304-10-15 16:19 G	17537809.15	17537809.18	17537809.22	0.0142	0.0136
Venus	43317-07-26 15:07 G	17542476.02	17542476.13	17542476.26	0.0145	0.0119
Venus	43318-03-10 03:07 G	17542702.47	17542702.63	17542702.82	0.0145	0.0088
Venus	43318-10-22 15:36 G	17542928.95	17542929.15	17542929.35	0.0145	0.0056
Venus	43319-06-06 03:36 G	17543155.43	17543155.65	17543155.86	0.0144	0.0025
Earth	43319-12-11 11:31 G	17543343.94	17543343.98	17543344.04	0.0144	0.0141
Moon	43319-12-11 13:26 G	17543344.06	17543344.06	17543344.08	0.0144	0.0144
Venus	43320-01-18 15:36 G	17543381.93	17543382.15	17543382.37	0.0144	0.0007
Venus	43320-09-01 03:36 G	17543608.44	17543608.65	17543608.86	0.0144	0.0038
Moon	43320-12-15 11:17 G	17543713.73	17543713.97	17543714.22	0.0144	0.0049
Earth	43320-12-15 13:12 G	17543713.82	17543714.05	17543714.29	0.0144	0.0054 *
Venus	43321-04-15 15:22 G	17543834.96	17543835.14	17543835.34	0.0144	0.0070
Venus	43321-11-28 03:07 G	17544061.49	17544061.63	17544061.80	0.0144	0.0101
Earth	43321-12-20 14:24 G	17544083.86	17544084.10	17544084.36	0.0144	0.0032
Moon	43321-12-20 15:07 G	17544083.89	17544084.13	17544084.38	0.0144	0.0025 *
Venus	43322-07-12 15:22 G	17544288.06	17544288.14	17544288.23	0.0144	0.0131
Moon	43322-12-25 14:38 G	17544454.00	17544454.11	17544454.26	0.0144	0.0124
Earth	43322-12-25 14:53 G	17544454.00	17544454.12	17544454.29	0.0144	0.0118 *

Mercury	43342-06-26 10:48 G	17551576.85	17551576.95	17551577.07	0.0137	0.0112
Mercury	43342-09-22 18:43 G	17551665.13	17551665.28	17551665.44	0.0137	0.0083
Mercury	43342-12-20 02:24 G	17551753.42	17551753.60	17551753.78	0.0136	0.0055
Mercury	43343-03-18 10:05 G	17551841.73	17551841.92	17551842.12	0.0136	0.0026
Mercury	43343-06-14 17:46 G	17551930.05	17551930.24	17551930.44	0.0136	0.0003
Mercury	43343-09-11 01:26 G	17552018.37	17552018.56	17552018.75	0.0136	0.0030
Mercury	43343-12-08 08:53 G	17552106.70	17552106.87	17552107.06	0.0136	0.0058
Mercury	43344-03-05 16:19 G	17552195.05	17552195.18	17552195.35	0.0136	0.0086
Mercury	43344-06-02 00:14 G	17552283.41	17552283.51	17552283.62	0.0136	0.0113
Venus	43359-09-16 18:43 G	17557868.18	17557868.28	17557868.42	0.0134	0.0111
Venus	43360-04-30 00:29 G	17558094.36	17558094.52	17558094.69	0.0134	0.0086
Venus	43360-12-12 05:46 G	17558320.56	17558320.74	17558320.94	0.0134	0.0062
Venus	43361-07-26 11:17 G	17558546.76	17558546.97	17558547.18	0.0134	0.0037
Venus	43362-03-09 16:48 G	17558772.99	17558773.20	17558773.42	0.0134	0.0012
Moon	43362-06-10 02:38 G	17558865.60	17558865.61	17558865.66	0.0134	0.0133
Venus	43362-10-21 22:19 G	17558999.22	17558999.43	17558999.65	0.0134	0.0013
Venus	43363-06-05 03:50 G	17559225.45	17559225.66	17559225.87	0.0134	0.0038
Moon	43363-06-14 09:50 G	17559234.71	17559234.91	17559235.13	0.0134	0.0068
Earth	43363-06-14 10:19 G	17559234.71	17559234.93	17559235.15	0.0134	0.0068 *
Venus	43364-01-17 09:07 G	17559451.70	17559451.88	17559452.09	0.0134	0.0063
Earth	43364-06-17 17:31 G	17559603.98	17559604.23	17559604.48	0.0134	0.0001
Moon	43364-06-17 18:00 G	17559603.99	17559604.25	17559604.52	0.0134	0.0005 *
Venus	43364-08-30 14:53 G	17559677.96	17559678.12	17559678.29	0.0134	0.0088
Venus	43365-04-13 20:38 G	17559904.25	17559904.36	17559904.49	0.0134	0.0112
Earth	43365-06-22 00:29 G	17559973.32	17559973.52	17559973.76	0.0134	0.0069
Moon	43365-06-22 00:43 G	17559973.33	17559973.53	17559973.74	0.0134	0.0073 *
Moon	43366-06-26 09:22 G	17560342.84	17560342.89	17560342.98	0.0134	0.0130
Mercury	43385-09-16 02:53 G	17567364.60	17567364.62	17567364.66	0.0141	0.0137
Mercury	43385-12-13 06:14 G	17567452.69	17567452.76	17567452.84	0.0141	0.0117
Mercury	43386-03-11 09:36 G	17567540.81	17567540.90	17567541.00	0.0142	0.0096

Mercury	43386-06-07 12:58 G	17567628.94	17567629.04	17567629.16	0.0142	0.0075
Mercury	43386-09-03 16:19 G	17567717.06	17567717.18	17567717.30	0.0142	0.0054
Mercury	43386-11-30 19:41 G	17567805.20	17567805.32	17567805.45	0.0142	0.0033
Mercury	43387-02-26 23:02 G	17567893.33	17567893.46	17567893.60	0.0142	0.0013
Mercury	43387-05-26 02:38 G	17567981.48	17567981.61	17567981.74	0.0142	0.0010
Mercury	43387-08-22 06:00 G	17568069.62	17568069.75	17568069.88	0.0142	0.0031
Mercury	43387-11-18 09:22 G	17568157.77	17568157.89	17568158.01	0.0142	0.0052
Mercury	43388-02-14 12:43 G	17568245.92	17568246.03	17568246.14	0.0142	0.0073
Mercury	43388-05-12 16:05 G	17568334.08	17568334.17	17568334.27	0.0142	0.0095
Mercury	43388-08-08 19:41 G	17568422.25	17568422.32	17568422.39	0.0142	0.0117
Mercury	43388-11-04 23:02 G	17568510.44	17568510.46	17568510.49	0.0142	0.0138
Venus	43401-03-26 19:26 G	17573034.24	17573034.31	17573034.41	0.0145	0.0133
Venus	43401-11-08 07:55 G	17573260.68	17573260.83	17573260.98	0.0145	0.0101
Venus	43402-06-22 19:55 G	17573487.14	17573487.33	17573487.52	0.0145	0.0070
Venus	43403-02-04 07:55 G	17573713.62	17573713.83	17573714.05	0.0144	0.0039
Venus	43403-09-18 20:10 G	17573940.13	17573940.34	17573940.56	0.0144	0.0007
Earth	43403-12-12 18:29 G	17574025.23	17574025.27	17574025.36	0.0144	0.0139
Moon	43403-12-12 21:36 G	17574025.35	17574025.40	17574025.48	0.0144	0.0139 *
Venus	43404-05-02 08:24 G	17574166.63	17574166.85	17574167.06	0.0144	0.0025
Venus	43404-12-14 20:10 G	17574393.15	17574393.34	17574393.55	0.0144	0.0056
Moon	43404-12-16 18:14 G	17574395.04	17574395.26	17574395.52	0.0144	0.0059
Earth	43404-12-16 20:38 G	17574395.13	17574395.36	17574395.60	0.0144	0.0052 *
Venus	43405-07-29 07:55 G	17574619.67	17574619.83	17574620.02	0.0144	0.0088
Earth	43405-12-21 21:50 G	17574765.17	17574765.41	17574765.67	0.0144	0.0034
Moon	43405-12-22 00:00 G	17574765.26	17574765.50	17574765.74	0.0144	0.0041 *
Venus	43406-03-12 19:55 G	17574846.22	17574846.33	17574846.46	0.0144	0.0118
Moon	43406-12-26 21:36 G	17575135.25	17575135.40	17575135.58	0.0144	0.0113
Earth	43406-12-26 22:34 G	17575135.32	17575135.44	17575135.60	0.0144	0.0120 *
Mars	43420-08-15 02:53 G	17580115.57	17580115.62	17580115.69	0.0139	0.0136
Mercury	43426-04-20 09:36 G	17582189.88	17582189.90	17582189.94	0.0137	0.0135

Mercury	43426-07-17 17:17 G	17582278.11	17582278.22	17582278.36	0.0137	0.0107
Mercury	43426-10-14 01:12 G	17582366.40	17582366.55	17582366.72	0.0137	0.0078
Mercury	43427-01-10 08:53 G	17582454.70	17582454.87	17582455.06	0.0137	0.0050
Mercury	43427-04-08 16:48 G	17582543.01	17582543.20	17582543.40	0.0136	0.0021
Mercury	43427-07-06 00:29 G	17582631.33	17582631.52	17582631.72	0.0136	0.0008
Mercury	43427-10-02 08:10 G	17582719.65	17582719.84	17582720.03	0.0136	0.0035
Mercury	43427-12-29 15:36 G	17582807.99	17582808.15	17582808.33	0.0136	0.0064
Mercury	43428-03-26 23:17 G	17582896.33	17582896.47	17582896.62	0.0136	0.0091
Mercury	43428-06-23 06:43 G	17582984.70	17582984.78	17582984.88	0.0136	0.0119
Venus	43443-05-18 04:05 G	17588426.59	17588426.67	17588426.78	0.0134	0.0120
Venus	43443-12-30 09:22 G	17588652.75	17588652.89	17588653.05	0.0134	0.0096
Venus	43444-08-12 15:07 G	17588878.94	17588879.13	17588879.31	0.0134	0.0071
Venus	43445-03-26 20:24 G	17589105.15	17589105.35	17589105.56	0.0134	0.0047
Venus	43445-11-08 01:55 G	17589331.37	17589331.58	17589331.80	0.0134	0.0022
Earth	43446-06-11 12:14 G	17589546.99	17589547.01	17589547.03	0.0134	0.0133
Venus	43446-06-22 07:26 G	17589557.59	17589557.81	17589558.02	0.0134	0.0003
Venus	43447-02-03 12:43 G	17589783.82	17589784.03	17589784.25	0.0134	0.0028
Earth	43447-06-15 18:58 G	17589916.08	17589916.29	17589916.52	0.0134	0.0066
Moon	43447-06-15 19:26 G	17589916.11	17589916.31	17589916.53	0.0134	0.0066 *
Venus	43447-09-17 18:14 G	17590010.07	17590010.26	17590010.47	0.0134	0.0053
Venus	43448-04-30 23:46 G	17590236.33	17590236.49	17590236.68	0.0134	0.0078
Moon	43448-06-19 01:26 G	17590285.30	17590285.56	17590285.83	0.0134	0.0005
Earth	43448-06-19 02:24 G	17590285.34	17590285.60	17590285.85	0.0134	0.0003 *
Venus	43448-12-13 05:31 G	17590462.60	17590462.73	17590462.88	0.0134	0.0102
Moon	43449-06-23 09:22 G	17590654.69	17590654.89	17590655.12	0.0134	0.0065
Earth	43449-06-23 09:36 G	17590654.69	17590654.90	17590655.12	0.0134	0.0070 *
Venus	43449-07-27 10:48 G	17590688.90	17590688.95	17590689.04	0.0134	0.0127
Mars	43464-11-16 15:07 G	17596279.92	17596280.13	17596280.36	0.0139	0.0087
Mercury	43469-10-07 09:36 G	17598065.87	17598065.90	17598065.94	0.0141	0.0135
Mercury	43470-01-03 12:58 G	17598153.97	17598154.04	17598154.12	0.0141	0.0115

Mercury	43470-04-01 16:05 G	17598242.09	17598242.17	17598242.28	0.0141	0.0095
Mercury	43470-06-28 19:41 G	17598330.21	17598330.32	17598330.43	0.0142	0.0073
Mercury	43470-09-24 23:02 G	17598418.34	17598418.46	17598418.58	0.0142	0.0052
Mercury	43470-12-22 02:24 G	17598506.47	17598506.60	17598506.73	0.0142	0.0031
Mercury	43471-03-20 05:46 G	17598594.61	17598594.74	17598594.87	0.0142	0.0010
Mercury	43471-06-16 09:07 G	17598682.75	17598682.88	17598683.01	0.0142	0.0011
Mercury	43471-09-12 12:29 G	17598770.90	17598771.02	17598771.15	0.0142	0.0033
Mercury	43471-12-09 15:50 G	17598859.05	17598859.16	17598859.29	0.0142	0.0054
Mercury	43472-03-06 19:26 G	17598947.20	17598947.31	17598947.42	0.0142	0.0075
Mercury	43472-06-02 22:34 G	17599035.36	17599035.44	17599035.55	0.0142	0.0098
Mercury	43472-08-30 02:10 G	17599123.52	17599123.59	17599123.67	0.0142	0.0119
Mercury	43472-11-26 05:31 G	17599211.72	17599211.73	17599211.76	0.0142	0.0141
Venus	43485-07-08 10:48 G	17603818.84	17603818.95	17603819.09	0.0145	0.0116
Venus	43486-02-19 23:02 G	17604045.29	17604045.46	17604045.65	0.0145	0.0085
Venus	43486-10-04 11:31 G	17604271.78	17604271.98	17604272.18	0.0145	0.0053
Venus	43487-05-18 23:31 G	17604498.27	17604498.48	17604498.70	0.0144	0.0022
Earth	43487-12-13 00:14 G	17604706.45	17604706.51	17604706.59	0.0144	0.0139
Moon	43487-12-13 03:07 G	17604706.59	17604706.63	17604706.71	0.0144	0.0141 *
Venus	43487-12-31 11:46 G	17604724.77	17604724.99	17604725.21	0.0144	0.0010
Venus	43488-08-13 23:46 G	17604951.28	17604951.49	17604951.70	0.0144	0.0042
Moon	43488-12-16 23:02 G	17605076.22	17605076.46	17605076.71	0.0144	0.0048
Earth	43488-12-17 02:10 G	17605076.36	17605076.59	17605076.84	0.0144	0.0053 *
Venus	43489-03-28 11:31 G	17605177.81	17605177.98	17605178.18	0.0144	0.0073
Venus	43489-11-09 23:31 G	17605404.35	17605404.48	17605404.64	0.0144	0.0104
Earth	43489-12-22 03:36 G	17605446.41	17605446.65	17605446.90	0.0144	0.0034
Moon	43489-12-22 06:00 G	17605446.50	17605446.75	17605446.99	0.0144	0.0027 *
Venus	43490-06-24 11:17 G	17605630.92	17605630.97	17605631.06	0.0144	0.0135
Moon	43490-12-27 02:24 G	17605816.49	17605816.60	17605816.73	0.0144	0.0127
Earth	43490-12-27 04:19 G	17605816.56	17605816.68	17605816.84	0.0144	0.0120 *
Mars	43505-04-11 19:12 G	17611034.99	17611035.30	17611035.64	0.0139	0.0034

Mercury	43510-05-11 15:36 G	17612891.11	17612891.15	17612891.21	0.0137	0.0132
Mercury	43510-08-07 23:17 G	17612979.36	17612979.47	17612979.61	0.0137	0.0104
Mercury	43510-11-04 07:12 G	17613067.64	17613067.80	17613067.97	0.0137	0.0075
Mercury	43511-01-31 14:53 G	17613155.95	17613156.12	17613156.31	0.0137	0.0047
Mercury	43511-04-29 22:48 G	17613244.26	17613244.45	17613244.65	0.0136	0.0018
Mercury	43511-07-27 06:29 G	17613332.58	17613332.77	17613332.97	0.0136	0.0010
Mercury	43511-10-23 14:10 G	17613420.90	17613421.09	17613421.28	0.0136	0.0039
Mercury	43512-01-19 21:50 G	17613509.24	17613509.41	17613509.58	0.0136	0.0066
Mercury	43512-04-17 05:17 G	17613597.59	17613597.72	17613597.87	0.0136	0.0094
Mercury	43512-07-14 12:43 G	17613685.96	17613686.03	17613686.13	0.0136	0.0122
Venus	43527-01-16 12:14 G	17618984.98	17618985.01	17618985.08	0.0134	0.0130
Venus	43527-08-30 17:46 G	17619211.12	17619211.24	17619211.39	0.0134	0.0106
Venus	43528-04-12 23:31 G	17619437.31	17619437.48	17619437.66	0.0134	0.0081
Venus	43528-11-25 04:48 G	17619663.51	17619663.70	17619663.91	0.0134	0.0057
Venus	43529-07-09 10:19 G	17619889.73	17619889.93	17619890.15	0.0134	0.0032
Venus	43530-02-20 15:50 G	17620115.95	17620116.16	17620116.38	0.0134	0.0008
Moon	43530-06-12 18:29 G	17620228.21	17620228.27	17620228.37	0.0134	0.0127
Earth	43530-06-12 19:55 G	17620228.32	17620228.33	17620228.40	0.0134	0.0132 *
Venus	43530-10-04 21:36 G	17620342.18	17620342.40	17620342.61	0.0134	0.0018
Venus	43531-05-19 02:53 G	17620568.42	17620568.62	17620568.83	0.0134	0.0043
Earth	43531-06-17 03:07 G	17620597.42	17620597.63	17620597.86	0.0134	0.0064
Moon	43531-06-17 04:34 G	17620597.49	17620597.69	17620597.91	0.0134	0.0066 *
Venus	43531-12-31 08:24 G	17620794.67	17620794.85	17620795.04	0.0134	0.0068
Moon	43532-06-20 09:22 G	17620966.63	17620966.89	17620967.16	0.0134	0.0003
Earth	43532-06-20 10:34 G	17620966.69	17620966.94	17620967.19	0.0134	0.0004 *
Venus	43532-08-13 14:10 G	17621020.93	17621021.09	17621021.25	0.0134	0.0092
Venus	43533-03-27 19:26 G	17621247.22	17621247.31	17621247.43	0.0134	0.0118
Earth	43533-06-24 17:31 G	17621336.03	17621336.23	17621336.45	0.0134	0.0072
Moon	43533-06-24 18:58 G	17621336.10	17621336.29	17621336.50	0.0134	0.0076 *
Moon	43534-06-29 00:14 G	17621705.51	17621705.51	17621705.55	0.0134	0.0134

Mars	43549-07-12 23:31 G	17627198.23	17627198.48	17627198.75	0.0139	0.0057
Mercury	43553-10-28 16:34 G	17628767.15	17628767.19	17628767.24	0.0141	0.0132
Mercury	43554-01-24 19:55 G	17628855.25	17628855.33	17628855.41	0.0141	0.0112
Mercury	43554-04-22 23:02 G	17628943.37	17628943.46	17628943.57	0.0141	0.0092
Mercury	43554-07-20 02:24 G	17629031.50	17629031.60	17629031.72	0.0141	0.0071
Mercury	43554-10-16 05:46 G	17629119.63	17629119.74	17629119.87	0.0142	0.0050
Mercury	43555-01-12 09:22 G	17629207.76	17629207.89	17629208.02	0.0142	0.0028
Mercury	43555-04-10 12:43 G	17629295.90	17629296.03	17629296.16	0.0142	0.0007
Mercury	43555-07-07 16:05 G	17629384.04	17629384.17	17629384.30	0.0142	0.0014
Mercury	43555-10-03 19:26 G	17629472.18	17629472.31	17629472.44	0.0142	0.0036
Mercury	43555-12-30 22:48 G	17629560.33	17629560.45	17629560.57	0.0142	0.0057
Mercury	43556-03-28 02:24 G	17629648.49	17629648.60	17629648.70	0.0142	0.0078
Mercury	43556-06-24 05:31 G	17629736.65	17629736.73	17629736.83	0.0142	0.0100
Mercury	43556-09-20 09:07 G	17629824.82	17629824.88	17629824.95	0.0142	0.0122
Venus	43569-03-08 14:38 G	17634377.03	17634377.11	17634377.22	0.0145	0.0130
Venus	43569-10-21 02:53 G	17634603.47	17634603.62	17634603.79	0.0145	0.0098
Venus	43570-06-04 15:07 G	17634829.94	17634830.13	17634830.33	0.0145	0.0067
Venus	43571-01-17 03:22 G	17635056.43	17635056.64	17635056.85	0.0144	0.0035
Venus	43571-08-31 15:36 G	17635282.93	17635283.15	17635283.37	0.0144	0.0004
Earth	43571-12-14 06:14 G	17635387.70	17635387.76	17635387.84	0.0144	0.0139
Moon	43571-12-14 09:36 G	17635387.87	17635387.90	17635387.98	0.0144	0.0141
Venus	43572-04-14 03:36 G	17635509.44	17635509.65	17635509.87	0.0144	0.0028
Venus	43572-11-26 15:22 G	17635735.95	17635736.14	17635736.35	0.0144	0.0060
Moon	43572-12-18 04:48 G	17635757.48	17635757.70	17635757.95	0.0144	0.0056
Earth	43572-12-18 08:10 G	17635757.61	17635757.84	17635758.09	0.0144	0.0052 *
Venus	43573-07-11 03:22 G	17635962.48	17635962.64	17635962.82	0.0144	0.0090
Earth	43573-12-23 09:36 G	17636127.65	17636127.90	17636128.15	0.0144	0.0034
Moon	43573-12-23 12:43 G	17636127.79	17636128.03	17636128.27	0.0144	0.0041 *
Venus	43574-02-22 15:07 G	17636189.03	17636189.13	17636189.26	0.0144	0.0121
Moon	43574-12-28 07:26 G	17636497.67	17636497.81	17636497.99	0.0144	0.0113

Earth	43574-12-28 10:05 G	17636497.80	17636497.92	17636498.07	0.0144	0.0120	*
Mercury	43594-05-31 21:07 G	17643592.34	17643592.38	17643592.46	0.0137	0.0130	
Mercury	43594-08-28 05:17 G	17643680.59	17643680.72	17643680.86	0.0137	0.0101	
Mercury	43594-11-24 13:12 G	17643768.88	17643769.05	17643769.22	0.0137	0.0072	
Mercury	43595-02-20 20:53 G	17643857.19	17643857.37	17643857.56	0.0137	0.0044	
Mercury	43595-05-20 04:34 G	17643945.50	17643945.69	17643945.89	0.0136	0.0016	
Mercury	43595-08-16 12:29 G	17644033.82	17644034.02	17644034.21	0.0136	0.0013	
Mercury	43595-11-12 19:55 G	17644122.15	17644122.33	17644122.52	0.0136	0.0042	
Mercury	43596-02-09 03:36 G	17644210.49	17644210.65	17644210.82	0.0136	0.0070	
Mercury	43596-05-07 11:17 G	17644298.84	17644298.97	17644299.11	0.0136	0.0097	
Mercury	43596-08-03 18:43 G	17644387.22	17644387.28	17644387.36	0.0136	0.0125	
Venus	43611-04-30 02:38 G	17649769.52	17649769.61	17649769.74	0.0134	0.0115	
Venus	43611-12-12 08:10 G	17649995.69	17649995.84	17649996.01	0.0134	0.0091	
Venus	43612-07-25 13:41 G	17650221.89	17650222.07	17650222.27	0.0134	0.0066	
Venus	43613-03-08 19:26 G	17650448.10	17650448.31	17650448.52	0.0134	0.0041	
Venus	43613-10-21 00:58 G	17650674.32	17650674.54	17650674.76	0.0134	0.0016	
Venus	43614-06-04 06:29 G	17650900.55	17650900.77	17650900.99	0.0134	0.0009	
Earth	43614-06-13 04:48 G	17650909.66	17650909.70	17650909.79	0.0134	0.0130	
Venus	43615-01-16 11:46 G	17651126.79	17651126.99	17651127.21	0.0134	0.0034	
Earth	43615-06-17 12:14 G	17651278.79	17651279.01	17651279.24	0.0134	0.0062	
Moon	43615-06-17 13:55 G	17651278.87	17651279.08	17651279.31	0.0134	0.0061	*
Venus	43615-08-30 17:17 G	17651353.03	17651353.22	17651353.42	0.0134	0.0058	
Venus	43616-04-12 22:48 G	17651579.30	17651579.45	17651579.63	0.0134	0.0083	
Moon	43616-06-20 17:02 G	17651647.95	17651648.21	17651648.47	0.0134	0.0006	
Earth	43616-06-20 19:12 G	17651648.05	17651648.30	17651648.56	0.0134	0.0006	*
Venus	43616-11-25 04:19 G	17651805.57	17651805.68	17651805.83	0.0134	0.0108	
Earth	43617-06-25 02:24 G	17652017.40	17652017.60	17652017.82	0.0134	0.0074	
Moon	43617-06-25 03:50 G	17652017.46	17652017.66	17652017.88	0.0134	0.0070	*
Venus	43617-07-09 09:50 G	17652031.90	17652031.91	17652031.96	0.0134	0.0133	
Mercury	43637-11-17 23:46 G	17659468.44	17659468.49	17659468.54	0.0141	0.0128	

Mercury	43638-02-14 02:53 G	17659556.55	17659556.62	17659556.71	0.0141	0.0107
Mercury	43638-05-13 06:14 G	17659644.67	17659644.76	17659644.87	0.0141	0.0087
Mercury	43638-08-09 09:36 G	17659732.79	17659732.90	17659733.02	0.0141	0.0066
Mercury	43638-11-05 13:12 G	17659820.92	17659821.05	17659821.17	0.0142	0.0044
Mercury	43639-02-01 16:34 G	17659909.06	17659909.19	17659909.32	0.0142	0.0023
Mercury	43639-04-30 19:55 G	17659997.20	17659997.33	17659997.46	0.0142	0.0002
Mercury	43639-07-27 23:17 G	17660085.34	17660085.47	17660085.60	0.0142	0.0019
Mercury	43639-10-24 02:38 G	17660173.49	17660173.61	17660173.74	0.0142	0.0041
Mercury	43640-01-20 06:00 G	17660261.64	17660261.75	17660261.87	0.0142	0.0062
Mercury	43640-04-17 09:36 G	17660349.79	17660349.90	17660350.00	0.0142	0.0083
Mercury	43640-07-14 12:43 G	17660437.95	17660438.03	17660438.13	0.0142	0.0106
Mercury	43640-10-10 16:19 G	17660526.13	17660526.18	17660526.24	0.0142	0.0127
Venus	43652-11-05 20:24 G	17664935.32	17664935.35	17664935.40	0.0145	0.0142
Venus	43653-06-20 08:38 G	17665161.73	17665161.86	17665162.00	0.0145	0.0111
Venus	43654-02-01 20:38 G	17665388.19	17665388.36	17665388.55	0.0145	0.0080
Venus	43654-09-16 08:53 G	17665614.67	17665614.87	17665615.08	0.0144	0.0048
Venus	43655-04-30 21:07 G	17665841.16	17665841.38	17665841.60	0.0144	0.0017
Venus	43655-12-13 09:07 G	17666067.66	17666067.88	17666068.10	0.0144	0.0015
Earth	43655-12-14 14:53 G	17666069.06	17666069.12	17666069.22	0.0144	0.0137
Moon	43655-12-14 18:43 G	17666069.21	17666069.28	17666069.38	0.0144	0.0136 *
Venus	43656-07-26 20:53 G	17666294.17	17666294.37	17666294.59	0.0144	0.0047
Moon	43656-12-18 13:12 G	17666438.82	17666439.05	17666439.30	0.0144	0.0048
Earth	43656-12-18 16:48 G	17666438.98	17666439.20	17666439.46	0.0144	0.0051 *
Venus	43657-03-10 09:07 G	17666520.69	17666520.88	17666521.06	0.0144	0.0078
Venus	43657-10-22 21:07 G	17666747.24	17666747.38	17666747.52	0.0144	0.0109
Earth	43657-12-23 18:14 G	17666809.01	17666809.26	17666809.50	0.0144	0.0037
Moon	43657-12-23 21:22 G	17666809.14	17666809.39	17666809.64	0.0144	0.0030 *
Venus	43658-06-06 08:38 G	17666973.82	17666973.86	17666973.92	0.0144	0.0139
Moon	43658-12-28 15:07 G	17667179.04	17667179.13	17667179.27	0.0144	0.0130
Earth	43658-12-28 18:29 G	17667179.16	17667179.27	17667179.42	0.0144	0.0122 *

Mars	43672-08-26 15:07 G	17672168.93	17672169.13	17672169.34	0.0139	0.0109
Mercury	43678-06-21 03:22 G	17674293.58	17674293.64	17674293.73	0.0137	0.0126
Mercury	43678-09-17 11:31 G	17674381.85	17674381.98	17674382.12	0.0137	0.0097
Mercury	43678-12-14 19:12 G	17674470.14	17674470.30	17674470.48	0.0137	0.0068
Mercury	43679-03-13 03:07 G	17674558.44	17674558.63	17674558.82	0.0136	0.0040
Mercury	43679-06-09 10:48 G	17674646.76	17674646.95	17674647.15	0.0136	0.0011
Mercury	43679-09-05 18:29 G	17674735.08	17674735.27	17674735.47	0.0136	0.0017
Mercury	43679-12-03 02:10 G	17674823.41	17674823.59	17674823.78	0.0136	0.0045
Mercury	43680-02-29 09:50 G	17674911.75	17674911.91	17674912.08	0.0136	0.0073
Mercury	43680-05-27 17:17 G	17675000.10	17675000.22	17675000.36	0.0136	0.0102
Mercury	43680-08-24 00:58 G	17675088.49	17675088.54	17675088.61	0.0136	0.0129
Venus	43694-12-28 11:02 G	17680327.91	17680327.96	17680328.06	0.0134	0.0125
Venus	43695-08-11 17:02 G	17680554.07	17680554.21	17680554.35	0.0134	0.0100
Venus	43696-03-24 22:19 G	17680780.27	17680780.43	17680780.62	0.0134	0.0076
Venus	43696-11-06 04:05 G	17681006.47	17681006.67	17681006.87	0.0134	0.0051
Venus	43697-06-20 09:36 G	17681232.69	17681232.90	17681233.11	0.0134	0.0026
Venus	43698-02-01 15:07 G	17681458.91	17681459.13	17681459.35	0.0134	0.0002
Moon	43698-06-13 10:34 G	17681590.85	17681590.94	17681591.06	0.0134	0.0122
Earth	43698-06-13 13:26 G	17681591.01	17681591.06	17681591.15	0.0134	0.0128 *
Venus	43698-09-15 20:24 G	17681685.14	17681685.35	17681685.57	0.0134	0.0024
Venus	43699-04-30 01:55 G	17681911.39	17681911.58	17681911.80	0.0134	0.0049
Earth	43699-06-17 20:24 G	17681960.13	17681960.35	17681960.58	0.0134	0.0060
Moon	43699-06-17 22:48 G	17681960.25	17681960.45	17681960.69	0.0134	0.0064 *
Venus	43699-12-12 07:41 G	17682137.64	17682137.82	17682138.01	0.0134	0.0073
Moon	43700-06-22 01:12 G	17682329.29	17682329.55	17682329.81	0.0134	0.0007
Earth	43700-06-22 03:36 G	17682329.40	17682329.65	17682329.91	0.0134	0.0008 *
Venus	43700-07-26 12:58 G	17682363.91	17682364.04	17682364.20	0.0134	0.0098
Venus	43701-03-09 18:43 G	17682590.20	17682590.28	17682590.38	0.0134	0.0123
Earth	43701-06-26 10:34 G	17682698.75	17682698.94	17682699.17	0.0134	0.0077
Moon	43701-06-26 13:26 G	17682698.87	17682699.06	17682699.27	0.0134	0.0079 *

Mars	43716-11-30 19:12 G	17688335.05	17688335.30	17688335.58	0.0139	0.0051
Mercury	43721-12-09 06:58 G	17690169.73	17690169.79	17690169.86	0.0141	0.0122
Mercury	43722-03-07 10:19 G	17690257.85	17690257.93	17690258.03	0.0141	0.0102
Mercury	43722-06-03 13:41 G	17690345.97	17690346.07	17690346.18	0.0141	0.0081
Mercury	43722-08-30 17:02 G	17690434.10	17690434.21	17690434.33	0.0142	0.0060
Mercury	43722-11-26 20:38 G	17690522.23	17690522.36	17690522.48	0.0142	0.0039
Mercury	43723-02-23 00:00 G	17690610.37	17690610.50	17690610.63	0.0142	0.0018
Mercury	43723-05-22 03:22 G	17690698.51	17690698.64	17690698.77	0.0142	0.0005
Mercury	43723-08-18 06:43 G	17690786.65	17690786.78	17690786.91	0.0142	0.0025
Mercury	43723-11-14 10:05 G	17690874.80	17690874.92	17690875.04	0.0142	0.0046
Mercury	43724-02-10 13:26 G	17690962.95	17690963.06	17690963.18	0.0142	0.0068
Mercury	43724-05-08 16:48 G	17691051.11	17691051.20	17691051.31	0.0142	0.0090
Mercury	43724-08-04 20:10 G	17691139.27	17691139.34	17691139.43	0.0142	0.0111
Mercury	43724-10-31 23:46 G	17691227.45	17691227.49	17691227.54	0.0142	0.0133
Venus	43737-02-18 15:36 G	17695720.05	17695720.15	17695720.28	0.0145	0.0123
Venus	43737-10-03 03:50 G	17695946.51	17695946.66	17695946.85	0.0144	0.0092
Venus	43738-05-17 16:19 G	17696172.98	17696173.18	17696173.38	0.0144	0.0060
Venus	43738-12-30 04:19 G	17696399.47	17696399.68	17696399.90	0.0144	0.0028
Venus	43739-08-13 16:19 G	17696625.96	17696626.18	17696626.40	0.0144	0.0004
Earth	43739-12-16 02:38 G	17696750.53	17696750.61	17696750.73	0.0144	0.0132
Moon	43739-12-16 06:29 G	17696750.69	17696750.77	17696750.87	0.0144	0.0134 *
Venus	43740-03-27 04:19 G	17696852.47	17696852.68	17696852.89	0.0144	0.0035
Venus	43740-11-08 16:05 G	17697078.99	17697079.17	17697079.37	0.0144	0.0067
Moon	43740-12-20 00:58 G	17697120.30	17697120.54	17697120.79	0.0144	0.0048
Earth	43740-12-20 04:34 G	17697120.45	17697120.69	17697120.94	0.0144	0.0045 *
Venus	43741-06-23 03:50 G	17697305.51	17697305.66	17697305.83	0.0144	0.0098
Earth	43741-12-25 05:17 G	17697490.49	17697490.72	17697490.98	0.0144	0.0041
Moon	43741-12-25 09:07 G	17697490.65	17697490.88	17697491.13	0.0144	0.0047 *
Venus	43742-02-04 15:36 G	17697532.07	17697532.15	17697532.26	0.0144	0.0128
Moon	43742-12-30 02:24 G	17697860.47	17697860.60	17697860.76	0.0144	0.0119

Earth	43742-12-30 06:00 G	17697860.64	17697860.75	17697860.88	0.0144	0.0126 *
Mars	43757-04-23 14:53 G	17703088.84	17703089.12	17703089.42	0.0139	0.0068
Mercury	43762-07-12 10:19 G	17704994.85	17704994.93	17704995.04	0.0137	0.0120
Mercury	43762-10-08 18:14 G	17705083.12	17705083.26	17705083.42	0.0137	0.0091
Mercury	43763-01-05 02:10 G	17705171.42	17705171.59	17705171.77	0.0136	0.0062
Mercury	43763-04-03 09:50 G	17705259.73	17705259.91	17705260.11	0.0136	0.0034
Mercury	43763-06-30 17:46 G	17705348.04	17705348.24	17705348.44	0.0136	0.0005
Mercury	43763-09-27 01:26 G	17705436.37	17705436.56	17705436.75	0.0136	0.0024
Mercury	43763-12-24 08:53 G	17705524.70	17705524.87	17705525.06	0.0136	0.0052
Mercury	43764-03-21 16:34 G	17705613.04	17705613.19	17705613.36	0.0136	0.0080
Mercury	43764-06-18 00:00 G	17705701.40	17705701.50	17705701.64	0.0136	0.0108
Mercury	43764-09-14 07:55 G	17705789.82	17705789.83	17705789.85	0.0136	0.0135
Venus	43779-04-12 02:10 G	17711112.48	17711112.59	17711112.73	0.0134	0.0110
Venus	43779-11-24 07:41 G	17711338.67	17711338.82	17711339.00	0.0134	0.0086
Venus	43780-07-07 13:12 G	17711564.87	17711565.05	17711565.25	0.0134	0.0061
Venus	43781-02-18 18:58 G	17711791.08	17711791.29	17711791.50	0.0134	0.0036
Venus	43781-10-03 00:29 G	17712017.30	17712017.52	17712017.74	0.0134	0.0011
Venus	43782-05-17 06:00 G	17712243.53	17712243.75	17712243.97	0.0134	0.0014
Moon	43782-06-14 19:26 G	17712272.29	17712272.31	17712272.39	0.0134	0.0131
Earth	43782-06-14 22:48 G	17712272.38	17712272.45	17712272.56	0.0134	0.0125 *
Venus	43782-12-29 11:17 G	17712469.77	17712469.97	17712470.19	0.0134	0.0039
Earth	43783-06-19 06:00 G	17712641.52	17712641.75	17712641.98	0.0134	0.0057
Moon	43783-06-19 08:53 G	17712641.65	17712641.87	17712642.10	0.0134	0.0054 *
Venus	43783-08-12 16:34 G	17712696.02	17712696.19	17712696.40	0.0134	0.0064
Venus	43784-03-25 22:34 G	17712922.28	17712922.44	17712922.60	0.0134	0.0088
Moon	43784-06-22 09:36 G	17713010.65	17713010.90	17713011.16	0.0134	0.0009
Earth	43784-06-22 12:58 G	17713010.79	17713011.04	17713011.29	0.0134	0.0011 *
Venus	43784-11-07 03:50 G	17713148.56	17713148.66	17713148.79	0.0134	0.0113
Earth	43785-06-26 19:55 G	17713380.14	17713380.33	17713380.55	0.0134	0.0079
Moon	43785-06-26 22:34 G	17713380.25	17713380.44	17713380.66	0.0134	0.0077 *

Mars	43801-07-27 07:55 G	17719253.64	17719253.83	17719254.05	0.0140	0.0097
Mercury	43805-10-03 11:02 G	17720782.94	17720782.96	17720782.99	0.0141	0.0138
Mercury	43805-12-30 14:10 G	17720871.03	17720871.09	17720871.17	0.0141	0.0118
Mercury	43806-03-28 17:31 G	17720959.15	17720959.23	17720959.34	0.0141	0.0097
Mercury	43806-06-24 20:53 G	17721047.27	17721047.37	17721047.49	0.0142	0.0076
Mercury	43806-09-21 00:29 G	17721135.40	17721135.52	17721135.64	0.0142	0.0054
Mercury	43806-12-18 03:50 G	17721223.53	17721223.66	17721223.79	0.0142	0.0033
Mercury	43807-03-16 07:12 G	17721311.67	17721311.80	17721311.93	0.0142	0.0012
Mercury	43807-06-12 10:34 G	17721399.81	17721399.94	17721400.07	0.0142	0.0010
Mercury	43807-09-08 13:55 G	17721487.96	17721488.08	17721488.21	0.0142	0.0031
Mercury	43807-12-05 17:31 G	17721576.11	17721576.23	17721576.35	0.0142	0.0052
Mercury	43808-03-02 20:53 G	17721664.26	17721664.37	17721664.48	0.0142	0.0074
Mercury	43808-05-30 00:14 G	17721752.42	17721752.51	17721752.61	0.0142	0.0095
Mercury	43808-08-26 03:36 G	17721840.58	17721840.65	17721840.73	0.0142	0.0117
Mercury	43808-11-22 07:12 G	17721928.77	17721928.80	17721928.83	0.0142	0.0138
Venus	43820-10-19 23:02 G	17726278.40	17726278.46	17726278.55	0.0145	0.0135
Venus	43821-06-03 11:02 G	17726504.83	17726504.96	17726505.13	0.0145	0.0104
Venus	43822-01-15 23:31 G	17726731.30	17726731.48	17726731.67	0.0145	0.0072
Venus	43822-08-30 11:31 G	17726957.78	17726957.98	17726958.20	0.0144	0.0041
Venus	43823-04-13 23:46 G	17727184.28	17727184.49	17727184.71	0.0144	0.0009
Venus	43823-11-26 11:46 G	17727410.78	17727410.99	17727411.21	0.0144	0.0023
Earth	43823-12-17 15:07 G	17727432.01	17727432.13	17727432.25	0.0144	0.0126
Moon	43823-12-17 18:29 G	17727432.14	17727432.27	17727432.41	0.0144	0.0124 *
Venus	43824-07-09 23:46 G	17727637.29	17727637.49	17727637.69	0.0144	0.0054
Moon	43824-12-21 12:58 G	17727801.80	17727802.04	17727802.29	0.0144	0.0039
Earth	43824-12-21 16:48 G	17727801.95	17727802.20	17727802.44	0.0144	0.0040 *
Venus	43825-02-21 11:31 G	17727863.81	17727863.98	17727864.16	0.0144	0.0086
Venus	43825-10-05 23:31 G	17728090.36	17728090.48	17728090.61	0.0144	0.0116
Earth	43825-12-26 17:31 G	17728171.99	17728172.23	17728172.47	0.0144	0.0046
Moon	43825-12-26 20:53 G	17728172.13	17728172.37	17728172.62	0.0144	0.0041 *

Moon	43826-12-31 14:24 G	17728542.05	17728542.10	17728542.17	0.0144	0.0139
Earth	43826-12-31 18:14 G	17728542.16	17728542.26	17728542.36	0.0144	0.0131 *
Mercury	43846-08-02 17:46 G	17735696.14	17735696.24	17735696.36	0.0137	0.0112
Mercury	43846-10-30 01:41 G	17735784.42	17735784.57	17735784.73	0.0136	0.0083
Mercury	43847-01-26 09:22 G	17735872.72	17735872.89	17735873.08	0.0136	0.0054
Mercury	43847-04-24 17:17 G	17735961.03	17735961.22	17735961.41	0.0136	0.0026
Mercury	43847-07-22 00:58 G	17736049.35	17736049.54	17736049.74	0.0136	0.0004
Mercury	43847-10-18 08:38 G	17736137.67	17736137.86	17736138.06	0.0136	0.0031
Mercury	43848-01-14 16:19 G	17736226.01	17736226.18	17736226.36	0.0136	0.0059
Mercury	43848-04-12 00:00 G	17736314.35	17736314.50	17736314.65	0.0136	0.0087
Mercury	43848-07-09 07:26 G	17736402.72	17736402.81	17736402.92	0.0136	0.0115
Venus	43862-12-11 11:17 G	17741670.89	17741670.97	17741671.08	0.0134	0.0120
Venus	43863-07-25 17:02 G	17741897.06	17741897.21	17741897.36	0.0134	0.0095
Venus	43864-03-07 22:19 G	17742123.26	17742123.43	17742123.63	0.0134	0.0071
Venus	43864-10-20 03:50 G	17742349.46	17742349.66	17742349.87	0.0134	0.0046
Venus	43865-06-03 09:22 G	17742575.68	17742575.89	17742576.11	0.0134	0.0021
Venus	43866-01-15 14:53 G	17742801.90	17742802.12	17742802.33	0.0134	0.0004
Moon	43866-06-16 04:19 G	17742953.55	17742953.68	17742953.81	0.0134	0.0115
Earth	43866-06-16 07:41 G	17742953.73	17742953.82	17742953.93	0.0134	0.0122 *
Venus	43866-08-29 20:10 G	17743028.13	17743028.34	17743028.56	0.0134	0.0029
Venus	43867-04-13 01:26 G	17743254.38	17743254.56	17743254.78	0.0134	0.0054
Earth	43867-06-20 14:10 G	17743322.87	17743323.09	17743323.33	0.0134	0.0055
Moon	43867-06-20 17:31 G	17743323.02	17743323.23	17743323.47	0.0134	0.0060 *
Venus	43867-11-25 07:12 G	17743480.63	17743480.80	17743480.98	0.0134	0.0078
Moon	43868-06-23 18:14 G	17743692.00	17743692.26	17743692.51	0.0134	0.0014
Earth	43868-06-23 21:22 G	17743692.14	17743692.39	17743692.65	0.0134	0.0013 *
Venus	43868-07-08 12:29 G	17743706.90	17743707.02	17743707.17	0.0134	0.0103
Venus	43869-02-19 18:00 G	17743933.20	17743933.25	17743933.33	0.0134	0.0128
Earth	43869-06-28 04:19 G	17744061.49	17744061.68	17744061.90	0.0134	0.0081
Moon	43869-06-28 07:55 G	17744061.64	17744061.83	17744062.04	0.0134	0.0082 *

Mercury	43889-10-23 18:14 G	17751484.22	17751484.26	17751484.30	0.0141	0.0134
Mercury	43890-01-19 21:22 G	17751572.32	17751572.39	17751572.47	0.0141	0.0113
Mercury	43890-04-18 00:43 G	17751660.44	17751660.53	17751660.63	0.0142	0.0092
Mercury	43890-07-15 04:05 G	17751748.56	17751748.67	17751748.79	0.0142	0.0071
Mercury	43890-10-11 07:26 G	17751836.69	17751836.81	17751836.94	0.0142	0.0050
Mercury	43891-01-07 10:48 G	17751924.83	17751924.95	17751925.08	0.0142	0.0030
Mercury	43891-04-05 14:24 G	17752012.97	17752013.10	17752013.23	0.0142	0.0009
Mercury	43891-07-02 17:46 G	17752101.11	17752101.24	17752101.37	0.0142	0.0014
Mercury	43891-09-28 21:07 G	17752189.25	17752189.38	17752189.51	0.0142	0.0035
Mercury	43891-12-26 00:29 G	17752277.40	17752277.52	17752277.64	0.0142	0.0056
Mercury	43892-03-23 03:50 G	17752365.56	17752365.66	17752365.77	0.0142	0.0078
Mercury	43892-06-19 07:12 G	17752453.72	17752453.80	17752453.90	0.0142	0.0100
Mercury	43892-09-15 10:34 G	17752541.89	17752541.94	17752542.02	0.0142	0.0122
Venus	43905-02-01 17:31 G	17757063.12	17757063.23	17757063.37	0.0145	0.0116
Venus	43905-09-16 05:46 G	17757289.58	17757289.74	17757289.93	0.0145	0.0085
Venus	43906-04-30 18:14 G	17757516.06	17757516.26	17757516.47	0.0145	0.0053
Venus	43906-12-13 06:14 G	17757742.55	17757742.76	17757742.98	0.0145	0.0021
Venus	43907-07-27 18:14 G	17757969.05	17757969.26	17757969.48	0.0144	0.0011
Earth	43907-12-19 01:26 G	17758113.43	17758113.56	17758113.70	0.0144	0.0122
Moon	43907-12-19 04:34 G	17758113.57	17758113.69	17758113.82	0.0144	0.0126 *
Venus	43908-03-10 06:00 G	17758195.55	17758195.75	17758195.97	0.0144	0.0043
Venus	43908-10-22 18:14 G	17758422.08	17758422.26	17758422.45	0.0144	0.0073
Moon	43908-12-22 23:46 G	17758483.25	17758483.49	17758483.74	0.0144	0.0037
Earth	43908-12-23 03:07 G	17758483.38	17758483.63	17758483.88	0.0144	0.0035 *
Venus	43909-06-06 06:00 G	17758648.61	17758648.75	17758648.91	0.0144	0.0104
Earth	43909-12-28 03:50 G	17758853.44	17758853.66	17758853.92	0.0144	0.0051
Moon	43909-12-28 07:41 G	17758853.60	17758853.82	17758854.07	0.0144	0.0057 *
Venus	43910-01-18 17:31 G	17758875.18	17758875.23	17758875.33	0.0144	0.0136
Moon	43911-01-02 01:12 G	17759223.46	17759223.55	17759223.68	0.0144	0.0129
Earth	43911-01-02 04:48 G	17759223.63	17759223.70	17759223.79	0.0144	0.0136 *

Mars	43924-09-10 06:43 G	17764223.49	17764223.78	17764224.11	0.0139	0.0054
Mercury	43930-05-27 17:31 G	17766309.19	17766309.23	17766309.28	0.0137	0.0132
Mercury	43930-08-24 01:12 G	17766397.43	17766397.55	17766397.69	0.0137	0.0103
Mercury	43930-11-20 09:07 G	17766485.72	17766485.88	17766486.05	0.0136	0.0075
Mercury	43931-02-16 16:48 G	17766574.03	17766574.20	17766574.40	0.0136	0.0046
Mercury	43931-05-16 00:43 G	17766662.34	17766662.53	17766662.73	0.0136	0.0018
Mercury	43931-08-12 08:24 G	17766750.66	17766750.85	17766751.05	0.0136	0.0011
Mercury	43931-11-08 16:05 G	17766838.99	17766839.17	17766839.36	0.0136	0.0039
Mercury	43932-02-04 23:46 G	17766927.33	17766927.49	17766927.66	0.0136	0.0067
Mercury	43932-05-03 07:26 G	17767015.68	17767015.81	17767015.95	0.0136	0.0095
Mercury	43932-07-30 14:53 G	17767104.05	17767104.12	17767104.21	0.0136	0.0123
Venus	43946-08-11 20:53 G	17772229.33	17772229.37	17772229.44	0.0133	0.0129
Venus	43947-03-26 02:24 G	17772455.48	17772455.60	17772455.75	0.0133	0.0105
Venus	43947-11-07 08:10 G	17772681.66	17772681.84	17772682.01	0.0133	0.0080
Venus	43948-06-20 13:12 G	17772907.86	17772908.05	17772908.26	0.0134	0.0056
Venus	43949-02-01 18:43 G	17773134.07	17773134.28	17773134.49	0.0134	0.0031
Venus	43949-09-16 00:00 G	17773360.29	17773360.50	17773360.72	0.0134	0.0007
Venus	43950-04-30 05:31 G	17773586.52	17773586.73	17773586.95	0.0134	0.0019
Moon	43950-06-17 13:12 G	17773634.99	17773635.05	17773635.16	0.0134	0.0126
Earth	43950-06-17 16:48 G	17773635.10	17773635.20	17773635.33	0.0134	0.0119 *
Venus	43950-12-12 10:48 G	17773812.75	17773812.95	17773813.16	0.0134	0.0044
Earth	43951-06-21 23:31 G	17774004.25	17774004.48	17774004.72	0.0134	0.0052
Moon	43951-06-22 03:07 G	17774004.40	17774004.63	17774004.87	0.0134	0.0047 *
Venus	43951-07-26 16:19 G	17774039.00	17774039.18	17774039.37	0.0134	0.0068
Venus	43952-03-08 21:36 G	17774265.26	17774265.40	17774265.57	0.0134	0.0093
Moon	43952-06-25 02:53 G	17774373.37	17774373.62	17774373.88	0.0134	0.0012
Earth	43952-06-25 06:29 G	17774373.52	17774373.77	17774374.03	0.0134	0.0016 *
Venus	43952-10-21 03:22 G	17774491.54	17774491.64	17774491.75	0.0134	0.0117
Earth	43953-06-29 13:12 G	17774742.87	17774743.05	17774743.27	0.0134	0.0085
Moon	43953-06-29 17:02 G	17774743.01	17774743.21	17774743.41	0.0134	0.0083 *

Mars	43968-12-14 20:38 G	17780390.09	17780390.36	17780390.65	0.0139	0.0019
Mercury	43973-11-14 00:43 G	17782185.50	17782185.53	17782185.59	0.0141	0.0132
Mercury	43974-02-10 04:05 G	17782273.60	17782273.67	17782273.76	0.0141	0.0111
Mercury	43974-05-09 07:41 G	17782361.72	17782361.82	17782361.92	0.0142	0.0090
Mercury	43974-08-05 11:02 G	17782449.84	17782449.96	17782450.07	0.0142	0.0069
Mercury	43974-11-01 14:24 G	17782537.98	17782538.10	17782538.22	0.0142	0.0048
Mercury	43975-01-28 17:46 G	17782626.11	17782626.24	17782626.37	0.0142	0.0027
Mercury	43975-04-26 21:07 G	17782714.25	17782714.38	17782714.51	0.0142	0.0006
Mercury	43975-07-24 00:29 G	17782802.39	17782802.52	17782802.65	0.0142	0.0016
Mercury	43975-10-20 03:50 G	17782890.54	17782890.66	17782890.79	0.0142	0.0037
Mercury	43976-01-16 07:12 G	17782978.68	17782978.80	17782978.92	0.0142	0.0059
Mercury	43976-04-13 10:34 G	17783066.84	17783066.94	17783067.05	0.0142	0.0081
Mercury	43976-07-10 13:55 G	17783155.00	17783155.08	17783155.18	0.0142	0.0102
Mercury	43976-10-06 17:31 G	17783243.17	17783243.23	17783243.30	0.0142	0.0124
Venus	43988-10-01 22:05 G	17787621.34	17787621.42	17787621.53	0.0145	0.0130
Venus	43989-05-16 10:34 G	17787847.79	17787847.94	17787848.10	0.0145	0.0098
Venus	43989-12-28 22:34 G	17788074.26	17788074.44	17788074.64	0.0145	0.0067
Venus	43990-08-12 10:48 G	17788300.74	17788300.95	17788301.16	0.0145	0.0035
Venus	43991-03-26 22:48 G	17788527.24	17788527.45	17788527.67	0.0145	0.0005
Venus	43991-11-08 10:48 G	17788753.75	17788753.95	17788754.17	0.0144	0.0029
Earth	43991-12-19 08:53 G	17788794.73	17788794.87	17788795.01	0.0144	0.0120
Moon	43991-12-19 11:02 G	17788794.83	17788794.96	17788795.14	0.0144	0.0117 *
Venus	43992-06-21 22:48 G	17788980.26	17788980.45	17788980.66	0.0144	0.0060
Moon	43992-12-23 07:26 G	17789164.58	17789164.81	17789165.06	0.0144	0.0035
Earth	43992-12-23 10:34 G	17789164.69	17789164.94	17789165.19	0.0144	0.0033 *
Venus	43993-02-03 10:48 G	17789206.79	17789206.95	17789207.12	0.0144	0.0091
Venus	43993-09-17 22:48 G	17789433.34	17789433.45	17789433.57	0.0144	0.0121
Earth	43993-12-28 11:31 G	17789534.75	17789534.98	17789535.23	0.0144	0.0053
Moon	43993-12-28 14:53 G	17789534.88	17789535.12	17789535.37	0.0144	0.0049 *
Earth	43995-01-02 12:14 G	17789904.96	17789905.01	17789905.10	0.0144	0.0138

45TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 45th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	44009-05-07 04:19 G		17795143.55	17795143.68	17795143.85	0.0139	0.0124	
Mercury	44014-06-17 00:14 G		17797010.45	17797010.51	17797010.60	0.0137	0.0126	
Mercury	44014-09-13 08:24 G		17797098.72	17797098.85	17797098.99	0.0137	0.0097	
Mercury	44014-12-10 16:19 G		17797187.01	17797187.18	17797187.35	0.0136	0.0068	
Mercury	44015-03-09 00:00 G		17797275.32	17797275.50	17797275.69	0.0136	0.0039	
Mercury	44015-06-05 07:41 G		17797363.63	17797363.82	17797364.02	0.0136	0.0012	
Mercury	44015-09-01 15:36 G		17797451.95	17797452.15	17797452.34	0.0136	0.0017	
Mercury	44015-11-28 23:17 G		17797540.28	17797540.47	17797540.65	0.0136	0.0046	
Mercury	44016-02-25 06:29 G		17797628.62	17797628.77	17797628.95	0.0136	0.0075	
Mercury	44016-05-23 14:10 G		17797716.98	17797717.09	17797717.23	0.0136	0.0102	
Mercury	44016-08-19 22:05 G		17797805.36	17797805.42	17797805.48	0.0136	0.0129	
Venus	44030-11-23 11:46 G		17803013.89	17803013.99	17803014.11	0.0133	0.0114	
Venus	44031-07-07 16:48 G		17803240.06	17803240.20	17803240.38	0.0133	0.0090	
Venus	44032-02-18 22:34 G		17803466.25	17803466.44	17803466.63	0.0133	0.0065	
Venus	44032-10-02 03:36 G		17803692.46	17803692.65	17803692.87	0.0134	0.0041	
Venus	44033-05-16 09:07 G		17803918.67	17803918.88	17803919.10	0.0134	0.0016	
Venus	44033-12-28 14:24 G		17804144.89	17804145.10	17804145.32	0.0134	0.0010	
Moon	44034-06-17 21:50 G		17804316.29	17804316.41	17804316.57	0.0134	0.0110	
Earth	44034-06-18 01:41 G		17804316.46	17804316.57	17804316.71	0.0134	0.0117	*

Venus	44034-08-11 19:41 G	17804371.12	17804371.32	17804371.54	0.0134	0.0034
Venus	44035-03-26 00:58 G	17804597.36	17804597.54	17804597.75	0.0134	0.0059
Earth	44035-06-22 07:55 G	17804685.61	17804685.83	17804686.08	0.0134	0.0050
Moon	44035-06-22 11:46 G	17804685.76	17804685.99	17804686.22	0.0134	0.0055 *
Venus	44035-11-07 06:29 G	17804823.61	17804823.77	17804823.95	0.0134	0.0083
Venus	44036-06-20 11:46 G	17805049.88	17805049.99	17805050.14	0.0134	0.0108
Moon	44036-06-25 11:31 G	17805054.73	17805054.98	17805055.23	0.0134	0.0021
Earth	44036-06-25 15:07 G	17805054.88	17805055.13	17805055.38	0.0134	0.0018 *
Venus	44037-02-01 17:17 G	17805276.20	17805276.22	17805276.27	0.0134	0.0132
Earth	44037-06-29 21:50 G	17805424.23	17805424.41	17805424.62	0.0134	0.0086
Moon	44037-06-30 01:41 G	17805424.38	17805424.57	17805424.77	0.0134	0.0085 *
Jupiter	44041-03-09 15:07 G	17806773.01	17806773.13	17806773.29	0.0135	0.0129
Mars	44053-08-09 03:36 G	17811308.55	17811308.65	17811308.79	0.0140	0.0127
Mercury	44057-12-04 07:26 G	17812886.77	17812886.81	17812886.87	0.0141	0.0130
Mercury	44058-03-02 10:48 G	17812974.88	17812974.95	17812975.04	0.0141	0.0109
Mercury	44058-05-29 14:10 G	17813063.00	17813063.09	17813063.20	0.0142	0.0088
Mercury	44058-08-25 17:31 G	17813151.12	17813151.23	17813151.35	0.0142	0.0067
Mercury	44058-11-21 21:07 G	17813239.25	17813239.38	17813239.50	0.0142	0.0046
Mercury	44059-02-18 00:29 G	17813327.39	17813327.52	17813327.65	0.0142	0.0025
Mercury	44059-05-17 03:50 G	17813415.53	17813415.66	17813415.79	0.0142	0.0004
Mercury	44059-08-13 07:12 G	17813503.67	17813503.80	17813503.93	0.0142	0.0018
Mercury	44059-11-09 10:34 G	17813591.81	17813591.94	17813592.07	0.0142	0.0039
Mercury	44060-02-05 13:55 G	17813679.96	17813680.08	17813680.20	0.0142	0.0061
Mercury	44060-05-03 17:17 G	17813768.12	17813768.22	17813768.33	0.0142	0.0083
Mercury	44060-07-30 20:38 G	17813856.28	17813856.36	17813856.45	0.0142	0.0104
Mercury	44060-10-27 00:14 G	17813944.45	17813944.51	17813944.57	0.0142	0.0126
Venus	44072-06-01 02:10 G	17818179.56	17818179.59	17818179.62	0.0145	0.0143
Venus	44073-01-13 14:10 G	17818405.96	17818406.09	17818406.24	0.0145	0.0112
Venus	44073-08-28 02:24 G	17818632.43	17818632.60	17818632.79	0.0145	0.0081
Venus	44074-04-11 14:38 G	17818858.91	17818859.11	17818859.32	0.0145	0.0049

Venus	44074-11-24 02:38 G	17819085.40	17819085.61	17819085.83	0.0145	0.0018
Venus	44075-07-08 14:38 G	17819311.90	17819312.11	17819312.33	0.0145	0.0014
Earth	44075-12-19 14:38 G	17819475.99	17819476.11	17819476.27	0.0145	0.0120
Moon	44075-12-19 16:34 G	17819476.07	17819476.19	17819476.33	0.0145	0.0125 *
Venus	44076-02-20 02:38 G	17819538.41	17819538.61	17819538.82	0.0145	0.0046
Venus	44076-10-03 14:53 G	17819764.94	17819765.12	17819765.31	0.0144	0.0077
Moon	44076-12-23 14:24 G	17819845.86	17819846.10	17819846.34	0.0144	0.0032
Earth	44076-12-23 16:34 G	17819845.95	17819846.19	17819846.44	0.0144	0.0033 *
Venus	44077-05-18 02:53 G	17819991.48	17819991.62	17819991.76	0.0144	0.0108
Earth	44077-12-28 18:00 G	17820216.01	17820216.25	17820216.49	0.0144	0.0053
Moon	44077-12-28 20:53 G	17820216.14	17820216.37	17820216.62	0.0144	0.0057 *
Venus	44077-12-30 14:24 G	17820218.06	17820218.10	17820218.17	0.0144	0.0139
Moon	44079-01-02 15:50 G	17820586.08	17820586.16	17820586.27	0.0144	0.0133
Earth	44079-01-02 18:43 G	17820586.24	17820586.28	17820586.36	0.0144	0.0139 *
Mercury	44098-07-07 06:58 G	17827711.71	17827711.79	17827711.89	0.0137	0.0121
Mercury	44098-10-03 14:53 G	17827799.98	17827800.12	17827800.27	0.0137	0.0092
Mercury	44098-12-30 22:34 G	17827888.28	17827888.44	17827888.63	0.0136	0.0064
Mercury	44099-03-29 06:29 G	17827976.59	17827976.77	17827976.96	0.0136	0.0035
Mercury	44099-06-25 14:24 G	17828064.90	17828065.10	17828065.29	0.0136	0.0006
Mercury	44099-09-21 22:05 G	17828153.23	17828153.42	17828153.61	0.0136	0.0022
Mercury	44099-12-19 05:46 G	17828241.56	17828241.74	17828241.92	0.0136	0.0050
Mercury	44100-03-17 13:26 G	17828329.90	17828330.06	17828330.22	0.0136	0.0079
Mercury	44100-06-13 20:53 G	17828418.26	17828418.37	17828418.50	0.0136	0.0106
Mercury	44100-09-10 04:19 G	17828506.66	17828506.68	17828506.72	0.0136	0.0134
Venus	44114-07-24 21:07 G	17833572.30	17833572.38	17833572.47	0.0133	0.0123
Venus	44115-03-08 02:24 G	17833798.47	17833798.60	17833798.76	0.0134	0.0099
Venus	44115-10-20 07:55 G	17834024.65	17834024.83	17834025.02	0.0134	0.0074
Venus	44116-06-02 13:12 G	17834250.85	17834251.05	17834251.26	0.0134	0.0050
Venus	44117-01-14 18:29 G	17834477.06	17834477.27	17834477.49	0.0134	0.0025
Venus	44117-08-28 23:46 G	17834703.28	17834703.49	17834703.71	0.0134	0.0003

Venus	44118-04-12 05:17 G	17834929.51	17834929.72	17834929.94	0.0134	0.0024
Moon	44118-06-19 07:55 G	17834997.74	17834997.83	17834997.95	0.0134	0.0121
Earth	44118-06-19 11:02 G	17834997.84	17834997.96	17834998.10	0.0134	0.0114 *
Venus	44118-11-24 10:34 G	17835155.74	17835155.94	17835156.15	0.0134	0.0049
Earth	44119-06-23 17:46 G	17835367.01	17835367.24	17835367.48	0.0134	0.0047
Moon	44119-06-23 21:22 G	17835367.15	17835367.39	17835367.64	0.0134	0.0041 *
Venus	44119-07-08 15:50 G	17835381.99	17835382.16	17835382.35	0.0134	0.0074
Venus	44120-02-19 21:22 G	17835608.25	17835608.39	17835608.54	0.0134	0.0098
Moon	44120-06-26 21:22 G	17835736.14	17835736.39	17835736.64	0.0134	0.0016
Earth	44120-06-27 00:29 G	17835736.28	17835736.52	17835736.78	0.0134	0.0021 *
Venus	44120-10-03 02:38 G	17835834.54	17835834.61	17835834.71	0.0134	0.0123
Earth	44121-07-01 07:12 G	17836105.63	17836105.80	17836106.01	0.0134	0.0089
Moon	44121-07-01 10:48 G	17836105.78	17836105.95	17836106.15	0.0134	0.0089 *
Mars	44136-05-04 09:36 G	17841526.84	17841526.90	17841527.01	0.0139	0.0132
Mercury	44141-12-25 14:38 G	17843588.06	17843588.11	17843588.17	0.0141	0.0125
Mercury	44142-03-23 18:00 G	17843676.17	17843676.25	17843676.34	0.0141	0.0105
Mercury	44142-06-19 21:22 G	17843764.29	17843764.39	17843764.50	0.0142	0.0084
Mercury	44142-09-16 00:43 G	17843852.41	17843852.53	17843852.65	0.0142	0.0063
Mercury	44142-12-13 04:05 G	17843940.55	17843940.67	17843940.79	0.0142	0.0042
Mercury	44143-03-11 07:26 G	17844028.68	17844028.81	17844028.94	0.0142	0.0021
Mercury	44143-06-07 10:48 G	17844116.82	17844116.95	17844117.08	0.0142	0.0001
Mercury	44143-09-03 14:10 G	17844204.96	17844205.09	17844205.22	0.0142	0.0022
Mercury	44143-11-30 17:31 G	17844293.11	17844293.23	17844293.36	0.0142	0.0043
Mercury	44144-02-26 20:53 G	17844381.26	17844381.37	17844381.49	0.0142	0.0065
Mercury	44144-05-25 00:14 G	17844469.41	17844469.51	17844469.62	0.0142	0.0086
Mercury	44144-08-21 03:50 G	17844557.57	17844557.66	17844557.74	0.0142	0.0108
Mercury	44144-11-17 06:58 G	17844645.75	17844645.79	17844645.85	0.0142	0.0130
Venus	44156-09-13 18:29 G	17848964.18	17848964.27	17848964.39	0.0145	0.0126
Venus	44157-04-28 06:58 G	17849190.63	17849190.79	17849190.95	0.0145	0.0094
Venus	44157-12-10 18:43 G	17849417.09	17849417.28	17849417.49	0.0145	0.0063

Venus	44158-07-25 06:43 G	17849643.58	17849643.78	17849644.00	0.0145	0.0032
Venus	44159-03-08 18:58 G	17849870.07	17849870.29	17849870.51	0.0145	0.0002
Venus	44159-10-21 07:12 G	17850096.59	17850096.80	17850097.01	0.0145	0.0032
Earth	44159-12-20 21:22 G	17850157.26	17850157.39	17850157.55	0.0145	0.0119
Moon	44159-12-20 22:48 G	17850157.29	17850157.45	17850157.62	0.0145	0.0113 *
Venus	44160-06-03 18:58 G	17850323.10	17850323.29	17850323.50	0.0144	0.0063
Moon	44160-12-24 21:36 G	17850527.17	17850527.40	17850527.65	0.0144	0.0036
Earth	44160-12-24 23:17 G	17850527.23	17850527.47	17850527.73	0.0144	0.0033 *
Venus	44161-01-16 06:43 G	17850549.63	17850549.78	17850549.96	0.0144	0.0095
Venus	44161-08-30 18:43 G	17850776.19	17850776.28	17850776.40	0.0144	0.0125
Earth	44161-12-30 00:58 G	17850897.30	17850897.54	17850897.78	0.0144	0.0054
Moon	44161-12-30 02:53 G	17850897.39	17850897.62	17850897.88	0.0144	0.0053 *
Earth	44163-01-04 01:41 G	17851267.53	17851267.57	17851267.65	0.0144	0.0140
Mars	44176-09-22 04:05 G	17856277.35	17856277.67	17856278.01	0.0139	0.0017
Mercury	44182-07-28 13:12 G	17858412.96	17858413.05	17858413.17	0.0137	0.0117
Mercury	44182-10-24 21:07 G	17858501.24	17858501.38	17858501.54	0.0137	0.0088
Mercury	44183-01-21 05:02 G	17858589.54	17858589.71	17858589.89	0.0137	0.0059
Mercury	44183-04-19 12:43 G	17858677.85	17858678.03	17858678.23	0.0136	0.0031
Mercury	44183-07-16 20:38 G	17858766.17	17858766.36	17858766.56	0.0136	0.0002
Mercury	44183-10-13 04:19 G	17858854.49	17858854.68	17858854.87	0.0136	0.0027
Mercury	44184-01-09 11:46 G	17858942.82	17858942.99	17858943.18	0.0136	0.0055
Mercury	44184-04-06 19:26 G	17859031.17	17859031.31	17859031.48	0.0136	0.0083
Mercury	44184-07-04 02:53 G	17859119.53	17859119.62	17859119.75	0.0136	0.0111
Venus	44198-03-24 06:14 G	17864130.74	17864130.76	17864130.80	0.0134	0.0132
Venus	44198-11-05 11:31 G	17864356.86	17864356.98	17864357.11	0.0134	0.0108
Venus	44199-06-19 16:48 G	17864583.04	17864583.20	17864583.37	0.0134	0.0084
Venus	44200-01-31 21:50 G	17864809.23	17864809.41	17864809.62	0.0134	0.0060
Venus	44200-09-15 03:22 G	17865035.44	17865035.64	17865035.86	0.0134	0.0035
Venus	44201-04-29 08:53 G	17865261.66	17865261.87	17865262.09	0.0134	0.0010
Venus	44201-12-11 14:10 G	17865487.88	17865488.09	17865488.31	0.0134	0.0015

Moon	44202-06-20 16:48 G	17865679.06	17865679.20	17865679.36	0.0134	0.0105
Earth	44202-06-20 19:55 G	17865679.21	17865679.33	17865679.48	0.0134	0.0112 *
Venus	44202-07-25 19:26 G	17865714.11	17865714.31	17865714.53	0.0134	0.0040
Venus	44203-03-09 01:12 G	17865940.36	17865940.55	17865940.74	0.0134	0.0064
Earth	44203-06-25 02:24 G	17866048.37	17866048.60	17866048.85	0.0134	0.0045
Moon	44203-06-25 05:31 G	17866048.50	17866048.73	17866048.97	0.0134	0.0051 *
Venus	44203-10-21 06:14 G	17866166.61	17866166.76	17866166.94	0.0134	0.0089
Venus	44204-06-03 11:46 G	17866392.89	17866392.99	17866393.12	0.0134	0.0114
Moon	44204-06-28 06:14 G	17866417.52	17866417.76	17866418.01	0.0134	0.0027
Earth	44204-06-28 09:36 G	17866417.65	17866417.90	17866418.15	0.0134	0.0023 *
Earth	44205-07-02 16:19 G	17866787.01	17866787.18	17866787.38	0.0134	0.0092
Moon	44205-07-02 20:10 G	17866787.14	17866787.34	17866787.53	0.0134	0.0089 *
Mars	44220-12-28 21:50 G	17872445.13	17872445.41	17872445.70	0.0139	0.0017
Mercury	44225-10-19 18:29 G	17874201.27	17874201.27	17874201.28	0.0141	0.0141
Mercury	44226-01-15 21:50 G	17874289.35	17874289.41	17874289.48	0.0141	0.0121
Mercury	44226-04-14 01:12 G	17874377.46	17874377.55	17874377.64	0.0141	0.0100
Mercury	44226-07-11 04:34 G	17874465.59	17874465.69	17874465.80	0.0142	0.0079
Mercury	44226-10-07 07:55 G	17874553.71	17874553.83	17874553.95	0.0142	0.0058
Mercury	44227-01-03 11:17 G	17874641.85	17874641.97	17874642.10	0.0142	0.0037
Mercury	44227-04-01 14:38 G	17874729.98	17874730.11	17874730.24	0.0142	0.0016
Mercury	44227-06-28 18:00 G	17874818.12	17874818.25	17874818.38	0.0142	0.0006
Mercury	44227-09-24 21:22 G	17874906.26	17874906.39	17874906.52	0.0142	0.0027
Mercury	44227-12-22 00:43 G	17874994.41	17874994.53	17874994.66	0.0142	0.0048
Mercury	44228-03-19 04:05 G	17875082.56	17875082.67	17875082.79	0.0142	0.0070
Mercury	44228-06-15 07:26 G	17875170.72	17875170.81	17875170.92	0.0142	0.0091
Mercury	44228-09-11 11:02 G	17875258.88	17875258.96	17875259.04	0.0142	0.0113
Mercury	44228-12-08 14:24 G	17875347.06	17875347.10	17875347.14	0.0142	0.0134
Venus	44240-05-15 00:58 G	17879522.49	17879522.54	17879522.62	0.0145	0.0138
Venus	44240-12-27 12:58 G	17879748.91	17879749.04	17879749.20	0.0145	0.0107
Venus	44241-08-11 01:12 G	17879975.37	17879975.55	17879975.74	0.0145	0.0075

Venus	44242-03-25 13:12 G	17880201.85	17880202.05	17880202.27	0.0145	0.0044
Venus	44242-11-07 01:26 G	17880428.34	17880428.56	17880428.78	0.0145	0.0012
Venus	44243-06-21 13:26 G	17880654.85	17880655.06	17880655.28	0.0145	0.0020
Earth	44243-12-22 07:55 G	17880838.69	17880838.83	17880838.99	0.0145	0.0115
Moon	44243-12-22 07:55 G	17880838.70	17880838.83	17880838.99	0.0145	0.0122 *
Venus	44244-02-03 01:26 G	17880881.36	17880881.56	17880881.77	0.0145	0.0051
Venus	44244-09-16 13:26 G	17881107.89	17881108.06	17881108.24	0.0144	0.0082
Moon	44244-12-26 08:53 G	17881208.63	17881208.87	17881209.11	0.0144	0.0026
Earth	44244-12-26 09:36 G	17881208.66	17881208.90	17881209.16	0.0144	0.0029 *
Venus	44245-05-01 01:12 G	17881334.43	17881334.55	17881334.70	0.0144	0.0114
Venus	44245-12-13 13:26 G	17881561.06	17881561.06	17881561.07	0.0144	0.0144
Earth	44245-12-31 10:48 G	17881578.73	17881578.95	17881579.20	0.0144	0.0059
Moon	44245-12-31 12:58 G	17881578.81	17881579.04	17881579.29	0.0144	0.0059 *
Moon	44247-01-05 09:50 G	17881948.87	17881948.91	17881949.00	0.0144	0.0139
Earth	44247-01-05 12:00 G	17881948.99	17881949.00	17881949.04	0.0144	0.0143 *
Mercury	44266-08-18 20:24 G	17889114.24	17889114.35	17889114.47	0.0137	0.0110
Mercury	44266-11-15 03:50 G	17889202.52	17889202.66	17889202.83	0.0137	0.0082
Mercury	44267-02-11 12:00 G	17889290.82	17889291.00	17889291.18	0.0136	0.0053
Mercury	44267-05-10 19:41 G	17889379.13	17889379.32	17889379.52	0.0136	0.0024
Mercury	44267-08-07 03:36 G	17889467.45	17889467.65	17889467.84	0.0136	0.0005
Mercury	44267-11-03 11:17 G	17889555.78	17889555.97	17889556.16	0.0136	0.0033
Mercury	44268-01-30 18:43 G	17889644.11	17889644.28	17889644.46	0.0136	0.0061
Mercury	44268-04-28 02:10 G	17889732.46	17889732.59	17889732.75	0.0136	0.0089
Mercury	44268-07-25 09:50 G	17889820.82	17889820.91	17889821.02	0.0136	0.0117
Venus	44282-07-06 20:53 G	17894915.29	17894915.37	17894915.49	0.0134	0.0118
Venus	44283-02-18 02:24 G	17895141.46	17895141.60	17895141.77	0.0134	0.0093
Venus	44283-10-02 07:41 G	17895367.65	17895367.82	17895368.02	0.0134	0.0069
Venus	44284-05-15 13:12 G	17895593.85	17895594.05	17895594.26	0.0134	0.0044
Venus	44284-12-27 18:29 G	17895820.06	17895820.27	17895820.49	0.0134	0.0020
Venus	44285-08-11 00:00 G	17896046.28	17896046.50	17896046.72	0.0134	0.0006

Venus	44286-03-25 05:17 G	17896272.52	17896272.72	17896272.94	0.0134	0.0031
Moon	44286-06-21 04:05 G	17896360.55	17896360.67	17896360.79	0.0134	0.0115
Earth	44286-06-21 05:46 G	17896360.62	17896360.74	17896360.91	0.0134	0.0109 *
Venus	44286-11-06 10:48 G	17896498.76	17896498.95	17896499.16	0.0134	0.0055
Venus	44287-06-20 16:05 G	17896725.01	17896725.17	17896725.36	0.0134	0.0080
Earth	44287-06-25 12:43 G	17896729.80	17896730.03	17896730.28	0.0134	0.0042
Moon	44287-06-25 15:50 G	17896729.92	17896730.16	17896730.42	0.0134	0.0035 *
Venus	44288-02-01 21:22 G	17896951.28	17896951.39	17896951.55	0.0134	0.0105
Moon	44288-06-28 17:17 G	17897098.99	17897099.22	17897099.47	0.0134	0.0021
Earth	44288-06-28 20:10 G	17897099.09	17897099.34	17897099.58	0.0134	0.0026 *
Venus	44288-09-15 03:07 G	17897177.59	17897177.63	17897177.70	0.0134	0.0129
Earth	44289-07-03 02:53 G	17897468.45	17897468.62	17897468.81	0.0134	0.0094
Moon	44289-07-03 05:31 G	17897468.58	17897468.73	17897468.94	0.0134	0.0097 *
Mercury	44309-11-10 01:55 G	17904902.55	17904902.58	17904902.62	0.0141	0.0135
Mercury	44310-02-06 05:17 G	17904990.65	17904990.72	17904990.80	0.0141	0.0115
Mercury	44310-05-05 08:38 G	17905078.77	17905078.86	17905078.96	0.0142	0.0094
Mercury	44310-08-01 12:00 G	17905166.89	17905167.00	17905167.11	0.0142	0.0073
Mercury	44310-10-28 15:22 G	17905255.02	17905255.14	17905255.26	0.0142	0.0052
Mercury	44311-01-24 18:43 G	17905343.15	17905343.28	17905343.41	0.0142	0.0031
Mercury	44311-04-22 22:05 G	17905431.29	17905431.42	17905431.55	0.0142	0.0010
Mercury	44311-07-20 01:26 G	17905519.43	17905519.56	17905519.69	0.0142	0.0012
Mercury	44311-10-16 04:48 G	17905607.58	17905607.70	17905607.83	0.0142	0.0033
Mercury	44312-01-12 08:10 G	17905695.72	17905695.84	17905695.97	0.0142	0.0055
Mercury	44312-04-09 11:31 G	17905783.88	17905783.98	17905784.10	0.0142	0.0076
Mercury	44312-07-06 15:07 G	17905872.03	17905872.13	17905872.22	0.0142	0.0097
Mercury	44312-10-02 18:14 G	17905960.20	17905960.26	17905960.34	0.0142	0.0120
Mercury	44312-12-29 21:50 G	17906048.40	17906048.41	17906048.43	0.0142	0.0141
Venus	44324-08-27 20:38 G	17910307.24	17910307.36	17910307.49	0.0145	0.0118
Venus	44325-04-11 08:38 G	17910533.70	17910533.86	17910534.05	0.0145	0.0087
Venus	44325-11-23 20:38 G	17910760.17	17910760.36	17910760.58	0.0145	0.0056

Venus	44326-07-08 08:53 G	17910986.66	17910986.87	17910987.09	0.0145	0.0024
Venus	44327-02-19 21:07 G	17911213.16	17911213.38	17911213.60	0.0145	0.0008
Venus	44327-10-04 09:07 G	17911439.68	17911439.88	17911440.10	0.0145	0.0040
Moon	44327-12-23 19:55 G	17911520.15	17911520.33	17911520.52	0.0145	0.0103
Earth	44327-12-23 19:55 G	17911520.18	17911520.33	17911520.51	0.0145	0.0110 *
Venus	44328-05-17 21:22 G	17911666.20	17911666.39	17911666.58	0.0144	0.0071
Moon	44328-12-27 21:50 G	17911890.17	17911890.41	17911890.65	0.0144	0.0027
Earth	44328-12-27 22:05 G	17911890.17	17911890.42	17911890.68	0.0144	0.0023 *
Venus	44328-12-30 08:53 G	17911892.73	17911892.87	17911893.04	0.0144	0.0103
Venus	44329-08-13 20:53 G	17912119.30	17912119.37	17912119.46	0.0144	0.0133
Earth	44330-01-01 23:31 G	17912260.26	17912260.48	17912260.72	0.0144	0.0063
Moon	44330-01-02 00:14 G	17912260.29	17912260.51	17912260.77	0.0144	0.0063 *
Mercury	44350-06-12 19:41 G	17919727.28	17919727.32	17919727.39	0.0137	0.0131
Mercury	44350-09-09 03:50 G	17919815.53	17919815.66	17919815.79	0.0137	0.0102
Mercury	44350-12-06 11:17 G	17919903.82	17919903.97	17919904.15	0.0137	0.0074
Mercury	44351-03-04 19:26 G	17919992.12	17919992.31	17919992.49	0.0136	0.0045
Mercury	44351-06-01 03:07 G	17920080.43	17920080.63	17920080.82	0.0136	0.0016
Mercury	44351-08-28 10:48 G	17920168.76	17920168.95	17920169.15	0.0136	0.0012
Mercury	44351-11-24 18:29 G	17920257.09	17920257.27	17920257.46	0.0136	0.0040
Mercury	44352-02-21 02:10 G	17920345.42	17920345.59	17920345.76	0.0136	0.0069
Mercury	44352-05-19 09:50 G	17920433.77	17920433.91	17920434.05	0.0136	0.0096
Mercury	44352-08-15 17:17 G	17920522.15	17920522.22	17920522.30	0.0136	0.0124
Venus	44366-03-07 06:43 G	17925473.73	17925473.78	17925473.86	0.0134	0.0127
Venus	44366-10-19 12:00 G	17925699.88	17925700.00	17925700.16	0.0134	0.0103
Venus	44367-06-02 17:31 G	17925926.06	17925926.23	17925926.41	0.0134	0.0078
Venus	44368-01-14 22:48 G	17926152.26	17926152.45	17926152.66	0.0134	0.0054
Venus	44368-08-28 04:19 G	17926378.47	17926378.68	17926378.89	0.0134	0.0029
Venus	44369-04-11 09:50 G	17926604.69	17926604.91	17926605.13	0.0134	0.0004
Venus	44369-11-23 15:07 G	17926830.92	17926831.13	17926831.35	0.0134	0.0021
Moon	44370-06-22 13:41 G	17927041.92	17927042.07	17927042.25	0.0134	0.0099

Earth	44370-06-22 16:19 G	17927042.03	17927042.18	17927042.34	0.0134	0.0105	*
Venus	44370-07-07 20:24 G	17927057.15	17927057.35	17927057.56	0.0134	0.0046	
Venus	44371-02-19 01:41 G	17927283.40	17927283.57	17927283.77	0.0134	0.0071	
Earth	44371-06-26 22:48 G	17927411.22	17927411.45	17927411.70	0.0134	0.0038	
Moon	44371-06-27 00:43 G	17927411.29	17927411.53	17927411.78	0.0134	0.0045	*
Venus	44371-10-03 07:26 G	17927509.66	17927509.81	17927509.97	0.0134	0.0095	
Venus	44372-05-16 12:58 G	17927735.96	17927736.04	17927736.15	0.0134	0.0120	
Moon	44372-06-30 03:22 G	17927780.41	17927780.64	17927780.89	0.0134	0.0035	
Earth	44372-06-30 05:46 G	17927780.50	17927780.74	17927780.99	0.0134	0.0030	*
Earth	44373-07-04 12:58 G	17928149.88	17928150.04	17928150.22	0.0134	0.0097	
Moon	44373-07-04 15:22 G	17928149.96	17928150.14	17928150.33	0.0134	0.0094	*
Mars	44388-05-18 18:43 G	17933582.07	17933582.28	17933582.51	0.0139	0.0089	
Mercury	44393-11-30 09:07 G	17935603.84	17935603.88	17935603.94	0.0141	0.0131	
Mercury	44394-02-26 12:29 G	17935691.95	17935692.02	17935692.11	0.0142	0.0110	
Mercury	44394-05-25 15:50 G	17935780.06	17935780.16	17935780.27	0.0142	0.0089	
Mercury	44394-08-21 19:12 G	17935868.19	17935868.30	17935868.42	0.0142	0.0068	
Mercury	44394-11-17 22:34 G	17935956.32	17935956.44	17935956.57	0.0142	0.0047	
Mercury	44395-02-14 01:55 G	17936044.46	17936044.58	17936044.71	0.0142	0.0026	
Mercury	44395-05-13 05:17 G	17936132.59	17936132.72	17936132.86	0.0142	0.0007	
Mercury	44395-08-09 08:38 G	17936220.74	17936220.86	17936221.00	0.0142	0.0018	
Mercury	44395-11-05 12:14 G	17936308.88	17936309.01	17936309.13	0.0142	0.0039	
Mercury	44396-02-01 15:22 G	17936397.03	17936397.14	17936397.27	0.0142	0.0061	
Mercury	44396-04-29 18:58 G	17936485.19	17936485.29	17936485.40	0.0142	0.0082	
Mercury	44396-07-26 22:19 G	17936573.35	17936573.43	17936573.52	0.0142	0.0103	
Mercury	44396-10-23 01:55 G	17936661.52	17936661.58	17936661.64	0.0143	0.0125	
Venus	44408-04-27 04:19 G	17940865.59	17940865.68	17940865.78	0.0145	0.0130	
Venus	44408-12-09 16:19 G	17941092.03	17941092.18	17941092.35	0.0145	0.0099	
Venus	44409-07-24 04:19 G	17941318.50	17941318.68	17941318.88	0.0145	0.0068	
Venus	44410-03-07 16:34 G	17941544.99	17941545.19	17941545.41	0.0145	0.0036	
Venus	44410-10-20 05:02 G	17941771.49	17941771.71	17941771.93	0.0145	0.0004	

Venus	44411-06-03 17:02 G	17941998.00	17941998.21	17941998.43	0.0145	0.0028
Moon	44411-12-24 07:41 G	17942201.67	17942201.82	17942202.01	0.0145	0.0111
Earth	44411-12-24 09:22 G	17942201.72	17942201.89	17942202.07	0.0145	0.0103 *
Venus	44412-01-16 05:02 G	17942224.52	17942224.71	17942224.92	0.0145	0.0060
Venus	44412-08-29 17:17 G	17942451.06	17942451.22	17942451.39	0.0144	0.0091
Earth	44412-12-28 11:31 G	17942571.73	17942571.98	17942572.23	0.0144	0.0017
Moon	44412-12-28 11:46 G	17942571.75	17942571.99	17942572.24	0.0144	0.0013 *
Venus	44413-04-13 05:02 G	17942677.61	17942677.71	17942677.84	0.0144	0.0123
Earth	44414-01-02 13:12 G	17942941.83	17942942.05	17942942.27	0.0144	0.0070
Moon	44414-01-02 13:41 G	17942941.84	17942942.07	17942942.31	0.0144	0.0070 *
Mars	44428-10-06 00:29 G	17948332.21	17948332.52	17948332.84	0.0139	0.0044
Mercury	44434-07-03 03:50 G	17950428.57	17950428.66	17950428.75	0.0137	0.0121
Mercury	44434-09-29 11:17 G	17950516.84	17950516.97	17950517.13	0.0137	0.0093
Mercury	44434-12-26 19:26 G	17950605.14	17950605.31	17950605.48	0.0136	0.0064
Mercury	44435-03-25 03:07 G	17950693.44	17950693.63	17950693.82	0.0136	0.0035
Mercury	44435-06-21 11:02 G	17950781.76	17950781.96	17950782.15	0.0136	0.0007
Mercury	44435-09-17 18:43 G	17950870.08	17950870.28	17950870.47	0.0136	0.0022
Mercury	44435-12-15 02:10 G	17950958.42	17950958.59	17950958.78	0.0136	0.0050
Mercury	44436-03-12 09:50 G	17951046.76	17951046.91	17951047.08	0.0136	0.0078
Mercury	44436-06-08 17:17 G	17951135.11	17951135.22	17951135.36	0.0136	0.0106
Mercury	44436-09-05 00:43 G	17951223.52	17951223.53	17951223.58	0.0136	0.0134
Venus	44450-06-18 22:19 G	17956258.33	17956258.43	17956258.57	0.0133	0.0112
Venus	44451-01-31 03:36 G	17956484.50	17956484.65	17956484.83	0.0133	0.0088
Venus	44451-09-14 09:07 G	17956710.70	17956710.88	17956711.08	0.0133	0.0063
Venus	44452-04-27 14:24 G	17956936.91	17956937.10	17956937.32	0.0133	0.0039
Venus	44452-12-09 19:55 G	17957163.12	17957163.33	17957163.55	0.0133	0.0014
Venus	44453-07-24 01:26 G	17957389.34	17957389.56	17957389.78	0.0134	0.0012
Venus	44454-03-07 06:43 G	17957615.58	17957615.78	17957616.00	0.0134	0.0037
Moon	44454-06-23 01:55 G	17957723.45	17957723.58	17957723.74	0.0134	0.0107
Earth	44454-06-23 02:53 G	17957723.47	17957723.62	17957723.80	0.0134	0.0101 *

Venus	44454-10-19 12:00 G	17957841.82	17957842.00	17957842.21	0.0134	0.0062
Venus	44455-06-02 17:46 G	17958068.08	17958068.24	17958068.41	0.0134	0.0086
Earth	44455-06-27 09:50 G	17958092.67	17958092.91	17958093.16	0.0134	0.0034
Moon	44455-06-27 11:46 G	17958092.73	17958092.99	17958093.25	0.0134	0.0027 *
Venus	44456-01-14 23:02 G	17958294.35	17958294.46	17958294.59	0.0134	0.0111
Moon	44456-06-30 15:36 G	17958461.91	17958462.15	17958462.39	0.0134	0.0027
Earth	44456-06-30 16:34 G	17958461.96	17958462.19	17958462.45	0.0134	0.0034 *
Earth	44457-07-04 23:31 G	17958831.33	17958831.48	17958831.66	0.0134	0.0102
Moon	44457-07-05 01:26 G	17958831.41	17958831.56	17958831.74	0.0134	0.0104 *
Mars	44473-01-11 05:46 G	17964500.51	17964500.74	17964501.02	0.0139	0.0062
Mercury	44477-12-20 16:19 G	17966305.13	17966305.18	17966305.24	0.0141	0.0126
Mercury	44478-03-18 19:41 G	17966393.24	17966393.32	17966393.41	0.0142	0.0105
Mercury	44478-06-14 23:02 G	17966481.36	17966481.46	17966481.57	0.0142	0.0084
Mercury	44478-09-11 02:24 G	17966569.49	17966569.60	17966569.72	0.0142	0.0063
Mercury	44478-12-08 05:46 G	17966657.62	17966657.74	17966657.87	0.0142	0.0042
Mercury	44479-03-06 09:07 G	17966745.75	17966745.88	17966746.01	0.0142	0.0021
Mercury	44479-06-02 12:29 G	17966833.89	17966834.02	17966834.15	0.0142	0.0003
Mercury	44479-08-29 15:50 G	17966922.03	17966922.16	17966922.29	0.0142	0.0022
Mercury	44479-11-25 19:12 G	17967010.18	17967010.30	17967010.43	0.0142	0.0044
Mercury	44480-02-21 22:34 G	17967098.33	17967098.44	17967098.56	0.0142	0.0065
Mercury	44480-05-20 02:10 G	17967186.49	17967186.59	17967186.69	0.0142	0.0086
Mercury	44480-08-16 05:31 G	17967274.65	17967274.73	17967274.82	0.0142	0.0108
Mercury	44480-11-12 09:07 G	17967362.83	17967362.88	17967362.93	0.0143	0.0130
Venus	44491-12-26 10:19 G	17971423.91	17971423.93	17971423.98	0.0145	0.0143
Venus	44492-08-08 22:34 G	17971650.31	17971650.44	17971650.59	0.0145	0.0112
Venus	44493-03-23 11:02 G	17971876.78	17971876.96	17971877.14	0.0145	0.0080
Venus	44493-11-04 23:02 G	17972103.27	17972103.46	17972103.68	0.0145	0.0049
Venus	44494-06-19 11:31 G	17972329.76	17972329.98	17972330.20	0.0145	0.0017
Venus	44495-01-31 23:31 G	17972556.27	17972556.48	17972556.71	0.0145	0.0016
Venus	44495-09-15 12:00 G	17972782.79	17972783.00	17972783.21	0.0145	0.0047

Moon	44495-12-24 18:14 G	17972883.07	17972883.26	17972883.48	0.0145	0.0092
Earth	44495-12-24 19:55 G	17972883.16	17972883.33	17972883.53	0.0145	0.0099 *
Venus	44496-04-29 00:00 G	17973009.33	17973009.50	17973009.69	0.0145	0.0079
Venus	44496-12-11 12:00 G	17973235.87	17973236.00	17973236.15	0.0144	0.0110
Earth	44496-12-28 22:34 G	17973253.18	17973253.44	17973253.69	0.0144	0.0012
Moon	44496-12-28 23:17 G	17973253.23	17973253.47	17973253.73	0.0144	0.0018 *
Venus	44497-07-26 00:00 G	17973462.47	17973462.50	17973462.56	0.0144	0.0141
Moon	44498-01-03 00:00 G	17973623.27	17973623.50	17973623.72	0.0144	0.0076
Earth	44498-01-03 00:14 G	17973623.30	17973623.51	17973623.74	0.0144	0.0075 *
Mercury	44518-07-24 11:31 G	17981129.88	17981129.98	17981130.10	0.0137	0.0112
Mercury	44518-10-20 19:26 G	17981218.16	17981218.31	17981218.47	0.0137	0.0083
Mercury	44519-01-17 03:07 G	17981306.46	17981306.63	17981306.82	0.0136	0.0055
Mercury	44519-04-15 11:02 G	17981394.77	17981394.96	17981395.15	0.0136	0.0026
Mercury	44519-07-12 18:43 G	17981483.09	17981483.28	17981483.48	0.0136	0.0003
Mercury	44519-10-09 02:24 G	17981571.41	17981571.60	17981571.79	0.0136	0.0031
Mercury	44520-01-05 10:05 G	17981659.75	17981659.92	17981660.10	0.0136	0.0059
Mercury	44520-04-02 17:31 G	17981748.09	17981748.23	17981748.39	0.0136	0.0087
Mercury	44520-06-30 01:12 G	17981836.46	17981836.55	17981836.66	0.0136	0.0115
Venus	44534-02-17 08:38 G	17986816.78	17986816.86	17986816.97	0.0133	0.0120
Venus	44534-10-01 13:55 G	17987042.95	17987043.08	17987043.25	0.0133	0.0096
Venus	44535-05-15 19:26 G	17987269.13	17987269.31	17987269.50	0.0133	0.0072
Venus	44535-12-28 00:29 G	17987495.33	17987495.52	17987495.74	0.0133	0.0048
Venus	44536-08-10 06:00 G	17987721.54	17987721.75	17987721.97	0.0133	0.0023
Venus	44537-03-24 11:31 G	17987947.76	17987947.98	17987948.20	0.0133	0.0002
Venus	44537-11-05 16:48 G	17988173.99	17988174.20	17988174.42	0.0133	0.0027
Venus	44538-06-19 22:19 G	17988400.23	17988400.43	17988400.63	0.0133	0.0052
Moon	44538-06-24 12:43 G	17988404.85	17988405.03	17988405.21	0.0133	0.0091
Earth	44538-06-24 13:12 G	17988404.90	17988405.05	17988405.24	0.0133	0.0098 *
Venus	44539-02-01 03:22 G	17988626.47	17988626.64	17988626.83	0.0134	0.0077
Earth	44539-06-28 19:55 G	17988774.10	17988774.33	17988774.59	0.0134	0.0031

Moon	44539-06-28 20:38 G	17988774.11	17988774.36	17988774.62	0.0134	0.0037 *
Venus	44539-09-15 09:07 G	17988852.74	17988852.88	17988853.02	0.0134	0.0101
Venus	44540-04-28 14:24 G	17989079.04	17989079.10	17989079.18	0.0134	0.0126
Moon	44540-07-02 01:26 G	17989143.34	17989143.56	17989143.80	0.0134	0.0043
Earth	44540-07-02 02:38 G	17989143.37	17989143.61	17989143.86	0.0134	0.0037 *
Earth	44541-07-06 09:36 G	17989512.75	17989512.90	17989513.06	0.0134	0.0104
Moon	44541-07-06 10:34 G	17989512.77	17989512.94	17989513.12	0.0134	0.0099 *
Mercury	44562-01-10 23:02 G	17997006.41	17997006.46	17997006.53	0.0141	0.0124
Mercury	44562-04-09 02:24 G	17997094.52	17997094.60	17997094.70	0.0142	0.0103
Mercury	44562-07-06 05:46 G	17997182.64	17997182.74	17997182.85	0.0142	0.0082
Mercury	44562-10-02 09:07 G	17997270.77	17997270.88	17997271.00	0.0142	0.0061
Mercury	44562-12-29 12:29 G	17997358.90	17997359.02	17997359.15	0.0142	0.0040
Mercury	44563-03-27 15:50 G	17997447.04	17997447.16	17997447.29	0.0142	0.0019
Mercury	44563-06-23 19:12 G	17997535.17	17997535.30	17997535.44	0.0142	0.0006
Mercury	44563-09-19 22:34 G	17997623.32	17997623.44	17997623.57	0.0142	0.0025
Mercury	44563-12-17 01:55 G	17997711.46	17997711.58	17997711.71	0.0142	0.0047
Mercury	44564-03-14 05:31 G	17997799.62	17997799.73	17997799.84	0.0142	0.0067
Mercury	44564-06-10 08:53 G	17997887.77	17997887.87	17997887.97	0.0142	0.0089
Mercury	44564-09-06 12:14 G	17997975.94	17997976.01	17997976.10	0.0142	0.0111
Mercury	44564-12-03 15:36 G	17998064.12	17998064.15	17998064.21	0.0143	0.0133
Venus	44576-04-09 03:22 G	18002208.55	18002208.64	18002208.76	0.0145	0.0125
Venus	44576-11-21 15:36 G	18002435.00	18002435.15	18002435.33	0.0145	0.0094
Venus	44577-07-06 04:05 G	18002661.48	18002661.67	18002661.87	0.0145	0.0062
Venus	44578-02-17 16:19 G	18002887.97	18002888.18	18002888.40	0.0145	0.0030
Venus	44578-10-02 04:48 G	18003114.49	18003114.70	18003114.92	0.0145	0.0003
Venus	44579-05-16 17:02 G	18003341.00	18003341.21	18003341.43	0.0145	0.0034
Moon	44579-12-26 01:55 G	18003564.41	18003564.58	18003564.78	0.0145	0.0104
Earth	44579-12-26 04:34 G	18003564.51	18003564.69	18003564.89	0.0145	0.0096 *
Venus	44579-12-29 05:17 G	18003567.53	18003567.72	18003567.92	0.0145	0.0066
Venus	44580-08-11 17:31 G	18003794.07	18003794.23	18003794.39	0.0145	0.0097

Earth	44580-12-30 07:12 G	18003934.55	18003934.80	18003935.06	0.0145	0.0009
Moon	44580-12-30 08:53 G	18003934.63	18003934.87	18003935.12	0.0145	0.0005 *
Venus	44581-03-26 05:17 G	18004020.64	18004020.72	18004020.84	0.0144	0.0129
Moon	44582-01-04 07:55 G	18004304.62	18004304.83	18004305.07	0.0144	0.0076
Earth	44582-01-04 08:53 G	18004304.67	18004304.87	18004305.10	0.0144	0.0077 *
Mars	44596-02-22 20:38 G	18009467.09	18009467.36	18009467.65	0.0139	0.0076
Mercury	44602-05-18 11:02 G	18011742.93	18011742.96	18011743.02	0.0137	0.0133
Mercury	44602-08-14 18:58 G	18011831.18	18011831.29	18011831.43	0.0137	0.0104
Mercury	44602-11-11 02:53 G	18011919.46	18011919.62	18011919.79	0.0137	0.0075
Mercury	44603-02-07 10:34 G	18012007.77	18012007.94	18012008.14	0.0136	0.0047
Mercury	44603-05-06 18:29 G	18012096.08	18012096.27	18012096.47	0.0136	0.0018
Mercury	44603-08-03 02:10 G	18012184.40	18012184.59	18012184.79	0.0136	0.0012
Mercury	44603-10-30 09:50 G	18012272.73	18012272.91	18012273.11	0.0136	0.0040
Mercury	44604-01-26 17:46 G	18012361.07	18012361.24	18012361.41	0.0136	0.0067
Mercury	44604-04-24 01:26 G	18012449.42	18012449.56	18012449.70	0.0136	0.0095
Mercury	44604-07-21 08:53 G	18012537.80	18012537.87	18012537.95	0.0136	0.0123
Venus	44617-10-18 19:26 G	18017375.27	18017375.31	18017375.38	0.0133	0.0129
Venus	44618-06-02 00:43 G	18017601.41	18017601.53	18017601.68	0.0133	0.0105
Venus	44619-01-14 06:00 G	18017827.59	18017827.75	18017827.94	0.0133	0.0080
Venus	44619-08-28 11:31 G	18018053.78	18018053.98	18018054.18	0.0133	0.0055
Venus	44620-04-10 16:48 G	18018280.00	18018280.20	18018280.42	0.0133	0.0031
Venus	44620-11-22 22:19 G	18018506.21	18018506.43	18018506.65	0.0133	0.0006
Venus	44621-07-07 03:36 G	18018732.43	18018732.65	18018732.86	0.0133	0.0019
Venus	44622-02-18 08:38 G	18018958.67	18018958.86	18018959.08	0.0133	0.0044
Earth	44622-06-26 01:12 G	18019086.37	18019086.55	18019086.73	0.0133	0.0093
Moon	44622-06-26 00:58 G	18019086.40	18019086.54	18019086.73	0.0133	0.0099 *
Venus	44622-10-02 14:10 G	18019184.91	18019185.09	18019185.28	0.0133	0.0068
Venus	44623-05-16 19:26 G	18019411.17	18019411.31	18019411.48	0.0134	0.0093
Earth	44623-06-30 07:26 G	18019455.57	18019455.81	18019456.06	0.0134	0.0026
Moon	44623-06-30 07:55 G	18019455.57	18019455.83	18019456.09	0.0134	0.0019 *

Venus	44623-12-29 00:58 G	18019637.45	18019637.54	18019637.65	0.0134	0.0117
Moon	44624-07-03 13:55 G	18019824.85	18019825.08	18019825.32	0.0134	0.0034
Earth	44624-07-03 13:55 G	18019824.85	18019825.08	18019825.33	0.0134	0.0041 *
Earth	44625-07-07 20:38 G	18020194.22	18020194.36	18020194.51	0.0134	0.0108
Moon	44625-07-07 20:38 G	18020194.24	18020194.36	18020194.52	0.0134	0.0113 *
Mars	44640-06-01 19:12 G	18025637.05	18025637.30	18025637.58	0.0139	0.0053
Mercury	44645-11-05 02:53 G	18027619.61	18027619.62	18027619.63	0.0141	0.0141
Mercury	44646-02-01 06:14 G	18027707.69	18027707.76	18027707.83	0.0141	0.0120
Mercury	44646-04-30 09:36 G	18027795.81	18027795.90	18027795.99	0.0141	0.0099
Mercury	44646-07-27 12:58 G	18027883.93	18027884.04	18027884.15	0.0142	0.0078
Mercury	44646-10-23 16:19 G	18027972.06	18027972.18	18027972.30	0.0142	0.0057
Mercury	44647-01-19 19:41 G	18028060.19	18028060.32	18028060.44	0.0142	0.0036
Mercury	44647-04-17 23:02 G	18028148.33	18028148.46	18028148.59	0.0142	0.0015
Mercury	44647-07-15 02:24 G	18028236.47	18028236.60	18028236.73	0.0142	0.0007
Mercury	44647-10-11 05:46 G	18028324.61	18028324.74	18028324.87	0.0142	0.0028
Mercury	44648-01-07 09:07 G	18028412.76	18028412.88	18028413.00	0.0142	0.0050
Mercury	44648-04-04 12:29 G	18028500.91	18028501.02	18028501.14	0.0142	0.0071
Mercury	44648-07-01 15:50 G	18028589.07	18028589.16	18028589.26	0.0142	0.0093
Mercury	44648-09-27 19:12 G	18028677.23	18028677.30	18028677.38	0.0142	0.0115
Mercury	44648-12-24 22:34 G	18028765.42	18028765.44	18028765.49	0.0143	0.0137
Venus	44659-12-09 07:26 G	18032766.77	18032766.81	18032766.89	0.0145	0.0139
Venus	44660-07-22 20:10 G	18032993.20	18032993.34	18032993.49	0.0145	0.0107
Venus	44661-03-06 08:10 G	18033219.67	18033219.84	18033220.04	0.0145	0.0076
Venus	44661-10-18 20:53 G	18033446.16	18033446.37	18033446.58	0.0145	0.0044
Venus	44662-06-02 09:07 G	18033672.67	18033672.88	18033673.10	0.0145	0.0013
Venus	44663-01-14 21:36 G	18033899.18	18033899.40	18033899.61	0.0145	0.0020
Venus	44663-08-29 09:36 G	18034125.71	18034125.90	18034126.11	0.0145	0.0052
Moon	44663-12-27 08:53 G	18034245.68	18034245.87	18034246.09	0.0145	0.0088
Earth	44663-12-27 11:46 G	18034245.81	18034245.99	18034246.20	0.0145	0.0095 *
Venus	44664-04-11 21:50 G	18034352.24	18034352.41	18034352.60	0.0145	0.0084

Venus	44664-11-24 10:19 G	18034578.80	18034578.93	18034579.06	0.0145	0.0115
Earth	44664-12-31 14:24 G	18034615.85	18034616.10	18034616.36	0.0145	0.0008
Moon	44664-12-31 16:48 G	18034615.95	18034616.20	18034616.45	0.0145	0.0014 *
Moon	44666-01-05 14:10 G	18034985.88	18034986.09	18034986.32	0.0144	0.0082
Earth	44666-01-05 16:19 G	18034985.98	18034986.18	18034986.40	0.0144	0.0079 *
Mars	44680-10-19 15:36 G	18040386.96	18040387.15	18040387.40	0.0139	0.0103
Mercury	44686-06-07 18:14 G	18042444.19	18042444.26	18042444.34	0.0137	0.0126
Mercury	44686-09-04 01:41 G	18042532.45	18042532.57	18042532.73	0.0137	0.0098
Mercury	44686-12-01 09:50 G	18042620.75	18042620.91	18042621.08	0.0137	0.0069
Mercury	44687-02-27 17:46 G	18042709.05	18042709.24	18042709.43	0.0136	0.0040
Mercury	44687-05-27 01:26 G	18042797.37	18042797.56	18042797.76	0.0136	0.0011
Mercury	44687-08-23 09:22 G	18042885.69	18042885.89	18042886.08	0.0136	0.0018
Mercury	44687-11-19 16:48 G	18042974.02	18042974.20	18042974.39	0.0136	0.0046
Mercury	44688-02-16 00:29 G	18043062.37	18043062.52	18043062.69	0.0136	0.0074
Mercury	44688-05-14 08:10 G	18043150.72	18043150.84	18043150.98	0.0136	0.0102
Mercury	44688-08-10 15:50 G	18043239.11	18043239.16	18043239.22	0.0136	0.0130
Venus	44702-01-31 10:48 G	18048159.86	18048159.95	18048160.08	0.0133	0.0113
Venus	44702-09-14 16:34 G	18048386.03	18048386.19	18048386.35	0.0133	0.0089
Venus	44703-04-28 21:36 G	18048612.23	18048612.40	18048612.61	0.0133	0.0065
Venus	44703-12-11 03:07 G	18048838.43	18048838.63	18048838.84	0.0133	0.0040
Venus	44704-07-24 08:24 G	18049064.64	18049064.85	18049065.07	0.0133	0.0015
Venus	44705-03-07 13:55 G	18049290.86	18049291.08	18049291.30	0.0133	0.0010
Venus	44705-10-19 19:12 G	18049517.09	18049517.30	18049517.51	0.0133	0.0035
Venus	44706-06-03 00:14 G	18049743.33	18049743.51	18049743.72	0.0133	0.0060
Earth	44706-06-27 11:46 G	18049767.82	18049767.99	18049768.19	0.0133	0.0090
Moon	44706-06-27 12:00 G	18049767.83	18049768.00	18049768.21	0.0133	0.0085 *
Venus	44707-01-15 05:46 G	18049969.58	18049969.74	18049969.91	0.0134	0.0084
Moon	44707-07-01 17:17 G	18050136.97	18050137.22	18050137.48	0.0134	0.0029
Earth	44707-07-01 18:14 G	18050137.01	18050137.26	18050137.51	0.0134	0.0023 *
Venus	44707-08-29 10:48 G	18050195.84	18050195.95	18050196.09	0.0134	0.0109

Venus	44708-04-11 16:19 G	18050422.17	18050422.18	18050422.22	0.0134	0.0133
Earth	44708-07-05 00:14 G	18050506.29	18050506.51	18050506.76	0.0134	0.0045
Moon	44708-07-05 00:43 G	18050506.31	18050506.53	18050506.76	0.0134	0.0051 *
Moon	44709-07-09 06:14 G	18050875.63	18050875.76	18050875.95	0.0134	0.0106
Earth	44709-07-09 06:58 G	18050875.67	18050875.79	18050875.94	0.0134	0.0112 *
Mars	44725-01-26 06:58 G	18056555.60	18056555.79	18056556.00	0.0139	0.0098
Mercury	44729-11-26 09:50 G	18058320.89	18058320.91	18058320.95	0.0141	0.0136
Mercury	44730-02-22 13:12 G	18058408.99	18058409.05	18058409.13	0.0141	0.0116
Mercury	44730-05-21 16:34 G	18058497.10	18058497.19	18058497.29	0.0141	0.0095
Mercury	44730-08-17 19:55 G	18058585.23	18058585.33	18058585.45	0.0142	0.0074
Mercury	44730-11-13 23:17 G	18058673.36	18058673.47	18058673.60	0.0142	0.0053
Mercury	44731-02-10 02:38 G	18058761.49	18058761.61	18058761.74	0.0142	0.0032
Mercury	44731-05-09 06:14 G	18058849.63	18058849.76	18058849.89	0.0142	0.0011
Mercury	44731-08-05 09:36 G	18058937.77	18058937.90	18058938.03	0.0142	0.0012
Mercury	44731-11-01 12:58 G	18059025.91	18059026.04	18059026.17	0.0142	0.0033
Mercury	44732-01-28 16:19 G	18059114.06	18059114.18	18059114.30	0.0142	0.0054
Mercury	44732-04-25 19:41 G	18059202.21	18059202.32	18059202.43	0.0142	0.0076
Mercury	44732-07-22 23:02 G	18059290.37	18059290.46	18059290.56	0.0142	0.0098
Mercury	44732-10-19 02:24 G	18059378.54	18059378.60	18059378.68	0.0142	0.0119
Mercury	44733-01-15 06:00 G	18059466.74	18059466.75	18059466.77	0.0142	0.0141
Venus	44744-03-23 01:26 G	18063551.45	18063551.56	18063551.69	0.0145	0.0120
Venus	44744-11-04 13:41 G	18063777.91	18063778.07	18063778.25	0.0145	0.0089
Venus	44745-06-19 02:10 G	18064004.39	18064004.59	18064004.79	0.0145	0.0057
Venus	44746-01-31 14:24 G	18064230.89	18064231.10	18064231.32	0.0145	0.0025
Venus	44746-09-15 02:53 G	18064457.40	18064457.62	18064457.84	0.0145	0.0007
Venus	44747-04-29 15:07 G	18064683.93	18064684.13	18064684.35	0.0145	0.0039
Venus	44747-12-12 03:22 G	18064910.46	18064910.64	18064910.84	0.0145	0.0071
Moon	44747-12-28 17:17 G	18064927.04	18064927.22	18064927.41	0.0145	0.0100
Earth	44747-12-28 20:53 G	18064927.18	18064927.37	18064927.57	0.0145	0.0092 *
Venus	44748-07-25 15:22 G	18065137.00	18065137.14	18065137.31	0.0145	0.0103

Earth	44749-01-01 23:17 G	18065297.21	18065297.47	18065297.73	0.0145	0.0006
Moon	44749-01-02 02:10 G	18065297.34	18065297.59	18065297.84	0.0145	0.0002 *
Venus	44749-03-09 03:22 G	18065363.58	18065363.64	18065363.74	0.0145	0.0134
Moon	44750-01-06 22:19 G	18065667.23	18065667.43	18065667.67	0.0144	0.0078
Earth	44750-01-07 01:12 G	18065667.34	18065667.55	18065667.76	0.0144	0.0081 *
Mercury	44770-06-29 01:12 G	18073145.46	18073145.55	18073145.65	0.0137	0.0119
Mercury	44770-09-25 08:53 G	18073233.74	18073233.87	18073234.03	0.0137	0.0091
Mercury	44770-12-22 16:48 G	18073322.04	18073322.20	18073322.39	0.0137	0.0062
Mercury	44771-03-21 00:43 G	18073410.35	18073410.53	18073410.73	0.0136	0.0033
Mercury	44771-06-17 08:38 G	18073498.67	18073498.86	18073499.06	0.0136	0.0004
Mercury	44771-09-13 16:19 G	18073586.99	18073587.18	18073587.38	0.0136	0.0025
Mercury	44771-12-11 00:00 G	18073675.33	18073675.50	18073675.69	0.0136	0.0053
Mercury	44772-03-08 07:41 G	18073763.67	18073763.82	18073763.98	0.0136	0.0081
Mercury	44772-06-04 15:36 G	18073852.03	18073852.15	18073852.26	0.0136	0.0109
Venus	44785-09-30 21:50 G	18078718.33	18078718.41	18078718.51	0.0133	0.0121
Venus	44786-05-15 03:07 G	18078944.50	18078944.63	18078944.79	0.0133	0.0097
Venus	44786-12-27 08:38 G	18079170.68	18079170.86	18079171.05	0.0133	0.0073
Venus	44787-08-10 13:41 G	18079396.88	18079397.07	18079397.29	0.0133	0.0049
Venus	44788-03-23 19:26 G	18079623.10	18079623.31	18079623.53	0.0133	0.0023
Venus	44788-11-05 00:43 G	18079849.32	18079849.53	18079849.75	0.0133	0.0003
Venus	44789-06-19 06:00 G	18080075.54	18080075.75	18080075.97	0.0133	0.0026
Venus	44790-01-31 11:02 G	18080301.77	18080301.96	18080302.17	0.0134	0.0052
Earth	44790-06-27 23:31 G	18080449.30	18080449.48	18080449.69	0.0134	0.0085
Moon	44790-06-28 01:12 G	18080449.38	18080449.55	18080449.74	0.0134	0.0090 *
Venus	44790-09-14 16:34 G	18080528.02	18080528.19	18080528.37	0.0134	0.0076
Venus	44791-04-28 21:36 G	18080754.28	18080754.40	18080754.57	0.0134	0.0101
Moon	44791-07-02 04:48 G	18080818.45	18080818.70	18080818.97	0.0134	0.0013
Earth	44791-07-02 06:00 G	18080818.50	18080818.75	18080819.00	0.0134	0.0019 *
Venus	44791-12-11 03:07 G	18080980.57	18080980.63	18080980.72	0.0134	0.0125
Earth	44792-07-05 12:00 G	18081187.78	18081188.00	18081188.25	0.0134	0.0049

Moon	44792-07-05 13:26 G	18081187.84	18081188.06	18081188.30	0.0134	0.0042	*
Moon	44793-07-09 17:46 G	18081557.14	18081557.24	18081557.36	0.0134	0.0121	
Earth	44793-07-09 18:29 G	18081557.17	18081557.27	18081557.42	0.0134	0.0116	*
Mercury	44813-12-16 17:31 G	18089022.19	18089022.23	18089022.29	0.0141	0.0129	
Mercury	44814-03-14 20:53 G	18089110.30	18089110.37	18089110.46	0.0141	0.0108	
Mercury	44814-06-11 00:14 G	18089198.42	18089198.51	18089198.62	0.0141	0.0087	
Mercury	44814-09-07 03:36 G	18089286.54	18089286.65	18089286.77	0.0142	0.0066	
Mercury	44814-12-04 06:58 G	18089374.67	18089374.79	18089374.92	0.0142	0.0046	
Mercury	44815-03-02 10:34 G	18089462.81	18089462.94	18089463.06	0.0142	0.0024	
Mercury	44815-05-29 13:55 G	18089550.95	18089551.08	18089551.21	0.0142	0.0004	
Mercury	44815-08-25 17:17 G	18089639.09	18089639.22	18089639.35	0.0142	0.0019	
Mercury	44815-11-21 20:38 G	18089727.23	18089727.36	18089727.48	0.0142	0.0040	
Mercury	44816-02-18 00:00 G	18089815.38	18089815.50	18089815.62	0.0142	0.0062	
Mercury	44816-05-16 03:22 G	18089903.54	18089903.64	18089903.75	0.0142	0.0083	
Mercury	44816-08-12 06:43 G	18089991.70	18089991.78	18089991.87	0.0142	0.0105	
Mercury	44816-11-08 10:19 G	18090079.87	18090079.93	18090079.99	0.0142	0.0127	
Venus	44827-11-21 08:53 G	18094109.80	18094109.87	18094109.98	0.0145	0.0132	
Venus	44828-07-04 21:22 G	18094336.24	18094336.39	18094336.56	0.0145	0.0100	
Venus	44829-02-16 09:36 G	18094562.72	18094562.90	18094563.10	0.0145	0.0069	
Venus	44829-09-30 22:05 G	18094789.22	18094789.42	18094789.64	0.0145	0.0037	
Venus	44830-05-15 10:34 G	18095015.73	18095015.94	18095016.16	0.0145	0.0005	
Venus	44830-12-27 22:48 G	18095242.24	18095242.45	18095242.67	0.0145	0.0027	
Venus	44831-08-11 11:02 G	18095468.76	18095468.96	18095469.16	0.0145	0.0059	
Moon	44831-12-29 05:31 G	18095608.53	18095608.73	18095608.96	0.0145	0.0081	
Earth	44831-12-29 09:07 G	18095608.68	18095608.88	18095609.09	0.0145	0.0087	*
Venus	44832-03-24 23:02 G	18095695.30	18095695.46	18095695.64	0.0145	0.0091	
Venus	44832-11-06 11:02 G	18095921.86	18095921.96	18095922.09	0.0145	0.0123	
Earth	44833-01-02 11:17 G	18095978.72	18095978.97	18095979.23	0.0145	0.0002	
Moon	44833-01-02 14:38 G	18095978.86	18095979.11	18095979.36	0.0145	0.0008	*
Moon	44834-01-07 10:05 G	18096348.72	18096348.92	18096349.12	0.0144	0.0091	

Earth	44834-01-07 12:58 G	18096348.85	18096349.04	18096349.26	0.0144	0.0086	*
Mars	44848-03-07 08:38 G	18101521.53	18101521.86	18101522.19	0.0139	0.0025	
Mercury	44854-07-19 08:38 G	18103846.76	18103846.86	18103846.99	0.0137	0.0111	
Mercury	44854-10-15 16:34 G	18103935.05	18103935.19	18103935.36	0.0137	0.0082	
Mercury	44855-01-12 00:29 G	18104023.35	18104023.52	18104023.71	0.0137	0.0053	
Mercury	44855-04-10 08:24 G	18104111.66	18104111.85	18104112.05	0.0136	0.0024	
Mercury	44855-07-07 16:19 G	18104199.98	18104200.18	18104200.38	0.0136	0.0005	
Mercury	44855-10-04 00:00 G	18104288.31	18104288.50	18104288.69	0.0136	0.0034	
Mercury	44855-12-31 07:41 G	18104376.65	18104376.82	18104377.00	0.0136	0.0062	
Mercury	44856-03-28 15:22 G	18104465.00	18104465.14	18104465.29	0.0136	0.0090	
Mercury	44856-06-24 23:02 G	18104553.37	18104553.46	18104553.56	0.0136	0.0118	
Venus	44869-05-31 08:24 G	18109276.83	18109276.85	18109276.92	0.0133	0.0131	
Venus	44870-01-12 14:10 G	18109502.97	18109503.09	18109503.23	0.0133	0.0106	
Venus	44870-08-26 19:26 G	18109729.15	18109729.31	18109729.49	0.0133	0.0081	
Venus	44871-04-10 00:58 G	18109955.35	18109955.54	18109955.74	0.0133	0.0057	
Venus	44871-11-22 06:14 G	18110181.56	18110181.76	18110181.98	0.0133	0.0032	
Venus	44872-07-05 11:46 G	18110407.77	18110407.99	18110408.20	0.0133	0.0007	
Venus	44873-02-16 17:02 G	18110633.99	18110634.21	18110634.42	0.0133	0.0018	
Venus	44873-09-30 22:05 G	18110860.22	18110860.42	18110860.63	0.0133	0.0043	
Venus	44874-05-15 03:22 G	18111086.46	18111086.64	18111086.84	0.0134	0.0067	
Earth	44874-06-28 11:17 G	18111130.78	18111130.97	18111131.18	0.0134	0.0081	
Moon	44874-06-28 13:12 G	18111130.85	18111131.05	18111131.25	0.0134	0.0076	*
Venus	44874-12-27 08:38 G	18111312.71	18111312.86	18111313.03	0.0134	0.0092	
Moon	44875-07-02 15:22 G	18111499.89	18111500.14	18111500.40	0.0134	0.0020	
Earth	44875-07-02 17:46 G	18111499.99	18111500.24	18111500.49	0.0134	0.0014	*
Venus	44875-08-10 14:10 G	18111538.99	18111539.09	18111539.20	0.0134	0.0116	
Earth	44876-07-05 23:46 G	18111869.27	18111869.49	18111869.73	0.0134	0.0053	
Moon	44876-07-06 01:12 G	18111869.35	18111869.55	18111869.78	0.0134	0.0060	*
Moon	44877-07-10 04:34 G	18112238.57	18112238.69	18112238.84	0.0134	0.0113	
Earth	44877-07-10 06:29 G	18112238.67	18112238.77	18112238.89	0.0134	0.0120	*

Mars	44892-06-15 09:07 G	18117692.59	18117692.88	18117693.17	0.0139	0.0003
Mercury	44898-01-06 01:12 G	18119723.49	18119723.55	18119723.62	0.0141	0.0122
Mercury	44898-04-04 04:34 G	18119811.60	18119811.69	18119811.78	0.0141	0.0102
Mercury	44898-07-01 07:55 G	18119899.73	18119899.83	18119899.94	0.0142	0.0081
Mercury	44898-09-27 11:17 G	18119987.85	18119987.97	18119988.09	0.0142	0.0059
Mercury	44898-12-24 14:38 G	18120075.99	18120076.11	18120076.24	0.0142	0.0038
Mercury	44899-03-22 18:00 G	18120164.12	18120164.25	18120164.38	0.0142	0.0017
Mercury	44899-06-18 21:22 G	18120252.26	18120252.39	18120252.52	0.0142	0.0005
Mercury	44899-09-15 00:43 G	18120340.40	18120340.53	18120340.66	0.0142	0.0026
Mercury	44899-12-12 04:05 G	18120428.55	18120428.67	18120428.80	0.0142	0.0047
Mercury	44900-03-10 07:26 G	18120516.70	18120516.81	18120516.93	0.0142	0.0069
Mercury	44900-06-06 10:48 G	18120604.86	18120604.95	18120605.06	0.0142	0.0091
Mercury	44900-09-02 14:10 G	18120693.02	18120693.09	18120693.18	0.0142	0.0113
Mercury	44900-11-29 17:46 G	18120781.20	18120781.24	18120781.29	0.0142	0.0134
Venus	44911-07-22 17:17 G	18124668.20	18124668.22	18124668.26	0.0145	0.0143
Venus	44912-03-05 05:31 G	18124894.61	18124894.73	18124894.88	0.0145	0.0112
Venus	44912-10-17 18:14 G	18125121.08	18125121.26	18125121.45	0.0145	0.0080
Venus	44913-06-01 06:29 G	18125347.57	18125347.77	18125347.98	0.0145	0.0048
Venus	44914-01-13 18:58 G	18125574.07	18125574.29	18125574.51	0.0145	0.0016
Venus	44914-08-28 07:12 G	18125800.59	18125800.80	18125801.02	0.0145	0.0016
Venus	44915-04-11 19:26 G	18126027.11	18126027.31	18126027.52	0.0145	0.0048
Venus	44915-11-24 07:41 G	18126253.64	18126253.82	18126254.01	0.0145	0.0080
Moon	44915-12-30 18:58 G	18126290.10	18126290.29	18126290.51	0.0145	0.0088
Earth	44915-12-30 23:02 G	18126290.25	18126290.46	18126290.68	0.0145	0.0080 *
Venus	44916-07-07 19:26 G	18126480.19	18126480.31	18126480.47	0.0145	0.0112
Earth	44917-01-04 01:26 G	18126660.30	18126660.56	18126660.81	0.0145	0.0007
Moon	44917-01-04 04:48 G	18126660.45	18126660.70	18126660.95	0.0145	0.0014 *
Venus	44917-02-19 07:41 G	18126706.80	18126706.82	18126706.87	0.0145	0.0143
Moon	44918-01-09 00:00 G	18127030.30	18127030.50	18127030.71	0.0145	0.0088
Earth	44918-01-09 03:07 G	18127030.44	18127030.63	18127030.83	0.0145	0.0093 *

Mercury	44938-05-13 09:07 G	18134459.83	18134459.88	18134459.97	0.0137	0.0128
Mercury	44938-08-09 17:17 G	18134548.09	18134548.22	18134548.36	0.0137	0.0099
Mercury	44938-11-06 01:12 G	18134636.39	18134636.55	18134636.72	0.0137	0.0070
Mercury	44939-02-02 09:07 G	18134724.69	18134724.88	18134725.07	0.0136	0.0041
Mercury	44939-05-01 16:48 G	18134813.01	18134813.20	18134813.40	0.0136	0.0013
Mercury	44939-07-29 00:43 G	18134901.33	18134901.53	18134901.72	0.0136	0.0016
Mercury	44939-10-25 08:24 G	18134989.67	18134989.85	18134990.04	0.0136	0.0045
Mercury	44940-01-21 16:05 G	18135078.01	18135078.17	18135078.34	0.0136	0.0073
Mercury	44940-04-19 00:00 G	18135166.37	18135166.50	18135166.62	0.0136	0.0102
Mercury	44940-07-16 07:12 G	18135254.76	18135254.80	18135254.87	0.0136	0.0130
Venus	44953-09-13 02:10 G	18140061.48	18140061.59	18140061.70	0.0133	0.0114
Venus	44954-04-27 07:12 G	18140287.66	18140287.80	18140287.98	0.0133	0.0090
Venus	44954-12-09 12:29 G	18140513.85	18140514.02	18140514.23	0.0133	0.0065
Venus	44955-07-23 18:00 G	18140740.05	18140740.25	18140740.46	0.0133	0.0040
Venus	44956-03-05 23:17 G	18140966.26	18140966.47	18140966.69	0.0133	0.0016
Venus	44956-10-18 04:34 G	18141192.48	18141192.69	18141192.91	0.0133	0.0010
Venus	44957-06-01 09:50 G	18141418.70	18141418.91	18141419.12	0.0133	0.0034
Venus	44958-01-13 15:07 G	18141644.94	18141645.13	18141645.33	0.0133	0.0059
Earth	44958-06-30 00:29 G	18141812.31	18141812.52	18141812.73	0.0134	0.0075
Moon	44958-06-30 02:38 G	18141812.43	18141812.61	18141812.83	0.0134	0.0079 *
Venus	44958-08-27 20:10 G	18141871.18	18141871.34	18141871.52	0.0134	0.0084
Venus	44959-04-11 01:41 G	18142097.45	18142097.57	18142097.70	0.0134	0.0108
Moon	44959-07-04 04:19 G	18142181.42	18142181.68	18142181.94	0.0134	0.0003
Earth	44959-07-04 06:29 G	18142181.52	18142181.77	18142182.03	0.0134	0.0009 *
Venus	44959-11-23 07:12 G	18142323.77	18142323.80	18142323.83	0.0134	0.0132
Earth	44960-07-07 12:29 G	18142550.81	18142551.02	18142551.26	0.0134	0.0059
Moon	44960-07-07 15:07 G	18142550.91	18142551.13	18142551.37	0.0134	0.0052 *
Moon	44961-07-11 17:17 G	18142920.17	18142920.22	18142920.27	0.0134	0.0131
Earth	44961-07-11 19:26 G	18142920.23	18142920.31	18142920.40	0.0134	0.0125 *
Mercury	44981-10-31 05:46 G	18150336.71	18150336.74	18150336.77	0.0141	0.0136

Mercury	44982-01-27 09:07 G	18150424.80	18150424.88	18150424.95	0.0141	0.0115
Mercury	44982-04-25 12:29 G	18150512.92	18150513.02	18150513.11	0.0142	0.0094
Mercury	44982-07-22 15:50 G	18150601.04	18150601.16	18150601.27	0.0142	0.0073
Mercury	44982-10-18 18:58 G	18150689.17	18150689.29	18150689.42	0.0142	0.0052
Mercury	44983-01-14 22:19 G	18150777.31	18150777.43	18150777.56	0.0142	0.0031
Mercury	44983-04-13 01:41 G	18150865.44	18150865.57	18150865.70	0.0142	0.0010
Mercury	44983-07-10 05:02 G	18150953.58	18150953.71	18150953.84	0.0142	0.0013
Mercury	44983-10-06 08:24 G	18151041.73	18151041.85	18151041.98	0.0142	0.0034
Mercury	44984-01-02 11:46 G	18151129.88	18151129.99	18151130.12	0.0142	0.0055
Mercury	44984-03-30 15:22 G	18151218.03	18151218.14	18151218.25	0.0142	0.0076
Mercury	44984-06-26 18:29 G	18151306.19	18151306.27	18151306.37	0.0142	0.0099
Mercury	44984-09-22 22:05 G	18151394.36	18151394.42	18151394.49	0.0142	0.0120
Mercury	44984-12-20 01:26 G	18151482.56	18151482.56	18151482.58	0.0143	0.0142
Venus	44995-11-03 14:24 G	18155453.00	18155453.10	18155453.23	0.0145	0.0123
Venus	44996-06-17 02:53 G	18155679.46	18155679.62	18155679.79	0.0145	0.0091
Venus	44997-01-29 15:22 G	18155905.94	18155906.14	18155906.34	0.0145	0.0059
Venus	44997-09-13 03:36 G	18156132.44	18156132.65	18156132.87	0.0145	0.0027
Venus	44998-04-27 16:05 G	18156358.95	18156359.17	18156359.39	0.0145	0.0005
Venus	44998-12-10 04:19 G	18156585.47	18156585.68	18156585.89	0.0145	0.0037
Venus	44999-07-24 16:19 G	18156812.00	18156812.18	18156812.38	0.0145	0.0069
Moon	44999-12-31 10:05 G	18156971.70	18156971.92	18156972.15	0.0145	0.0066
Earth	44999-12-31 13:26 G	18156971.85	18156972.06	18156972.29	0.0145	0.0073 *
Venus	45000-03-08 04:19 G	18157038.54	18157038.68	18157038.85	0.0145	0.0101
Venus	45000-10-20 16:48 G	18157265.12	18157265.20	18157265.30	0.0145	0.0132

46TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 46th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	45001-01-05 15:50	G	18157341.90	18157342.16	18157342.41	0.0145	0.0014	
Moon	45001-01-05 19:26	G	18157342.06	18157342.31	18157342.57	0.0145	0.0007	*
Moon	45002-01-10 13:55	G	18157711.92	18157712.08	18157712.27	0.0145	0.0107	
Earth	45002-01-10 17:31	G	18157712.06	18157712.23	18157712.43	0.0145	0.0100	*
Mars	45015-07-26 17:46	G	18162657.18	18162657.24	18162657.37	0.0140	0.0134	
Mercury	45022-06-03 18:14	G	18165161.16	18165161.26	18165161.37	0.0137	0.0115	
Mercury	45022-08-31 02:10	G	18165249.44	18165249.59	18165249.74	0.0137	0.0086	
Mercury	45022-11-27 09:50	G	18165337.74	18165337.91	18165338.10	0.0137	0.0057	
Mercury	45023-02-23 17:46	G	18165426.05	18165426.24	18165426.43	0.0136	0.0028	
Mercury	45023-05-23 01:41	G	18165514.37	18165514.57	18165514.76	0.0136	0.0002	
Mercury	45023-08-19 09:07	G	18165602.70	18165602.88	18165603.08	0.0136	0.0030	
Mercury	45023-11-15 17:02	G	18165691.04	18165691.21	18165691.39	0.0136	0.0057	
Mercury	45024-02-12 00:43	G	18165779.38	18165779.53	18165779.69	0.0136	0.0085	
Mercury	45024-05-10 08:10	G	18165867.75	18165867.84	18165867.96	0.0136	0.0114	
Venus	45037-05-14 14:10	G	18170620.00	18170620.09	18170620.17	0.0133	0.0122	
Venus	45037-12-26 19:12	G	18170846.16	18170846.30	18170846.45	0.0133	0.0097	
Venus	45038-08-10 00:14	G	18171072.34	18171072.51	18171072.71	0.0133	0.0073	
Venus	45039-03-24 05:46	G	18171298.54	18171298.74	18171298.95	0.0133	0.0048	
Venus	45039-11-05 11:02	G	18171524.75	18171524.96	18171525.18	0.0133	0.0024	
Venus	45040-06-18 16:19	G	18171750.96	18171751.18	18171751.39	0.0133	0.0002	
Venus	45041-01-30 21:22	G	18171977.18	18171977.39	18171977.60	0.0133	0.0026	
Venus	45041-09-14 02:24	G	18172203.41	18172203.60	18172203.81	0.0133	0.0050	
Venus	45042-04-28 07:41	G	18172429.65	18172429.82	18172430.01	0.0133	0.0075	
Earth	45042-07-01 12:43	G	18172493.83	18172494.03	18172494.26	0.0133	0.0070	
Moon	45042-07-01 15:22	G	18172493.94	18172494.14	18172494.37	0.0133	0.0066	*

Venus	45042-12-10 12:43 G	18172655.90	18172656.03	18172656.19	0.0133	0.0100
Moon	45043-07-05 15:50 G	18172862.91	18172863.16	18172863.42	0.0134	0.0008
Earth	45043-07-05 18:58 G	18172863.04	18172863.29	18172863.55	0.0134	0.0004 *
Venus	45043-07-24 18:00 G	18172882.18	18172882.25	18172882.34	0.0134	0.0124
Earth	45044-07-09 00:58 G	18173232.33	18173232.54	18173232.77	0.0134	0.0064
Moon	45044-07-09 03:22 G	18173232.45	18173232.64	18173232.87	0.0134	0.0071 *
Moon	45045-07-13 04:48 G	18173601.60	18173601.70	18173601.80	0.0134	0.0123
Earth	45045-07-13 07:12 G	18173601.77	18173601.80	18173601.87	0.0134	0.0131 *
Mars	45059-11-05 07:12 G	18178829.63	18178829.80	18178830.01	0.0139	0.0105
Mercury	45065-11-21 12:43 G	18181038.00	18181038.03	18181038.09	0.0141	0.0131
Mercury	45066-02-17 16:05 G	18181126.10	18181126.17	18181126.26	0.0141	0.0111
Mercury	45066-05-16 19:26 G	18181214.22	18181214.31	18181214.42	0.0142	0.0090
Mercury	45066-08-12 22:48 G	18181302.34	18181302.45	18181302.57	0.0142	0.0069
Mercury	45066-11-09 02:10 G	18181390.47	18181390.59	18181390.72	0.0142	0.0048
Mercury	45067-02-05 05:31 G	18181478.61	18181478.73	18181478.86	0.0142	0.0026
Mercury	45067-05-04 08:53 G	18181566.74	18181566.87	18181567.01	0.0142	0.0007
Mercury	45067-07-31 12:29 G	18181654.89	18181655.02	18181655.14	0.0142	0.0018
Mercury	45067-10-27 15:50 G	18181743.03	18181743.16	18181743.28	0.0142	0.0038
Mercury	45068-01-23 18:58 G	18181831.18	18181831.29	18181831.42	0.0142	0.0060
Mercury	45068-04-20 22:19 G	18181919.33	18181919.43	18181919.55	0.0142	0.0082
Mercury	45068-07-18 01:55 G	18182007.49	18182007.58	18182007.67	0.0142	0.0103
Mercury	45068-10-14 05:17 G	18182095.66	18182095.72	18182095.78	0.0143	0.0125
Venus	45079-07-04 20:53 G	18186011.31	18186011.37	18186011.46	0.0145	0.0136
Venus	45080-02-16 09:07 G	18186237.75	18186237.88	18186238.05	0.0145	0.0104
Venus	45080-09-29 21:50 G	18186464.23	18186464.41	18186464.61	0.0145	0.0072
Venus	45081-05-14 10:19 G	18186690.72	18186690.93	18186691.14	0.0145	0.0040
Venus	45081-12-26 22:48 G	18186917.23	18186917.45	18186917.67	0.0145	0.0008
Venus	45082-08-10 11:02 G	18187143.74	18187143.96	18187144.17	0.0145	0.0024
Venus	45083-03-24 23:17 G	18187370.27	18187370.47	18187370.67	0.0145	0.0056
Venus	45083-11-06 11:31 G	18187596.82	18187596.98	18187597.16	0.0145	0.0088

Moon	45084-01-01 21:07 G	18187653.16	18187653.38	18187653.60	0.0145	0.0074
Earth	45084-01-02 00:43 G	18187653.31	18187653.53	18187653.76	0.0145	0.0067 *
Venus	45084-06-19 23:31 G	18187823.38	18187823.48	18187823.62	0.0145	0.0120
Earth	45085-01-06 03:07 G	18188023.38	18188023.63	18188023.89	0.0145	0.0019
Moon	45085-01-06 06:43 G	18188023.53	18188023.78	18188024.03	0.0145	0.0027 *
Moon	45086-01-11 01:55 G	18188393.40	18188393.58	18188393.76	0.0145	0.0100
Earth	45086-01-11 05:17 G	18188393.56	18188393.72	18188393.90	0.0145	0.0106 *
Mars	45100-03-23 01:26 G	18193577.28	18193577.56	18193577.88	0.0139	0.0060
Mercury	45106-03-28 18:58 G	18195774.25	18195774.29	18195774.35	0.0137	0.0132
Mercury	45106-06-25 02:53 G	18195862.50	18195862.62	18195862.76	0.0137	0.0103
Mercury	45106-09-21 10:48 G	18195950.79	18195950.95	18195951.12	0.0137	0.0074
Mercury	45106-12-18 18:43 G	18196039.10	18196039.28	18196039.47	0.0137	0.0045
Mercury	45107-03-17 02:38 G	18196127.41	18196127.61	18196127.80	0.0136	0.0016
Mercury	45107-06-13 10:19 G	18196215.74	18196215.93	18196216.13	0.0136	0.0013
Mercury	45107-09-09 18:00 G	18196304.07	18196304.25	18196304.44	0.0136	0.0041
Mercury	45107-12-07 01:55 G	18196392.41	18196392.58	18196392.75	0.0136	0.0070
Mercury	45108-03-04 09:07 G	18196480.76	18196480.88	18196481.03	0.0136	0.0099
Mercury	45108-05-31 16:48 G	18196569.15	18196569.20	18196569.29	0.0136	0.0126
Venus	45121-01-13 01:55 G	18201178.55	18201178.58	18201178.65	0.0133	0.0130
Venus	45121-08-27 07:12 G	18201404.69	18201404.80	18201404.95	0.0133	0.0105
Venus	45122-04-10 12:58 G	18201630.87	18201631.04	18201631.21	0.0133	0.0081
Venus	45122-11-22 18:00 G	18201857.06	18201857.25	18201857.45	0.0133	0.0056
Venus	45123-07-06 23:17 G	18202083.26	18202083.47	18202083.68	0.0133	0.0032
Venus	45124-02-18 04:19 G	18202309.46	18202309.68	18202309.90	0.0133	0.0007
Venus	45124-10-01 09:22 G	18202535.68	18202535.89	18202536.11	0.0133	0.0018
Venus	45125-05-15 14:38 G	18202761.91	18202762.11	18202762.32	0.0133	0.0042
Moon	45125-06-28 17:02 G	18202806.18	18202806.21	18202806.30	0.0133	0.0130
Earth	45125-06-28 20:24 G	18202806.31	18202806.35	18202806.43	0.0133	0.0130
Venus	45125-12-27 19:41 G	18202988.14	18202988.32	18202988.51	0.0133	0.0067
Earth	45126-07-03 02:10 G	18203175.38	18203175.59	18203175.82	0.0133	0.0064

Moon	45126-07-03 05:31 G	18203175.53	18203175.73	18203175.96	0.0133	0.0066 *
Venus	45126-08-11 00:29 G	18203214.38	18203214.52	18203214.70	0.0133	0.0092
Venus	45127-03-25 05:46 G	18203440.65	18203440.74	18203440.86	0.0133	0.0116
Moon	45127-07-07 05:17 G	18203544.46	18203544.72	18203544.98	0.0133	0.0008
Earth	45127-07-07 08:24 G	18203544.59	18203544.85	18203545.10	0.0133	0.0004 *
Earth	45128-07-10 14:10 G	18203913.88	18203914.09	18203914.31	0.0134	0.0070
Moon	45128-07-10 17:31 G	18203914.02	18203914.23	18203914.45	0.0134	0.0063 *
Jupiter	45132-05-17 15:50 G	18205320.78	18205321.16	18205321.55	0.0134	0.0087
Mars	45144-06-30 22:48 G	18209748.19	18209748.45	18209748.72	0.0139	0.0051
Mercury	45149-12-12 20:10 G	18211739.29	18211739.34	18211739.40	0.0141	0.0126
Mercury	45150-03-10 23:31 G	18211827.40	18211827.48	18211827.57	0.0141	0.0105
Mercury	45150-06-07 02:53 G	18211915.52	18211915.62	18211915.73	0.0142	0.0084
Mercury	45150-09-03 06:14 G	18212003.65	18212003.76	18212003.88	0.0142	0.0063
Mercury	45150-11-30 09:36 G	18212091.78	18212091.90	18212092.03	0.0142	0.0042
Mercury	45151-02-26 12:58 G	18212179.91	18212180.04	18212180.17	0.0142	0.0021
Mercury	45151-05-25 16:19 G	18212268.05	18212268.18	18212268.31	0.0142	0.0001
Mercury	45151-08-21 19:41 G	18212356.19	18212356.32	18212356.45	0.0142	0.0022
Mercury	45151-11-17 23:02 G	18212444.34	18212444.46	18212444.58	0.0142	0.0043
Mercury	45152-02-14 02:24 G	18212532.49	18212532.60	18212532.72	0.0142	0.0065
Mercury	45152-05-12 05:46 G	18212620.64	18212620.74	18212620.85	0.0142	0.0087
Mercury	45152-08-08 09:07 G	18212708.80	18212708.88	18212708.97	0.0142	0.0108
Mercury	45152-11-04 12:43 G	18212796.98	18212797.03	18212797.08	0.0143	0.0130
Venus	45163-10-17 15:36 G	18216796.03	18216796.15	18216796.28	0.0145	0.0116
Venus	45164-05-31 03:36 G	18217022.49	18217022.65	18217022.85	0.0145	0.0086
Venus	45165-01-12 16:05 G	18217248.98	18217249.17	18217249.39	0.0145	0.0053
Venus	45165-08-27 04:34 G	18217475.48	18217475.69	18217475.91	0.0145	0.0021
Venus	45166-04-10 17:02 G	18217702.00	18217702.21	18217702.43	0.0145	0.0012
Venus	45166-11-23 05:31 G	18217928.52	18217928.73	18217928.94	0.0145	0.0044
Venus	45167-07-07 17:46 G	18218155.06	18218155.24	18218155.43	0.0145	0.0075
Moon	45168-01-03 07:55 G	18218334.60	18218334.83	18218335.06	0.0145	0.0058

Earth	45168-01-03 10:34 G	18218334.72	18218334.94	18218335.18	0.0145	0.0064	*
Venus	45168-02-19 05:46 G	18218381.61	18218381.74	18218381.90	0.0145	0.0107	
Venus	45168-10-02 18:29 G	18218608.21	18218608.27	18218608.33	0.0145	0.0138	
Earth	45169-01-07 13:12 G	18218704.81	18218705.05	18218705.31	0.0145	0.0024	
Moon	45169-01-07 17:02 G	18218704.96	18218705.21	18218705.47	0.0145	0.0015	*
Moon	45170-01-12 12:00 G	18219074.87	18219075.00	18219075.16	0.0145	0.0117	
Earth	45170-01-12 15:36 G	18219075.00	18219075.15	18219075.33	0.0145	0.0110	*
Mercury	45190-04-18 02:53 G	18226475.55	18226475.62	18226475.73	0.0137	0.0122	
Mercury	45190-07-15 10:48 G	18226563.82	18226563.95	18226564.11	0.0137	0.0093	
Mercury	45190-10-11 18:58 G	18226652.12	18226652.29	18226652.47	0.0137	0.0064	
Mercury	45191-01-08 02:53 G	18226740.43	18226740.62	18226740.81	0.0137	0.0035	
Mercury	45191-04-06 10:48 G	18226828.75	18226828.95	18226829.14	0.0137	0.0006	
Mercury	45191-07-03 18:29 G	18226917.08	18226917.27	18226917.46	0.0136	0.0023	
Mercury	45191-09-30 02:10 G	18227005.41	18227005.59	18227005.78	0.0136	0.0051	
Mercury	45191-12-27 09:36 G	18227093.76	18227093.90	18227094.07	0.0136	0.0080	
Mercury	45192-03-24 17:17 G	18227182.12	18227182.22	18227182.35	0.0136	0.0109	
Mercury	45192-06-21 01:12 G	18227270.55	18227270.55	18227270.56	0.0136	0.0136	
Venus	45205-04-26 19:41 G	18231963.21	18231963.32	18231963.44	0.0133	0.0112	
Venus	45205-12-09 00:43 G	18232189.38	18232189.53	18232189.70	0.0133	0.0088	
Venus	45206-07-23 05:46 G	18232415.56	18232415.74	18232415.94	0.0133	0.0064	
Venus	45207-03-06 11:02 G	18232641.76	18232641.96	18232642.18	0.0133	0.0039	
Venus	45207-10-18 16:19 G	18232867.96	18232868.18	18232868.40	0.0133	0.0015	
Venus	45208-05-31 21:22 G	18233094.18	18233094.39	18233094.61	0.0133	0.0010	
Venus	45209-01-13 02:24 G	18233320.39	18233320.60	18233320.81	0.0133	0.0034	
Moon	45209-06-29 06:43 G	18233487.68	18233487.78	18233487.88	0.0133	0.0122	
Earth	45209-06-29 10:05 G	18233487.84	18233487.92	18233488.02	0.0133	0.0124	*
Venus	45209-08-27 07:12 G	18233546.62	18233546.80	18233547.01	0.0133	0.0060	
Venus	45210-04-10 12:29 G	18233772.87	18233773.02	18233773.20	0.0133	0.0084	
Earth	45210-07-03 15:22 G	18233856.92	18233857.14	18233857.38	0.0133	0.0058	
Moon	45210-07-03 18:43 G	18233857.06	18233857.28	18233857.52	0.0133	0.0055	*

Venus	45210-11-22 17:46 G	18233999.12	18233999.24	18233999.38	0.0133	0.0108
Venus	45211-07-06 23:02 G	18234225.44	18234225.46	18234225.50	0.0133	0.0132
Moon	45211-07-07 18:00 G	18234225.99	18234226.25	18234226.50	0.0133	0.0005
Earth	45211-07-07 21:36 G	18234226.15	18234226.40	18234226.65	0.0133	0.0009 *
Earth	45212-07-11 03:22 G	18234595.44	18234595.64	18234595.86	0.0133	0.0075
Moon	45212-07-11 06:29 G	18234595.59	18234595.77	18234595.98	0.0133	0.0082 *
Mercury	45234-01-02 03:22 G	18242440.58	18242440.64	18242440.71	0.0141	0.0121
Mercury	45234-03-31 06:43 G	18242528.69	18242528.78	18242528.87	0.0141	0.0100
Mercury	45234-06-27 10:05 G	18242616.81	18242616.92	18242617.03	0.0141	0.0079
Mercury	45234-09-23 13:26 G	18242704.94	18242705.06	18242705.18	0.0142	0.0058
Mercury	45234-12-20 16:48 G	18242793.07	18242793.20	18242793.32	0.0142	0.0037
Mercury	45235-03-18 20:10 G	18242881.21	18242881.34	18242881.47	0.0142	0.0017
Mercury	45235-06-14 23:31 G	18242969.35	18242969.48	18242969.61	0.0142	0.0006
Mercury	45235-09-11 02:53 G	18243057.49	18243057.62	18243057.75	0.0142	0.0026
Mercury	45235-12-08 06:00 G	18243145.63	18243145.75	18243145.88	0.0142	0.0048
Mercury	45236-03-05 09:22 G	18243233.78	18243233.89	18243234.01	0.0142	0.0070
Mercury	45236-06-01 12:58 G	18243321.94	18243322.04	18243322.14	0.0142	0.0091
Mercury	45236-08-28 16:19 G	18243410.10	18243410.18	18243410.26	0.0142	0.0112
Mercury	45236-11-24 19:41 G	18243498.28	18243498.32	18243498.37	0.0142	0.0134
Venus	45247-06-16 19:55 G	18247354.25	18247354.33	18247354.44	0.0145	0.0130
Venus	45248-01-29 08:24 G	18247580.70	18247580.85	18247581.02	0.0145	0.0099
Venus	45248-09-11 20:53 G	18247807.19	18247807.37	18247807.57	0.0145	0.0067
Venus	45249-04-26 09:22 G	18248033.68	18248033.89	18248034.11	0.0145	0.0035
Venus	45249-12-08 21:50 G	18248260.19	18248260.41	18248260.63	0.0145	0.0003
Venus	45250-07-23 10:05 G	18248486.71	18248486.92	18248487.13	0.0145	0.0030
Venus	45251-03-06 22:05 G	18248713.24	18248713.42	18248713.63	0.0145	0.0062
Venus	45251-10-19 10:48 G	18248939.79	18248939.95	18248940.12	0.0145	0.0094
Moon	45252-01-03 15:36 G	18249015.94	18249016.15	18249016.38	0.0145	0.0068
Earth	45252-01-03 18:14 G	18249016.05	18249016.26	18249016.51	0.0145	0.0062 *
Venus	45252-06-01 23:02 G	18249166.36	18249166.46	18249166.58	0.0145	0.0125

Earth	45253-01-07 21:07 G	18249386.14	18249386.38	18249386.64	0.0145	0.0026
Moon	45253-01-08 00:14 G	18249386.26	18249386.51	18249386.77	0.0145	0.0033 *
Moon	45254-01-12 20:10 G	18249756.18	18249756.34	18249756.53	0.0145	0.0106
Earth	45254-01-13 00:00 G	18249756.34	18249756.50	18249756.66	0.0145	0.0112 *
Jupiter	45256-12-05 20:10 G	18250814.16	18250814.34	18250814.57	0.0144	0.0132
Mars	45267-08-08 20:53 G	18254712.10	18254712.37	18254712.69	0.0140	0.0065
Mercury	45274-05-08 10:48 G	18257176.85	18257176.95	18257177.07	0.0137	0.0113
Mercury	45274-08-04 18:43 G	18257265.13	18257265.28	18257265.44	0.0137	0.0084
Mercury	45274-11-01 02:38 G	18257353.44	18257353.61	18257353.80	0.0137	0.0055
Mercury	45275-01-28 10:34 G	18257441.75	18257441.94	18257442.14	0.0137	0.0026
Mercury	45275-04-26 18:29 G	18257530.07	18257530.27	18257530.46	0.0137	0.0003
Mercury	45275-07-24 02:10 G	18257618.40	18257618.59	18257618.78	0.0137	0.0032
Mercury	45275-10-20 09:50 G	18257706.74	18257706.91	18257707.09	0.0136	0.0060
Mercury	45276-01-16 17:31 G	18257795.09	18257795.23	18257795.38	0.0136	0.0089
Mercury	45276-04-14 00:58 G	18257883.46	18257883.54	18257883.66	0.0136	0.0117
Venus	45288-12-25 07:12 G	18262521.73	18262521.80	18262521.91	0.0133	0.0121
Venus	45289-08-08 12:43 G	18262747.89	18262748.03	18262748.19	0.0133	0.0096
Venus	45290-03-22 18:00 G	18262974.07	18262974.25	18262974.44	0.0133	0.0071
Venus	45290-11-03 23:02 G	18263200.27	18263200.46	18263200.67	0.0133	0.0047
Venus	45291-06-18 04:19 G	18263426.47	18263426.68	18263426.89	0.0133	0.0022
Venus	45292-01-30 09:22 G	18263652.67	18263652.89	18263653.11	0.0133	0.0002
Venus	45292-09-12 14:24 G	18263878.89	18263879.10	18263879.32	0.0133	0.0027
Venus	45293-04-26 19:41 G	18264105.12	18264105.32	18264105.52	0.0133	0.0051
Moon	45293-06-29 19:41 G	18264169.23	18264169.32	18264169.45	0.0133	0.0120
Earth	45293-06-29 23:31 G	18264169.38	18264169.48	18264169.61	0.0133	0.0118 *
Venus	45293-12-09 00:58 G	18264331.36	18264331.54	18264331.72	0.0133	0.0076
Earth	45294-07-04 05:17 G	18264538.49	18264538.72	18264538.96	0.0133	0.0052
Moon	45294-07-04 08:53 G	18264538.64	18264538.87	18264539.11	0.0133	0.0054 *
Venus	45294-07-23 05:46 G	18264557.61	18264557.74	18264557.89	0.0133	0.0100
Venus	45295-03-06 11:02 G	18264783.89	18264783.96	18264784.04	0.0133	0.0125

Moon	45295-07-08 07:41 G	18264907.58	18264907.82	18264908.08	0.0133	0.0019
Earth	45295-07-08 11:17 G	18264907.72	18264907.97	18264908.22	0.0133	0.0014 *
Earth	45296-07-11 17:02 G	18265277.02	18265277.21	18265277.42	0.0134	0.0081
Moon	45296-07-11 20:53 G	18265277.17	18265277.37	18265277.59	0.0134	0.0074 *
Mars	45311-11-19 23:46 G	18270885.23	18270885.49	18270885.77	0.0138	0.0047
Mercury	45317-10-27 07:41 G	18273053.79	18273053.82	18273053.87	0.0141	0.0135
Mercury	45318-01-23 11:17 G	18273141.89	18273141.97	18273142.04	0.0141	0.0113
Mercury	45318-04-21 14:38 G	18273230.01	18273230.11	18273230.20	0.0141	0.0093
Mercury	45318-07-18 17:46 G	18273318.13	18273318.24	18273318.36	0.0141	0.0072
Mercury	45318-10-14 21:07 G	18273406.26	18273406.38	18273406.50	0.0142	0.0051
Mercury	45319-01-11 00:29 G	18273494.39	18273494.52	18273494.65	0.0142	0.0030
Mercury	45319-04-09 03:50 G	18273582.53	18273582.66	18273582.79	0.0142	0.0009
Mercury	45319-07-06 07:12 G	18273670.67	18273670.80	18273670.93	0.0142	0.0013
Mercury	45319-10-02 10:34 G	18273758.81	18273758.94	18273759.07	0.0142	0.0034
Mercury	45319-12-29 13:55 G	18273846.96	18273847.08	18273847.20	0.0142	0.0055
Mercury	45320-03-26 17:17 G	18273935.11	18273935.22	18273935.33	0.0142	0.0077
Mercury	45320-06-22 20:38 G	18274023.27	18274023.36	18274023.46	0.0142	0.0098
Mercury	45320-09-19 00:00 G	18274111.44	18274111.50	18274111.57	0.0142	0.0120
Mercury	45320-12-16 03:22 G	18274199.64	18274199.64	18274199.66	0.0142	0.0142
Venus	45331-02-15 03:36 G	18277912.61	18277912.65	18277912.71	0.0145	0.0141
Venus	45331-09-29 15:50 G	18278139.03	18278139.16	18278139.32	0.0145	0.0110
Venus	45332-05-13 04:19 G	18278365.50	18278365.68	18278365.87	0.0145	0.0078
Venus	45332-12-25 16:34 G	18278591.99	18278592.19	18278592.40	0.0145	0.0046
Venus	45333-08-09 05:02 G	18278818.49	18278818.71	18278818.92	0.0145	0.0014
Venus	45334-03-23 17:17 G	18279045.00	18279045.22	18279045.44	0.0145	0.0018
Venus	45334-11-05 05:31 G	18279271.53	18279271.73	18279271.94	0.0145	0.0050
Earth	45334-12-31 02:53 G	18279327.61	18279327.62	18279327.67	0.0145	0.0144
Moon	45334-12-31 04:48 G	18279327.69	18279327.70	18279327.74	0.0145	0.0144
Venus	45335-06-19 17:46 G	18279498.07	18279498.24	18279498.43	0.0145	0.0082
Moon	45336-01-05 04:19 G	18279697.46	18279697.68	18279697.92	0.0145	0.0053

Earth	45336-01-05 06:14 G	18279697.53	18279697.76	18279698.00	0.0145	0.0057	*
Venus	45336-02-01 06:14 G	18279724.63	18279724.76	18279724.90	0.0145	0.0113	
Venus	45336-09-14 18:29 G	18279951.27	18279951.27	18279951.28	0.0145	0.0145	
Earth	45337-01-09 09:07 G	18280067.63	18280067.88	18280068.13	0.0145	0.0030	
Moon	45337-01-09 12:00 G	18280067.75	18280068.00	18280068.27	0.0145	0.0023	*
Moon	45338-01-14 08:38 G	18280437.74	18280437.86	18280437.99	0.0145	0.0124	
Earth	45338-01-14 11:17 G	18280437.84	18280437.97	18280438.14	0.0145	0.0117	*
Mars	45352-04-04 22:48 G	18285632.33	18285632.45	18285632.64	0.0140	0.0124	
Mercury	45358-03-02 10:34 G	18287789.91	18287789.94	18287790.00	0.0137	0.0133	
Mercury	45358-05-29 18:29 G	18287878.15	18287878.27	18287878.41	0.0137	0.0104	
Mercury	45358-08-26 02:24 G	18287966.45	18287966.60	18287966.77	0.0137	0.0075	
Mercury	45358-11-22 10:19 G	18288054.75	18288054.93	18288055.12	0.0137	0.0046	
Mercury	45359-02-18 18:14 G	18288143.07	18288143.26	18288143.46	0.0137	0.0017	
Mercury	45359-05-18 02:10 G	18288231.39	18288231.59	18288231.78	0.0137	0.0012	
Mercury	45359-08-14 09:50 G	18288319.73	18288319.91	18288320.10	0.0137	0.0041	
Mercury	45359-11-10 17:31 G	18288408.07	18288408.23	18288408.40	0.0136	0.0070	
Mercury	45360-02-07 01:26 G	18288496.42	18288496.56	18288496.69	0.0136	0.0098	
Mercury	45360-05-05 08:38 G	18288584.81	18288584.86	18288584.95	0.0136	0.0127	
Venus	45372-08-25 18:58 G	18293080.25	18293080.29	18293080.37	0.0133	0.0129	
Venus	45373-04-09 00:43 G	18293306.40	18293306.53	18293306.67	0.0133	0.0104	
Venus	45373-11-21 05:46 G	18293532.58	18293532.74	18293532.93	0.0133	0.0080	
Venus	45374-07-05 10:48 G	18293758.77	18293758.95	18293759.16	0.0133	0.0056	
Venus	45375-02-16 16:05 G	18293984.97	18293985.17	18293985.39	0.0133	0.0031	
Venus	45375-09-30 21:22 G	18294211.18	18294211.39	18294211.61	0.0133	0.0006	
Venus	45376-05-14 02:38 G	18294437.40	18294437.61	18294437.83	0.0133	0.0019	
Venus	45376-12-26 07:41 G	18294663.62	18294663.82	18294664.03	0.0133	0.0044	
Moon	45377-07-01 09:50 G	18294850.78	18294850.91	18294851.06	0.0133	0.0110	
Earth	45377-07-01 13:12 G	18294850.93	18294851.05	18294851.20	0.0133	0.0113	*
Venus	45377-08-09 12:43 G	18294889.85	18294890.03	18294890.23	0.0133	0.0068	
Venus	45378-03-23 18:00 G	18295116.10	18295116.25	18295116.41	0.0133	0.0093	

Earth	45378-07-05 18:58 G	18295220.06	18295220.29	18295220.53	0.0133	0.0047
Moon	45378-07-05 22:34 G	18295220.21	18295220.44	18295220.68	0.0133	0.0044 *
Venus	45378-11-04 23:02 G	18295342.38	18295342.46	18295342.58	0.0133	0.0117
Moon	45379-07-09 21:22 G	18295589.14	18295589.39	18295589.64	0.0133	0.0016
Earth	45379-07-10 00:58 G	18295589.30	18295589.54	18295589.80	0.0133	0.0020 *
Earth	45380-07-13 06:58 G	18295958.61	18295958.79	18295959.00	0.0134	0.0087
Moon	45380-07-13 10:19 G	18295958.77	18295958.93	18295959.13	0.0134	0.0093 *
Mars	45396-07-14 19:55 G	18301804.18	18301804.33	18301804.51	0.0139	0.0114
Saturn	45397-03-23 13:26 G	18302055.48	18302056.06	18302056.67	0.0139	0.0008
Mercury	45401-11-17 15:22 G	18303755.10	18303755.14	18303755.21	0.0141	0.0127
Mercury	45402-02-13 18:43 G	18303843.21	18303843.28	18303843.37	0.0141	0.0107
Mercury	45402-05-12 22:05 G	18303931.32	18303931.42	18303931.53	0.0141	0.0086
Mercury	45402-08-09 01:26 G	18304019.45	18304019.56	18304019.68	0.0141	0.0065
Mercury	45402-11-05 04:48 G	18304107.58	18304107.70	18304107.83	0.0141	0.0044
Mercury	45403-02-01 08:10 G	18304195.71	18304195.84	18304195.97	0.0142	0.0023
Mercury	45403-04-30 11:31 G	18304283.85	18304283.98	18304284.11	0.0142	0.0002
Mercury	45403-07-27 14:53 G	18304371.99	18304372.12	18304372.25	0.0142	0.0020
Mercury	45403-10-23 18:14 G	18304460.14	18304460.26	18304460.39	0.0142	0.0042
Mercury	45404-01-19 21:36 G	18304548.29	18304548.40	18304548.52	0.0142	0.0063
Mercury	45404-04-17 00:58 G	18304636.44	18304636.54	18304636.65	0.0142	0.0084
Mercury	45404-07-14 04:19 G	18304724.60	18304724.68	18304724.77	0.0142	0.0106
Mercury	45404-10-10 07:55 G	18304812.77	18304812.83	18304812.88	0.0142	0.0128
Venus	45415-05-31 00:00 G	18308697.38	18308697.50	18308697.62	0.0145	0.0121
Venus	45416-01-12 12:00 G	18308923.84	18308924.00	18308924.18	0.0145	0.0090
Venus	45416-08-26 00:14 G	18309150.32	18309150.51	18309150.72	0.0145	0.0058
Venus	45417-04-09 12:43 G	18309376.82	18309377.03	18309377.25	0.0145	0.0026
Venus	45417-11-22 01:12 G	18309603.33	18309603.55	18309603.77	0.0145	0.0006
Venus	45418-07-06 13:26 G	18309829.85	18309830.06	18309830.27	0.0145	0.0038
Earth	45419-01-01 15:50 G	18310009.10	18310009.16	18310009.26	0.0145	0.0138
Moon	45419-01-01 16:48 G	18310009.14	18310009.20	18310009.29	0.0145	0.0138 *

Venus	45419-02-18 01:41 G	18310056.39	18310056.57	18310056.77	0.0145	0.0070
Venus	45419-10-02 14:10 G	18310282.94	18310283.09	18310283.25	0.0145	0.0102
Moon	45420-01-06 17:31 G	18310379.00	18310379.23	18310379.46	0.0145	0.0056
Earth	45420-01-06 19:12 G	18310379.07	18310379.30	18310379.55	0.0145	0.0051 *
Venus	45420-05-16 02:10 G	18310509.53	18310509.59	18310509.69	0.0145	0.0134
Earth	45421-01-10 22:05 G	18310749.18	18310749.42	18310749.67	0.0145	0.0036
Moon	45421-01-11 00:00 G	18310749.26	18310749.50	18310749.76	0.0145	0.0043 *
Moon	45422-01-15 21:36 G	18311119.27	18311119.40	18311119.56	0.0145	0.0116
Earth	45422-01-16 00:29 G	18311119.41	18311119.52	18311119.67	0.0145	0.0123 *
Mercury	45442-03-23 18:43 G	18318491.21	18318491.28	18318491.39	0.0137	0.0122
Mercury	45442-06-20 02:38 G	18318579.48	18318579.61	18318579.77	0.0137	0.0093
Mercury	45442-09-16 10:34 G	18318667.78	18318667.94	18318668.13	0.0137	0.0064
Mercury	45442-12-13 18:43 G	18318756.09	18318756.28	18318756.47	0.0137	0.0035
Mercury	45443-03-12 02:38 G	18318844.41	18318844.61	18318844.80	0.0137	0.0006
Mercury	45443-06-08 10:19 G	18318932.74	18318932.93	18318933.13	0.0137	0.0023
Mercury	45443-09-04 18:00 G	18319021.08	18319021.25	18319021.44	0.0137	0.0052
Mercury	45443-12-02 01:41 G	18319109.42	18319109.57	18319109.74	0.0136	0.0081
Mercury	45444-02-28 09:36 G	18319197.79	18319197.90	18319198.02	0.0136	0.0109
Venus	45456-12-08 12:58 G	18323864.93	18323865.04	18323865.17	0.0133	0.0112
Venus	45457-07-22 18:00 G	18324091.10	18324091.25	18324091.43	0.0133	0.0088
Venus	45458-03-05 23:31 G	18324317.29	18324317.48	18324317.68	0.0133	0.0063
Venus	45458-10-18 04:34 G	18324543.49	18324543.69	18324543.91	0.0133	0.0039
Venus	45459-06-01 10:05 G	18324769.70	18324769.92	18324770.14	0.0133	0.0013
Venus	45460-01-13 15:07 G	18324995.92	18324996.13	18324996.35	0.0133	0.0012
Venus	45460-08-26 20:10 G	18325222.14	18325222.34	18325222.56	0.0133	0.0036
Venus	45461-04-10 01:41 G	18325448.38	18325448.57	18325448.76	0.0133	0.0061
Moon	45461-07-03 00:14 G	18325532.37	18325532.51	18325532.66	0.0133	0.0108
Earth	45461-07-03 03:22 G	18325532.52	18325532.64	18325532.82	0.0133	0.0107 *
Venus	45461-11-22 06:43 G	18325674.62	18325674.78	18325674.95	0.0133	0.0085
Venus	45462-07-06 12:00 G	18325900.88	18325901.00	18325901.13	0.0133	0.0110

Earth	45462-07-07 09:36 G	18325901.67	18325901.90	18325902.15	0.0133	0.0040
Moon	45462-07-07 12:58 G	18325901.81	18325902.04	18325902.30	0.0133	0.0041 *
Moon	45463-07-11 12:14 G	18326270.78	18326271.01	18326271.27	0.0133	0.0031
Earth	45463-07-11 15:50 G	18326270.92	18326271.16	18326271.41	0.0133	0.0026 *
Earth	45464-07-14 21:50 G	18326640.24	18326640.41	18326640.60	0.0134	0.0093
Moon	45464-07-15 01:26 G	18326640.38	18326640.56	18326640.77	0.0134	0.0087 *
Mars	45479-04-10 07:55 G	18332022.83	18332022.83	18332022.90	0.0138	0.0138
Mercury	45485-09-10 20:24 G	18334368.33	18334368.35	18334368.37	0.0141	0.0138
Mercury	45485-12-07 23:46 G	18334456.42	18334456.49	18334456.56	0.0141	0.0118
Mercury	45486-03-06 02:53 G	18334544.53	18334544.62	18334544.72	0.0141	0.0097
Mercury	45486-06-02 06:14 G	18334632.66	18334632.76	18334632.87	0.0141	0.0076
Mercury	45486-08-29 09:36 G	18334720.78	18334720.90	18334721.02	0.0141	0.0055
Mercury	45486-11-25 12:58 G	18334808.91	18334809.04	18334809.17	0.0142	0.0034
Mercury	45487-02-21 16:19 G	18334897.05	18334897.18	18334897.31	0.0142	0.0013
Mercury	45487-05-20 19:41 G	18334985.19	18334985.32	18334985.45	0.0142	0.0009
Mercury	45487-08-16 23:02 G	18335073.33	18335073.46	18335073.59	0.0142	0.0030
Mercury	45487-11-13 02:24 G	18335161.48	18335161.60	18335161.72	0.0142	0.0051
Mercury	45488-02-09 05:31 G	18335249.63	18335249.73	18335249.85	0.0142	0.0073
Mercury	45488-05-07 09:07 G	18335337.79	18335337.88	18335337.98	0.0142	0.0094
Mercury	45488-08-03 12:29 G	18335425.95	18335426.02	18335426.10	0.0142	0.0116
Mercury	45488-10-30 15:50 G	18335514.14	18335514.16	18335514.20	0.0142	0.0138
Venus	45499-01-28 09:36 G	18339255.83	18339255.90	18339256.00	0.0145	0.0132
Venus	45499-09-11 22:05 G	18339482.27	18339482.42	18339482.58	0.0145	0.0100
Venus	45500-04-26 10:34 G	18339708.75	18339708.94	18339709.13	0.0145	0.0068
Venus	45500-12-08 22:48 G	18339935.24	18339935.45	18339935.66	0.0145	0.0036
Venus	45501-07-23 11:02 G	18340161.75	18340161.96	18340162.18	0.0145	0.0005
Venus	45502-03-06 23:17 G	18340388.27	18340388.47	18340388.69	0.0145	0.0029
Venus	45502-10-19 12:00 G	18340614.80	18340615.00	18340615.20	0.0145	0.0060
Earth	45503-01-03 08:24 G	18340690.76	18340690.85	18340690.99	0.0145	0.0129
Moon	45503-01-03 08:53 G	18340690.77	18340690.87	18340691.02	0.0145	0.0128 *

Venus	45503-06-03 00:14 G	18340841.35	18340841.51	18340841.69	0.0145	0.0092
Moon	45504-01-08 11:02 G	18341060.73	18341060.96	18341061.21	0.0145	0.0039
Earth	45504-01-08 12:00 G	18341060.76	18341061.00	18341061.25	0.0145	0.0042 *
Venus	45504-01-15 12:29 G	18341067.92	18341068.02	18341068.15	0.0145	0.0124
Earth	45505-01-12 15:07 G	18341430.89	18341431.13	18341431.37	0.0145	0.0045
Moon	45505-01-12 17:17 G	18341430.97	18341431.22	18341431.48	0.0145	0.0038 *
Moon	45506-01-17 15:22 G	18341801.08	18341801.14	18341801.22	0.0145	0.0139
Earth	45506-01-17 17:31 G	18341801.13	18341801.23	18341801.35	0.0145	0.0131 *
Mars	45519-08-24 10:19 G	18346767.61	18346767.93	18346768.27	0.0140	0.0014
Mercury	45526-04-14 03:36 G	18349192.55	18349192.65	18349192.78	0.0137	0.0109
Mercury	45526-07-11 11:31 G	18349280.84	18349280.98	18349281.15	0.0137	0.0080
Mercury	45526-10-07 19:26 G	18349369.14	18349369.31	18349369.50	0.0137	0.0051
Mercury	45527-01-04 03:36 G	18349457.45	18349457.65	18349457.84	0.0137	0.0022
Mercury	45527-04-02 11:17 G	18349545.78	18349545.97	18349546.17	0.0137	0.0008
Mercury	45527-06-29 19:12 G	18349634.11	18349634.30	18349634.49	0.0137	0.0036
Mercury	45527-09-26 02:53 G	18349722.45	18349722.62	18349722.80	0.0136	0.0065
Mercury	45527-12-23 10:19 G	18349810.80	18349810.93	18349811.09	0.0136	0.0094
Mercury	45528-03-20 18:14 G	18349899.18	18349899.26	18349899.35	0.0136	0.0121
Venus	45540-08-09 01:26 G	18354423.48	18354423.56	18354423.67	0.0133	0.0120
Venus	45541-03-23 07:12 G	18354649.65	18354649.80	18354649.95	0.0133	0.0095
Venus	45541-11-04 12:14 G	18354875.83	18354876.01	18354876.20	0.0133	0.0070
Venus	45542-06-18 17:31 G	18355102.03	18355102.23	18355102.44	0.0133	0.0046
Venus	45543-01-30 22:34 G	18355328.23	18355328.44	18355328.66	0.0133	0.0021
Venus	45543-09-14 03:50 G	18355554.45	18355554.66	18355554.88	0.0133	0.0004
Venus	45544-04-27 09:07 G	18355780.67	18355780.88	18355781.10	0.0133	0.0029
Venus	45544-12-09 14:10 G	18356006.90	18356007.09	18356007.30	0.0133	0.0054
Moon	45545-07-04 15:36 G	18356213.99	18356214.15	18356214.33	0.0133	0.0096
Earth	45545-07-04 18:29 G	18356214.12	18356214.27	18356214.46	0.0133	0.0099 *
Venus	45545-07-23 19:41 G	18356233.14	18356233.32	18356233.50	0.0133	0.0078
Venus	45546-03-07 00:29 G	18356459.40	18356459.52	18356459.68	0.0133	0.0103

Earth	45546-07-09 00:29 G	18356583.28	18356583.52	18356583.77	0.0133	0.0033
Moon	45546-07-09 04:05 G	18356583.43	18356583.67	18356583.92	0.0133	0.0032 *
Venus	45546-10-19 06:00 G	18356685.69	18356685.75	18356685.82	0.0133	0.0127
Moon	45547-07-13 03:22 G	18356952.40	18356952.64	18356952.89	0.0133	0.0031
Earth	45547-07-13 06:43 G	18356952.54	18356952.78	18356953.03	0.0133	0.0033 *
Earth	45548-07-16 12:29 G	18357321.87	18357322.02	18357322.21	0.0134	0.0100
Moon	45548-07-16 16:19 G	18357322.02	18357322.18	18357322.33	0.0134	0.0105 *
Mars	45563-12-05 03:36 G	18362941.37	18362941.65	18362941.94	0.0138	0.0025
Mercury	45569-10-02 04:05 G	18365069.63	18365069.67	18365069.72	0.0141	0.0131
Mercury	45569-12-29 07:26 G	18365157.73	18365157.81	18365157.89	0.0141	0.0110
Mercury	45570-03-27 10:48 G	18365245.85	18365245.95	18365246.05	0.0141	0.0089
Mercury	45570-06-23 14:10 G	18365333.97	18365334.09	18365334.20	0.0141	0.0069
Mercury	45570-09-19 17:17 G	18365422.10	18365422.22	18365422.35	0.0141	0.0048
Mercury	45570-12-16 20:38 G	18365510.24	18365510.36	18365510.49	0.0142	0.0027
Mercury	45571-03-15 00:00 G	18365598.37	18365598.50	18365598.63	0.0142	0.0006
Mercury	45571-06-11 03:22 G	18365686.51	18365686.64	18365686.77	0.0142	0.0016
Mercury	45571-09-07 06:43 G	18365774.66	18365774.78	18365774.91	0.0142	0.0037
Mercury	45571-12-04 10:05 G	18365862.80	18365862.92	18365863.04	0.0142	0.0059
Mercury	45572-03-01 13:26 G	18365950.96	18365951.06	18365951.17	0.0142	0.0080
Mercury	45572-05-28 16:48 G	18366039.11	18366039.20	18366039.29	0.0142	0.0102
Mercury	45572-08-24 20:24 G	18366127.28	18366127.35	18366127.41	0.0142	0.0124
Venus	45582-09-28 17:46 G	18369814.22	18369814.24	18369814.28	0.0145	0.0143
Venus	45583-05-13 06:00 G	18370040.62	18370040.75	18370040.90	0.0145	0.0112
Venus	45583-12-25 18:14 G	18370267.09	18370267.26	18370267.45	0.0145	0.0081
Venus	45584-08-08 06:43 G	18370493.58	18370493.78	18370493.99	0.0145	0.0048
Venus	45585-03-22 19:12 G	18370720.08	18370720.30	18370720.52	0.0145	0.0016
Venus	45585-11-04 07:41 G	18370946.61	18370946.82	18370947.04	0.0145	0.0016
Venus	45586-06-18 20:10 G	18371173.14	18371173.34	18371173.55	0.0145	0.0048
Moon	45587-01-03 21:50 G	18371372.29	18371372.41	18371372.56	0.0145	0.0123
Earth	45587-01-03 22:05 G	18371372.30	18371372.42	18371372.58	0.0145	0.0122 *

Venus	45587-01-31 08:38 G	18371399.68	18371399.86	18371400.04	0.0145	0.0081
Venus	45587-09-14 21:07 G	18371626.24	18371626.38	18371626.52	0.0145	0.0112
Moon	45588-01-09 01:12 G	18371742.31	18371742.55	18371742.79	0.0145	0.0038
Earth	45588-01-09 01:41 G	18371742.33	18371742.57	18371742.83	0.0145	0.0035 *
Venus	45588-04-28 09:22 G	18371852.88	18371852.89	18371852.92	0.0145	0.0144
Earth	45589-01-13 05:02 G	18372112.47	18372112.71	18372112.95	0.0145	0.0052
Moon	45589-01-13 06:00 G	18372112.51	18372112.75	18372112.99	0.0145	0.0058 *
Moon	45590-01-18 05:17 G	18372482.64	18372482.72	18372482.84	0.0145	0.0132
Earth	45590-01-18 07:26 G	18372482.76	18372482.81	18372482.90	0.0145	0.0139 *
Mercury	45610-02-05 04:48 G	18379805.63	18379805.70	18379805.79	0.0137	0.0125
Mercury	45610-05-04 12:43 G	18379893.90	18379894.03	18379894.18	0.0137	0.0096
Mercury	45610-07-31 20:38 G	18379982.20	18379982.36	18379982.54	0.0137	0.0067
Mercury	45610-10-28 04:34 G	18380070.51	18380070.69	18380070.89	0.0137	0.0038
Mercury	45611-01-24 12:29 G	18380158.83	18380159.02	18380159.22	0.0137	0.0009
Mercury	45611-04-22 20:10 G	18380247.15	18380247.34	18380247.54	0.0137	0.0021
Mercury	45611-07-20 03:50 G	18380335.49	18380335.66	18380335.86	0.0137	0.0050
Mercury	45611-10-16 11:46 G	18380423.84	18380423.99	18380424.16	0.0136	0.0078
Mercury	45612-01-12 19:26 G	18380512.20	18380512.31	18380512.44	0.0136	0.0106
Mercury	45612-04-10 03:07 G	18380600.61	18380600.63	18380600.67	0.0136	0.0135
Venus	45624-04-08 14:38 G	18384982.05	18384982.11	18384982.19	0.0133	0.0126
Venus	45624-11-20 19:41 G	18385208.20	18385208.32	18385208.48	0.0133	0.0103
Venus	45625-07-05 01:12 G	18385434.38	18385434.55	18385434.73	0.0133	0.0078
Venus	45626-02-16 06:14 G	18385660.57	18385660.76	18385660.97	0.0133	0.0053
Venus	45626-09-30 11:46 G	18385886.77	18385886.99	18385887.20	0.0133	0.0029
Venus	45627-05-14 16:48 G	18386112.99	18386113.20	18386113.42	0.0133	0.0005
Venus	45627-12-26 22:05 G	18386339.21	18386339.42	18386339.64	0.0133	0.0021
Venus	45628-08-09 03:07 G	18386565.43	18386565.63	18386565.84	0.0133	0.0046
Venus	45629-03-23 08:24 G	18386791.67	18386791.85	18386792.04	0.0133	0.0070
Moon	45629-07-05 06:29 G	18386895.60	18386895.77	18386895.95	0.0133	0.0094
Earth	45629-07-05 09:22 G	18386895.73	18386895.89	18386896.09	0.0133	0.0092 *

Venus	45629-11-04 13:26 G	18387017.92	18387018.06	18387018.23	0.0133	0.0095
Venus	45630-06-18 18:43 G	18387244.20	18387244.28	18387244.39	0.0133	0.0119
Earth	45630-07-09 15:22 G	18387264.90	18387265.14	18387265.40	0.0133	0.0026
Moon	45630-07-09 18:29 G	18387265.02	18387265.27	18387265.53	0.0133	0.0025 *
Moon	45631-07-13 18:14 G	18387634.04	18387634.26	18387634.51	0.0133	0.0043
Earth	45631-07-13 21:22 G	18387634.16	18387634.39	18387634.64	0.0133	0.0040 *
Earth	45632-07-17 03:07 G	18388003.49	18388003.63	18388003.80	0.0133	0.0107
Moon	45632-07-17 06:29 G	18388003.62	18388003.77	18388003.95	0.0133	0.0101 *
Mercury	45653-10-22 11:46 G	18395770.93	18395770.99	18395771.05	0.0141	0.0124
Mercury	45654-01-18 15:07 G	18395859.04	18395859.13	18395859.22	0.0141	0.0103
Mercury	45654-04-16 18:29 G	18395947.16	18395947.27	18395947.37	0.0141	0.0082
Mercury	45654-07-13 21:36 G	18396035.29	18396035.40	18396035.52	0.0141	0.0062
Mercury	45654-10-10 00:58 G	18396123.42	18396123.54	18396123.67	0.0141	0.0041
Mercury	45655-01-06 04:19 G	18396211.56	18396211.68	18396211.81	0.0142	0.0020
Mercury	45655-04-04 07:41 G	18396299.69	18396299.82	18396299.95	0.0142	0.0004
Mercury	45655-07-01 11:02 G	18396387.83	18396387.96	18396388.09	0.0142	0.0024
Mercury	45655-09-27 14:24 G	18396475.98	18396476.10	18396476.23	0.0142	0.0045
Mercury	45655-12-24 17:46 G	18396564.13	18396564.24	18396564.36	0.0142	0.0066
Mercury	45656-03-21 21:07 G	18396652.28	18396652.38	18396652.49	0.0142	0.0088
Mercury	45656-06-18 00:29 G	18396740.44	18396740.52	18396740.61	0.0142	0.0110
Mercury	45656-09-14 03:50 G	18396828.62	18396828.66	18396828.72	0.0142	0.0131
Venus	45667-01-10 14:10 G	18400598.98	18400599.09	18400599.20	0.0145	0.0124
Venus	45667-08-25 02:10 G	18400825.43	18400825.59	18400825.77	0.0145	0.0092
Venus	45668-04-07 14:38 G	18401051.92	18401052.11	18401052.32	0.0145	0.0060
Venus	45668-11-20 03:07 G	18401278.42	18401278.63	18401278.85	0.0145	0.0028
Venus	45669-07-04 15:36 G	18401504.94	18401505.15	18401505.37	0.0145	0.0006
Venus	45670-02-16 04:05 G	18401731.46	18401731.67	18401731.89	0.0145	0.0037
Venus	45670-09-30 16:34 G	18401958.01	18401958.19	18401958.39	0.0145	0.0069
Moon	45671-01-04 10:48 G	18402053.80	18402053.95	18402054.13	0.0145	0.0113
Earth	45671-01-04 11:46 G	18402053.85	18402053.99	18402054.15	0.0145	0.0115 *

Venus	45671-05-15 05:02 G	18402184.57	18402184.71	18402184.88	0.0145	0.0101
Venus	45671-12-27 17:17 G	18402411.15	18402411.22	18402411.32	0.0145	0.0133
Earth	45672-01-09 15:22 G	18402423.89	18402424.14	18402424.40	0.0145	0.0028
Moon	45672-01-09 15:50 G	18402423.92	18402424.16	18402424.40	0.0145	0.0026 *
Earth	45673-01-13 18:29 G	18402794.04	18402794.27	18402794.51	0.0145	0.0059
Moon	45673-01-13 19:26 G	18402794.07	18402794.31	18402794.57	0.0145	0.0052 *
Earth	45674-01-18 21:22 G	18403164.39	18403164.39	18403164.39	0.0145	0.0145
Mars	45687-01-10 00:29 G	18407903.30	18407903.52	18407903.79	0.0140	0.0092
Mercury	45694-02-25 13:41 G	18410506.97	18410507.07	18410507.19	0.0137	0.0112
Mercury	45694-05-24 21:36 G	18410595.25	18410595.40	18410595.57	0.0137	0.0083
Mercury	45694-08-21 05:31 G	18410683.56	18410683.73	18410683.92	0.0137	0.0054
Mercury	45694-11-17 13:26 G	18410771.87	18410772.06	18410772.26	0.0137	0.0025
Mercury	45695-02-13 21:22 G	18410860.20	18410860.39	18410860.59	0.0137	0.0005
Mercury	45695-05-13 05:02 G	18410948.53	18410948.71	18410948.91	0.0137	0.0034
Mercury	45695-08-09 12:58 G	18411036.87	18411037.04	18411037.22	0.0137	0.0062
Mercury	45695-11-05 20:38 G	18411125.22	18411125.36	18411125.51	0.0136	0.0091
Mercury	45696-02-02 04:05 G	18411213.60	18411213.67	18411213.78	0.0136	0.0120
Venus	45708-07-22 08:38 G	18415766.75	18415766.86	18415766.99	0.0133	0.0109
Venus	45709-03-05 13:55 G	18415992.92	18415993.08	18415993.26	0.0133	0.0085
Venus	45709-10-17 19:12 G	18416219.12	18416219.30	18416219.50	0.0133	0.0061
Venus	45710-06-01 00:29 G	18416445.32	18416445.52	18416445.74	0.0133	0.0036
Venus	45711-01-13 05:46 G	18416671.52	18416671.74	18416671.96	0.0133	0.0011
Venus	45711-08-27 10:48 G	18416897.74	18416897.95	18416898.17	0.0133	0.0014
Venus	45712-04-09 16:19 G	18417123.97	18417124.18	18417124.39	0.0133	0.0038
Venus	45712-11-21 21:22 G	18417350.20	18417350.39	18417350.59	0.0133	0.0063
Venus	45713-07-06 02:38 G	18417576.45	18417576.61	18417576.77	0.0133	0.0087
Moon	45713-07-06 22:05 G	18417577.24	18417577.42	18417577.63	0.0133	0.0082
Earth	45713-07-07 00:29 G	18417577.34	18417577.52	18417577.73	0.0133	0.0085 *
Venus	45714-02-17 07:26 G	18417802.71	18417802.81	18417802.94	0.0133	0.0112
Earth	45714-07-11 06:29 G	18417946.52	18417946.77	18417947.02	0.0133	0.0019

Moon	45714-07-11 09:22 G	18417946.64	18417946.89	18417947.15	0.0133	0.0019 *
Moon	45715-07-15 09:22 G	18418315.66	18418315.89	18418316.13	0.0133	0.0045
Earth	45715-07-15 12:00 G	18418315.77	18418316.00	18418316.24	0.0133	0.0047 *
Earth	45716-07-18 17:46 G	18418685.12	18418685.24	18418685.38	0.0133	0.0113
Moon	45716-07-18 20:24 G	18418685.24	18418685.35	18418685.49	0.0133	0.0117 *
Mars	45731-04-25 04:48 G	18424078.47	18424078.70	18424078.96	0.0138	0.0071
Mercury	45737-08-16 15:50 G	18426384.15	18426384.16	18426384.18	0.0141	0.0139
Mercury	45737-11-12 18:58 G	18426472.23	18426472.29	18426472.37	0.0141	0.0119
Mercury	45738-02-08 22:19 G	18426560.34	18426560.43	18426560.53	0.0141	0.0098
Mercury	45738-05-08 01:41 G	18426648.47	18426648.57	18426648.68	0.0141	0.0077
Mercury	45738-08-04 05:02 G	18426736.59	18426736.71	18426736.83	0.0141	0.0056
Mercury	45738-10-31 08:24 G	18426824.72	18426824.85	18426824.98	0.0141	0.0035
Mercury	45739-01-27 11:46 G	18426912.86	18426912.99	18426913.12	0.0141	0.0014
Mercury	45739-04-25 15:07 G	18427001.00	18427001.13	18427001.26	0.0142	0.0007
Mercury	45739-07-22 18:29 G	18427089.14	18427089.27	18427089.40	0.0142	0.0029
Mercury	45739-10-18 21:50 G	18427177.29	18427177.41	18427177.53	0.0142	0.0050
Mercury	45740-01-15 00:58 G	18427265.44	18427265.54	18427265.66	0.0142	0.0072
Mercury	45740-04-12 04:34 G	18427353.59	18427353.69	18427353.79	0.0142	0.0093
Mercury	45740-07-09 07:55 G	18427441.76	18427441.83	18427441.91	0.0142	0.0114
Mercury	45740-10-05 11:17 G	18427529.94	18427529.97	18427530.01	0.0142	0.0136
Venus	45750-09-10 18:43 G	18431157.23	18431157.28	18431157.37	0.0145	0.0137
Venus	45751-04-25 07:12 G	18431383.67	18431383.80	18431383.96	0.0145	0.0106
Venus	45751-12-07 19:41 G	18431610.14	18431610.32	18431610.52	0.0145	0.0073
Venus	45752-07-21 08:10 G	18431836.63	18431836.84	18431837.05	0.0145	0.0041
Venus	45753-03-04 20:38 G	18432063.14	18432063.36	18432063.58	0.0145	0.0009
Venus	45753-10-17 09:22 G	18432289.67	18432289.89	18432290.10	0.0145	0.0023
Venus	45754-05-31 21:36 G	18432516.21	18432516.40	18432516.61	0.0145	0.0056
Moon	45755-01-05 18:29 G	18432735.12	18432735.27	18432735.43	0.0145	0.0116
Earth	45755-01-05 19:55 G	18432735.19	18432735.33	18432735.51	0.0145	0.0114 *
Venus	45755-01-13 10:05 G	18432742.76	18432742.92	18432743.10	0.0145	0.0088

Venus	45755-08-27 22:19 G	18432969.33	18432969.43	18432969.57	0.0145	0.0120
Earth	45756-01-10 23:46 G	18433105.25	18433105.49	18433105.75	0.0145	0.0026
Moon	45756-01-11 00:29 G	18433105.28	18433105.52	18433105.77	0.0145	0.0028 *
Moon	45757-01-15 02:24 G	18433475.37	18433475.60	18433475.84	0.0145	0.0066
Earth	45757-01-15 02:53 G	18433475.39	18433475.62	18433475.86	0.0145	0.0061 *
Moon	45758-01-20 04:19 G	18433845.65	18433845.68	18433845.76	0.0145	0.0141
Mars	45771-09-06 23:02 G	18438823.23	18438823.46	18438823.70	0.0140	0.0097
Mercury	45777-12-20 13:41 G	18441120.03	18441120.07	18441120.12	0.0137	0.0133
Mercury	45778-03-18 21:22 G	18441208.28	18441208.39	18441208.53	0.0137	0.0104
Mercury	45778-06-15 05:17 G	18441296.57	18441296.72	18441296.90	0.0137	0.0075
Mercury	45778-09-11 13:26 G	18441384.88	18441385.06	18441385.25	0.0137	0.0045
Mercury	45778-12-08 21:22 G	18441473.20	18441473.39	18441473.59	0.0137	0.0015
Mercury	45779-03-07 05:17 G	18441561.53	18441561.72	18441561.92	0.0137	0.0014
Mercury	45779-06-03 12:58 G	18441649.86	18441650.04	18441650.23	0.0137	0.0043
Mercury	45779-08-30 20:38 G	18441738.21	18441738.36	18441738.54	0.0137	0.0072
Mercury	45779-11-27 04:19 G	18441826.57	18441826.68	18441826.83	0.0137	0.0101
Mercury	45780-02-23 12:14 G	18441914.96	18441915.01	18441915.08	0.0136	0.0129
Venus	45792-03-21 21:07 G	18446325.28	18446325.38	18446325.49	0.0133	0.0117
Venus	45792-11-03 02:10 G	18446551.45	18446551.59	18446551.77	0.0133	0.0093
Venus	45793-06-17 07:41 G	18446777.64	18446777.82	18446778.01	0.0133	0.0068
Venus	45794-01-29 12:43 G	18447003.84	18447004.03	18447004.25	0.0133	0.0044
Venus	45794-09-12 18:14 G	18447230.05	18447230.26	18447230.48	0.0133	0.0018
Venus	45795-04-26 23:31 G	18447456.27	18447456.48	18447456.70	0.0133	0.0007
Venus	45795-12-09 04:48 G	18447682.49	18447682.70	18447682.91	0.0133	0.0031
Venus	45796-07-22 09:50 G	18447908.72	18447908.91	18447909.11	0.0133	0.0056
Venus	45797-03-05 15:07 G	18448134.96	18448135.13	18448135.31	0.0133	0.0080
Moon	45797-07-07 12:29 G	18448258.84	18448259.02	18448259.23	0.0133	0.0083
Earth	45797-07-07 15:07 G	18448258.94	18448259.13	18448259.34	0.0133	0.0079 *
Venus	45797-10-17 19:55 G	18448361.22	18448361.33	18448361.48	0.0133	0.0105
Venus	45798-06-01 01:12 G	18448587.52	18448587.55	18448587.62	0.0133	0.0130

Earth	45798-07-11 20:53 G	18448628.11	18448628.37	18448628.62	0.0133	0.0014
Moon	45798-07-11 22:48 G	18448628.20	18448628.45	18448628.71	0.0133	0.0012 *
Moon	45799-07-16 00:00 G	18448997.28	18448997.50	18448997.73	0.0133	0.0055
Earth	45799-07-16 02:24 G	18448997.37	18448997.60	18448997.84	0.0133	0.0052 *
Earth	45800-07-20 07:55 G	18449366.73	18449366.83	18449366.96	0.0133	0.0119
Moon	45800-07-20 10:19 G	18449366.82	18449366.93	18449367.09	0.0133	0.0114 *
Mars	45815-12-19 22:48 G	18454997.24	18454997.45	18454997.68	0.0138	0.0088
Mercury	45821-09-06 23:31 G	18457085.44	18457085.48	18457085.52	0.0141	0.0132
Mercury	45821-12-04 02:38 G	18457173.54	18457173.61	18457173.69	0.0141	0.0112
Mercury	45822-03-02 06:00 G	18457261.66	18457261.75	18457261.85	0.0141	0.0091
Mercury	45822-05-29 09:22 G	18457349.78	18457349.89	18457350.01	0.0141	0.0070
Mercury	45822-08-25 12:43 G	18457437.91	18457438.03	18457438.15	0.0141	0.0049
Mercury	45822-11-21 16:05 G	18457526.04	18457526.17	18457526.30	0.0141	0.0028
Mercury	45823-02-17 19:26 G	18457614.18	18457614.31	18457614.44	0.0141	0.0007
Mercury	45823-05-16 22:48 G	18457702.32	18457702.45	18457702.58	0.0141	0.0015
Mercury	45823-08-13 02:10 G	18457790.46	18457790.59	18457790.71	0.0142	0.0036
Mercury	45823-11-09 05:31 G	18457878.61	18457878.73	18457878.85	0.0142	0.0057
Mercury	45824-02-05 08:38 G	18457966.76	18457966.86	18457966.97	0.0142	0.0079
Mercury	45824-05-03 12:00 G	18458054.92	18458055.00	18458055.10	0.0142	0.0100
Mercury	45824-07-30 15:36 G	18458143.08	18458143.15	18458143.21	0.0142	0.0121
Venus	45834-12-24 13:55 G	18461941.96	18461942.08	18461942.21	0.0145	0.0117
Venus	45835-08-08 01:55 G	18462168.42	18462168.58	18462168.77	0.0145	0.0086
Venus	45836-03-21 14:38 G	18462394.91	18462395.11	18462395.31	0.0145	0.0054
Venus	45836-11-03 03:07 G	18462621.42	18462621.63	18462621.85	0.0145	0.0021
Venus	45837-06-17 15:36 G	18462847.93	18462848.15	18462848.37	0.0145	0.0011
Venus	45838-01-30 03:50 G	18463074.46	18463074.66	18463074.88	0.0145	0.0043
Venus	45838-09-13 16:19 G	18463301.00	18463301.18	18463301.37	0.0145	0.0076
Moon	45839-01-07 04:19 G	18463416.51	18463416.68	18463416.87	0.0145	0.0106
Earth	45839-01-07 06:29 G	18463416.62	18463416.77	18463416.95	0.0145	0.0110 *
Venus	45839-04-28 04:48 G	18463527.56	18463527.70	18463527.85	0.0145	0.0107

Venus	45839-12-10 17:02 G	18463754.17	18463754.21	18463754.28	0.0145	0.0139
Earth	45840-01-12 10:05 G	18463786.67	18463786.92	18463787.17	0.0145	0.0022
Moon	45840-01-12 11:46 G	18463786.75	18463786.99	18463787.24	0.0145	0.0023 *
Moon	45841-01-16 12:14 G	18464156.78	18464157.01	18464157.26	0.0145	0.0059
Earth	45841-01-16 12:43 G	18464156.82	18464157.03	18464157.27	0.0145	0.0065 *
Mercury	45862-01-10 20:53 G	18471821.31	18471821.37	18471821.47	0.0137	0.0125
Mercury	45862-04-09 05:02 G	18471909.58	18471909.71	18471909.86	0.0137	0.0095
Mercury	45862-07-06 12:58 G	18471997.88	18471998.04	18471998.22	0.0137	0.0065
Mercury	45862-10-02 20:53 G	18472086.19	18472086.37	18472086.57	0.0137	0.0036
Mercury	45862-12-30 05:02 G	18472174.51	18472174.71	18472174.91	0.0137	0.0007
Mercury	45863-03-28 12:43 G	18472262.84	18472263.03	18472263.23	0.0137	0.0023
Mercury	45863-06-24 20:38 G	18472351.18	18472351.36	18472351.55	0.0137	0.0052
Mercury	45863-09-21 04:19 G	18472439.53	18472439.68	18472439.85	0.0137	0.0081
Mercury	45863-12-18 12:00 G	18472527.90	18472528.00	18472528.13	0.0137	0.0110
Venus	45875-11-21 08:38 G	18476883.80	18476883.86	18476883.96	0.0133	0.0125
Venus	45876-07-04 13:55 G	18477109.96	18477110.08	18477110.24	0.0133	0.0101
Venus	45877-02-15 19:26 G	18477336.14	18477336.31	18477336.50	0.0133	0.0076
Venus	45877-09-30 00:58 G	18477562.34	18477562.54	18477562.75	0.0133	0.0051
Venus	45878-05-14 06:14 G	18477788.56	18477788.76	18477788.98	0.0133	0.0027
Venus	45878-12-26 11:46 G	18478014.77	18478014.99	18478015.21	0.0133	0.0001
Venus	45879-08-09 16:48 G	18478240.99	18478241.20	18478241.42	0.0133	0.0024
Venus	45880-03-22 22:05 G	18478467.22	18478467.42	18478467.63	0.0133	0.0049
Venus	45880-11-04 03:07 G	18478693.46	18478693.63	18478693.83	0.0133	0.0074
Venus	45881-06-18 08:38 G	18478919.71	18478919.86	18478920.01	0.0133	0.0098
Moon	45881-07-09 03:22 G	18478940.45	18478940.64	18478940.87	0.0133	0.0070
Earth	45881-07-09 05:02 G	18478940.51	18478940.71	18478940.93	0.0133	0.0074 *
Venus	45882-01-30 13:26 G	18479145.99	18479146.06	18479146.16	0.0133	0.0122
Earth	45882-07-13 10:34 G	18479309.69	18479309.94	18479310.20	0.0133	0.0008
Moon	45882-07-13 12:43 G	18479309.77	18479310.03	18479310.29	0.0133	0.0009 *
Moon	45883-07-17 14:24 G	18479678.89	18479679.10	18479679.33	0.0133	0.0057

Earth	45883-07-17 16:05 G	18479678.95	18479679.17	18479679.41	0.0133	0.0058 *
Earth	45884-07-20 22:05 G	18480048.33	18480048.42	18480048.52	0.0134	0.0124
Moon	45884-07-20 23:46 G	18480048.43	18480048.49	18480048.57	0.0134	0.0128 *
Mercury	45905-09-28 07:12 G	18487786.75	18487786.80	18487786.86	0.0141	0.0124
Mercury	45905-12-25 10:34 G	18487874.86	18487874.94	18487875.03	0.0141	0.0104
Mercury	45906-03-23 13:55 G	18487962.97	18487963.08	18487963.18	0.0141	0.0083
Mercury	45906-06-19 17:02 G	18488051.10	18488051.21	18488051.33	0.0141	0.0062
Mercury	45906-09-15 20:24 G	18488139.23	18488139.35	18488139.48	0.0141	0.0041
Mercury	45906-12-12 23:46 G	18488227.36	18488227.49	18488227.62	0.0141	0.0020
Mercury	45907-03-11 03:07 G	18488315.50	18488315.63	18488315.76	0.0141	0.0001
Mercury	45907-06-07 06:29 G	18488403.64	18488403.77	18488403.90	0.0141	0.0022
Mercury	45907-09-03 09:50 G	18488491.78	18488491.91	18488492.03	0.0141	0.0043
Mercury	45907-11-30 13:12 G	18488579.93	18488580.05	18488580.16	0.0142	0.0065
Mercury	45908-02-26 16:34 G	18488668.09	18488668.19	18488668.29	0.0142	0.0086
Mercury	45908-05-24 19:41 G	18488756.25	18488756.32	18488756.41	0.0142	0.0108
Mercury	45908-08-20 23:02 G	18488844.42	18488844.46	18488844.52	0.0142	0.0129
Venus	45918-08-24 20:38 G	18492500.28	18492500.36	18492500.47	0.0145	0.0129
Venus	45919-04-08 08:53 G	18492726.72	18492726.87	18492727.04	0.0145	0.0098
Venus	45919-11-20 21:07 G	18492953.20	18492953.38	18492953.59	0.0145	0.0066
Venus	45920-07-04 09:36 G	18493179.69	18493179.90	18493180.12	0.0145	0.0034
Venus	45921-02-15 22:05 G	18493406.20	18493406.42	18493406.64	0.0145	0.0002
Venus	45921-09-30 10:19 G	18493632.72	18493632.93	18493633.15	0.0145	0.0031
Venus	45922-05-14 22:48 G	18493859.26	18493859.45	18493859.65	0.0145	0.0063
Venus	45922-12-27 11:02 G	18494085.80	18494085.96	18494086.13	0.0145	0.0095
Moon	45923-01-08 13:41 G	18494097.92	18494098.07	18494098.26	0.0145	0.0112
Earth	45923-01-08 16:34 G	18494098.04	18494098.19	18494098.39	0.0145	0.0107 *
Venus	45923-08-10 23:02 G	18494312.38	18494312.46	18494312.58	0.0145	0.0127
Earth	45924-01-13 20:10 G	18494468.09	18494468.34	18494468.60	0.0145	0.0019
Moon	45924-01-13 22:05 G	18494468.18	18494468.42	18494468.67	0.0145	0.0020 *
Moon	45925-01-17 20:38 G	18494838.14	18494838.36	18494838.60	0.0145	0.0071

Earth	45925-01-17 22:34 G	18494838.23	18494838.44	18494838.68	0.0145	0.0068 *
Mars	45939-01-24 16:34 G	18499957.88	18499958.19	18499958.52	0.0141	0.0036
Mercury	45946-02-01 04:19 G	18502522.59	18502522.68	18502522.80	0.0137	0.0117
Mercury	45946-04-30 12:29 G	18502610.87	18502611.02	18502611.18	0.0137	0.0087
Mercury	45946-07-27 20:24 G	18502699.18	18502699.35	18502699.53	0.0137	0.0057
Mercury	45946-10-24 04:19 G	18502787.49	18502787.68	18502787.88	0.0137	0.0028
Mercury	45947-01-20 12:29 G	18502875.82	18502876.02	18502876.21	0.0137	0.0003
Mercury	45947-04-18 20:10 G	18502964.15	18502964.34	18502964.54	0.0137	0.0031
Mercury	45947-07-16 03:50 G	18503052.50	18503052.66	18503052.85	0.0137	0.0060
Mercury	45947-10-12 11:46 G	18503140.85	18503140.99	18503141.15	0.0137	0.0089
Mercury	45948-01-08 19:26 G	18503229.23	18503229.31	18503229.42	0.0137	0.0118
Venus	45959-07-22 20:10 G	18507442.33	18507442.34	18507442.38	0.0134	0.0133
Venus	45960-03-05 01:41 G	18507668.46	18507668.57	18507668.71	0.0134	0.0108
Venus	45960-10-17 07:12 G	18507894.64	18507894.80	18507894.98	0.0133	0.0084
Venus	45961-05-31 12:43 G	18508120.84	18508121.03	18508121.23	0.0133	0.0059
Venus	45962-01-12 18:14 G	18508347.05	18508347.26	18508347.47	0.0133	0.0034
Venus	45962-08-26 23:31 G	18508573.27	18508573.48	18508573.70	0.0133	0.0009
Venus	45963-04-10 04:48 G	18508799.49	18508799.70	18508799.92	0.0133	0.0017
Venus	45963-11-22 10:05 G	18509025.72	18509025.92	18509026.13	0.0133	0.0041
Venus	45964-07-05 15:22 G	18509251.95	18509252.14	18509252.33	0.0133	0.0066
Moon	45964-07-06 13:26 G	18509253.01	18509253.06	18509253.16	0.0133	0.0128
Venus	45965-02-16 20:10 G	18509478.20	18509478.34	18509478.52	0.0133	0.0091
Moon	45965-07-10 17:02 G	18509622.02	18509622.21	18509622.43	0.0133	0.0073
Earth	45965-07-10 18:29 G	18509622.07	18509622.27	18509622.50	0.0133	0.0068 *
Venus	45965-10-01 01:41 G	18509704.47	18509704.57	18509704.68	0.0133	0.0115
Earth	45966-07-15 00:14 G	18509991.26	18509991.51	18509991.76	0.0133	0.0002
Moon	45966-07-15 01:12 G	18509991.29	18509991.55	18509991.82	0.0133	0.0002 *
Moon	45967-07-19 04:34 G	18510360.48	18510360.69	18510360.91	0.0133	0.0065
Earth	45967-07-19 05:46 G	18510360.53	18510360.74	18510360.97	0.0133	0.0064 *
Earth	45968-07-22 11:31 G	18510729.94	18510729.98	18510730.06	0.0134	0.0130

Moon	45968-07-22 12:58 G	18510729.98	18510730.04	18510730.15	0.0134	0.0126	*
Mars	45983-05-10 06:43 G	18516134.49	18516134.78	18516135.07	0.0138	0.0002	
Mercury	45989-07-22 12:00 G	18518399.97	18518400.00	18518400.03	0.0141	0.0136	
Mercury	45989-10-18 15:07 G	18518488.07	18518488.13	18518488.21	0.0141	0.0116	
Mercury	45990-01-14 18:29 G	18518576.18	18518576.27	18518576.37	0.0141	0.0095	
Mercury	45990-04-12 21:50 G	18518664.30	18518664.41	18518664.52	0.0141	0.0074	
Mercury	45990-07-10 01:12 G	18518752.43	18518752.55	18518752.67	0.0141	0.0053	
Mercury	45990-10-06 04:34 G	18518840.56	18518840.69	18518840.82	0.0141	0.0032	
Mercury	45991-01-02 07:55 G	18518928.70	18518928.83	18518928.96	0.0141	0.0012	
Mercury	45991-03-31 11:02 G	18519016.84	18519016.96	18519017.10	0.0141	0.0011	
Mercury	45991-06-27 14:24 G	18519104.98	18519105.10	18519105.23	0.0141	0.0031	
Mercury	45991-09-23 17:46 G	18519193.12	18519193.24	18519193.36	0.0141	0.0053	
Mercury	45991-12-20 21:07 G	18519281.27	18519281.38	18519281.49	0.0142	0.0074	
Mercury	45992-03-18 00:29 G	18519369.43	18519369.52	18519369.62	0.0142	0.0095	
Mercury	45992-06-14 03:50 G	18519457.59	18519457.66	18519457.74	0.0142	0.0117	
Mercury	45992-09-10 07:12 G	18519545.78	18519545.80	18519545.83	0.0142	0.0138	

47TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 47th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	46002-04-24 06:00 G		18523058.71	18523058.75	18523058.82	0.0145	0.0140	
Venus	46002-12-06 18:29 G		18523285.13	18523285.27	18523285.41	0.0145	0.0108	
Venus	46003-07-21 06:43 G		18523511.59	18523511.78	18523511.96	0.0145	0.0076	

Venus	46004-03-03 18:58 G	18523738.08	18523738.29	18523738.50	0.0145	0.0044
Venus	46004-10-16 07:26 G	18523964.59	18523964.81	18523965.03	0.0145	0.0012
Venus	46005-05-30 19:41 G	18524191.11	18524191.32	18524191.54	0.0145	0.0020
Venus	46006-01-12 07:55 G	18524417.63	18524417.83	18524418.04	0.0145	0.0052
Venus	46006-08-26 20:10 G	18524644.17	18524644.34	18524644.52	0.0145	0.0084
Moon	46007-01-09 04:48 G	18524779.51	18524779.70	18524779.91	0.0145	0.0093
Earth	46007-01-09 07:55 G	18524779.65	18524779.83	18524780.03	0.0145	0.0098 *
Venus	46007-04-10 08:24 G	18524870.73	18524870.85	18524870.98	0.0145	0.0116
Earth	46008-01-14 10:48 G	18525149.70	18525149.95	18525150.21	0.0145	0.0012
Moon	46008-01-14 13:41 G	18525149.83	18525150.07	18525150.32	0.0145	0.0013 *
Moon	46009-01-18 11:31 G	18525519.76	18525519.98	18525520.22	0.0145	0.0071
Earth	46009-01-18 13:26 G	18525519.85	18525520.06	18525520.29	0.0145	0.0075 *
Mercury	46029-11-25 04:48 G	18533135.67	18533135.70	18533135.74	0.0137	0.0135
Mercury	46030-02-21 12:29 G	18533223.91	18533224.02	18533224.16	0.0137	0.0106
Mercury	46030-05-20 20:53 G	18533312.21	18533312.37	18533312.53	0.0137	0.0076
Mercury	46030-08-17 04:34 G	18533400.52	18533400.69	18533400.89	0.0137	0.0047
Mercury	46030-11-13 12:43 G	18533488.83	18533489.03	18533489.23	0.0137	0.0017
Mercury	46031-02-09 20:38 G	18533577.16	18533577.36	18533577.56	0.0137	0.0013
Mercury	46031-05-09 04:19 G	18533665.50	18533665.68	18533665.88	0.0137	0.0042
Mercury	46031-08-05 12:14 G	18533753.85	18533754.01	18533754.18	0.0137	0.0071
Mercury	46031-11-01 19:55 G	18533842.21	18533842.33	18533842.48	0.0137	0.0100
Mercury	46032-01-29 03:36 G	18533930.60	18533930.65	18533930.73	0.0137	0.0129
Venus	46043-11-03 13:41 G	18538226.98	18538227.07	18538227.19	0.0134	0.0117
Venus	46044-06-16 19:12 G	18538453.16	18538453.30	18538453.47	0.0133	0.0092
Venus	46045-01-29 00:58 G	18538679.35	18538679.54	18538679.73	0.0133	0.0067
Venus	46045-09-12 06:29 G	18538905.56	18538905.77	18538905.97	0.0133	0.0042
Venus	46046-04-26 11:46 G	18539131.78	18539131.99	18539132.21	0.0133	0.0017
Venus	46046-12-08 17:02 G	18539358.00	18539358.21	18539358.43	0.0133	0.0009
Venus	46047-07-22 22:05 G	18539584.22	18539584.42	18539584.64	0.0133	0.0034
Venus	46048-03-05 03:36 G	18539810.45	18539810.65	18539810.85	0.0133	0.0058

Earth	46048-07-07 02:38 G	18539934.56	18539934.61	18539934.70	0.0133	0.0128
Venus	46048-10-17 08:38 G	18540036.70	18540036.86	18540037.04	0.0133	0.0082
Venus	46049-05-31 13:41 G	18540262.96	18540263.07	18540263.22	0.0133	0.0107
Moon	46049-07-11 08:10 G	18540303.63	18540303.84	18540304.07	0.0133	0.0057
Earth	46049-07-11 08:10 G	18540303.64	18540303.84	18540304.08	0.0133	0.0063 *
Venus	46050-01-12 18:58 G	18540489.27	18540489.29	18540489.34	0.0133	0.0131
Earth	46050-07-15 14:10 G	18540672.84	18540673.09	18540673.35	0.0133	0.0004
Moon	46050-07-15 15:07 G	18540672.87	18540673.13	18540673.39	0.0133	0.0002 *
Moon	46051-07-19 19:26 G	18541042.10	18541042.31	18541042.51	0.0134	0.0070
Earth	46051-07-19 19:55 G	18541042.12	18541042.33	18541042.55	0.0134	0.0070 *
Mercury	46073-08-11 19:55 G	18549101.28	18549101.33	18549101.39	0.0141	0.0127
Mercury	46073-11-07 23:17 G	18549189.39	18549189.47	18549189.56	0.0141	0.0107
Mercury	46074-02-04 02:38 G	18549277.51	18549277.61	18549277.71	0.0141	0.0086
Mercury	46074-05-03 06:00 G	18549365.63	18549365.75	18549365.86	0.0141	0.0065
Mercury	46074-07-30 09:07 G	18549453.76	18549453.88	18549454.01	0.0141	0.0045
Mercury	46074-10-26 12:29 G	18549541.89	18549542.02	18549542.15	0.0141	0.0023
Mercury	46075-01-22 15:50 G	18549630.03	18549630.16	18549630.29	0.0141	0.0003
Mercury	46075-04-20 19:12 G	18549718.17	18549718.30	18549718.43	0.0141	0.0019
Mercury	46075-07-17 22:19 G	18549806.31	18549806.43	18549806.56	0.0141	0.0040
Mercury	46075-10-14 01:41 G	18549894.46	18549894.57	18549894.69	0.0142	0.0061
Mercury	46076-01-10 05:02 G	18549982.61	18549982.71	18549982.82	0.0142	0.0082
Mercury	46076-04-07 08:24 G	18550070.77	18550070.85	18550070.94	0.0142	0.0104
Mercury	46076-07-04 11:46 G	18550158.93	18550158.99	18550159.05	0.0142	0.0125
Venus	46086-08-06 03:07 G	18553843.51	18553843.63	18553843.75	0.0145	0.0119
Venus	46087-03-20 15:07 G	18554069.97	18554070.13	18554070.31	0.0145	0.0088
Venus	46087-11-02 03:22 G	18554296.45	18554296.64	18554296.85	0.0145	0.0056
Venus	46088-06-15 15:50 G	18554522.95	18554523.16	18554523.38	0.0145	0.0024
Venus	46089-01-28 04:05 G	18554749.45	18554749.67	18554749.89	0.0145	0.0009
Venus	46089-09-11 16:19 G	18554975.97	18554976.18	18554976.39	0.0145	0.0041
Venus	46090-04-26 04:34 G	18555202.51	18555202.69	18555202.88	0.0145	0.0073

Venus	46090-12-08 16:48 G	18555429.06	18555429.20	18555429.36	0.0145	0.0105
Moon	46091-01-09 18:14 G	18555461.07	18555461.26	18555461.45	0.0145	0.0097
Earth	46091-01-09 21:36 G	18555461.21	18555461.40	18555461.61	0.0145	0.0091 *
Venus	46091-07-23 04:48 G	18555655.65	18555655.70	18555655.79	0.0145	0.0137
Earth	46092-01-15 00:43 G	18555831.27	18555831.53	18555831.78	0.0145	0.0005
Moon	46092-01-15 03:22 G	18555831.39	18555831.64	18555831.89	0.0145	0.0005 *
Moon	46093-01-19 00:00 G	18556201.30	18556201.50	18556201.73	0.0145	0.0084
Earth	46093-01-19 02:53 G	18556201.42	18556201.62	18556201.85	0.0145	0.0082 *
Mercury	46113-12-16 12:43 G	18563836.96	18563837.03	18563837.13	0.0137	0.0125
Mercury	46114-03-14 20:53 G	18563925.24	18563925.37	18563925.52	0.0137	0.0095
Mercury	46114-06-11 04:48 G	18564013.54	18564013.70	18564013.88	0.0137	0.0065
Mercury	46114-09-07 12:58 G	18564101.85	18564102.04	18564102.23	0.0137	0.0035
Mercury	46114-12-04 20:53 G	18564190.17	18564190.37	18564190.57	0.0137	0.0006
Mercury	46115-03-03 04:48 G	18564278.51	18564278.70	18564278.89	0.0137	0.0023
Mercury	46115-05-30 12:43 G	18564366.85	18564367.03	18564367.21	0.0137	0.0052
Mercury	46115-08-26 20:38 G	18564455.20	18564455.36	18564455.51	0.0137	0.0081
Mercury	46115-11-23 04:19 G	18564543.57	18564543.68	18564543.80	0.0137	0.0110
Venus	46127-07-05 01:26 G	18568785.50	18568785.56	18568785.66	0.0134	0.0125
Venus	46128-02-16 07:12 G	18569011.67	18569011.80	18569011.95	0.0134	0.0100
Venus	46128-09-29 12:58 G	18569237.86	18569238.04	18569238.22	0.0133	0.0075
Venus	46129-05-13 18:29 G	18569464.07	18569464.27	18569464.47	0.0133	0.0050
Venus	46129-12-25 23:31 G	18569690.28	18569690.48	18569690.70	0.0133	0.0026
Venus	46130-08-09 05:02 G	18569916.49	18569916.71	18569916.93	0.0133	0.0000
Venus	46131-03-23 10:05 G	18570142.72	18570142.92	18570143.15	0.0133	0.0026
Venus	46131-11-04 15:36 G	18570368.95	18570369.15	18570369.35	0.0133	0.0050
Venus	46132-06-17 20:38 G	18570595.19	18570595.36	18570595.55	0.0133	0.0075
Moon	46132-07-08 16:05 G	18570616.04	18570616.17	18570616.31	0.0133	0.0115
Earth	46132-07-08 16:19 G	18570616.09	18570616.18	18570616.29	0.0133	0.0122 *
Venus	46133-01-30 01:41 G	18570821.44	18570821.57	18570821.73	0.0133	0.0099
Earth	46133-07-12 21:50 G	18570985.19	18570985.41	18570985.65	0.0133	0.0056

Moon	46133-07-12 21:36 G	18570985.20	18570985.40	18570985.63	0.0133	0.0061	*
Venus	46133-09-13 06:43 G	18571047.72	18571047.78	18571047.88	0.0133	0.0124	
Moon	46134-07-17 03:22 G	18571354.39	18571354.64	18571354.91	0.0133	0.0014	
Earth	46134-07-17 03:36 G	18571354.40	18571354.65	18571354.91	0.0133	0.0010	*
Moon	46135-07-21 09:07 G	18571723.69	18571723.88	18571724.09	0.0134	0.0076	
Earth	46135-07-21 09:22 G	18571723.69	18571723.89	18571724.11	0.0134	0.0076	*
Jupiter	46140-09-18 13:41 G	18573609.70	18573610.07	18573610.51	0.0134	0.0080	
Mars	46150-09-28 11:02 G	18577271.77	18577271.96	18577272.19	0.0138	0.0094	
Mercury	46157-06-06 00:29 G	18579714.52	18579714.52	18579714.53	0.0141	0.0140	
Mercury	46157-09-02 03:36 G	18579802.59	18579802.65	18579802.73	0.0141	0.0120	
Mercury	46157-11-29 07:12 G	18579890.70	18579890.80	18579890.89	0.0141	0.0099	
Mercury	46158-02-25 10:19 G	18579978.82	18579978.93	18579979.04	0.0141	0.0078	
Mercury	46158-05-24 13:26 G	18580066.95	18580067.06	18580067.19	0.0141	0.0058	
Mercury	46158-08-20 16:48 G	18580155.08	18580155.20	18580155.33	0.0141	0.0037	
Mercury	46158-11-16 20:10 G	18580243.22	18580243.34	18580243.47	0.0141	0.0017	
Mercury	46159-02-12 23:31 G	18580331.35	18580331.48	18580331.61	0.0141	0.0006	
Mercury	46159-05-12 02:53 G	18580419.49	18580419.62	18580419.75	0.0141	0.0026	
Mercury	46159-08-08 06:14 G	18580507.64	18580507.76	18580507.88	0.0141	0.0048	
Mercury	46159-11-04 09:36 G	18580595.78	18580595.90	18580596.01	0.0142	0.0069	
Mercury	46160-01-31 12:43 G	18580683.94	18580684.03	18580684.14	0.0142	0.0091	
Mercury	46160-04-28 16:05 G	18580772.10	18580772.17	18580772.26	0.0142	0.0112	
Mercury	46160-07-25 19:26 G	18580860.27	18580860.31	18580860.36	0.0142	0.0133	
Venus	46170-04-06 11:17 G	18584401.90	18584401.97	18584402.08	0.0145	0.0131	
Venus	46170-11-18 23:46 G	18584628.34	18584628.49	18584628.66	0.0145	0.0099	
Venus	46171-07-03 12:00 G	18584854.81	18584855.00	18584855.20	0.0145	0.0067	
Venus	46172-02-15 00:14 G	18585081.30	18585081.51	18585081.73	0.0145	0.0035	
Venus	46172-09-28 12:43 G	18585307.81	18585308.03	18585308.25	0.0145	0.0003	
Venus	46173-05-13 00:43 G	18585534.33	18585534.53	18585534.75	0.0145	0.0030	
Venus	46173-12-25 12:58 G	18585760.85	18585761.04	18585761.25	0.0145	0.0062	
Venus	46174-08-09 00:58 G	18585987.39	18585987.54	18585987.72	0.0145	0.0094	

Moon	46175-01-11 08:10 G	18586142.63	18586142.84	18586143.06	0.0145	0.0078
Earth	46175-01-11 11:31 G	18586142.79	18586142.98	18586143.20	0.0145	0.0084 *
Venus	46175-03-23 13:26 G	18586213.96	18586214.06	18586214.18	0.0145	0.0126
Earth	46176-01-16 14:38 G	18586512.85	18586513.11	18586513.36	0.0145	0.0003
Moon	46176-01-16 18:00 G	18586513.00	18586513.25	18586513.50	0.0145	0.0001 *
Moon	46177-01-20 14:38 G	18586882.90	18586883.11	18586883.32	0.0145	0.0085
Earth	46177-01-20 17:02 G	18586883.02	18586883.21	18586883.43	0.0145	0.0089 *
Mars	46191-02-07 06:00 G	18592013.45	18592013.75	18592014.08	0.0141	0.0045
Mercury	46198-01-05 21:36 G	18594538.30	18594538.40	18594538.53	0.0137	0.0112
Mercury	46198-04-04 05:31 G	18594626.59	18594626.73	18594626.90	0.0137	0.0082
Mercury	46198-07-01 13:41 G	18594714.89	18594715.07	18594715.26	0.0137	0.0052
Mercury	46198-09-27 21:36 G	18594803.21	18594803.40	18594803.60	0.0137	0.0023
Mercury	46198-12-25 05:31 G	18594891.54	18594891.73	18594891.93	0.0137	0.0007
Mercury	46199-03-23 13:26 G	18594979.87	18594980.06	18594980.25	0.0137	0.0036
Mercury	46199-06-19 21:07 G	18595068.22	18595068.38	18595068.56	0.0137	0.0065
Mercury	46199-09-16 04:48 G	18595156.57	18595156.70	18595156.86	0.0137	0.0094
Mercury	46199-12-13 12:58 G	18595244.96	18595245.04	18595245.13	0.0137	0.0122
Venus	46211-03-05 14:10 G	18599344.06	18599344.09	18599344.12	0.0134	0.0132
Venus	46211-10-17 19:26 G	18599570.19	18599570.31	18599570.45	0.0134	0.0108
Venus	46212-05-31 00:58 G	18599796.38	18599796.54	18599796.72	0.0133	0.0083
Venus	46213-01-12 06:29 G	18600022.57	18600022.77	18600022.97	0.0133	0.0058
Venus	46213-08-26 11:31 G	18600248.78	18600248.98	18600249.20	0.0133	0.0034
Venus	46214-04-09 17:17 G	18600475.00	18600475.22	18600475.43	0.0133	0.0008
Venus	46214-11-21 22:19 G	18600701.22	18600701.43	18600701.65	0.0133	0.0017
Venus	46215-07-06 03:36 G	18600927.44	18600927.65	18600927.86	0.0133	0.0042
Venus	46216-02-17 08:38 G	18601153.68	18601153.86	18601154.05	0.0133	0.0066
Earth	46216-07-10 05:46 G	18601297.63	18601297.74	18601297.88	0.0133	0.0116
Moon	46216-07-10 05:46 G	18601297.64	18601297.74	18601297.84	0.0133	0.0122 *
Venus	46216-09-30 13:55 G	18601379.92	18601380.08	18601380.24	0.0133	0.0091
Venus	46217-05-14 18:58 G	18601606.19	18601606.29	18601606.41	0.0133	0.0115

Earth	46217-07-14 11:17 G	18601666.75	18601666.97	18601667.22	0.0133	0.0051
Moon	46217-07-14 12:14 G	18601666.79	18601667.01	18601667.25	0.0133	0.0045 *
Moon	46218-07-18 16:48 G	18602035.94	18602036.20	18602036.46	0.0133	0.0012
Earth	46218-07-18 17:17 G	18602035.97	18602036.22	18602036.47	0.0133	0.0016 *
Earth	46219-07-22 22:48 G	18602405.26	18602405.45	18602405.66	0.0133	0.0082
Moon	46219-07-22 23:31 G	18602405.29	18602405.48	18602405.67	0.0133	0.0083 *
Mars	46235-05-25 04:05 G	18608190.43	18608190.67	18608190.94	0.0138	0.0067
Mercury	46241-06-27 07:41 G	18610415.80	18610415.82	18610415.87	0.0141	0.0135
Mercury	46241-09-23 11:02 G	18610503.89	18610503.96	18610504.04	0.0141	0.0114
Mercury	46241-12-20 14:38 G	18610592.01	18610592.11	18610592.20	0.0141	0.0093
Mercury	46242-03-18 17:46 G	18610680.13	18610680.24	18610680.35	0.0141	0.0072
Mercury	46242-06-14 21:07 G	18610768.26	18610768.38	18610768.50	0.0141	0.0052
Mercury	46242-09-11 00:14 G	18610856.39	18610856.51	18610856.64	0.0141	0.0032
Mercury	46242-12-08 03:36 G	18610944.52	18610944.65	18610944.78	0.0141	0.0011
Mercury	46243-03-06 06:58 G	18611032.66	18611032.79	18611032.92	0.0141	0.0012
Mercury	46243-06-02 10:19 G	18611120.80	18611120.93	18611121.06	0.0141	0.0032
Mercury	46243-08-29 13:41 G	18611208.95	18611209.07	18611209.19	0.0141	0.0053
Mercury	46243-11-25 17:02 G	18611297.10	18611297.21	18611297.32	0.0142	0.0075
Mercury	46244-02-21 20:24 G	18611385.25	18611385.35	18611385.44	0.0142	0.0096
Mercury	46244-05-19 23:31 G	18611473.42	18611473.48	18611473.56	0.0142	0.0118
Mercury	46244-08-16 02:53 G	18611561.60	18611561.62	18611561.65	0.0142	0.0139
Venus	46253-12-05 18:00 G	18614960.23	18614960.25	18614960.29	0.0145	0.0143
Venus	46254-07-20 05:46 G	18615186.62	18615186.74	18615186.90	0.0145	0.0112
Venus	46255-03-03 18:00 G	18615413.08	18615413.25	18615413.45	0.0145	0.0080
Venus	46255-10-16 06:29 G	18615639.57	18615639.77	18615639.98	0.0145	0.0048
Venus	46256-05-29 18:43 G	18615866.07	18615866.28	18615866.50	0.0145	0.0016
Venus	46257-01-11 06:58 G	18616092.57	18616092.79	18616093.01	0.0145	0.0017
Venus	46257-08-25 18:58 G	18616319.09	18616319.29	18616319.50	0.0145	0.0049
Venus	46258-04-09 06:58 G	18616545.63	18616545.79	18616545.99	0.0145	0.0081
Venus	46258-11-21 19:12 G	18616772.19	18616772.30	18616772.46	0.0145	0.0113

Moon	46259-01-12 17:31 G	18616824.04	18616824.23	18616824.45	0.0145	0.0088
Earth	46259-01-12 21:22 G	18616824.18	18616824.39	18616824.61	0.0145	0.0080 *
Venus	46259-07-06 07:41 G	18616998.81	18616998.82	18616998.85	0.0145	0.0144
Earth	46260-01-18 00:14 G	18617194.26	18617194.51	18617194.77	0.0145	0.0006
Moon	46260-01-18 03:50 G	18617194.40	18617194.66	18617194.91	0.0145	0.0008 *
Moon	46261-01-21 23:31 G	18617564.28	18617564.48	18617564.68	0.0145	0.0093
Earth	46261-01-22 03:07 G	18617564.44	18617564.63	18617564.83	0.0145	0.0092 *
Jupiter	46265-04-08 21:36 G	18619101.90	18619102.40	18619102.95	0.0144	0.0027
Mercury	46281-10-30 21:07 G	18625151.35	18625151.38	18625151.45	0.0138	0.0133
Mercury	46282-01-27 05:17 G	18625239.60	18625239.72	18625239.86	0.0138	0.0103
Mercury	46282-04-25 13:12 G	18625327.90	18625328.05	18625328.23	0.0137	0.0074
Mercury	46282-07-22 21:22 G	18625416.21	18625416.39	18625416.58	0.0137	0.0044
Mercury	46282-10-19 05:17 G	18625504.53	18625504.72	18625504.92	0.0137	0.0015
Mercury	46283-01-15 13:12 G	18625592.86	18625593.05	18625593.25	0.0137	0.0015
Mercury	46283-04-13 21:07 G	18625681.20	18625681.38	18625681.57	0.0137	0.0044
Mercury	46283-07-11 05:02 G	18625769.55	18625769.71	18625769.88	0.0137	0.0073
Mercury	46283-10-07 12:43 G	18625857.91	18625858.03	18625858.17	0.0137	0.0102
Mercury	46284-01-03 20:24 G	18625946.31	18625946.35	18625946.42	0.0137	0.0131
Venus	46295-06-17 06:43 G	18630128.69	18630128.78	18630128.90	0.0134	0.0116
Venus	46296-01-29 12:14 G	18630354.86	18630355.01	18630355.18	0.0134	0.0091
Venus	46296-09-11 17:46 G	18630581.06	18630581.24	18630581.43	0.0133	0.0066
Venus	46297-04-25 23:02 G	18630807.27	18630807.46	18630807.68	0.0133	0.0042
Venus	46297-12-08 04:34 G	18631033.48	18631033.69	18631033.91	0.0133	0.0016
Venus	46298-07-22 09:50 G	18631259.69	18631259.91	18631260.13	0.0133	0.0009
Venus	46299-03-05 14:53 G	18631485.92	18631486.12	18631486.34	0.0133	0.0034
Venus	46299-10-17 19:55 G	18631712.15	18631712.33	18631712.54	0.0133	0.0059
Venus	46300-06-01 01:12 G	18631938.39	18631938.55	18631938.73	0.0133	0.0083
Moon	46300-07-11 17:02 G	18631979.05	18631979.21	18631979.38	0.0133	0.0104
Earth	46300-07-11 18:43 G	18631979.15	18631979.28	18631979.43	0.0133	0.0111 *
Venus	46301-01-13 06:14 G	18632164.65	18632164.76	18632164.91	0.0133	0.0108

Earth	46301-07-16 00:00 G	18632348.28	18632348.50	18632348.75	0.0133	0.0046
Moon	46301-07-16 00:58 G	18632348.33	18632348.54	18632348.78	0.0133	0.0051 *
Venus	46301-08-27 11:31 G	18632390.96	18632390.98	18632391.03	0.0133	0.0132
Moon	46302-07-20 04:19 G	18632717.43	18632717.68	18632717.94	0.0133	0.0026
Earth	46302-07-20 06:00 G	18632717.50	18632717.75	18632718.00	0.0133	0.0021 *
Earth	46303-07-24 11:31 G	18633086.80	18633086.98	18633087.18	0.0133	0.0087
Moon	46303-07-24 12:29 G	18633086.85	18633087.02	18633087.22	0.0133	0.0085 *
Mercury	46325-07-18 15:07 G	18641117.09	18641117.13	18641117.19	0.0140	0.0129
Mercury	46325-10-14 18:29 G	18641205.19	18641205.27	18641205.35	0.0141	0.0109
Mercury	46326-01-10 21:50 G	18641293.31	18641293.41	18641293.51	0.0141	0.0088
Mercury	46326-04-09 00:58 G	18641381.43	18641381.54	18641381.66	0.0141	0.0068
Mercury	46326-07-06 04:19 G	18641469.56	18641469.68	18641469.80	0.0141	0.0047
Mercury	46326-10-02 07:41 G	18641557.69	18641557.82	18641557.95	0.0141	0.0026
Mercury	46326-12-29 11:02 G	18641645.83	18641645.96	18641646.09	0.0141	0.0006
Mercury	46327-03-27 14:10 G	18641733.96	18641734.09	18641734.22	0.0141	0.0017
Mercury	46327-06-23 17:31 G	18641822.11	18641822.23	18641822.36	0.0141	0.0037
Mercury	46327-09-19 20:53 G	18641910.25	18641910.37	18641910.49	0.0141	0.0058
Mercury	46327-12-17 00:14 G	18641998.40	18641998.51	18641998.62	0.0141	0.0080
Mercury	46328-03-14 03:36 G	18642086.56	18642086.65	18642086.74	0.0142	0.0101
Mercury	46328-06-10 06:43 G	18642174.72	18642174.78	18642174.85	0.0142	0.0123
Venus	46338-03-20 11:17 G	18645744.88	18645744.97	18645745.10	0.0145	0.0125
Venus	46338-11-01 23:46 G	18645971.33	18645971.49	18645971.66	0.0145	0.0093
Venus	46339-06-16 11:46 G	18646197.80	18646197.99	18646198.20	0.0145	0.0061
Venus	46340-01-29 00:00 G	18646424.29	18646424.50	18646424.72	0.0145	0.0029
Venus	46340-09-11 12:14 G	18646650.79	18646651.01	18646651.23	0.0145	0.0003
Venus	46341-04-26 00:29 G	18646877.31	18646877.52	18646877.73	0.0145	0.0035
Venus	46341-12-08 12:29 G	18647103.83	18647104.02	18647104.22	0.0145	0.0067
Venus	46342-07-23 00:43 G	18647330.38	18647330.53	18647330.69	0.0145	0.0099
Moon	46343-01-14 02:24 G	18647505.38	18647505.60	18647505.82	0.0145	0.0071
Earth	46343-01-14 05:46 G	18647505.54	18647505.74	18647505.97	0.0145	0.0078 *

Venus	46343-03-06 12:43 G	18647556.96	18647557.03	18647557.14	0.0145	0.0131
Earth	46344-01-19 08:53 G	18647875.61	18647875.87	18647876.12	0.0145	0.0009
Moon	46344-01-19 12:29 G	18647875.77	18647876.02	18647876.28	0.0145	0.0005 *
Moon	46345-01-23 08:10 G	18648245.65	18648245.84	18648246.05	0.0145	0.0093
Earth	46345-01-23 11:31 G	18648245.80	18648245.98	18648246.19	0.0145	0.0095 *
Mars	46358-06-26 23:46 G	18653148.25	18653148.49	18653148.76	0.0141	0.0089
Mercury	46365-11-21 04:34 G	18655852.62	18655852.69	18655852.78	0.0138	0.0125
Mercury	46366-02-17 12:29 G	18655940.89	18655941.02	18655941.18	0.0138	0.0096
Mercury	46366-05-16 20:38 G	18656029.19	18656029.36	18656029.54	0.0138	0.0066
Mercury	46366-08-13 04:34 G	18656117.51	18656117.69	18656117.89	0.0137	0.0036
Mercury	46366-11-09 12:43 G	18656205.83	18656206.03	18656206.23	0.0137	0.0007
Mercury	46367-02-05 20:24 G	18656294.16	18656294.35	18656294.55	0.0137	0.0024
Mercury	46367-05-05 04:19 G	18656382.51	18656382.68	18656382.87	0.0137	0.0052
Mercury	46367-08-01 12:14 G	18656470.86	18656471.01	18656471.17	0.0137	0.0081
Mercury	46367-10-28 19:55 G	18656559.23	18656559.33	18656559.46	0.0137	0.0110
Venus	46379-02-15 17:46 G	18660687.17	18660687.24	18660687.33	0.0134	0.0124
Venus	46379-09-29 23:31 G	18660913.34	18660913.48	18660913.63	0.0134	0.0099
Venus	46380-05-13 04:48 G	18661139.53	18661139.70	18661139.89	0.0134	0.0074
Venus	46380-12-25 10:05 G	18661365.73	18661365.92	18661366.14	0.0134	0.0050
Venus	46381-08-08 15:36 G	18661591.94	18661592.15	18661592.37	0.0133	0.0025
Venus	46382-03-22 21:07 G	18661818.16	18661818.38	18661818.59	0.0133	0.0002
Venus	46382-11-04 02:10 G	18662044.38	18662044.59	18662044.81	0.0133	0.0026
Venus	46383-06-18 07:12 G	18662270.61	18662270.80	18662271.02	0.0133	0.0051
Venus	46384-01-30 12:43 G	18662496.85	18662497.03	18662497.21	0.0133	0.0075
Moon	46384-07-12 05:17 G	18662660.60	18662660.72	18662660.87	0.0133	0.0113
Earth	46384-07-12 07:12 G	18662660.66	18662660.80	18662660.96	0.0133	0.0106 *
Venus	46384-09-12 17:31 G	18662723.10	18662723.23	18662723.39	0.0133	0.0100
Venus	46385-04-26 23:02 G	18662949.39	18662949.46	18662949.55	0.0133	0.0124
Earth	46385-07-16 12:43 G	18663029.79	18663030.03	18663030.27	0.0133	0.0040
Moon	46385-07-16 14:53 G	18663029.88	18663030.12	18663030.36	0.0133	0.0034 *

Moon	46386-07-20 16:34 G	18663398.95	18663399.19	18663399.46	0.0133	0.0022
Earth	46386-07-20 18:29 G	18663399.03	18663399.27	18663399.52	0.0133	0.0026 *
Earth	46387-07-25 00:00 G	18663768.34	18663768.50	18663768.70	0.0133	0.0092
Moon	46387-07-25 01:55 G	18663768.42	18663768.58	18663768.76	0.0133	0.0094 *
Mars	46402-10-13 01:41 G	18669327.30	18669327.57	18669327.86	0.0137	0.0034
Mercury	46409-08-07 22:34 G	18671818.39	18671818.44	18671818.51	0.0140	0.0123
Mercury	46409-11-04 01:55 G	18671906.50	18671906.58	18671906.67	0.0140	0.0103
Mercury	46410-01-31 05:17 G	18671994.61	18671994.72	18671994.82	0.0141	0.0082
Mercury	46410-04-29 08:24 G	18672082.74	18672082.85	18672082.97	0.0141	0.0062
Mercury	46410-07-26 11:46 G	18672170.87	18672170.99	18672171.12	0.0141	0.0041
Mercury	46410-10-22 15:07 G	18672259.00	18672259.13	18672259.26	0.0141	0.0020
Mercury	46411-01-18 18:29 G	18672347.14	18672347.27	18672347.40	0.0141	0.0005
Mercury	46411-04-16 21:36 G	18672435.27	18672435.40	18672435.53	0.0141	0.0022
Mercury	46411-07-14 00:58 G	18672523.42	18672523.54	18672523.66	0.0141	0.0043
Mercury	46411-10-10 04:19 G	18672611.56	18672611.68	18672611.79	0.0141	0.0064
Mercury	46412-01-06 07:26 G	18672699.72	18672699.81	18672699.92	0.0141	0.0086
Mercury	46412-04-03 10:48 G	18672787.87	18672787.95	18672788.04	0.0141	0.0107
Mercury	46412-06-30 14:24 G	18672876.04	18672876.10	18672876.15	0.0142	0.0128
Venus	46421-11-17 17:17 G	18676303.16	18676303.22	18676303.29	0.0144	0.0137
Venus	46422-07-02 05:02 G	18676529.57	18676529.71	18676529.87	0.0145	0.0106
Venus	46423-02-13 17:17 G	18676756.03	18676756.22	18676756.40	0.0145	0.0074
Venus	46423-09-28 05:02 G	18676982.51	18676982.71	18676982.93	0.0145	0.0043
Venus	46424-05-11 17:17 G	18677209.00	18677209.22	18677209.44	0.0145	0.0010
Venus	46424-12-24 05:17 G	18677435.51	18677435.72	18677435.94	0.0145	0.0022
Venus	46425-08-07 17:17 G	18677662.02	18677662.22	18677662.43	0.0145	0.0054
Venus	46426-03-22 05:17 G	18677888.56	18677888.72	18677888.91	0.0145	0.0086
Venus	46426-11-03 17:31 G	18678115.12	18678115.23	18678115.37	0.0145	0.0118
Moon	46427-01-14 10:19 G	18678186.73	18678186.93	18678187.14	0.0145	0.0084
Earth	46427-01-14 13:26 G	18678186.85	18678187.06	18678187.28	0.0145	0.0076 *
Earth	46428-01-19 16:19 G	18678556.93	18678557.18	18678557.44	0.0145	0.0010

Moon	46428-01-19 19:55 G	18678557.08	18678557.33	18678557.59	0.0145	0.0013	*
Moon	46429-01-23 15:07 G	18678926.96	18678927.13	18678927.34	0.0145	0.0096	
Earth	46429-01-23 19:12 G	18678927.11	18678927.30	18678927.50	0.0145	0.0096	*
Mars	46443-02-20 13:55 G	18684067.86	18684068.08	18684068.35	0.0141	0.0092	
Mercury	46449-12-11 10:48 G	18686553.87	18686553.95	18686554.05	0.0138	0.0121	
Mercury	46450-03-09 18:58 G	18686642.15	18686642.29	18686642.44	0.0138	0.0091	
Mercury	46450-06-06 02:53 G	18686730.45	18686730.62	18686730.80	0.0138	0.0062	
Mercury	46450-09-02 11:02 G	18686818.77	18686818.96	18686819.15	0.0137	0.0032	
Mercury	46450-11-29 18:58 G	18686907.09	18686907.29	18686907.49	0.0137	0.0003	
Mercury	46451-02-26 02:38 G	18686995.43	18686995.61	18686995.81	0.0137	0.0028	
Mercury	46451-05-25 10:34 G	18687083.77	18687083.94	18687084.13	0.0137	0.0056	
Mercury	46451-08-21 18:29 G	18687172.12	18687172.27	18687172.43	0.0137	0.0085	
Mercury	46451-11-18 02:24 G	18687260.50	18687260.60	18687260.71	0.0137	0.0114	
Venus	46462-10-16 03:36 G	18691245.64	18691245.65	18691245.68	0.0134	0.0133	
Venus	46463-05-30 08:53 G	18691471.77	18691471.87	18691472.02	0.0134	0.0109	
Venus	46464-01-11 14:38 G	18691697.95	18691698.11	18691698.29	0.0134	0.0084	
Venus	46464-08-24 20:10 G	18691924.15	18691924.34	18691924.54	0.0134	0.0059	
Venus	46465-04-08 01:41 G	18692150.37	18692150.57	18692150.79	0.0134	0.0034	
Venus	46465-11-20 07:12 G	18692376.58	18692376.80	18692377.02	0.0134	0.0009	
Venus	46466-07-04 12:29 G	18692602.80	18692603.02	18692603.24	0.0134	0.0016	
Venus	46467-02-15 17:31 G	18692829.03	18692829.23	18692829.45	0.0134	0.0042	
Venus	46467-09-29 23:02 G	18693055.27	18693055.46	18693055.65	0.0133	0.0066	
Venus	46468-05-13 04:19 G	18693281.53	18693281.68	18693281.84	0.0133	0.0091	
Moon	46468-07-12 15:22 G	18693341.97	18693342.14	18693342.33	0.0133	0.0096	
Earth	46468-07-12 18:00 G	18693342.10	18693342.25	18693342.43	0.0133	0.0103	*
Venus	46468-12-25 09:22 G	18693507.80	18693507.89	18693508.01	0.0133	0.0116	
Earth	46469-07-17 00:00 G	18693711.26	18693711.50	18693711.75	0.0133	0.0037	
Moon	46469-07-17 01:55 G	18693711.36	18693711.58	18693711.82	0.0133	0.0043	*
Moon	46470-07-21 03:07 G	18694080.39	18694080.63	18694080.89	0.0133	0.0036	
Earth	46470-07-21 05:46 G	18694080.51	18694080.74	18694081.00	0.0133	0.0030	*

Earth	46471-07-25 11:31 G	18694449.83	18694449.98	18694450.18	0.0134	0.0096
Moon	46471-07-25 13:55 G	18694449.92	18694450.08	18694450.27	0.0134	0.0093 *
Mars	46487-06-07 20:10 G	18700246.26	18700246.34	18700246.48	0.0138	0.0127
Mercury	46493-06-01 03:07 G	18702431.60	18702431.63	18702431.65	0.0140	0.0137
Mercury	46493-08-28 06:14 G	18702519.69	18702519.76	18702519.84	0.0140	0.0116
Mercury	46493-11-24 09:36 G	18702607.81	18702607.90	18702607.99	0.0140	0.0096
Mercury	46494-02-20 12:43 G	18702695.93	18702696.03	18702696.15	0.0141	0.0076
Mercury	46494-05-19 16:05 G	18702784.05	18702784.17	18702784.29	0.0141	0.0055
Mercury	46494-08-15 19:26 G	18702872.18	18702872.31	18702872.43	0.0141	0.0034
Mercury	46494-11-11 22:34 G	18702960.32	18702960.44	18702960.57	0.0141	0.0014
Mercury	46495-02-08 01:55 G	18703048.45	18703048.58	18703048.71	0.0141	0.0008
Mercury	46495-05-07 05:17 G	18703136.59	18703136.72	18703136.85	0.0141	0.0029
Mercury	46495-08-03 08:24 G	18703224.74	18703224.85	18703224.98	0.0141	0.0051
Mercury	46495-10-30 11:46 G	18703312.88	18703312.99	18703313.11	0.0141	0.0071
Mercury	46496-01-26 15:07 G	18703401.04	18703401.13	18703401.23	0.0141	0.0092
Mercury	46496-04-23 18:29 G	18703489.20	18703489.27	18703489.35	0.0141	0.0114
Mercury	46496-07-20 21:50 G	18703577.38	18703577.41	18703577.45	0.0141	0.0135
Venus	46506-03-02 12:14 G	18707087.89	18707088.01	18707088.14	0.0144	0.0118
Venus	46506-10-15 00:14 G	18707314.34	18707314.51	18707314.69	0.0145	0.0086
Venus	46507-05-29 12:14 G	18707540.81	18707541.01	18707541.21	0.0145	0.0055
Venus	46508-01-11 00:14 G	18707767.29	18707767.51	18707767.73	0.0145	0.0023
Venus	46508-08-24 12:14 G	18707993.79	18707994.01	18707994.23	0.0145	0.0009
Venus	46509-04-08 00:14 G	18708220.30	18708220.51	18708220.72	0.0145	0.0041
Venus	46509-11-20 12:14 G	18708446.83	18708447.01	18708447.21	0.0145	0.0074
Venus	46510-07-05 00:29 G	18708673.38	18708673.52	18708673.68	0.0145	0.0105
Moon	46511-01-15 21:22 G	18708868.17	18708868.39	18708868.62	0.0145	0.0065
Earth	46511-01-16 00:29 G	18708868.30	18708868.52	18708868.74	0.0145	0.0072 *
Venus	46511-02-16 12:29 G	18708899.97	18708900.02	18708900.10	0.0145	0.0137
Earth	46512-01-21 03:07 G	18709238.38	18709238.63	18709238.89	0.0145	0.0015
Moon	46512-01-21 06:29 G	18709238.51	18709238.77	18709239.03	0.0145	0.0009 *

Moon	46513-01-25 02:24 G	18709608.43	18709608.60	18709608.79	0.0145	0.0100
Earth	46513-01-25 05:46 G	18709608.57	18709608.74	18709608.94	0.0145	0.0100 *
Mercury	46534-01-01 18:00 G	18717255.14	18717255.25	18717255.36	0.0138	0.0114
Mercury	46534-03-31 01:41 G	18717343.43	18717343.57	18717343.74	0.0138	0.0085
Mercury	46534-06-27 09:50 G	18717431.73	18717431.91	18717432.10	0.0138	0.0055
Mercury	46534-09-23 17:46 G	18717520.05	18717520.24	18717520.44	0.0137	0.0026
Mercury	46534-12-21 01:55 G	18717608.38	18717608.58	18717608.77	0.0137	0.0005
Mercury	46535-03-19 09:50 G	18717696.72	18717696.91	18717697.10	0.0137	0.0034
Mercury	46535-06-15 17:31 G	18717785.06	18717785.23	18717785.41	0.0137	0.0063
Mercury	46535-09-12 01:12 G	18717873.42	18717873.55	18717873.71	0.0137	0.0093
Mercury	46535-12-09 09:07 G	18717961.80	18717961.88	18717961.98	0.0137	0.0121
Venus	46547-01-28 19:12 G	18722030.21	18722030.30	18722030.41	0.0134	0.0118
Venus	46547-09-12 00:58 G	18722256.39	18722256.54	18722256.70	0.0134	0.0093
Venus	46548-04-25 06:29 G	18722482.59	18722482.77	18722482.97	0.0134	0.0068
Venus	46548-12-07 12:00 G	18722708.80	18722709.00	18722709.21	0.0134	0.0043
Venus	46549-07-21 17:31 G	18722935.01	18722935.23	18722935.45	0.0134	0.0018
Venus	46550-03-04 22:48 G	18723161.24	18723161.45	18723161.67	0.0134	0.0008
Venus	46550-10-17 04:05 G	18723387.47	18723387.67	18723387.89	0.0134	0.0033
Venus	46551-05-31 09:22 G	18723613.71	18723613.89	18723614.10	0.0134	0.0058
Venus	46552-01-12 15:07 G	18723839.96	18723840.13	18723840.30	0.0134	0.0082
Moon	46552-07-14 02:53 G	18724023.47	18724023.62	18724023.79	0.0134	0.0105
Earth	46552-07-14 05:46 G	18724023.58	18724023.74	18724023.92	0.0134	0.0098 *
Venus	46552-08-25 20:10 G	18724066.22	18724066.34	18724066.48	0.0134	0.0107
Venus	46553-04-09 01:26 G	18724292.54	18724292.56	18724292.61	0.0134	0.0132
Earth	46553-07-18 11:31 G	18724392.75	18724392.98	18724393.24	0.0134	0.0033
Moon	46553-07-18 14:53 G	18724392.88	18724393.12	18724393.36	0.0134	0.0025 *
Moon	46554-07-22 15:07 G	18724761.88	18724762.13	18724762.39	0.0134	0.0028
Earth	46554-07-22 18:00 G	18724762.00	18724762.25	18724762.49	0.0134	0.0034 *
Earth	46555-07-26 23:46 G	18725131.34	18725131.49	18725131.67	0.0134	0.0100
Moon	46555-07-27 02:24 G	18725131.47	18725131.60	18725131.78	0.0134	0.0104 *

Mars	46570-03-03 02:38 G	18730464.54	18730464.61	18730464.71	0.0137	0.0131
Mercury	46577-06-22 10:48 G	18733132.91	18733132.95	18733133.00	0.0140	0.0129
Mercury	46577-09-18 14:10 G	18733221.01	18733221.09	18733221.17	0.0140	0.0109
Mercury	46577-12-15 17:17 G	18733309.12	18733309.22	18733309.32	0.0140	0.0088
Mercury	46578-03-13 20:38 G	18733397.25	18733397.36	18733397.47	0.0141	0.0068
Mercury	46578-06-10 00:00 G	18733485.37	18733485.50	18733485.62	0.0141	0.0047
Mercury	46578-09-06 03:07 G	18733573.50	18733573.63	18733573.76	0.0141	0.0026
Mercury	46578-12-03 06:29 G	18733661.64	18733661.77	18733661.90	0.0141	0.0005
Mercury	46579-03-01 09:50 G	18733749.78	18733749.91	18733750.04	0.0141	0.0016
Mercury	46579-05-28 12:58 G	18733837.92	18733838.04	18733838.17	0.0141	0.0037
Mercury	46579-08-24 16:19 G	18733926.06	18733926.18	18733926.30	0.0141	0.0058
Mercury	46579-11-20 19:41 G	18734014.21	18734014.32	18734014.43	0.0141	0.0079
Mercury	46580-02-16 23:02 G	18734102.37	18734102.46	18734102.55	0.0141	0.0100
Mercury	46580-05-15 02:24 G	18734190.53	18734190.60	18734190.66	0.0141	0.0122
Venus	46589-10-30 20:24 G	18737646.27	18737646.35	18737646.46	0.0144	0.0130
Venus	46590-06-14 08:10 G	18737872.70	18737872.84	18737873.02	0.0144	0.0099
Venus	46591-01-26 20:10 G	18738099.16	18738099.34	18738099.54	0.0144	0.0067
Venus	46591-09-10 08:10 G	18738325.63	18738325.84	18738326.06	0.0145	0.0035
Venus	46592-04-23 20:10 G	18738552.13	18738552.34	18738552.56	0.0145	0.0004
Venus	46592-12-06 08:10 G	18738778.63	18738778.84	18738779.06	0.0145	0.0030
Venus	46593-07-20 20:10 G	18739005.15	18739005.34	18739005.55	0.0145	0.0062
Moon	46594-01-11 12:29 G	18739180.01	18739180.02	18739180.06	0.0145	0.0144
Venus	46594-03-04 08:10 G	18739231.69	18739231.84	18739232.02	0.0145	0.0094
Venus	46594-10-16 20:10 G	18739458.26	18739458.34	18739458.47	0.0145	0.0126
Moon	46595-01-16 10:48 G	18739549.75	18739549.95	18739550.18	0.0145	0.0074
Earth	46595-01-16 12:58 G	18739549.82	18739550.04	18739550.28	0.0145	0.0066 *
Earth	46596-01-21 15:50 G	18739919.91	18739920.16	18739920.42	0.0145	0.0020
Moon	46596-01-21 18:58 G	18739920.04	18739920.29	18739920.55	0.0145	0.0025 *
Moon	46597-01-25 14:53 G	18740289.96	18740290.12	18740290.31	0.0145	0.0104
Earth	46597-01-25 18:14 G	18740290.10	18740290.26	18740290.45	0.0145	0.0106 *

Mars	46610-07-10 08:53 G	18745202.57	18745202.87	18745203.19	0.0141	0.0045
Mercury	46617-10-26 17:02 G	18747868.19	18747868.21	18747868.22	0.0138	0.0137
Mercury	46618-01-23 00:43 G	18747956.42	18747956.53	18747956.66	0.0138	0.0108
Mercury	46618-04-21 08:53 G	18748044.71	18748044.87	18748045.03	0.0138	0.0078
Mercury	46618-07-18 16:48 G	18748133.02	18748133.20	18748133.39	0.0138	0.0048
Mercury	46618-10-15 00:43 G	18748221.34	18748221.53	18748221.73	0.0137	0.0019
Mercury	46619-01-11 08:38 G	18748309.67	18748309.86	18748310.06	0.0137	0.0012
Mercury	46619-04-09 16:34 G	18748398.01	18748398.19	18748398.38	0.0137	0.0040
Mercury	46619-07-07 00:29 G	18748486.36	18748486.52	18748486.69	0.0137	0.0070
Mercury	46619-10-03 08:10 G	18748574.72	18748574.84	18748574.99	0.0137	0.0099
Mercury	46619-12-30 15:50 G	18748663.11	18748663.16	18748663.25	0.0137	0.0128
Venus	46630-09-29 04:48 G	18752588.65	18752588.70	18752588.78	0.0134	0.0128
Venus	46631-05-13 10:34 G	18752814.82	18752814.94	18752815.09	0.0134	0.0103
Venus	46631-12-25 16:19 G	18753041.01	18753041.18	18753041.36	0.0134	0.0078
Venus	46632-08-07 21:50 G	18753267.22	18753267.41	18753267.62	0.0134	0.0053
Venus	46633-03-22 03:22 G	18753493.44	18753493.64	18753493.86	0.0134	0.0028
Venus	46633-11-03 09:07 G	18753719.66	18753719.88	18753720.09	0.0134	0.0003
Venus	46634-06-17 14:24 G	18753945.89	18753946.10	18753946.32	0.0134	0.0023
Venus	46635-01-29 19:41 G	18754172.13	18754172.32	18754172.53	0.0134	0.0048
Venus	46635-09-13 01:12 G	18754398.37	18754398.55	18754398.74	0.0134	0.0073
Venus	46636-04-26 06:29 G	18754624.64	18754624.77	18754624.93	0.0134	0.0098
Moon	46636-07-15 13:12 G	18754704.87	18754705.05	18754705.26	0.0134	0.0088
Earth	46636-07-15 16:34 G	18754705.03	18754705.19	18754705.39	0.0134	0.0094 *
Venus	46636-12-08 11:46 G	18754850.93	18754850.99	18754851.10	0.0134	0.0123
Earth	46637-07-19 23:02 G	18755074.22	18755074.46	18755074.71	0.0134	0.0028
Moon	46637-07-20 01:55 G	18755074.35	18755074.58	18755074.83	0.0134	0.0035 *
Moon	46638-07-24 01:55 G	18755443.34	18755443.58	18755443.82	0.0134	0.0045
Earth	46638-07-24 05:02 G	18755443.48	18755443.71	18755443.97	0.0134	0.0039 *
Earth	46639-07-28 11:31 G	18755812.82	18755812.98	18755813.14	0.0134	0.0104
Moon	46639-07-28 14:24 G	18755812.94	18755813.10	18755813.27	0.0134	0.0100 *

Mars	46654-10-27 20:38 G	18761383.08	18761383.36	18761383.65	0.0138	0.0030
Mercury	46661-07-13 18:14 G	18763834.21	18763834.26	18763834.33	0.0140	0.0123
Mercury	46661-10-09 21:50 G	18763922.32	18763922.41	18763922.49	0.0140	0.0102
Mercury	46662-01-06 00:58 G	18764010.44	18764010.54	18764010.65	0.0140	0.0081
Mercury	46662-04-04 04:05 G	18764098.56	18764098.67	18764098.79	0.0141	0.0061
Mercury	46662-07-01 07:26 G	18764186.69	18764186.81	18764186.94	0.0141	0.0040
Mercury	46662-09-27 10:48 G	18764274.82	18764274.95	18764275.08	0.0141	0.0019
Mercury	46662-12-24 14:10 G	18764362.96	18764363.09	18764363.22	0.0141	0.0002
Mercury	46663-03-22 17:17 G	18764451.10	18764451.22	18764451.35	0.0141	0.0024
Mercury	46663-06-18 20:38 G	18764539.24	18764539.36	18764539.49	0.0141	0.0045
Mercury	46663-09-15 00:00 G	18764627.39	18764627.50	18764627.62	0.0141	0.0066
Mercury	46663-12-12 03:22 G	18764715.54	18764715.64	18764715.74	0.0141	0.0087
Mercury	46664-03-09 06:29 G	18764803.70	18764803.77	18764803.86	0.0141	0.0108
Mercury	46664-06-05 09:50 G	18764891.87	18764891.91	18764891.97	0.0141	0.0130
Venus	46673-07-01 04:34 G	18768204.66	18768204.69	18768204.75	0.0144	0.0141
Venus	46674-02-12 16:19 G	18768431.06	18768431.18	18768431.34	0.0144	0.0110
Venus	46674-09-27 04:19 G	18768657.51	18768657.68	18768657.88	0.0144	0.0079
Venus	46675-05-11 16:19 G	18768883.98	18768884.18	18768884.40	0.0145	0.0047
Venus	46675-12-24 04:34 G	18769110.47	18769110.69	18769110.90	0.0145	0.0015
Venus	46676-08-06 16:19 G	18769336.97	18769337.18	18769337.40	0.0145	0.0018
Venus	46677-03-21 04:19 G	18769563.49	18769563.68	18769563.89	0.0145	0.0050
Venus	46677-11-02 16:34 G	18769790.02	18769790.19	18769790.38	0.0145	0.0082
Earth	46678-01-12 23:31 G	18769861.48	18769861.48	18769861.51	0.0145	0.0144
Venus	46678-06-17 04:48 G	18770016.58	18770016.70	18770016.84	0.0145	0.0114
Moon	46679-01-18 00:29 G	18770231.29	18770231.52	18770231.75	0.0145	0.0052
Earth	46679-01-18 02:38 G	18770231.38	18770231.61	18770231.85	0.0145	0.0059 *
Earth	46680-01-23 05:31 G	18770601.48	18770601.73	18770601.98	0.0145	0.0027
Moon	46680-01-23 07:55 G	18770601.57	18770601.83	18770602.09	0.0145	0.0021 *
Moon	46681-01-27 04:48 G	18770971.56	18770971.70	18770971.87	0.0145	0.0114
Earth	46681-01-27 08:10 G	18770971.68	18770971.84	18770972.00	0.0145	0.0112 *

Mercury	46701-11-17 00:29 G	18778569.46	18778569.52	18778569.60	0.0138	0.0128
Mercury	46702-02-13 08:38 G	18778657.73	18778657.86	18778658.00	0.0138	0.0098
Mercury	46702-05-12 16:34 G	18778746.03	18778746.19	18778746.37	0.0138	0.0068
Mercury	46702-08-09 00:43 G	18778834.34	18778834.53	18778834.72	0.0138	0.0039
Mercury	46702-11-05 08:38 G	18778922.67	18778922.86	18778923.06	0.0137	0.0009
Mercury	46703-02-01 16:34 G	18779011.00	18779011.19	18779011.39	0.0137	0.0021
Mercury	46703-05-01 00:14 G	18779099.34	18779099.51	18779099.71	0.0137	0.0051
Mercury	46703-07-28 08:10 G	18779187.69	18779187.84	18779188.01	0.0137	0.0079
Mercury	46703-10-24 16:05 G	18779276.06	18779276.17	18779276.30	0.0137	0.0108
Venus	46715-01-11 21:07 G	18783373.28	18783373.38	18783373.51	0.0134	0.0112
Venus	46715-08-26 02:53 G	18783599.46	18783599.62	18783599.79	0.0134	0.0087
Venus	46716-04-08 08:38 G	18783825.67	18783825.86	18783826.06	0.0134	0.0062
Venus	46716-11-20 14:10 G	18784051.88	18784052.09	18784052.30	0.0134	0.0037
Venus	46717-07-04 19:41 G	18784278.10	18784278.32	18784278.54	0.0134	0.0012
Venus	46718-02-16 00:58 G	18784504.33	18784504.54	18784504.76	0.0134	0.0014
Venus	46718-09-30 06:29 G	18784730.57	18784730.77	18784730.98	0.0134	0.0039
Venus	46719-05-14 12:00 G	18784956.82	18784957.00	18784957.20	0.0134	0.0064
Venus	46719-12-26 17:17 G	18785183.07	18785183.22	18785183.40	0.0134	0.0089
Moon	46720-07-17 00:58 G	18785386.38	18785386.54	18785386.74	0.0134	0.0096
Earth	46720-07-17 04:34 G	18785386.52	18785386.69	18785386.89	0.0134	0.0089 *
Venus	46720-08-08 22:34 G	18785409.35	18785409.44	18785409.57	0.0134	0.0114
Earth	46721-07-21 10:48 G	18785755.71	18785755.95	18785756.20	0.0134	0.0023
Moon	46721-07-21 14:24 G	18785755.86	18785756.10	18785756.36	0.0134	0.0016 *
Moon	46722-07-25 13:41 G	18786124.83	18786125.07	18786125.32	0.0134	0.0037
Earth	46722-07-25 16:48 G	18786124.97	18786125.20	18786125.45	0.0134	0.0044 *
Earth	46723-07-29 22:48 G	18786494.32	18786494.45	18786494.61	0.0134	0.0109
Moon	46723-07-30 02:10 G	18786494.48	18786494.59	18786494.74	0.0134	0.0114 *
Mercury	46745-05-07 22:34 G	18794447.42	18794447.44	18794447.47	0.0140	0.0137
Mercury	46745-08-04 01:41 G	18794535.51	18794535.57	18794535.65	0.0140	0.0117
Mercury	46745-10-31 05:02 G	18794623.62	18794623.71	18794623.81	0.0140	0.0096

Mercury	46746-01-27 08:24 G	18794711.74	18794711.85	18794711.96	0.0141	0.0075
Mercury	46746-04-25 11:46 G	18794799.87	18794799.99	18794800.11	0.0141	0.0054
Mercury	46746-07-22 14:53 G	18794888.00	18794888.12	18794888.25	0.0141	0.0034
Mercury	46746-10-18 18:14 G	18794976.13	18794976.26	18794976.39	0.0141	0.0013
Mercury	46747-01-14 21:36 G	18795064.27	18795064.40	18795064.53	0.0141	0.0009
Mercury	46747-04-13 00:58 G	18795152.41	18795152.54	18795152.67	0.0141	0.0030
Mercury	46747-07-10 04:05 G	18795240.56	18795240.67	18795240.80	0.0141	0.0051
Mercury	46747-10-06 07:26 G	18795328.70	18795328.81	18795328.93	0.0141	0.0072
Mercury	46748-01-02 10:48 G	18795416.86	18795416.95	18795417.05	0.0141	0.0093
Mercury	46748-03-30 14:10 G	18795505.02	18795505.09	18795505.17	0.0141	0.0115
Mercury	46748-06-26 17:31 G	18795593.20	18795593.23	18795593.27	0.0141	0.0136
Venus	46757-10-13 23:46 G	18798989.39	18798989.49	18798989.62	0.0144	0.0122
Venus	46758-05-28 11:46 G	18799215.83	18799215.99	18799216.17	0.0144	0.0091
Venus	46759-01-09 23:31 G	18799442.29	18799442.48	18799442.69	0.0144	0.0059
Venus	46759-08-24 11:31 G	18799668.77	18799668.98	18799669.20	0.0144	0.0028
Venus	46760-04-06 23:46 G	18799895.27	18799895.49	18799895.71	0.0145	0.0005
Venus	46760-11-19 11:46 G	18800121.79	18800121.99	18800122.21	0.0145	0.0038
Venus	46761-07-03 23:46 G	18800348.31	18800348.49	18800348.69	0.0145	0.0070
Earth	46762-01-14 11:31 G	18800542.92	18800542.98	18800543.05	0.0145	0.0139
Moon	46762-01-14 12:00 G	18800542.92	18800543.00	18800543.13	0.0145	0.0133 *
Venus	46762-02-15 11:46 G	18800574.85	18800574.99	18800575.16	0.0145	0.0102
Venus	46762-09-30 00:29 G	18800801.43	18800801.52	18800801.60	0.0145	0.0133
Moon	46763-01-19 12:58 G	18800912.83	18800913.04	18800913.28	0.0145	0.0062
Earth	46763-01-19 14:10 G	18800912.86	18800913.09	18800913.34	0.0145	0.0054 *
Earth	46764-01-24 17:17 G	18801282.97	18801283.22	18801283.47	0.0145	0.0032
Moon	46764-01-24 19:12 G	18801283.06	18801283.30	18801283.57	0.0145	0.0038 *
Moon	46765-01-28 16:48 G	18801653.07	18801653.20	18801653.37	0.0145	0.0115
Earth	46765-01-28 19:26 G	18801653.18	18801653.31	18801653.47	0.0145	0.0118 *
Mercury	46785-12-07 07:55 G	18809270.75	18809270.83	18809270.94	0.0138	0.0120
Mercury	46786-03-05 16:05 G	18809359.03	18809359.17	18809359.32	0.0138	0.0090

Mercury	46786-06-02 00:14 G	18809447.33	18809447.51	18809447.69	0.0138	0.0060
Mercury	46786-08-29 08:10 G	18809535.65	18809535.84	18809536.03	0.0137	0.0030
Mercury	46786-11-25 16:05 G	18809623.97	18809624.17	18809624.37	0.0137	0.0001
Mercury	46787-02-22 00:00 G	18809712.31	18809712.50	18809712.69	0.0137	0.0029
Mercury	46787-05-21 07:41 G	18809800.65	18809800.82	18809801.01	0.0137	0.0059
Mercury	46787-08-17 15:36 G	18809889.01	18809889.15	18809889.31	0.0137	0.0088
Mercury	46787-11-13 23:31 G	18809977.39	18809977.48	18809977.59	0.0137	0.0116
Venus	46798-09-11 06:58 G	18813931.72	18813931.79	18813931.90	0.0134	0.0122
Venus	46799-04-25 12:43 G	18814157.90	18814158.03	18814158.20	0.0134	0.0097
Venus	46799-12-07 18:29 G	18814384.10	18814384.27	18814384.46	0.0134	0.0072
Venus	46800-07-21 00:00 G	18814610.31	18814610.50	18814610.71	0.0134	0.0047
Venus	46801-03-04 05:46 G	18814836.53	18814836.74	18814836.96	0.0134	0.0021
Venus	46801-10-16 11:17 G	18815062.75	18815062.97	18815063.19	0.0134	0.0004
Venus	46802-05-30 16:48 G	18815288.99	18815289.20	18815289.42	0.0134	0.0029
Venus	46803-01-11 22:05 G	18815515.23	18815515.42	18815515.63	0.0134	0.0055
Venus	46803-08-26 03:22 G	18815741.48	18815741.64	18815741.83	0.0133	0.0080
Venus	46804-04-08 08:53 G	18815967.75	18815967.87	18815968.02	0.0133	0.0105
Moon	46804-07-17 12:00 G	18816067.80	18816068.00	18816068.21	0.0133	0.0079
Earth	46804-07-17 15:22 G	18816067.96	18816068.14	18816068.35	0.0133	0.0085 *
Venus	46804-11-20 14:38 G	18816194.06	18816194.11	18816194.17	0.0133	0.0129
Earth	46805-07-21 21:50 G	18816437.16	18816437.41	18816437.66	0.0133	0.0019
Moon	46805-07-22 01:12 G	18816437.30	18816437.55	18816437.80	0.0133	0.0026 *
Moon	46806-07-25 23:46 G	18816806.28	18816806.49	18816806.74	0.0134	0.0055
Earth	46806-07-26 03:50 G	18816806.43	18816806.66	18816806.90	0.0134	0.0047 *
Earth	46807-07-30 09:36 G	18817175.78	18817175.90	18817176.04	0.0134	0.0113
Moon	46807-07-30 12:58 G	18817175.91	18817176.04	18817176.20	0.0134	0.0108 *
Mars	46822-03-17 13:12 G	18822519.81	18822520.05	18822520.30	0.0137	0.0076
Mercury	46829-05-28 05:46 G	18825148.70	18825148.74	18825148.78	0.0140	0.0132
Mercury	46829-08-24 09:07 G	18825236.80	18825236.88	18825236.96	0.0140	0.0112
Mercury	46829-11-20 12:14 G	18825324.92	18825325.01	18825325.11	0.0140	0.0091

Mercury	46830-02-16 15:36 G	18825413.04	18825413.15	18825413.26	0.0141	0.0070
Mercury	46830-05-15 18:58 G	18825501.17	18825501.29	18825501.41	0.0141	0.0050
Mercury	46830-08-11 22:05 G	18825589.30	18825589.42	18825589.55	0.0141	0.0029
Mercury	46830-11-08 01:26 G	18825677.43	18825677.56	18825677.69	0.0141	0.0008
Mercury	46831-02-04 04:48 G	18825765.57	18825765.70	18825765.83	0.0141	0.0013
Mercury	46831-05-03 08:10 G	18825853.71	18825853.84	18825853.96	0.0141	0.0034
Mercury	46831-07-30 11:31 G	18825941.86	18825941.98	18825942.10	0.0141	0.0055
Mercury	46831-10-26 14:38 G	18826030.01	18826030.11	18826030.22	0.0141	0.0077
Mercury	46832-01-22 18:00 G	18826118.16	18826118.25	18826118.35	0.0141	0.0098
Mercury	46832-04-19 21:07 G	18826206.32	18826206.38	18826206.46	0.0141	0.0120
Mercury	46832-07-17 00:29 G	18826294.52	18826294.52	18826294.55	0.0141	0.0141
Venus	46841-06-13 05:17 G	18829547.67	18829547.72	18829547.81	0.0144	0.0136
Venus	46842-01-25 17:02 G	18829774.08	18829774.21	18829774.38	0.0144	0.0105
Venus	46842-09-09 05:02 G	18830000.54	18830000.71	18830000.91	0.0144	0.0073
Venus	46843-04-23 17:17 G	18830227.01	18830227.22	18830227.43	0.0144	0.0040
Venus	46843-12-06 05:17 G	18830453.51	18830453.72	18830453.94	0.0145	0.0009
Venus	46844-07-19 17:17 G	18830680.01	18830680.22	18830680.44	0.0145	0.0024
Venus	46845-03-03 05:31 G	18830906.53	18830906.73	18830906.93	0.0145	0.0056
Venus	46845-10-15 17:46 G	18831133.07	18831133.24	18831133.41	0.0145	0.0088
Moon	46846-01-14 19:55 G	18831224.27	18831224.33	18831224.39	0.0145	0.0140
Earth	46846-01-14 20:10 G	18831224.27	18831224.34	18831224.44	0.0145	0.0136 *
Venus	46846-05-30 05:46 G	18831359.63	18831359.74	18831359.87	0.0145	0.0120
Moon	46847-01-19 22:19 G	18831594.20	18831594.43	18831594.67	0.0145	0.0044
Earth	46847-01-19 23:17 G	18831594.24	18831594.47	18831594.71	0.0145	0.0051 *
Earth	46848-01-25 02:10 G	18831964.34	18831964.59	18831964.84	0.0145	0.0035
Moon	46848-01-25 03:22 G	18831964.38	18831964.64	18831964.90	0.0145	0.0028 *
Moon	46849-01-29 02:24 G	18832334.48	18832334.60	18832334.73	0.0145	0.0123
Earth	46849-01-29 04:19 G	18832334.55	18832334.68	18832334.83	0.0145	0.0120 *
Mars	46862-07-23 09:36 G	18837257.59	18837257.90	18837258.23	0.0141	0.0021
Mercury	46869-12-27 15:22 G	18839972.03	18839972.14	18839972.26	0.0138	0.0112

Mercury	46870-03-25 23:31 G	18840060.32	18840060.48	18840060.64	0.0138	0.0082
Mercury	46870-06-22 07:12 G	18840148.63	18840148.80	18840149.00	0.0138	0.0053
Mercury	46870-09-18 15:22 G	18840236.95	18840237.14	18840237.34	0.0137	0.0023
Mercury	46870-12-15 23:31 G	18840325.28	18840325.48	18840325.67	0.0137	0.0007
Mercury	46871-03-14 07:26 G	18840413.62	18840413.81	18840414.00	0.0137	0.0037
Mercury	46871-06-10 15:07 G	18840501.97	18840502.13	18840502.31	0.0137	0.0066
Mercury	46871-09-06 23:02 G	18840590.33	18840590.46	18840590.61	0.0137	0.0095
Mercury	46871-12-04 06:58 G	18840678.72	18840678.79	18840678.88	0.0137	0.0124
Venus	46882-05-11 17:17 G	18844490.19	18844490.22	18844490.28	0.0134	0.0131
Venus	46882-12-23 23:02 G	18844716.34	18844716.46	18844716.60	0.0134	0.0106
Venus	46883-08-07 04:34 G	18844942.53	18844942.69	18844942.88	0.0134	0.0081
Venus	46884-03-20 10:19 G	18845168.74	18845168.93	18845169.14	0.0134	0.0056
Venus	46884-11-01 16:05 G	18845394.96	18845395.17	18845395.39	0.0134	0.0030
Venus	46885-06-15 21:50 G	18845621.19	18845621.41	18845621.62	0.0134	0.0005
Venus	46886-01-28 03:07 G	18845847.42	18845847.63	18845847.85	0.0134	0.0021
Venus	46886-09-11 08:38 G	18846073.66	18846073.86	18846074.07	0.0134	0.0046
Venus	46887-04-25 14:10 G	18846299.91	18846300.09	18846300.28	0.0134	0.0071
Venus	46887-12-07 19:26 G	18846526.17	18846526.31	18846526.47	0.0133	0.0096
Moon	46888-07-17 23:17 G	18846749.29	18846749.47	18846749.67	0.0133	0.0087
Earth	46888-07-18 02:53 G	18846749.43	18846749.62	18846749.83	0.0133	0.0081 *
Venus	46888-07-21 00:43 G	18846752.45	18846752.53	18846752.64	0.0133	0.0121
Earth	46889-07-22 08:53 G	18847118.62	18847118.87	18847119.12	0.0133	0.0015
Moon	46889-07-22 12:29 G	18847118.77	18847119.02	18847119.28	0.0133	0.0008 *
Moon	46890-07-26 11:02 G	18847487.74	18847487.96	18847488.21	0.0134	0.0045
Earth	46890-07-26 14:38 G	18847487.89	18847488.11	18847488.35	0.0134	0.0051 *
Earth	46891-07-30 20:10 G	18847857.24	18847857.34	18847857.49	0.0134	0.0117
Moon	46891-07-31 00:14 G	18847857.42	18847857.51	18847857.62	0.0134	0.0122 *
Mars	46906-11-11 02:38 G	18853438.38	18853438.61	18853438.86	0.0137	0.0080
Mercury	46913-06-18 12:43 G	18855849.99	18855850.03	18855850.09	0.0140	0.0128
Mercury	46913-09-14 16:05 G	18855938.09	18855938.17	18855938.26	0.0140	0.0107

Mercury	46913-12-11 19:26 G	18856026.21	18856026.31	18856026.41	0.0140	0.0087
Mercury	46914-03-09 22:34 G	18856114.33	18856114.44	18856114.56	0.0140	0.0067
Mercury	46914-06-06 01:55 G	18856202.46	18856202.58	18856202.71	0.0141	0.0046
Mercury	46914-09-02 05:17 G	18856290.59	18856290.72	18856290.85	0.0141	0.0024
Mercury	46914-11-29 08:38 G	18856378.73	18856378.86	18856378.99	0.0141	0.0004
Mercury	46915-02-25 12:00 G	18856466.87	18856467.00	18856467.12	0.0141	0.0018
Mercury	46915-05-24 15:07 G	18856555.01	18856555.13	18856555.26	0.0141	0.0039
Mercury	46915-08-20 18:29 G	18856643.15	18856643.27	18856643.39	0.0141	0.0060
Mercury	46915-11-16 21:36 G	18856731.30	18856731.40	18856731.52	0.0141	0.0081
Mercury	46916-02-13 00:58 G	18856819.46	18856819.54	18856819.64	0.0141	0.0102
Mercury	46916-05-11 04:19 G	18856907.63	18856907.68	18856907.75	0.0141	0.0123
Venus	46925-09-25 22:19 G	18860332.31	18860332.43	18860332.56	0.0144	0.0117
Venus	46926-05-10 09:50 G	18860558.75	18860558.91	18860559.10	0.0144	0.0087
Venus	46926-12-22 21:50 G	18860785.22	18860785.41	18860785.62	0.0144	0.0055
Venus	46927-08-06 09:50 G	18861011.70	18861011.91	18861012.13	0.0144	0.0023
Venus	46928-03-19 21:50 G	18861238.20	18861238.41	18861238.63	0.0144	0.0011
Venus	46928-11-01 10:05 G	18861464.72	18861464.92	18861465.13	0.0145	0.0042
Venus	46929-06-15 21:50 G	18861691.24	18861691.41	18861691.62	0.0145	0.0075
Moon	46930-01-16 02:24 G	18861905.50	18861905.60	18861905.73	0.0145	0.0130
Earth	46930-01-16 03:07 G	18861905.56	18861905.63	18861905.74	0.0145	0.0135 *
Venus	46930-01-28 10:19 G	18861917.78	18861917.93	18861918.08	0.0145	0.0106
Venus	46930-09-11 22:05 G	18862144.37	18862144.42	18862144.50	0.0145	0.0138
Earth	46931-01-21 06:00 G	18862275.52	18862275.75	18862276.00	0.0145	0.0050
Moon	46931-01-21 06:29 G	18862275.56	18862275.77	18862276.01	0.0145	0.0057 *
Earth	46932-01-26 08:53 G	18862645.62	18862645.87	18862646.12	0.0145	0.0036
Moon	46932-01-26 09:22 G	18862645.64	18862645.89	18862646.15	0.0145	0.0043 *
Moon	46933-01-30 09:50 G	18863015.77	18863015.91	18863016.06	0.0145	0.0117
Earth	46933-01-30 10:48 G	18863015.83	18863015.95	18863016.10	0.0145	0.0122 *
Mercury	46954-01-17 21:36 G	18870673.28	18870673.40	18870673.52	0.0138	0.0108
Mercury	46954-04-16 05:46 G	18870761.57	18870761.74	18870761.90	0.0138	0.0078

Mercury	46954-07-13 13:26 G	18870849.88	18870850.06	18870850.25	0.0138	0.0049
Mercury	46954-10-09 21:36 G	18870938.21	18870938.40	18870938.60	0.0137	0.0019
Mercury	46955-01-06 05:31 G	18871026.54	18871026.73	18871026.93	0.0137	0.0011
Mercury	46955-04-04 13:26 G	18871114.88	18871115.06	18871115.25	0.0137	0.0041
Mercury	46955-07-01 21:22 G	18871203.23	18871203.39	18871203.57	0.0137	0.0070
Mercury	46955-09-28 05:17 G	18871291.59	18871291.72	18871291.86	0.0137	0.0099
Mercury	46955-12-25 13:12 G	18871379.99	18871380.05	18871380.12	0.0137	0.0128
Venus	46966-08-24 07:41 G	18875274.73	18875274.82	18875274.95	0.0134	0.0116
Venus	46967-04-07 13:41 G	18875500.92	18875501.07	18875501.24	0.0134	0.0091
Venus	46967-11-19 19:41 G	18875727.13	18875727.32	18875727.51	0.0134	0.0065
Venus	46968-07-03 01:12 G	18875953.35	18875953.55	18875953.76	0.0134	0.0040
Venus	46969-02-14 06:43 G	18876179.57	18876179.78	18876180.00	0.0134	0.0015
Venus	46969-09-28 12:29 G	18876405.80	18876406.02	18876406.24	0.0134	0.0011
Venus	46970-05-12 18:00 G	18876632.05	18876632.25	18876632.46	0.0134	0.0036
Venus	46970-12-24 23:31 G	18876858.29	18876858.48	18876858.68	0.0134	0.0061
Venus	46971-08-08 05:02 G	18877084.55	18877084.71	18877084.88	0.0134	0.0086
Venus	46972-03-21 10:19 G	18877310.82	18877310.93	18877311.06	0.0134	0.0111
Moon	46972-07-19 08:53 G	18877430.68	18877430.87	18877431.10	0.0134	0.0074
Earth	46972-07-19 12:29 G	18877430.82	18877431.02	18877431.23	0.0134	0.0078 *
Earth	46973-07-23 18:14 G	18877800.01	18877800.26	18877800.52	0.0134	0.0013
Moon	46973-07-23 21:50 G	18877800.15	18877800.41	18877800.66	0.0134	0.0019 *
Moon	46974-07-27 20:38 G	18878169.15	18878169.36	18878169.59	0.0134	0.0061
Earth	46974-07-28 00:00 G	18878169.29	18878169.50	18878169.75	0.0134	0.0054 *
Earth	46975-08-01 06:14 G	18878538.65	18878538.76	18878538.88	0.0134	0.0119
Moon	46975-08-01 09:22 G	18878538.77	18878538.89	18878539.04	0.0134	0.0113 *
Mercury	46997-07-08 19:55 G	18886551.28	18886551.33	18886551.40	0.0140	0.0123
Mercury	46997-10-04 23:31 G	18886639.39	18886639.48	18886639.57	0.0140	0.0102
Mercury	46998-01-01 02:38 G	18886727.51	18886727.61	18886727.72	0.0140	0.0082
Mercury	46998-03-30 06:00 G	18886815.63	18886815.75	18886815.87	0.0140	0.0061
Mercury	46998-06-26 09:07 G	18886903.76	18886903.88	18886904.01	0.0140	0.0041

Mercury	46998-09-22 12:29 G	18886991.89	18886992.02	18886992.15	0.0141	0.0020
Mercury	46998-12-19 15:50 G	18887080.03	18887080.16	18887080.29	0.0141	0.0002
Mercury	46999-03-17 18:58 G	18887168.17	18887168.29	18887168.42	0.0141	0.0023
Mercury	46999-06-13 22:19 G	18887256.31	18887256.43	18887256.56	0.0141	0.0043
Mercury	46999-09-10 01:41 G	18887344.45	18887344.57	18887344.69	0.0141	0.0064
Mercury	46999-12-07 05:02 G	18887432.61	18887432.71	18887432.81	0.0141	0.0085
Mercury	47000-03-05 08:24 G	18887520.76	18887520.85	18887520.93	0.0141	0.0107
Mercury	47000-06-01 11:46 G	18887608.93	18887608.99	18887609.04	0.0141	0.0128

48TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 48th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	47009-05-27 03:22 G		18890890.57	18890890.64	18890890.75	0.0144	0.0131	
Venus	47010-01-08 15:22 G		18891116.99	18891117.14	18891117.30	0.0144	0.0099	
Venus	47010-08-23 02:53 G		18891343.44	18891343.62	18891343.82	0.0144	0.0068	
Venus	47011-04-06 14:53 G		18891569.92	18891570.12	18891570.34	0.0144	0.0036	
Venus	47011-11-19 03:07 G		18891796.41	18891796.63	18891796.85	0.0144	0.0004	
Venus	47012-07-02 14:53 G		18892022.91	18892023.12	18892023.34	0.0144	0.0029	
Venus	47013-02-14 02:53 G		18892249.43	18892249.62	18892249.82	0.0145	0.0060	
Venus	47013-09-28 14:53 G		18892475.96	18892476.12	18892476.29	0.0145	0.0093	
Moon	47014-01-17 08:10 G		18892586.78	18892586.84	18892586.95	0.0145	0.0136	
Earth	47014-01-17 10:48 G		18892586.86	18892586.95	18892587.05	0.0145	0.0133	*
Venus	47014-05-13 02:38 G		18892702.52	18892702.61	18892702.74	0.0145	0.0125	

Earth	47015-01-22 13:12 G	18892956.82	18892957.05	18892957.30	0.0145	0.0048
Moon	47015-01-22 14:10 G	18892956.86	18892957.09	18892957.33	0.0145	0.0042 *
Moon	47016-01-27 15:07 G	18893326.88	18893327.13	18893327.40	0.0145	0.0030
Earth	47016-01-27 15:36 G	18893326.91	18893327.15	18893327.41	0.0145	0.0038 *
Earth	47017-01-31 17:46 G	18893697.11	18893697.24	18893697.38	0.0145	0.0122
Moon	47017-01-31 17:17 G	18893697.12	18893697.22	18893697.35	0.0145	0.0127 *
Mars	47029-12-09 18:14 G	18898392.16	18898392.26	18898392.39	0.0141	0.0131
Mercury	47037-11-11 19:26 G	18901286.28	18901286.31	18901286.37	0.0138	0.0134
Mercury	47038-02-08 03:36 G	18901374.53	18901374.65	18901374.79	0.0138	0.0104
Mercury	47038-05-07 11:46 G	18901462.83	18901462.99	18901463.16	0.0138	0.0074
Mercury	47038-08-03 19:41 G	18901551.14	18901551.32	18901551.51	0.0138	0.0044
Mercury	47038-10-31 03:50 G	18901639.46	18901639.66	18901639.86	0.0138	0.0014
Mercury	47039-01-27 11:46 G	18901727.80	18901727.99	18901728.19	0.0137	0.0015
Mercury	47039-04-25 19:26 G	18901816.14	18901816.31	18901816.51	0.0137	0.0046
Mercury	47039-07-23 03:36 G	18901904.49	18901904.65	18901904.82	0.0137	0.0074
Mercury	47039-10-19 11:31 G	18901992.86	18901992.98	18901993.11	0.0137	0.0104
Mercury	47040-01-15 19:12 G	18902081.27	18902081.30	18902081.36	0.0137	0.0133
Venus	47050-04-24 16:48 G	18905833.14	18905833.20	18905833.28	0.0134	0.0126
Venus	47050-12-06 22:34 G	18906059.31	18906059.44	18906059.60	0.0134	0.0101
Venus	47051-07-21 04:19 G	18906285.51	18906285.68	18906285.87	0.0134	0.0076
Venus	47052-03-03 10:19 G	18906511.73	18906511.93	18906512.13	0.0134	0.0050
Venus	47052-10-15 16:05 G	18906737.96	18906738.17	18906738.38	0.0134	0.0025
Venus	47053-05-29 21:50 G	18906964.19	18906964.41	18906964.63	0.0134	0.0001
Venus	47054-01-11 03:22 G	18907190.43	18907190.64	18907190.85	0.0134	0.0026
Venus	47054-08-25 08:38 G	18907416.67	18907416.86	18907417.07	0.0134	0.0052
Venus	47055-04-08 14:10 G	18907642.93	18907643.09	18907643.28	0.0134	0.0077
Venus	47055-11-20 19:41 G	18907869.19	18907869.32	18907869.47	0.0134	0.0102
Venus	47056-07-04 00:58 G	18908095.49	18908095.54	18908095.62	0.0134	0.0127
Moon	47056-07-20 18:58 G	18908112.10	18908112.29	18908112.49	0.0134	0.0080
Earth	47056-07-20 22:05 G	18908112.21	18908112.42	18908112.63	0.0134	0.0075 *

Earth	47057-07-25 04:05 G	18908481.42	18908481.67	18908481.92	0.0134	0.0010
Moon	47057-07-25 07:12 G	18908481.54	18908481.80	18908482.06	0.0134	0.0003 *
Moon	47058-07-29 06:58 G	18908850.57	18908850.79	18908851.03	0.0134	0.0050
Earth	47058-07-29 09:36 G	18908850.69	18908850.90	18908851.15	0.0134	0.0057 *
Earth	47059-08-02 15:36 G	18909220.07	18909220.15	18909220.27	0.0134	0.0122
Moon	47059-08-02 19:12 G	18909220.24	18909220.30	18909220.38	0.0134	0.0128 *
Mars	47074-03-31 18:29 G	18914574.99	18914575.27	18914575.56	0.0137	0.0029
Mercury	47081-05-03 00:00 G	18917164.50	18917164.50	18917164.54	0.0140	0.0138
Mercury	47081-07-30 03:22 G	18917252.58	18917252.64	18917252.72	0.0140	0.0118
Mercury	47081-10-26 06:58 G	18917340.69	18917340.79	18917340.88	0.0140	0.0097
Mercury	47082-01-22 10:05 G	18917428.81	18917428.92	18917429.03	0.0140	0.0076
Mercury	47082-04-20 13:26 G	18917516.94	18917517.06	18917517.18	0.0140	0.0055
Mercury	47082-07-17 16:34 G	18917605.07	18917605.19	18917605.32	0.0140	0.0035
Mercury	47082-10-13 19:55 G	18917693.20	18917693.33	18917693.46	0.0141	0.0014
Mercury	47083-01-09 23:17 G	18917781.34	18917781.47	18917781.60	0.0141	0.0008
Mercury	47083-04-08 02:24 G	18917869.48	18917869.60	18917869.73	0.0141	0.0028
Mercury	47083-07-05 05:46 G	18917957.62	18917957.74	18917957.86	0.0141	0.0049
Mercury	47083-10-01 09:07 G	18918045.77	18918045.88	18918045.99	0.0141	0.0070
Mercury	47083-12-28 12:14 G	18918133.92	18918134.01	18918134.11	0.0141	0.0091
Mercury	47084-03-25 15:36 G	18918222.08	18918222.15	18918222.23	0.0141	0.0113
Mercury	47084-06-21 18:58 G	18918310.25	18918310.29	18918310.33	0.0141	0.0134
Venus	47093-01-24 10:19 G	18921448.92	18921448.93	18921448.96	0.0144	0.0143
Venus	47093-09-07 22:05 G	18921675.30	18921675.42	18921675.57	0.0144	0.0112
Venus	47094-04-22 10:05 G	18921901.74	18921901.92	18921902.10	0.0144	0.0080
Venus	47094-12-04 21:50 G	18922128.20	18922128.41	18922128.61	0.0144	0.0049
Venus	47095-07-19 09:36 G	18922354.68	18922354.90	18922355.12	0.0144	0.0017
Venus	47096-03-01 21:36 G	18922581.18	18922581.40	18922581.61	0.0144	0.0016
Venus	47096-10-14 09:22 G	18922807.69	18922807.89	18922808.10	0.0144	0.0048
Venus	47097-05-28 21:22 G	18923034.21	18923034.39	18923034.58	0.0144	0.0080
Venus	47098-01-10 09:07 G	18923260.75	18923260.88	18923261.03	0.0144	0.0112

Moon	47098-01-17 18:29 G	18923268.16	18923268.27	18923268.41	0.0144	0.0126
Earth	47098-01-17 20:24 G	18923268.26	18923268.35	18923268.49	0.0144	0.0130 *
Venus	47098-08-24 20:38 G	18923487.36	18923487.36	18923487.41	0.0145	0.0144
Earth	47099-01-22 23:02 G	18923638.23	18923638.46	18923638.71	0.0145	0.0045
Moon	47099-01-23 01:12 G	18923638.32	18923638.55	18923638.78	0.0145	0.0051 *
Moon	47100-01-28 00:14 G	18924008.26	18924008.51	18924008.77	0.0145	0.0047
Earth	47100-01-28 01:12 G	18924008.31	18924008.55	18924008.80	0.0145	0.0041 *
Earth	47101-02-02 02:53 G	18924378.51	18924378.62	18924378.77	0.0144	0.0126
Moon	47101-02-02 03:22 G	18924378.52	18924378.64	18924378.79	0.0144	0.0120 *
Mars	47114-08-06 07:41 G	18929311.53	18929311.82	18929312.14	0.0141	0.0051
Mercury	47121-12-03 01:41 G	18931987.52	18931987.57	18931987.65	0.0138	0.0130
Mercury	47122-03-01 09:50 G	18932075.78	18932075.91	18932076.05	0.0138	0.0100
Mercury	47122-05-28 18:00 G	18932164.08	18932164.25	18932164.42	0.0138	0.0070
Mercury	47122-08-25 01:55 G	18932252.40	18932252.58	18932252.77	0.0138	0.0040
Mercury	47122-11-21 10:05 G	18932340.72	18932340.92	18932341.11	0.0137	0.0010
Mercury	47123-02-17 18:00 G	18932429.05	18932429.25	18932429.44	0.0137	0.0019
Mercury	47123-05-17 01:41 G	18932517.40	18932517.57	18932517.77	0.0137	0.0049
Mercury	47123-08-13 09:36 G	18932605.75	18932605.90	18932606.07	0.0137	0.0079
Mercury	47123-11-09 17:46 G	18932694.12	18932694.24	18932694.36	0.0137	0.0108
Mercury	47124-02-06 01:26 G	18932782.56	18932782.56	18932782.58	0.0137	0.0137
Venus	47134-08-07 06:43 G	18936617.68	18936617.78	18936617.91	0.0134	0.0112
Venus	47135-03-21 12:58 G	18936843.88	18936844.04	18936844.21	0.0134	0.0086
Venus	47135-11-02 18:43 G	18937070.09	18937070.28	18937070.48	0.0134	0.0061
Venus	47136-06-16 00:43 G	18937296.32	18937296.53	18937296.74	0.0134	0.0035
Venus	47137-01-28 06:14 G	18937522.55	18937522.76	18937522.98	0.0134	0.0010
Venus	47137-09-11 11:46 G	18937748.78	18937748.99	18937749.21	0.0134	0.0016
Venus	47138-04-25 17:31 G	18937975.03	18937975.23	18937975.44	0.0134	0.0041
Venus	47138-12-07 23:17 G	18938201.28	18938201.47	18938201.66	0.0134	0.0066
Venus	47139-07-22 04:19 G	18938427.54	18938427.68	18938427.85	0.0134	0.0092
Venus	47140-03-04 10:05 G	18938653.82	18938653.92	18938654.03	0.0134	0.0116

Moon	47140-07-22 04:05 G	18938793.48	18938793.67	18938793.90	0.0134	0.0070
Earth	47140-07-22 06:29 G	18938793.57	18938793.77	18938794.00	0.0134	0.0073 *
Earth	47141-07-26 12:43 G	18939162.78	18939163.03	18939163.28	0.0134	0.0007
Moon	47141-07-26 15:22 G	18939162.88	18939163.14	18939163.40	0.0134	0.0013 *
Moon	47142-07-30 15:50 G	18939531.96	18939532.16	18939532.38	0.0134	0.0066
Earth	47142-07-30 18:29 G	18939532.06	18939532.27	18939532.51	0.0134	0.0059 *
Earth	47143-08-04 00:29 G	18939901.45	18939901.52	18939901.63	0.0134	0.0125
Moon	47143-08-04 03:07 G	18939901.53	18939901.63	18939901.77	0.0134	0.0118 *
Jupiter	47149-01-08 06:43 G	18941885.74	18941885.78	18941885.91	0.0135	0.0133
Mars	47158-11-25 10:19 G	18945493.84	18945493.93	18945494.05	0.0138	0.0129
Mercury	47165-05-24 07:26 G	18947865.78	18947865.81	18947865.87	0.0140	0.0133
Mercury	47165-08-20 11:02 G	18947953.88	18947953.96	18947954.04	0.0140	0.0111
Mercury	47165-11-16 14:10 G	18948042.00	18948042.09	18948042.19	0.0140	0.0091
Mercury	47166-02-12 17:31 G	18948130.12	18948130.23	18948130.34	0.0140	0.0070
Mercury	47166-05-11 20:38 G	18948218.25	18948218.36	18948218.49	0.0140	0.0050
Mercury	47166-08-08 00:00 G	18948306.38	18948306.50	18948306.63	0.0141	0.0029
Mercury	47166-11-04 03:22 G	18948394.51	18948394.64	18948394.77	0.0141	0.0008
Mercury	47167-01-31 06:43 G	18948482.65	18948482.78	18948482.91	0.0141	0.0014
Mercury	47167-04-29 09:50 G	18948570.79	18948570.91	18948571.04	0.0141	0.0034
Mercury	47167-07-26 13:12 G	18948658.93	18948659.05	18948659.17	0.0141	0.0055
Mercury	47167-10-22 16:34 G	18948747.08	18948747.19	18948747.30	0.0141	0.0076
Mercury	47168-01-18 19:41 G	18948835.23	18948835.32	18948835.42	0.0141	0.0098
Mercury	47168-04-15 23:02 G	18948923.40	18948923.46	18948923.53	0.0141	0.0119
Mercury	47168-07-13 02:24 G	18949011.59	18949011.60	18949011.62	0.0141	0.0140
Venus	47177-05-09 05:46 G	18952233.64	18952233.74	18952233.85	0.0144	0.0124
Venus	47177-12-21 17:02 G	18952460.06	18952460.21	18952460.39	0.0144	0.0093
Venus	47178-08-05 05:02 G	18952686.52	18952686.71	18952686.91	0.0144	0.0061
Venus	47179-03-19 16:48 G	18952912.99	18952913.20	18952913.42	0.0144	0.0029
Venus	47179-11-01 04:48 G	18953139.49	18953139.70	18953139.92	0.0144	0.0004
Venus	47180-06-14 16:34 G	18953365.99	18953366.19	18953366.41	0.0144	0.0035

Venus	47181-01-27 04:19 G	18953592.50	18953592.68	18953592.88	0.0144	0.0067
Venus	47181-09-10 16:05 G	18953819.03	18953819.17	18953819.34	0.0144	0.0099
Moon	47182-01-19 04:48 G	18953949.58	18953949.70	18953949.84	0.0144	0.0125
Earth	47182-01-19 08:10 G	18953949.72	18953949.84	18953949.97	0.0144	0.0124 *
Venus	47182-04-25 04:05 G	18954045.59	18954045.67	18954045.77	0.0144	0.0131
Earth	47183-01-24 10:05 G	18954319.69	18954319.92	18954320.18	0.0144	0.0040
Moon	47183-01-24 12:14 G	18954319.78	18954320.01	18954320.26	0.0144	0.0034 *
Moon	47184-01-29 10:34 G	18954689.69	18954689.94	18954690.20	0.0144	0.0038
Earth	47184-01-29 12:29 G	18954689.78	18954690.02	18954690.27	0.0144	0.0046 *
Earth	47185-02-02 14:24 G	18955060.00	18955060.10	18955060.21	0.0144	0.0130
Moon	47185-02-02 14:53 G	18955060.07	18955060.12	18955060.23	0.0144	0.0137 *
Mercury	47205-12-23 08:38 G	18962688.79	18962688.86	18962688.96	0.0138	0.0123
Mercury	47206-03-21 16:48 G	18962777.06	18962777.20	18962777.35	0.0138	0.0093
Mercury	47206-06-18 00:58 G	18962865.37	18962865.54	18962865.72	0.0138	0.0063
Mercury	47206-09-14 08:53 G	18962953.68	18962953.87	18962954.07	0.0138	0.0033
Mercury	47206-12-11 17:02 G	18963042.01	18963042.21	18963042.40	0.0137	0.0004
Mercury	47207-03-10 00:43 G	18963130.35	18963130.53	18963130.73	0.0137	0.0027
Mercury	47207-06-06 08:53 G	18963218.69	18963218.87	18963219.05	0.0137	0.0055
Mercury	47207-09-02 16:34 G	18963307.05	18963307.19	18963307.35	0.0137	0.0085
Mercury	47207-11-30 00:29 G	18963395.42	18963395.52	18963395.64	0.0137	0.0114
Venus	47218-04-06 16:05 G	18967176.10	18967176.17	18967176.27	0.0134	0.0122
Venus	47218-11-18 21:50 G	18967402.28	18967402.41	18967402.58	0.0134	0.0098
Venus	47219-07-03 04:05 G	18967628.49	18967628.67	18967628.86	0.0134	0.0071
Venus	47220-02-14 09:36 G	18967854.71	18967854.90	18967855.12	0.0134	0.0046
Venus	47220-09-27 15:36 G	18968080.94	18968081.15	18968081.37	0.0134	0.0020
Venus	47221-05-11 21:22 G	18968307.17	18968307.39	18968307.61	0.0134	0.0005
Venus	47221-12-24 02:53 G	18968533.41	18968533.62	18968533.84	0.0134	0.0031
Venus	47222-08-07 08:24 G	18968759.66	18968759.85	18968760.05	0.0134	0.0056
Venus	47223-03-21 13:41 G	18968985.91	18968986.07	18968986.26	0.0134	0.0082
Venus	47223-11-02 18:58 G	18969212.18	18969212.29	18969212.44	0.0134	0.0107

Venus	47224-06-16 00:58 G	18969438.50	18969438.54	18969438.58	0.0134	0.0131
Moon	47224-07-22 13:55 G	18969474.89	18969475.08	18969475.30	0.0134	0.0073
Earth	47224-07-22 16:05 G	18969474.96	18969475.17	18969475.39	0.0134	0.0069 *
Earth	47225-07-26 22:19 G	18969844.18	18969844.43	18969844.68	0.0134	0.0004
Moon	47225-07-27 00:14 G	18969844.26	18969844.51	18969844.77	0.0134	0.0003 *
Moon	47226-07-31 02:24 G	18970213.38	18970213.60	18970213.83	0.0134	0.0056
Earth	47226-07-31 04:19 G	18970213.46	18970213.68	18970213.91	0.0134	0.0062 *
Earth	47227-08-04 10:05 G	18970582.87	18970582.92	18970583.02	0.0134	0.0128
Mercury	47249-06-13 14:53 G	18978567.08	18978567.12	18978567.18	0.0140	0.0127
Mercury	47249-09-09 18:14 G	18978655.18	18978655.26	18978655.35	0.0140	0.0106
Mercury	47249-12-06 21:36 G	18978743.30	18978743.40	18978743.50	0.0140	0.0085
Mercury	47250-03-05 00:43 G	18978831.42	18978831.53	18978831.65	0.0140	0.0065
Mercury	47250-06-01 04:05 G	18978919.55	18978919.67	18978919.80	0.0141	0.0044
Mercury	47250-08-28 07:26 G	18979007.68	18979007.81	18979007.94	0.0141	0.0023
Mercury	47250-11-24 10:48 G	18979095.82	18979095.95	18979096.08	0.0141	0.0004
Mercury	47251-02-20 13:55 G	18979183.95	18979184.08	18979184.21	0.0141	0.0019
Mercury	47251-05-19 17:17 G	18979272.10	18979272.22	18979272.34	0.0141	0.0040
Mercury	47251-08-15 20:24 G	18979360.24	18979360.35	18979360.47	0.0141	0.0061
Mercury	47251-11-11 23:46 G	18979448.39	18979448.49	18979448.60	0.0141	0.0082
Mercury	47252-02-08 03:07 G	18979536.55	18979536.63	18979536.72	0.0141	0.0103
Mercury	47252-05-06 06:29 G	18979624.71	18979624.77	18979624.83	0.0141	0.0124
Venus	47261-01-06 12:58 G	18982791.99	18982792.04	18982792.12	0.0144	0.0137
Venus	47261-08-21 00:43 G	18983018.39	18983018.53	18983018.69	0.0144	0.0105
Venus	47262-04-04 12:14 G	18983244.84	18983245.01	18983245.21	0.0144	0.0074
Venus	47262-11-17 00:14 G	18983471.31	18983471.51	18983471.73	0.0144	0.0042
Venus	47263-07-01 12:14 G	18983697.79	18983698.01	18983698.23	0.0144	0.0010
Venus	47264-02-13 00:00 G	18983924.29	18983924.50	18983924.72	0.0144	0.0022
Venus	47264-09-26 11:46 G	18984150.80	18984150.99	18984151.20	0.0144	0.0055
Venus	47265-05-10 23:31 G	18984377.32	18984377.48	18984377.67	0.0144	0.0087
Venus	47265-12-23 11:17 G	18984603.87	18984603.97	18984604.11	0.0144	0.0119

Moon	47266-01-19 16:19 G	18984631.05	18984631.18	18984631.35	0.0144	0.0117
Earth	47266-01-19 19:26 G	18984631.18	18984631.31	18984631.47	0.0144	0.0119 *
Earth	47267-01-24 21:50 G	18985001.17	18985001.41	18985001.67	0.0144	0.0034
Moon	47267-01-25 00:43 G	18985001.30	18985001.53	18985001.79	0.0144	0.0040 *
Moon	47268-01-29 21:36 G	18985371.17	18985371.40	18985371.66	0.0144	0.0058
Earth	47268-01-30 00:00 G	18985371.27	18985371.50	18985371.75	0.0144	0.0051 *
Earth	47269-02-03 01:55 G	18985741.51	18985741.58	18985741.68	0.0144	0.0136
Moon	47269-02-03 03:22 G	18985741.55	18985741.64	18985741.77	0.0144	0.0130 *
Jupiter	47273-07-15 18:58 G	18987364.80	18987365.29	18987365.84	0.0144	0.0035
Mars	47281-12-22 08:53 G	18990446.63	18990446.87	18990447.15	0.0141	0.0082
Mercury	47290-01-12 15:50 G	18993390.07	18993390.16	18993390.28	0.0138	0.0116
Mercury	47290-04-11 00:00 G	18993478.35	18993478.50	18993478.66	0.0138	0.0086
Mercury	47290-07-08 08:10 G	18993566.66	18993566.84	18993567.02	0.0138	0.0056
Mercury	47290-10-04 16:05 G	18993654.98	18993655.17	18993655.36	0.0137	0.0026
Mercury	47291-01-01 00:00 G	18993743.30	18993743.50	18993743.70	0.0137	0.0004
Mercury	47291-03-30 07:55 G	18993831.64	18993831.83	18993832.02	0.0137	0.0033
Mercury	47291-06-26 15:50 G	18993919.99	18993920.16	18993920.34	0.0137	0.0062
Mercury	47291-09-22 23:46 G	18994008.35	18994008.49	18994008.64	0.0137	0.0092
Mercury	47291-12-20 07:12 G	18994096.73	18994096.80	18994096.91	0.0137	0.0122
Venus	47301-12-06 01:12 G	18997734.53	18997734.55	18997734.59	0.0134	0.0133
Venus	47302-07-20 06:58 G	18997960.67	18997960.79	18997960.93	0.0134	0.0107
Venus	47303-03-03 12:43 G	18998186.87	18998187.03	18998187.22	0.0134	0.0082
Venus	47303-10-15 18:43 G	18998413.09	18998413.28	18998413.48	0.0134	0.0056
Venus	47304-05-29 00:29 G	18998639.32	18998639.52	18998639.74	0.0134	0.0031
Venus	47305-01-10 06:14 G	18998865.54	18998865.76	18998865.98	0.0134	0.0005
Venus	47305-08-24 11:46 G	18999091.78	18999091.99	18999092.21	0.0134	0.0020
Venus	47306-04-07 17:17 G	18999318.02	18999318.22	18999318.43	0.0134	0.0046
Venus	47306-11-19 22:48 G	18999544.27	18999544.45	18999544.64	0.0134	0.0071
Venus	47307-07-04 04:19 G	18999770.53	18999770.68	18999770.84	0.0134	0.0096
Earth	47307-07-20 18:29 G	18999787.25	18999787.27	18999787.34	0.0134	0.0132

Moon	47307-07-20 20:24 G	18999787.31	18999787.35	18999787.40	0.0134	0.0131	*
Venus	47308-02-15 09:36 G	18999996.82	18999996.90	18999997.00	0.0134	0.0121	
Moon	47308-07-23 23:46 G	19000156.29	19000156.49	19000156.72	0.0134	0.0065	
Earth	47308-07-24 01:12 G	19000156.33	19000156.55	19000156.77	0.0134	0.0066	*
Earth	47309-07-28 06:58 G	19000525.54	19000525.79	19000526.05	0.0134	0.0002	
Moon	47309-07-28 08:24 G	19000525.59	19000525.85	19000526.11	0.0134	0.0005	*
Moon	47310-08-01 11:31 G	19000894.78	19000894.98	19000895.19	0.0134	0.0072	
Earth	47310-08-01 13:12 G	19000894.83	19000895.05	19000895.27	0.0134	0.0065	*
Earth	47311-08-05 19:12 G	19001264.27	19001264.30	19001264.37	0.0134	0.0131	
Moon	47311-08-05 20:24 G	19001264.27	19001264.35	19001264.47	0.0134	0.0124	*
Mars	47326-04-14 22:19 G	19006630.13	19006630.43	19006630.72	0.0137	0.0018	
Mercury	47333-07-04 22:05 G	19009268.36	19009268.42	19009268.49	0.0140	0.0122	
Mercury	47333-10-01 01:26 G	19009356.47	19009356.56	19009356.65	0.0140	0.0102	
Mercury	47333-12-28 04:34 G	19009444.59	19009444.69	19009444.80	0.0140	0.0081	
Mercury	47334-03-26 07:55 G	19009532.71	19009532.83	19009532.95	0.0141	0.0061	
Mercury	47334-06-22 11:17 G	19009620.84	19009620.97	19009621.09	0.0141	0.0040	
Mercury	47334-09-18 14:24 G	19009708.97	19009709.10	19009709.23	0.0141	0.0019	
Mercury	47334-12-15 17:46 G	19009797.11	19009797.24	19009797.37	0.0141	0.0002	
Mercury	47335-03-13 21:07 G	19009885.25	19009885.38	19009885.51	0.0141	0.0023	
Mercury	47335-06-10 00:14 G	19009973.39	19009973.51	19009973.64	0.0141	0.0044	
Mercury	47335-09-06 03:36 G	19010061.54	19010061.65	19010061.77	0.0141	0.0065	
Mercury	47335-12-03 06:58 G	19010149.69	19010149.79	19010149.89	0.0141	0.0086	
Mercury	47336-02-29 10:05 G	19010237.85	19010237.92	19010238.01	0.0141	0.0108	
Mercury	47336-05-27 13:26 G	19010326.02	19010326.06	19010326.12	0.0141	0.0129	
Venus	47345-04-21 06:58 G	19013576.68	19013576.79	19013576.92	0.0144	0.0118	
Venus	47345-12-03 18:29 G	19013803.11	19013803.27	19013803.46	0.0144	0.0087	
Venus	47346-07-18 06:14 G	19014029.57	19014029.76	19014029.97	0.0144	0.0055	
Venus	47347-03-01 18:14 G	19014256.05	19014256.26	19014256.48	0.0144	0.0023	
Venus	47347-10-14 06:14 G	19014482.54	19014482.76	19014482.97	0.0144	0.0009	
Venus	47348-05-27 17:46 G	19014709.04	19014709.24	19014709.46	0.0144	0.0042	

Venus	47349-01-09 05:31 G	19014935.55	19014935.73	19014935.93	0.0144	0.0074
Venus	47349-08-23 17:17 G	19015162.09	19015162.22	19015162.38	0.0144	0.0105
Moon	47350-01-21 01:41 G	19015312.41	19015312.57	19015312.72	0.0144	0.0114
Earth	47350-01-21 05:02 G	19015312.57	19015312.71	19015312.88	0.0144	0.0115 *
Venus	47350-04-07 05:17 G	19015388.66	19015388.72	19015388.80	0.0144	0.0137
Earth	47351-01-26 07:26 G	19015682.56	19015682.81	19015683.06	0.0144	0.0030
Moon	47351-01-26 10:19 G	19015682.69	19015682.93	19015683.19	0.0144	0.0025 *
Moon	47352-01-31 06:29 G	19016052.54	19016052.77	19016053.03	0.0144	0.0048
Earth	47352-01-31 09:36 G	19016052.67	19016052.90	19016053.15	0.0144	0.0055 *
Earth	47353-02-04 11:31 G	19016422.93	19016422.98	19016423.06	0.0144	0.0139
Mars	47366-08-19 02:53 G	19021366.44	19021366.62	19021366.85	0.0141	0.0108
Mercury	47373-11-06 15:22 G	19024003.14	19024003.14	19024003.14	0.0138	0.0138
Mercury	47374-02-02 23:17 G	19024091.35	19024091.47	19024091.60	0.0138	0.0108
Mercury	47374-05-02 07:12 G	19024179.65	19024179.80	19024179.97	0.0138	0.0078
Mercury	47374-07-29 15:07 G	19024267.96	19024268.13	19024268.33	0.0138	0.0049
Mercury	47374-10-25 23:17 G	19024356.28	19024356.47	19024356.67	0.0137	0.0019
Mercury	47375-01-22 07:12 G	19024444.61	19024444.80	19024445.00	0.0137	0.0011
Mercury	47375-04-20 15:07 G	19024532.95	19024533.13	19024533.32	0.0137	0.0040
Mercury	47375-07-17 23:02 G	19024621.29	19024621.46	19024621.63	0.0137	0.0070
Mercury	47375-10-14 06:43 G	19024709.66	19024709.78	19024709.93	0.0137	0.0099
Mercury	47376-01-10 14:38 G	19024798.05	19024798.11	19024798.19	0.0137	0.0128
Venus	47386-03-19 16:19 G	19028519.10	19028519.18	19028519.31	0.0134	0.0118
Venus	47386-10-31 22:34 G	19028745.29	19028745.44	19028745.60	0.0134	0.0092
Venus	47387-06-15 04:19 G	19028971.50	19028971.68	19028971.88	0.0134	0.0066
Venus	47388-01-27 09:50 G	19029197.71	19029197.91	19029198.13	0.0134	0.0041
Venus	47388-09-09 15:50 G	19029423.94	19029424.16	19029424.37	0.0134	0.0015
Venus	47389-04-23 21:22 G	19029650.18	19029650.39	19029650.61	0.0134	0.0011
Venus	47389-12-06 02:53 G	19029876.41	19029876.62	19029876.83	0.0134	0.0036
Venus	47390-07-20 08:10 G	19030102.66	19030102.84	19030103.04	0.0134	0.0061
Venus	47391-03-03 13:41 G	19030328.91	19030329.07	19030329.24	0.0134	0.0086

Earth	47391-07-21 04:48 G	19030468.63	19030468.70	19030468.77	0.0134	0.0128
Moon	47391-07-21 04:34 G	19030468.65	19030468.69	19030468.77	0.0134	0.0130 *
Venus	47391-10-15 18:58 G	19030555.18	19030555.29	19030555.42	0.0134	0.0111
Moon	47392-07-24 09:50 G	19030837.70	19030837.91	19030838.13	0.0134	0.0065
Earth	47392-07-24 10:34 G	19030837.72	19030837.94	19030838.17	0.0134	0.0063 *
Earth	47393-07-28 16:34 G	19031206.94	19031207.19	19031207.45	0.0134	0.0003
Moon	47393-07-28 17:17 G	19031206.96	19031207.22	19031207.48	0.0134	0.0007 *
Moon	47394-08-01 22:05 G	19031576.22	19031576.42	19031576.64	0.0134	0.0063
Earth	47394-08-01 22:19 G	19031576.23	19031576.43	19031576.67	0.0134	0.0069 *
Earth	47395-08-06 04:48 G	19031945.70	19031945.70	19031945.72	0.0134	0.0134
Mercury	47417-04-29 01:41 G	19039881.57	19039881.57	19039881.58	0.0140	0.0140
Mercury	47417-07-26 05:02 G	19039969.64	19039969.71	19039969.78	0.0140	0.0120
Mercury	47417-10-22 08:10 G	19040057.75	19040057.84	19040057.94	0.0140	0.0099
Mercury	47418-01-18 11:31 G	19040145.87	19040145.98	19040146.09	0.0140	0.0078
Mercury	47418-04-16 14:53 G	19040234.00	19040234.12	19040234.23	0.0141	0.0058
Mercury	47418-07-13 18:00 G	19040322.13	19040322.25	19040322.38	0.0141	0.0037
Mercury	47418-10-09 21:22 G	19040410.26	19040410.39	19040410.52	0.0141	0.0016
Mercury	47419-01-06 00:29 G	19040498.40	19040498.52	19040498.66	0.0141	0.0007
Mercury	47419-04-04 03:50 G	19040586.53	19040586.66	19040586.79	0.0141	0.0026
Mercury	47419-07-01 07:12 G	19040674.68	19040674.80	19040674.92	0.0141	0.0047
Mercury	47419-09-27 10:19 G	19040762.82	19040762.93	19040763.05	0.0141	0.0068
Mercury	47419-12-24 13:41 G	19040850.98	19040851.07	19040851.18	0.0141	0.0089
Mercury	47420-03-21 17:02 G	19040939.13	19040939.21	19040939.29	0.0141	0.0110
Mercury	47420-06-17 20:24 G	19041027.31	19041027.35	19041027.40	0.0141	0.0131
Venus	47428-12-20 11:46 G	19044134.92	19044134.99	19044135.09	0.0144	0.0132
Venus	47429-08-03 23:02 G	19044361.33	19044361.46	19044361.64	0.0144	0.0102
Venus	47430-03-18 11:02 G	19044587.78	19044587.96	19044588.16	0.0144	0.0069
Venus	47430-10-30 23:02 G	19044814.25	19044814.46	19044814.67	0.0144	0.0037
Venus	47431-06-14 10:48 G	19045040.73	19045040.95	19045041.17	0.0144	0.0005
Venus	47432-01-26 22:34 G	19045267.23	19045267.44	19045267.65	0.0144	0.0027

Venus	47432-09-09 10:19 G	19045493.73	19045493.93	19045494.13	0.0144	0.0059
Venus	47433-04-23 22:05 G	19045720.26	19045720.42	19045720.60	0.0144	0.0091
Venus	47433-12-06 10:05 G	19045946.82	19045946.92	19045947.04	0.0144	0.0123
Moon	47434-01-22 08:38 G	19045993.71	19045993.86	19045994.03	0.0144	0.0113
Earth	47434-01-22 12:14 G	19045993.86	19045994.01	19045994.18	0.0144	0.0113 *
Earth	47435-01-27 14:38 G	19046363.86	19046364.11	19046364.37	0.0144	0.0028
Moon	47435-01-27 18:14 G	19046364.02	19046364.26	19046364.52	0.0144	0.0032 *
Moon	47436-02-01 13:41 G	19046733.85	19046734.07	19046734.31	0.0144	0.0064
Earth	47436-02-01 17:17 G	19046733.98	19046734.22	19046734.45	0.0144	0.0057 *
Earth	47437-02-05 18:58 G	19047104.26	19047104.29	19047104.36	0.0144	0.0142
Moon	47437-02-05 21:50 G	19047104.34	19047104.41	19047104.52	0.0144	0.0134 *
Mercury	47457-11-27 21:36 G	19054704.36	19054704.40	19054704.46	0.0138	0.0133
Mercury	47458-02-24 05:46 G	19054792.62	19054792.74	19054792.88	0.0138	0.0103
Mercury	47458-05-23 13:41 G	19054880.91	19054881.07	19054881.25	0.0138	0.0074
Mercury	47458-08-19 21:50 G	19054969.22	19054969.41	19054969.60	0.0138	0.0044
Mercury	47458-11-16 05:46 G	19055057.55	19055057.74	19055057.94	0.0137	0.0014
Mercury	47459-02-12 13:41 G	19055145.88	19055146.07	19055146.27	0.0137	0.0016
Mercury	47459-05-11 21:36 G	19055234.22	19055234.40	19055234.59	0.0137	0.0045
Mercury	47459-08-08 05:31 G	19055322.57	19055322.73	19055322.90	0.0137	0.0075
Mercury	47459-11-04 13:12 G	19055410.94	19055411.05	19055411.19	0.0137	0.0104
Mercury	47460-01-31 20:53 G	19055499.35	19055499.37	19055499.44	0.0137	0.0134
Venus	47469-11-18 01:12 G	19059077.50	19059077.55	19059077.64	0.0134	0.0127
Venus	47470-07-02 07:26 G	19059303.67	19059303.81	19059303.95	0.0134	0.0102
Venus	47471-02-13 12:58 G	19059529.87	19059530.04	19059530.23	0.0134	0.0076
Venus	47471-09-27 18:43 G	19059756.08	19059756.28	19059756.49	0.0134	0.0051
Venus	47472-05-11 00:29 G	19059982.31	19059982.52	19059982.74	0.0134	0.0025
Venus	47472-12-23 06:14 G	19060208.54	19060208.76	19060208.97	0.0134	0.0002
Venus	47473-08-06 11:31 G	19060434.77	19060434.98	19060435.20	0.0134	0.0026
Venus	47474-03-20 17:02 G	19060661.01	19060661.21	19060661.42	0.0134	0.0051
Venus	47474-11-01 22:34 G	19060887.26	19060887.44	19060887.62	0.0134	0.0076

Venus	47475-06-16 04:05 G	19061113.53	19061113.67	19061113.81	0.0134	0.0101
Moon	47475-07-22 12:58 G	19061149.96	19061150.04	19061150.15	0.0134	0.0124
Earth	47475-07-22 12:58 G	19061149.98	19061150.04	19061150.14	0.0134	0.0126 *
Venus	47476-01-28 09:22 G	19061339.83	19061339.89	19061339.97	0.0134	0.0126
Earth	47476-07-25 18:58 G	19061519.08	19061519.29	19061519.53	0.0134	0.0061
Moon	47476-07-25 19:26 G	19061519.10	19061519.31	19061519.54	0.0134	0.0061 *
Moon	47477-07-30 00:58 G	19061888.28	19061888.54	19061888.81	0.0134	0.0003
Earth	47477-07-30 01:12 G	19061888.30	19061888.55	19061888.81	0.0134	0.0005 *
Earth	47478-08-03 07:12 G	19062257.60	19062257.80	19062258.03	0.0134	0.0071
Moon	47478-08-03 06:58 G	19062257.61	19062257.79	19062258.00	0.0134	0.0077 *
Moon	47479-08-07 13:26 G	19062627.00	19062627.06	19062627.13	0.0134	0.0129
Mars	47493-09-02 02:53 G	19067766.44	19067766.62	19067766.84	0.0137	0.0101
Mercury	47501-05-20 08:38 G	19070582.84	19070582.86	19070582.88	0.0140	0.0137
Mercury	47501-08-16 11:46 G	19070670.92	19070670.99	19070671.06	0.0140	0.0117
Mercury	47501-11-12 15:07 G	19070759.04	19070759.13	19070759.22	0.0140	0.0096
Mercury	47502-02-08 18:14 G	19070847.16	19070847.26	19070847.37	0.0140	0.0076
Mercury	47502-05-07 21:36 G	19070935.28	19070935.40	19070935.52	0.0140	0.0055
Mercury	47502-08-04 00:43 G	19071023.41	19071023.53	19071023.66	0.0141	0.0035
Mercury	47502-10-31 04:05 G	19071111.54	19071111.67	19071111.80	0.0141	0.0014
Mercury	47503-01-27 07:26 G	19071199.68	19071199.81	19071199.94	0.0141	0.0007
Mercury	47503-04-25 10:34 G	19071287.82	19071287.94	19071288.07	0.0141	0.0029
Mercury	47503-07-22 13:55 G	19071375.96	19071376.08	19071376.20	0.0141	0.0049
Mercury	47503-10-18 17:17 G	19071464.11	19071464.22	19071464.33	0.0141	0.0070
Mercury	47504-01-14 20:38 G	19071552.26	19071552.36	19071552.46	0.0141	0.0092
Mercury	47504-04-11 23:46 G	19071640.42	19071640.49	19071640.57	0.0141	0.0113
Mercury	47504-07-09 02:53 G	19071728.60	19071728.62	19071728.67	0.0141	0.0135
Venus	47513-04-04 03:22 G	19074919.52	19074919.64	19074919.78	0.0144	0.0115
Venus	47513-11-16 15:07 G	19075145.96	19075146.13	19075146.31	0.0144	0.0083
Venus	47514-07-01 02:38 G	19075372.42	19075372.61	19075372.82	0.0144	0.0052
Venus	47515-02-12 14:24 G	19075598.89	19075599.10	19075599.32	0.0144	0.0020

Venus	47515-09-27 02:10 G	19075825.38	19075825.59	19075825.81	0.0144	0.0013
Venus	47516-05-10 13:55 G	19076051.88	19076052.08	19076052.29	0.0144	0.0044
Venus	47516-12-23 01:41 G	19076278.40	19076278.57	19076278.76	0.0144	0.0077
Venus	47517-08-06 13:26 G	19076504.93	19076505.06	19076505.22	0.0144	0.0108
Moon	47518-01-23 13:41 G	19076674.93	19076675.07	19076675.26	0.0144	0.0111
Earth	47518-01-23 17:31 G	19076675.09	19076675.23	19076675.41	0.0144	0.0113 *
Venus	47518-03-21 01:26 G	19076731.52	19076731.56	19076731.62	0.0144	0.0140
Earth	47519-01-28 20:10 G	19077045.09	19077045.34	19077045.59	0.0144	0.0028
Moon	47519-01-28 23:31 G	19077045.23	19077045.48	19077045.74	0.0144	0.0025 *
Moon	47520-02-02 18:43 G	19077415.05	19077415.28	19077415.53	0.0144	0.0050
Earth	47520-02-02 22:19 G	19077415.21	19077415.43	19077415.68	0.0144	0.0058 *
Earth	47521-02-07 00:29 G	19077785.49	19077785.52	19077785.59	0.0144	0.0142
Mars	47534-01-05 15:07 G	19082500.84	19082501.13	19082501.45	0.0141	0.0042
Mercury	47541-12-19 03:36 G	19085405.60	19085405.65	19085405.72	0.0138	0.0130
Mercury	47542-03-17 11:46 G	19085493.86	19085493.99	19085494.13	0.0138	0.0100
Mercury	47542-06-13 19:26 G	19085582.16	19085582.31	19085582.49	0.0138	0.0071
Mercury	47542-09-10 03:36 G	19085670.47	19085670.65	19085670.85	0.0138	0.0041
Mercury	47542-12-07 11:46 G	19085758.79	19085758.99	19085759.19	0.0138	0.0011
Mercury	47543-03-05 19:41 G	19085847.12	19085847.32	19085847.52	0.0137	0.0019
Mercury	47543-06-02 03:36 G	19085935.47	19085935.65	19085935.83	0.0137	0.0048
Mercury	47543-08-29 11:31 G	19086023.82	19086023.98	19086024.14	0.0137	0.0078
Mercury	47543-11-25 19:12 G	19086112.19	19086112.30	19086112.43	0.0137	0.0107
Mercury	47544-02-22 03:07 G	19086200.62	19086200.63	19086200.66	0.0137	0.0136
Venus	47554-03-02 15:22 G	19089862.04	19089862.14	19089862.28	0.0134	0.0113
Venus	47554-10-14 21:36 G	19090088.24	19090088.40	19090088.57	0.0134	0.0087
Venus	47555-05-29 03:07 G	19090314.45	19090314.63	19090314.84	0.0134	0.0062
Venus	47556-01-10 08:53 G	19090540.67	19090540.87	19090541.09	0.0134	0.0036
Venus	47556-08-23 14:38 G	19090766.89	19090767.11	19090767.33	0.0134	0.0010
Venus	47557-04-06 20:10 G	19090993.13	19090993.34	19090993.56	0.0134	0.0016
Venus	47557-11-19 01:41 G	19091219.37	19091219.57	19091219.79	0.0134	0.0041

Venus	47558-07-03 07:12 G	19091445.62	19091445.80	19091446.00	0.0134	0.0066
Venus	47559-02-14 12:43 G	19091671.88	19091672.03	19091672.19	0.0134	0.0091
Moon	47559-07-23 20:10 G	19091831.29	19091831.34	19091831.44	0.0134	0.0128
Earth	47559-07-23 21:36 G	19091831.33	19091831.40	19091831.51	0.0134	0.0124 *
Venus	47559-09-28 18:14 G	19091898.16	19091898.26	19091898.37	0.0134	0.0116
Earth	47560-07-27 03:36 G	19092200.44	19092200.65	19092200.89	0.0134	0.0059
Moon	47560-07-27 04:34 G	19092200.48	19092200.69	19092200.92	0.0134	0.0059 *
Moon	47561-07-31 09:22 G	19092569.63	19092569.89	19092570.15	0.0134	0.0010
Earth	47561-07-31 10:05 G	19092569.67	19092569.92	19092570.18	0.0134	0.0008 *
Earth	47562-08-04 16:05 G	19092938.98	19092939.17	19092939.40	0.0134	0.0073
Moon	47562-08-04 17:17 G	19092939.02	19092939.22	19092939.44	0.0134	0.0069 *
Mars	47578-04-28 17:46 G	19098684.98	19098685.24	19098685.52	0.0137	0.0055
Mercury	47585-06-09 15:22 G	19101284.11	19101284.14	19101284.19	0.0140	0.0134
Mercury	47585-09-05 18:43 G	19101372.21	19101372.28	19101372.36	0.0140	0.0113
Mercury	47585-12-02 22:05 G	19101460.32	19101460.42	19101460.52	0.0140	0.0093
Mercury	47586-03-01 01:12 G	19101548.45	19101548.55	19101548.67	0.0140	0.0072
Mercury	47586-05-28 04:34 G	19101636.57	19101636.69	19101636.81	0.0140	0.0051
Mercury	47586-08-24 07:55 G	19101724.70	19101724.83	19101724.95	0.0141	0.0031
Mercury	47586-11-20 11:02 G	19101812.83	19101812.96	19101813.09	0.0141	0.0010
Mercury	47587-02-16 14:24 G	19101900.97	19101901.10	19101901.23	0.0141	0.0011
Mercury	47587-05-15 17:46 G	19101989.11	19101989.24	19101989.36	0.0141	0.0032
Mercury	47587-08-11 20:53 G	19102077.25	19102077.37	19102077.49	0.0141	0.0053
Mercury	47587-11-08 00:14 G	19102165.40	19102165.51	19102165.62	0.0141	0.0074
Mercury	47588-02-04 03:36 G	19102253.55	19102253.65	19102253.74	0.0141	0.0095
Mercury	47588-05-02 06:58 G	19102341.72	19102341.79	19102341.86	0.0141	0.0117
Mercury	47588-07-29 09:50 G	19102429.90	19102429.91	19102429.95	0.0141	0.0139
Venus	47596-12-02 08:10 G	19105477.76	19105477.84	19105477.95	0.0144	0.0129
Venus	47597-07-16 19:55 G	19105704.18	19105704.33	19105704.49	0.0144	0.0097
Venus	47598-02-28 07:12 G	19105930.62	19105930.80	19105931.01	0.0144	0.0067
Venus	47598-10-12 19:12 G	19106157.09	19106157.30	19106157.52	0.0144	0.0034

Venus	47599-05-27 06:58 G	19106383.57	19106383.79	19106384.01	0.0144	0.0002
Venus	47600-01-08 18:29 G	19106610.06	19106610.27	19106610.49	0.0144	0.0030
Venus	47600-08-22 06:14 G	19106836.57	19106836.76	19106836.96	0.0144	0.0062
Venus	47601-04-05 17:46 G	19107063.10	19107063.24	19107063.42	0.0144	0.0095
Venus	47601-11-18 06:14 G	19107289.66	19107289.76	19107289.87	0.0144	0.0126
Moon	47602-01-23 21:07 G	19107356.24	19107356.38	19107356.55	0.0144	0.0114
Earth	47602-01-24 00:43 G	19107356.37	19107356.53	19107356.69	0.0144	0.0111 *
Earth	47603-01-29 02:53 G	19107726.38	19107726.62	19107726.88	0.0144	0.0027
Moon	47603-01-29 06:43 G	19107726.53	19107726.78	19107727.04	0.0144	0.0029 *
Moon	47604-02-03 01:55 G	19108096.36	19108096.58	19108096.82	0.0144	0.0063
Earth	47604-02-03 05:17 G	19108096.50	19108096.72	19108096.97	0.0144	0.0058 *
Earth	47605-02-07 07:12 G	19108466.78	19108466.80	19108466.86	0.0144	0.0143
Moon	47605-02-07 11:02 G	19108466.88	19108466.96	19108467.06	0.0144	0.0134
Mars	47618-09-01 00:29 G	19113420.46	19113420.52	19113420.60	0.0141	0.0137
Mercury	47626-01-08 09:07 G	19116106.82	19116106.88	19116106.96	0.0138	0.0128
Mercury	47626-04-06 17:17 G	19116195.09	19116195.22	19116195.36	0.0138	0.0098
Mercury	47626-07-04 01:26 G	19116283.39	19116283.56	19116283.73	0.0138	0.0068
Mercury	47626-09-30 09:07 G	19116371.70	19116371.88	19116372.08	0.0138	0.0039
Mercury	47626-12-27 17:17 G	19116460.03	19116460.22	19116460.42	0.0138	0.0009
Mercury	47627-03-26 01:12 G	19116548.36	19116548.55	19116548.75	0.0137	0.0021
Mercury	47627-06-22 09:07 G	19116636.70	19116636.88	19116637.07	0.0137	0.0051
Mercury	47627-09-18 16:48 G	19116725.06	19116725.20	19116725.37	0.0137	0.0081
Mercury	47627-12-16 00:43 G	19116813.43	19116813.53	19116813.66	0.0137	0.0110
Venus	47637-10-30 23:02 G	19120420.39	19120420.46	19120420.56	0.0134	0.0124
Venus	47638-06-14 04:48 G	19120646.57	19120646.70	19120646.87	0.0134	0.0099
Venus	47639-01-26 10:48 G	19120872.78	19120872.95	19120873.14	0.0134	0.0073
Venus	47639-09-09 16:34 G	19121098.99	19121099.19	19121099.40	0.0134	0.0047
Venus	47640-04-22 22:34 G	19121325.22	19121325.44	19121325.65	0.0134	0.0021
Venus	47640-12-05 04:05 G	19121551.46	19121551.67	19121551.89	0.0134	0.0005
Venus	47641-07-19 09:36 G	19121777.69	19121777.90	19121778.12	0.0134	0.0030

Venus	47642-03-02 15:07 G	19122003.94	19122004.13	19122004.33	0.0134	0.0055
Venus	47642-10-14 20:24 G	19122230.19	19122230.35	19122230.54	0.0134	0.0081
Venus	47643-05-29 02:10 G	19122456.47	19122456.59	19122456.74	0.0134	0.0106
Moon	47643-07-24 03:36 G	19122512.54	19122512.65	19122512.78	0.0134	0.0118
Earth	47643-07-24 05:31 G	19122512.63	19122512.73	19122512.83	0.0134	0.0122 *
Venus	47644-01-10 07:41 G	19122682.79	19122682.82	19122682.88	0.0134	0.0131
Earth	47644-07-27 11:31 G	19122881.76	19122881.98	19122882.22	0.0134	0.0057
Moon	47644-07-27 13:12 G	19122881.85	19122882.05	19122882.29	0.0134	0.0059 *
Moon	47645-07-31 16:19 G	19123250.92	19123251.18	19123251.44	0.0134	0.0008
Earth	47645-07-31 18:00 G	19123251.00	19123251.25	19123251.51	0.0134	0.0009 *
Earth	47646-08-05 00:29 G	19123620.31	19123620.52	19123620.73	0.0134	0.0074
Moon	47646-08-05 01:41 G	19123620.38	19123620.57	19123620.77	0.0134	0.0079 *
Moon	47647-08-09 04:48 G	19123989.70	19123989.70	19123989.73	0.0134	0.0134
Mercury	47669-06-29 22:34 G	19131985.40	19131985.44	19131985.49	0.0140	0.0130
Mercury	47669-09-26 01:41 G	19132073.50	19132073.57	19132073.66	0.0140	0.0110
Mercury	47669-12-23 05:02 G	19132161.62	19132161.71	19132161.82	0.0140	0.0089
Mercury	47670-03-21 08:24 G	19132249.74	19132249.85	19132249.97	0.0140	0.0068
Mercury	47670-06-17 11:46 G	19132337.87	19132337.99	19132338.11	0.0140	0.0047
Mercury	47670-09-13 14:53 G	19132426.00	19132426.12	19132426.25	0.0141	0.0027
Mercury	47670-12-10 18:14 G	19132514.13	19132514.26	19132514.39	0.0141	0.0006
Mercury	47671-03-08 21:36 G	19132602.27	19132602.40	19132602.53	0.0141	0.0016
Mercury	47671-06-05 00:58 G	19132690.41	19132690.54	19132690.66	0.0141	0.0037
Mercury	47671-09-01 04:05 G	19132778.56	19132778.67	19132778.79	0.0141	0.0058
Mercury	47671-11-28 07:26 G	19132866.70	19132866.81	19132866.92	0.0141	0.0079
Mercury	47672-02-24 10:48 G	19132954.86	19132954.95	19132955.04	0.0141	0.0100
Mercury	47672-05-22 14:10 G	19133043.02	19133043.09	19133043.15	0.0141	0.0121
Venus	47680-08-01 14:24 G	19136036.09	19136036.10	19136036.15	0.0144	0.0142
Venus	47681-03-16 01:55 G	19136262.46	19136262.58	19136262.73	0.0144	0.0111
Venus	47681-10-28 13:41 G	19136488.90	19136489.07	19136489.26	0.0144	0.0079
Venus	47682-06-12 01:26 G	19136715.35	19136715.56	19136715.77	0.0144	0.0047

Venus	47683-01-24 12:58 G	19136941.83	19136942.04	19136942.26	0.0144	0.0016
Venus	47683-09-08 00:43 G	19137168.31	19137168.53	19137168.74	0.0144	0.0017
Venus	47684-04-21 12:29 G	19137394.81	19137395.02	19137395.22	0.0144	0.0049
Venus	47684-12-04 00:00 G	19137621.33	19137621.50	19137621.69	0.0144	0.0081
Venus	47685-07-18 12:14 G	19137847.87	19137848.01	19137848.14	0.0144	0.0113
Moon	47686-01-24 06:58 G	19138037.63	19138037.79	19138037.97	0.0144	0.0104
Earth	47686-01-24 09:50 G	19138037.75	19138037.91	19138038.09	0.0144	0.0108 *
Earth	47687-01-29 12:14 G	19138407.76	19138408.01	19138408.27	0.0144	0.0023
Moon	47687-01-29 15:36 G	19138407.89	19138408.15	19138408.41	0.0144	0.0022 *
Moon	47688-02-03 11:02 G	19138777.73	19138777.96	19138778.20	0.0144	0.0055
Earth	47688-02-03 14:38 G	19138777.89	19138778.11	19138778.35	0.0144	0.0061 *
Mercury	47710-01-29 15:22 G	19146808.07	19146808.14	19146808.23	0.0138	0.0124
Mercury	47710-04-27 23:31 G	19146896.34	19146896.48	19146896.63	0.0138	0.0094
Mercury	47710-07-25 07:26 G	19146984.64	19146984.81	19146984.99	0.0138	0.0064
Mercury	47710-10-21 15:22 G	19147072.96	19147073.14	19147073.34	0.0138	0.0035
Mercury	47711-01-17 23:31 G	19147161.28	19147161.48	19147161.68	0.0137	0.0005
Mercury	47711-04-16 07:26 G	19147249.62	19147249.81	19147250.01	0.0137	0.0025
Mercury	47711-07-13 15:22 G	19147337.96	19147338.14	19147338.32	0.0137	0.0055
Mercury	47711-10-09 23:02 G	19147426.32	19147426.46	19147426.63	0.0137	0.0085
Mercury	47712-01-06 07:12 G	19147514.69	19147514.80	19147514.91	0.0137	0.0113
Venus	47722-02-12 12:58 G	19151204.93	19151205.04	19151205.18	0.0134	0.0110
Venus	47722-09-26 18:43 G	19151431.13	19151431.28	19151431.47	0.0134	0.0084
Venus	47723-05-11 00:58 G	19151657.35	19151657.54	19151657.74	0.0134	0.0058
Venus	47723-12-23 06:43 G	19151883.57	19151883.78	19151883.99	0.0134	0.0033
Venus	47724-08-05 12:29 G	19152109.80	19152110.02	19152110.24	0.0134	0.0007
Venus	47725-03-19 18:00 G	19152336.04	19152336.25	19152336.47	0.0134	0.0019
Venus	47725-10-31 23:46 G	19152562.29	19152562.49	19152562.70	0.0134	0.0044
Venus	47726-06-15 05:17 G	19152788.54	19152788.72	19152788.91	0.0134	0.0070
Venus	47727-01-27 11:02 G	19153014.81	19153014.96	19153015.11	0.0134	0.0095
Moon	47727-07-25 10:48 G	19153193.88	19153193.95	19153194.06	0.0134	0.0125

Earth	47727-07-25 13:26 G	19153193.98	19153194.06	19153194.20	0.0134	0.0120	*
Venus	47727-09-10 16:34 G	19153241.10	19153241.19	19153241.29	0.0134	0.0120	
Earth	47728-07-28 20:24 G	19153563.12	19153563.35	19153563.58	0.0134	0.0054	
Moon	47728-07-28 22:34 G	19153563.22	19153563.44	19153563.67	0.0134	0.0052	*
Moon	47729-08-02 00:29 G	19153932.26	19153932.52	19153932.78	0.0134	0.0012	
Earth	47729-08-02 02:53 G	19153932.37	19153932.62	19153932.87	0.0134	0.0011	*
Earth	47730-08-06 08:53 G	19154301.68	19154301.87	19154302.09	0.0134	0.0077	
Moon	47730-08-06 11:31 G	19154301.78	19154301.98	19154302.19	0.0134	0.0074	*
Mars	47745-09-16 01:26 G	19159821.31	19159821.56	19159821.84	0.0137	0.0060	
Mercury	47753-07-21 05:46 G	19162686.69	19162686.74	19162686.80	0.0140	0.0125	
Mercury	47753-10-17 08:53 G	19162774.80	19162774.87	19162774.97	0.0140	0.0105	
Mercury	47754-01-13 12:14 G	19162862.91	19162863.01	19162863.12	0.0140	0.0084	
Mercury	47754-04-11 15:36 G	19162951.04	19162951.15	19162951.27	0.0140	0.0063	
Mercury	47754-07-08 18:58 G	19163039.17	19163039.29	19163039.42	0.0140	0.0042	
Mercury	47754-10-04 22:19 G	19163127.30	19163127.43	19163127.56	0.0141	0.0021	
Mercury	47755-01-01 01:41 G	19163215.44	19163215.57	19163215.70	0.0141	0.0005	
Mercury	47755-03-30 04:48 G	19163303.57	19163303.70	19163303.83	0.0141	0.0021	
Mercury	47755-06-26 08:10 G	19163391.72	19163391.84	19163391.96	0.0141	0.0042	
Mercury	47755-09-22 11:31 G	19163479.86	19163479.98	19163480.09	0.0141	0.0063	
Mercury	47755-12-19 14:38 G	19163568.01	19163568.11	19163568.22	0.0141	0.0085	
Mercury	47756-03-16 18:00 G	19163656.17	19163656.25	19163656.34	0.0141	0.0106	
Mercury	47756-06-12 21:07 G	19163744.34	19163744.38	19163744.45	0.0141	0.0128	
Venus	47764-11-14 08:53 G	19166820.78	19166820.87	19166821.00	0.0144	0.0124	
Venus	47765-06-28 20:38 G	19167047.20	19167047.36	19167047.53	0.0144	0.0092	
Venus	47766-02-10 07:55 G	19167273.65	19167273.83	19167274.04	0.0144	0.0061	
Venus	47766-09-24 19:41 G	19167500.12	19167500.32	19167500.54	0.0144	0.0029	
Venus	47767-05-09 07:41 G	19167726.60	19167726.82	19167727.04	0.0144	0.0004	
Venus	47767-12-21 19:12 G	19167953.10	19167953.30	19167953.52	0.0144	0.0036	
Venus	47768-08-04 06:58 G	19168179.61	19168179.79	19168179.99	0.0144	0.0068	
Venus	47769-03-18 18:43 G	19168406.14	19168406.28	19168406.45	0.0144	0.0101	

Venus	47769-10-31 07:12 G	19168632.71	19168632.80	19168632.89	0.0144	0.0132
Moon	47770-01-25 18:14 G	19168719.11	19168719.26	19168719.45	0.0144	0.0107
Earth	47770-01-25 20:38 G	19168719.20	19168719.36	19168719.56	0.0144	0.0103 *
Earth	47771-01-30 23:31 G	19169089.23	19169089.48	19169089.74	0.0144	0.0018
Moon	47771-01-31 02:38 G	19169089.35	19169089.61	19169089.87	0.0144	0.0019 *
Moon	47772-02-04 22:48 G	19169459.24	19169459.45	19169459.68	0.0144	0.0070
Earth	47772-02-05 01:41 G	19169459.36	19169459.57	19169459.81	0.0144	0.0067 *
Moon	47773-02-09 07:41 G	19169829.78	19169829.82	19169829.87	0.0144	0.0142
Mars	47786-01-17 21:22 G	19174555.08	19174555.39	19174555.71	0.0141	0.0004
Mercury	47794-02-18 22:05 G	19177509.33	19177509.42	19177509.53	0.0138	0.0118
Mercury	47794-05-18 06:14 G	19177597.61	19177597.76	19177597.91	0.0138	0.0088
Mercury	47794-08-14 13:55 G	19177685.92	19177686.08	19177686.27	0.0138	0.0059
Mercury	47794-11-10 22:05 G	19177774.23	19177774.42	19177774.62	0.0137	0.0029
Mercury	47795-02-07 06:14 G	19177862.56	19177862.76	19177862.96	0.0137	0.0001
Mercury	47795-05-06 13:55 G	19177950.90	19177951.08	19177951.28	0.0137	0.0032
Mercury	47795-08-02 22:05 G	19178039.24	19178039.42	19178039.60	0.0137	0.0060
Mercury	47795-10-30 05:46 G	19178127.60	19178127.74	19178127.90	0.0137	0.0090
Mercury	47796-01-26 13:41 G	19178215.99	19178216.07	19178216.18	0.0137	0.0119
Venus	47805-10-13 21:07 G	19181763.30	19181763.38	19181763.49	0.0134	0.0121
Venus	47806-05-28 03:07 G	19181989.49	19181989.63	19181989.80	0.0134	0.0095
Venus	47807-01-09 09:07 G	19182215.70	19182215.88	19182216.07	0.0134	0.0069
Venus	47807-08-23 14:53 G	19182441.92	19182442.12	19182442.33	0.0134	0.0044
Venus	47808-04-05 20:53 G	19182668.15	19182668.37	19182668.59	0.0134	0.0018
Venus	47808-11-18 02:38 G	19182894.39	19182894.61	19182894.83	0.0134	0.0008
Venus	47809-07-02 08:10 G	19183120.63	19183120.84	19183121.06	0.0134	0.0034
Venus	47810-02-13 13:41 G	19183346.88	19183347.07	19183347.27	0.0134	0.0059
Venus	47810-09-27 19:12 G	19183573.15	19183573.30	19183573.48	0.0134	0.0085
Venus	47811-05-12 00:58 G	19183799.43	19183799.54	19183799.68	0.0134	0.0110
Moon	47811-07-26 18:58 G	19183875.18	19183875.29	19183875.46	0.0134	0.0112
Earth	47811-07-26 22:05 G	19183875.31	19183875.42	19183875.55	0.0134	0.0117 *

Earth	47812-07-30 04:34 G	19184244.47	19184244.69	19184244.93	0.0134	0.0052
Moon	47812-07-30 07:26 G	19184244.60	19184244.81	19184245.05	0.0134	0.0055 *
Moon	47813-08-03 08:10 G	19184613.59	19184613.84	19184614.10	0.0134	0.0015
Earth	47813-08-03 11:17 G	19184613.72	19184613.97	19184614.22	0.0134	0.0014 *
Earth	47814-08-07 17:17 G	19184983.03	19184983.22	19184983.43	0.0134	0.0079
Moon	47814-08-07 19:41 G	19184983.14	19184983.32	19184983.53	0.0134	0.0083 *
Mars	47830-05-12 15:22 G	19190739.95	19190740.14	19190740.36	0.0137	0.0098
Mercury	47837-08-11 12:58 G	19193387.98	19193388.04	19193388.11	0.0140	0.0120
Mercury	47837-11-07 16:19 G	19193476.09	19193476.18	19193476.27	0.0140	0.0099
Mercury	47838-02-03 19:41 G	19193564.21	19193564.32	19193564.42	0.0140	0.0079
Mercury	47838-05-02 22:48 G	19193652.33	19193652.45	19193652.57	0.0141	0.0058
Mercury	47838-07-30 02:10 G	19193740.46	19193740.59	19193740.71	0.0141	0.0037
Mercury	47838-10-26 05:31 G	19193828.60	19193828.73	19193828.86	0.0141	0.0017
Mercury	47839-01-22 08:38 G	19193916.73	19193916.86	19193916.99	0.0141	0.0007
Mercury	47839-04-20 12:00 G	19194004.87	19194005.00	19194005.13	0.0141	0.0026
Mercury	47839-07-17 15:22 G	19194093.02	19194093.14	19194093.26	0.0141	0.0047
Mercury	47839-10-13 18:43 G	19194181.16	19194181.28	19194181.39	0.0141	0.0068
Mercury	47840-01-09 21:50 G	19194269.32	19194269.41	19194269.52	0.0141	0.0090
Mercury	47840-04-07 01:12 G	19194357.48	19194357.55	19194357.63	0.0141	0.0111
Mercury	47840-07-04 04:19 G	19194445.65	19194445.68	19194445.74	0.0141	0.0133
Venus	47848-07-15 16:05 G	19197379.10	19197379.17	19197379.23	0.0144	0.0136
Venus	47849-02-27 03:22 G	19197605.50	19197605.64	19197605.79	0.0144	0.0105
Venus	47849-10-11 15:07 G	19197831.94	19197832.13	19197832.32	0.0144	0.0073
Venus	47850-05-26 02:38 G	19198058.41	19198058.61	19198058.82	0.0144	0.0042
Venus	47851-01-07 14:24 G	19198284.89	19198285.10	19198285.32	0.0144	0.0010
Venus	47851-08-22 02:10 G	19198511.38	19198511.59	19198511.81	0.0144	0.0023
Venus	47852-04-04 13:55 G	19198737.88	19198738.08	19198738.29	0.0144	0.0055
Venus	47852-11-17 01:55 G	19198964.42	19198964.58	19198964.76	0.0144	0.0087
Venus	47853-07-01 13:41 G	19199190.97	19199191.07	19199191.21	0.0144	0.0120
Moon	47854-01-27 06:14 G	19199400.57	19199400.76	19199400.95	0.0144	0.0092

Earth	47854-01-27 07:55 G	19199400.65	19199400.83	19199401.03	0.0144	0.0098	*
Earth	47855-02-01 10:34 G	19199770.69	19199770.94	19199771.20	0.0144	0.0013	
Moon	47855-02-01 12:58 G	19199770.78	19199771.04	19199771.31	0.0144	0.0014	*
Moon	47856-02-06 09:50 G	19200140.69	19200140.91	19200141.13	0.0144	0.0066	
Earth	47856-02-06 12:43 G	19200140.82	19200141.03	19200141.27	0.0144	0.0071	*
Mercury	47878-03-12 05:02 G	19208210.61	19208210.71	19208210.85	0.0138	0.0111	
Mercury	47878-06-08 13:12 G	19208298.90	19208299.05	19208299.22	0.0138	0.0081	
Mercury	47878-09-04 21:22 G	19208387.21	19208387.39	19208387.58	0.0137	0.0051	
Mercury	47878-12-02 05:17 G	19208475.53	19208475.72	19208475.92	0.0137	0.0021	
Mercury	47879-02-28 13:26 G	19208563.86	19208564.06	19208564.26	0.0137	0.0009	
Mercury	47879-05-27 21:22 G	19208652.20	19208652.39	19208652.58	0.0137	0.0038	
Mercury	47879-08-24 05:02 G	19208740.55	19208740.71	19208740.89	0.0137	0.0068	
Mercury	47879-11-20 12:58 G	19208828.91	19208829.04	19208829.19	0.0137	0.0097	
Mercury	47880-02-16 21:07 G	19208917.31	19208917.38	19208917.45	0.0137	0.0126	
Venus	47889-06-13 06:29 G	19212321.73	19212321.77	19212321.83	0.0134	0.0131	
Venus	47890-01-25 12:14 G	19212547.89	19212548.01	19212548.16	0.0134	0.0106	
Venus	47890-09-08 18:29 G	19212774.09	19212774.27	19212774.44	0.0134	0.0080	
Venus	47891-04-23 00:00 G	19213000.31	19213000.50	19213000.71	0.0134	0.0055	
Venus	47891-12-05 06:00 G	19213226.54	19213226.75	19213226.97	0.0134	0.0028	
Venus	47892-07-18 11:46 G	19213452.77	19213452.99	19213453.21	0.0134	0.0003	
Venus	47893-03-01 17:17 G	19213679.01	19213679.22	19213679.44	0.0134	0.0023	
Venus	47893-10-13 22:48 G	19213905.26	19213905.45	19213905.66	0.0134	0.0049	
Venus	47894-05-28 04:48 G	19214131.52	19214131.70	19214131.88	0.0134	0.0074	
Venus	47895-01-09 10:05 G	19214357.79	19214357.92	19214358.08	0.0134	0.0100	
Moon	47895-07-27 04:19 G	19214556.58	19214556.68	19214556.79	0.0134	0.0120	
Earth	47895-07-27 07:26 G	19214556.70	19214556.81	19214556.96	0.0134	0.0114	*
Venus	47895-08-23 15:36 G	19214584.09	19214584.15	19214584.24	0.0134	0.0125	
Earth	47896-07-30 13:55 G	19214925.86	19214926.08	19214926.33	0.0134	0.0049	
Moon	47896-07-30 17:02 G	19214925.99	19214926.21	19214926.46	0.0134	0.0045	*
Moon	47897-08-03 17:02 G	19215294.96	19215295.21	19215295.47	0.0134	0.0016	

Earth	47897-08-03 20:24 G	19215295.10	19215295.35	19215295.60	0.0134	0.0017	*
Earth	47898-08-08 02:24 G	19215664.41	19215664.60	19215664.81	0.0134	0.0082	
Moon	47898-08-08 05:46 G	19215664.55	19215664.74	19215664.95	0.0134	0.0081	*
Mercury	47921-06-05 16:34 G	19224001.18	19224001.19	19224001.22	0.0140	0.0138	
Mercury	47921-09-01 19:55 G	19224089.26	19224089.33	19224089.41	0.0140	0.0117	
Mercury	47921-11-28 23:02 G	19224177.38	19224177.46	19224177.56	0.0140	0.0097	
Mercury	47922-02-25 02:24 G	19224265.50	19224265.60	19224265.72	0.0140	0.0076	
Mercury	47922-05-24 05:46 G	19224353.62	19224353.74	19224353.86	0.0141	0.0055	
Mercury	47922-08-20 09:07 G	19224441.75	19224441.88	19224442.01	0.0141	0.0033	
Mercury	47922-11-16 12:29 G	19224529.89	19224530.02	19224530.15	0.0141	0.0013	
Mercury	47923-02-12 15:36 G	19224618.02	19224618.15	19224618.28	0.0141	0.0010	
Mercury	47923-05-11 18:58 G	19224706.17	19224706.29	19224706.42	0.0141	0.0030	
Mercury	47923-08-07 22:19 G	19224794.31	19224794.43	19224794.55	0.0141	0.0051	
Mercury	47923-11-04 01:26 G	19224882.46	19224882.56	19224882.68	0.0141	0.0072	
Mercury	47924-01-31 04:48 G	19224970.61	19224970.70	19224970.80	0.0141	0.0093	
Mercury	47924-04-28 08:10 G	19225058.77	19225058.84	19225058.92	0.0141	0.0114	
Mercury	47924-07-25 11:31 G	19225146.95	19225146.98	19225147.02	0.0141	0.0136	
Venus	47932-10-28 08:53 G	19228163.77	19228163.87	19228164.01	0.0144	0.0119	
Venus	47933-06-11 20:38 G	19228390.20	19228390.36	19228390.54	0.0144	0.0087	
Venus	47934-01-24 08:24 G	19228616.65	19228616.85	19228617.05	0.0144	0.0055	
Venus	47934-09-07 20:10 G	19228843.12	19228843.34	19228843.55	0.0144	0.0023	
Venus	47935-04-22 07:55 G	19229069.61	19229069.83	19229070.05	0.0144	0.0009	
Venus	47935-12-04 19:55 G	19229296.12	19229296.33	19229296.54	0.0144	0.0041	
Venus	47936-07-18 07:55 G	19229522.64	19229522.83	19229523.01	0.0144	0.0074	
Venus	47937-03-01 19:41 G	19229749.18	19229749.32	19229749.47	0.0144	0.0106	
Venus	47937-10-14 07:41 G	19229975.76	19229975.82	19229975.89	0.0144	0.0138	
Moon	47938-01-28 15:36 G	19230081.99	19230082.15	19230082.35	0.0144	0.0100	
Earth	47938-01-28 16:48 G	19230082.02	19230082.20	19230082.41	0.0144	0.0094	*
Earth	47939-02-02 19:41 G	19230452.07	19230452.32	19230452.58	0.0144	0.0010	
Moon	47939-02-02 21:50 G	19230452.15	19230452.41	19230452.67	0.0144	0.0009	*

Moon	47940-02-07 19:41 G	19230822.12	19230822.32	19230822.54	0.0144	0.0077
Earth	47940-02-07 21:50 G	19230822.20	19230822.41	19230822.64	0.0144	0.0075 *
Mars	47953-06-07 02:24 G	19235690.52	19235690.60	19235690.73	0.0141	0.0134
Mercury	47962-01-04 04:19 G	19238823.65	19238823.68	19238823.75	0.0138	0.0133
Mercury	47962-04-02 12:29 G	19238911.90	19238912.02	19238912.16	0.0138	0.0103
Mercury	47962-06-29 20:24 G	19239000.20	19239000.35	19239000.53	0.0138	0.0074
Mercury	47962-09-26 04:34 G	19239088.51	19239088.69	19239088.88	0.0137	0.0043
Mercury	47962-12-23 12:43 G	19239176.83	19239177.03	19239177.22	0.0137	0.0014
Mercury	47963-03-21 20:38 G	19239265.16	19239265.36	19239265.55	0.0137	0.0016
Mercury	47963-06-18 04:34 G	19239353.50	19239353.69	19239353.88	0.0137	0.0046
Mercury	47963-09-14 12:14 G	19239441.86	19239442.01	19239442.18	0.0137	0.0075
Mercury	47963-12-11 20:24 G	19239530.22	19239530.35	19239530.48	0.0137	0.0104
Mercury	47964-03-09 03:50 G	19239618.64	19239618.66	19239618.72	0.0137	0.0134
Venus	47973-09-25 21:22 G	19243106.29	19243106.39	19243106.51	0.0134	0.0115
Venus	47974-05-10 03:07 G	19243332.49	19243332.63	19243332.81	0.0134	0.0090
Venus	47974-12-22 09:07 G	19243558.70	19243558.88	19243559.08	0.0134	0.0064
Venus	47975-08-05 15:07 G	19243784.92	19243785.13	19243785.34	0.0134	0.0038
Venus	47976-03-18 20:53 G	19244011.15	19244011.37	19244011.59	0.0134	0.0013
Venus	47976-10-31 02:38 G	19244237.39	19244237.61	19244237.82	0.0134	0.0013
Venus	47977-06-14 08:10 G	19244463.64	19244463.84	19244464.05	0.0134	0.0039
Venus	47978-01-26 13:55 G	19244689.89	19244690.08	19244690.27	0.0134	0.0064
Venus	47978-09-09 19:12 G	19244916.15	19244916.30	19244916.47	0.0134	0.0090
Venus	47979-04-24 00:58 G	19245142.44	19245142.54	19245142.66	0.0134	0.0115
Moon	47979-07-28 13:12 G	19245237.91	19245238.05	19245238.22	0.0134	0.0105
Earth	47979-07-28 16:48 G	19245238.07	19245238.20	19245238.35	0.0134	0.0111 *
Earth	47980-07-31 23:02 G	19245607.23	19245607.46	19245607.70	0.0134	0.0046
Moon	47980-08-01 02:24 G	19245607.38	19245607.60	19245607.85	0.0134	0.0051 *
Moon	47981-08-05 01:41 G	19245976.32	19245976.57	19245976.82	0.0134	0.0022
Earth	47981-08-05 05:17 G	19245976.47	19245976.72	19245976.97	0.0134	0.0019 *
Earth	47982-08-09 11:02 G	19246345.77	19246345.96	19246346.16	0.0134	0.0084

Moon	47982-08-09 14:10 G	19246345.91	19246346.09	19246346.29	0.0134	0.0087	*
Mars	47997-09-29 16:34 G	19251875.91	19251876.19	19251876.49	0.0137	0.0024	

49TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 49th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	48005-06-25 23:17	G	19254702.45	19254702.47	19254702.52	0.0140	0.0135	
Mercury	48005-09-22 02:38	G	19254790.55	19254790.61	19254790.69	0.0140	0.0114	
Mercury	48005-12-19 06:00	G	19254878.66	19254878.75	19254878.85	0.0140	0.0094	
Mercury	48006-03-17 09:22	G	19254966.78	19254966.89	19254967.00	0.0140	0.0073	
Mercury	48006-06-13 12:43	G	19255054.91	19255055.03	19255055.15	0.0141	0.0052	
Mercury	48006-09-09 15:50	G	19255143.04	19255143.16	19255143.29	0.0141	0.0031	
Mercury	48006-12-06 19:12	G	19255231.17	19255231.30	19255231.43	0.0141	0.0010	
Mercury	48007-03-04 22:34	G	19255319.31	19255319.44	19255319.57	0.0141	0.0011	
Mercury	48007-06-01 01:41	G	19255407.45	19255407.57	19255407.70	0.0141	0.0033	
Mercury	48007-08-28 05:02	G	19255495.59	19255495.71	19255495.83	0.0141	0.0053	
Mercury	48007-11-24 08:24	G	19255583.74	19255583.85	19255583.96	0.0141	0.0074	
Mercury	48008-02-20 11:46	G	19255671.89	19255671.99	19255672.08	0.0141	0.0096	
Mercury	48008-05-18 14:53	G	19255760.06	19255760.12	19255760.20	0.0141	0.0117	
Mercury	48008-08-14 18:14	G	19255848.24	19255848.26	19255848.29	0.0141	0.0138	
Venus	48016-06-27 13:26	G	19258721.99	19258722.06	19258722.16	0.0144	0.0133	
Venus	48017-02-09 01:12	G	19258948.40	19258948.55	19258948.71	0.0144	0.0101	
Venus	48017-09-23 12:58	G	19259174.85	19259175.04	19259175.23	0.0144	0.0069	

Venus	48018-05-08 00:43 G	19259401.32	19259401.53	19259401.74	0.0144	0.0037
Venus	48018-12-20 12:29 G	19259627.81	19259628.02	19259628.24	0.0144	0.0006
Venus	48019-08-04 00:14 G	19259854.30	19259854.51	19259854.73	0.0144	0.0028
Venus	48020-03-17 12:14 G	19260080.81	19260081.01	19260081.21	0.0144	0.0060
Venus	48020-10-30 00:00 G	19260307.35	19260307.50	19260307.68	0.0144	0.0092
Venus	48021-06-13 11:46 G	19260533.90	19260533.99	19260534.12	0.0144	0.0125
Moon	48022-01-28 23:46 G	19260763.30	19260763.49	19260763.70	0.0144	0.0087
Earth	48022-01-29 00:00 G	19260763.32	19260763.50	19260763.71	0.0144	0.0093 *
Earth	48023-02-03 02:53 G	19261133.36	19261133.62	19261133.87	0.0144	0.0008
Moon	48023-02-03 03:50 G	19261133.39	19261133.66	19261133.92	0.0144	0.0011 *
Moon	48024-02-08 02:53 G	19261503.42	19261503.62	19261503.84	0.0144	0.0073
Earth	48024-02-08 05:02 G	19261503.50	19261503.71	19261503.93	0.0144	0.0076 *
Mars	48038-01-31 13:55 G	19266609.80	19266610.08	19266610.39	0.0141	0.0051
Mercury	48046-01-24 11:17 G	19269524.90	19269524.97	19269525.05	0.0138	0.0127
Mercury	48046-04-22 19:26 G	19269613.17	19269613.31	19269613.45	0.0138	0.0097
Mercury	48046-07-20 03:07 G	19269701.47	19269701.63	19269701.82	0.0138	0.0068
Mercury	48046-10-16 11:17 G	19269789.79	19269789.97	19269790.17	0.0137	0.0038
Mercury	48047-01-12 19:26 G	19269878.11	19269878.31	19269878.51	0.0137	0.0008
Mercury	48047-04-11 03:22 G	19269966.45	19269966.64	19269966.83	0.0137	0.0022
Mercury	48047-07-08 11:17 G	19270054.79	19270054.97	19270055.15	0.0137	0.0052
Mercury	48047-10-04 18:58 G	19270143.14	19270143.29	19270143.46	0.0137	0.0081
Mercury	48048-01-01 03:07 G	19270231.52	19270231.63	19270231.75	0.0137	0.0110
Venus	48057-05-26 06:29 G	19273664.71	19273664.77	19273664.86	0.0134	0.0125
Venus	48058-01-07 12:43 G	19273890.88	19273891.03	19273891.17	0.0134	0.0100
Venus	48058-08-21 18:14 G	19274117.09	19274117.26	19274117.45	0.0134	0.0074
Venus	48059-04-05 00:14 G	19274343.31	19274343.51	19274343.72	0.0134	0.0048
Venus	48059-11-17 06:00 G	19274569.54	19274569.75	19274569.97	0.0134	0.0023
Venus	48060-06-30 11:46 G	19274795.78	19274795.99	19274796.21	0.0134	0.0004
Venus	48061-02-11 17:31 G	19275022.02	19275022.23	19275022.44	0.0134	0.0029
Venus	48061-09-25 22:48 G	19275248.27	19275248.45	19275248.66	0.0134	0.0055

Venus	48062-05-10 04:48 G	19275474.53	19275474.70	19275474.88	0.0134	0.0080
Venus	48062-12-22 10:34 G	19275700.80	19275700.94	19275701.07	0.0134	0.0105
Moon	48063-07-28 22:19 G	19275919.33	19275919.43	19275919.58	0.0134	0.0116
Earth	48063-07-29 02:10 G	19275919.46	19275919.59	19275919.76	0.0134	0.0109 *
Venus	48063-08-05 15:22 G	19275927.12	19275927.14	19275927.21	0.0134	0.0131
Earth	48064-08-01 08:24 G	19276288.62	19276288.85	19276289.10	0.0134	0.0044
Moon	48064-08-01 11:46 G	19276288.76	19276288.99	19276289.24	0.0134	0.0039 *
Moon	48065-08-05 10:48 G	19276657.70	19276657.95	19276658.20	0.0134	0.0019
Earth	48065-08-05 14:24 G	19276657.86	19276658.10	19276658.35	0.0134	0.0022 *
Earth	48066-08-09 20:10 G	19277027.16	19277027.34	19277027.54	0.0134	0.0087
Moon	48066-08-09 23:46 G	19277027.31	19277027.49	19277027.69	0.0134	0.0087 *
Mars	48082-05-25 06:43 G	19282794.70	19282794.78	19282794.86	0.0137	0.0132
Mercury	48089-07-16 06:29 G	19285403.73	19285403.77	19285403.81	0.0140	0.0132
Mercury	48089-10-12 09:36 G	19285491.83	19285491.90	19285491.98	0.0140	0.0111
Mercury	48090-01-08 12:58 G	19285579.94	19285580.04	19285580.14	0.0140	0.0090
Mercury	48090-04-06 16:19 G	19285668.07	19285668.18	19285668.29	0.0140	0.0070
Mercury	48090-07-03 19:26 G	19285756.19	19285756.31	19285756.44	0.0141	0.0049
Mercury	48090-09-29 22:48 G	19285844.32	19285844.45	19285844.58	0.0141	0.0028
Mercury	48090-12-27 02:10 G	19285932.46	19285932.59	19285932.72	0.0141	0.0008
Mercury	48091-03-25 05:17 G	19286020.59	19286020.72	19286020.85	0.0141	0.0014
Mercury	48091-06-21 08:38 G	19286108.73	19286108.86	19286108.99	0.0141	0.0035
Mercury	48091-09-17 12:00 G	19286196.88	19286197.00	19286197.12	0.0141	0.0056
Mercury	48091-12-14 15:07 G	19286285.03	19286285.13	19286285.24	0.0141	0.0077
Mercury	48092-03-11 18:29 G	19286373.18	19286373.27	19286373.36	0.0141	0.0098
Mercury	48092-06-07 21:50 G	19286461.34	19286461.41	19286461.48	0.0141	0.0120
Mercury	48092-09-04 01:12 G	19286549.54	19286549.55	19286549.56	0.0141	0.0141
Venus	48100-10-10 05:46 G	19289506.61	19289506.74	19289506.87	0.0144	0.0115
Venus	48101-05-24 17:02 G	19289733.05	19289733.21	19289733.40	0.0144	0.0084
Venus	48102-01-06 04:48 G	19289959.50	19289959.70	19289959.91	0.0144	0.0052
Venus	48102-08-20 16:34 G	19290185.98	19290186.19	19290186.41	0.0144	0.0020

Venus	48103-04-04 04:19 G	19290412.47	19290412.68	19290412.90	0.0144	0.0013
Venus	48103-11-16 16:19 G	19290638.98	19290639.18	19290639.39	0.0144	0.0045
Venus	48104-06-30 04:05 G	19290865.50	19290865.67	19290865.86	0.0144	0.0078
Venus	48105-02-11 15:50 G	19291092.03	19291092.16	19291092.31	0.0144	0.0110
Venus	48105-09-26 03:50 G	19291318.63	19291318.66	19291318.71	0.0144	0.0142
Earth	48106-01-30 05:46 G	19291444.56	19291444.74	19291444.96	0.0144	0.0093
Moon	48106-01-30 06:29 G	19291444.60	19291444.77	19291444.96	0.0144	0.0099 *
Earth	48107-02-04 08:38 G	19291814.60	19291814.86	19291815.11	0.0144	0.0008
Moon	48107-02-04 08:53 G	19291814.61	19291814.87	19291815.14	0.0144	0.0005 *
Moon	48108-02-09 10:05 G	19292184.72	19292184.92	19292185.14	0.0144	0.0077
Earth	48108-02-09 10:34 G	19292184.74	19292184.94	19292185.17	0.0144	0.0076 *
Mercury	48130-02-14 17:31 G	19300226.15	19300226.23	19300226.32	0.0138	0.0123
Mercury	48130-05-14 01:41 G	19300314.42	19300314.57	19300314.71	0.0138	0.0093
Mercury	48130-08-10 09:22 G	19300402.73	19300402.89	19300403.07	0.0138	0.0064
Mercury	48130-11-06 17:31 G	19300491.04	19300491.23	19300491.42	0.0137	0.0033
Mercury	48131-02-03 01:41 G	19300579.37	19300579.57	19300579.76	0.0137	0.0005
Mercury	48131-05-02 09:22 G	19300667.70	19300667.89	19300668.09	0.0137	0.0026
Mercury	48131-07-29 17:31 G	19300756.05	19300756.23	19300756.41	0.0137	0.0056
Mercury	48131-10-26 01:12 G	19300844.41	19300844.55	19300844.71	0.0137	0.0085
Mercury	48132-01-22 09:07 G	19300932.78	19300932.88	19300933.00	0.0137	0.0115
Venus	48141-09-07 20:38 G	19304449.25	19304449.36	19304449.49	0.0134	0.0111
Venus	48142-04-22 02:53 G	19304675.45	19304675.62	19304675.79	0.0134	0.0085
Venus	48142-12-04 08:38 G	19304901.67	19304901.86	19304902.06	0.0134	0.0059
Venus	48143-07-18 14:24 G	19305127.90	19305128.10	19305128.32	0.0134	0.0033
Venus	48144-02-29 20:10 G	19305354.13	19305354.34	19305354.56	0.0134	0.0008
Venus	48144-10-13 01:55 G	19305580.37	19305580.58	19305580.80	0.0134	0.0019
Venus	48145-05-27 07:55 G	19305806.62	19305806.83	19305807.03	0.0134	0.0044
Venus	48146-01-08 13:12 G	19306032.87	19306033.05	19306033.24	0.0134	0.0070
Venus	48146-08-22 18:43 G	19306259.14	19306259.28	19306259.44	0.0134	0.0095
Venus	48147-04-06 00:00 G	19306485.43	19306485.50	19306485.61	0.0134	0.0121

Moon	48147-07-30 07:26 G	19306600.65	19306600.81	19306600.98	0.0134	0.0100
Earth	48147-07-30 10:34 G	19306600.81	19306600.94	19306601.11	0.0134	0.0107 *
Earth	48148-08-02 16:34 G	19306969.96	19306970.19	19306970.44	0.0134	0.0042
Moon	48148-08-02 20:24 G	19306970.12	19306970.35	19306970.59	0.0134	0.0047 *
Moon	48149-08-06 19:12 G	19307339.07	19307339.30	19307339.56	0.0134	0.0028
Earth	48149-08-06 22:34 G	19307339.20	19307339.44	19307339.70	0.0134	0.0024 *
Earth	48150-08-11 04:05 G	19307708.50	19307708.67	19307708.88	0.0134	0.0089
Moon	48150-08-11 07:55 G	19307708.65	19307708.83	19307709.03	0.0134	0.0089 *
Jupiter	48157-04-07 12:29 G	19310139.65	19310140.02	19310140.43	0.0135	0.0084
Mercury	48173-08-06 13:12 G	19316105.01	19316105.05	19316105.11	0.0140	0.0128
Mercury	48173-11-02 16:34 G	19316193.11	19316193.19	19316193.28	0.0140	0.0107
Mercury	48174-01-29 19:55 G	19316281.23	19316281.33	19316281.43	0.0140	0.0087
Mercury	48174-04-27 23:17 G	19316369.35	19316369.47	19316369.58	0.0140	0.0066
Mercury	48174-07-25 02:24 G	19316457.48	19316457.60	19316457.73	0.0141	0.0045
Mercury	48174-10-21 05:46 G	19316545.61	19316545.74	19316545.87	0.0141	0.0024
Mercury	48175-01-17 09:07 G	19316633.75	19316633.88	19316634.01	0.0141	0.0004
Mercury	48175-04-15 12:14 G	19316721.89	19316722.01	19316722.14	0.0141	0.0019
Mercury	48175-07-12 15:36 G	19316810.03	19316810.15	19316810.28	0.0141	0.0039
Mercury	48175-10-08 18:58 G	19316898.17	19316898.29	19316898.41	0.0141	0.0060
Mercury	48176-01-04 22:05 G	19316986.32	19316986.42	19316986.53	0.0141	0.0081
Mercury	48176-04-02 01:26 G	19317074.48	19317074.56	19317074.65	0.0141	0.0102
Mercury	48176-06-29 04:48 G	19317162.64	19317162.70	19317162.76	0.0141	0.0123
Venus	48184-06-09 11:02 G	19320064.88	19320064.96	19320065.07	0.0144	0.0129
Venus	48185-01-21 22:48 G	19320291.29	19320291.45	19320291.61	0.0144	0.0097
Venus	48185-09-05 10:05 G	19320517.74	19320517.92	19320518.13	0.0144	0.0066
Venus	48186-04-19 22:05 G	19320744.21	19320744.42	19320744.63	0.0144	0.0033
Venus	48186-12-02 09:50 G	19320970.69	19320970.91	19320971.13	0.0144	0.0001
Venus	48187-07-16 21:36 G	19321197.19	19321197.40	19321197.61	0.0144	0.0031
Venus	48188-02-28 09:22 G	19321423.70	19321423.89	19321424.09	0.0144	0.0064
Venus	48188-10-11 20:53 G	19321650.23	19321650.37	19321650.55	0.0144	0.0097

Venus	48189-05-26 08:38 G	19321876.78	19321876.86	19321876.98	0.0144	0.0129
Earth	48190-01-30 13:41 G	19322125.88	19322126.07	19322126.28	0.0144	0.0090
Moon	48190-01-30 14:53 G	19322125.93	19322126.12	19322126.33	0.0144	0.0083 *
Moon	48191-02-04 15:22 G	19322495.87	19322496.14	19322496.41	0.0144	0.0011
Earth	48191-02-04 16:19 G	19322495.92	19322496.18	19322496.43	0.0144	0.0007 *
Moon	48192-02-09 17:31 G	19322866.04	19322866.23	19322866.45	0.0144	0.0078
Earth	48192-02-09 18:00 G	19322866.05	19322866.25	19322866.48	0.0144	0.0078 *
Mars	48205-06-20 05:31 G	19327744.53	19327744.73	19327744.97	0.0141	0.0101
Mercury	48214-03-07 23:31 G	19330927.40	19330927.48	19330927.59	0.0138	0.0119
Mercury	48214-06-04 07:41 G	19331015.68	19331015.82	19331015.98	0.0138	0.0089
Mercury	48214-08-31 15:50 G	19331103.98	19331104.16	19331104.34	0.0138	0.0059
Mercury	48214-11-27 23:46 G	19331192.30	19331192.49	19331192.68	0.0137	0.0029
Mercury	48215-02-24 07:41 G	19331280.63	19331280.82	19331281.02	0.0137	0.0003
Mercury	48215-05-23 15:36 G	19331368.96	19331369.15	19331369.35	0.0137	0.0031
Mercury	48215-08-19 23:31 G	19331457.31	19331457.48	19331457.66	0.0137	0.0060
Mercury	48215-11-16 07:26 G	19331545.67	19331545.81	19331545.97	0.0137	0.0089
Mercury	48216-02-12 15:07 G	19331634.05	19331634.13	19331634.24	0.0137	0.0119
Venus	48225-05-09 05:02 G	19335007.64	19335007.71	19335007.82	0.0134	0.0122
Venus	48225-12-21 11:31 G	19335233.82	19335233.98	19335234.13	0.0134	0.0096
Venus	48226-08-04 17:02 G	19335460.04	19335460.21	19335460.41	0.0134	0.0070
Venus	48227-03-18 23:02 G	19335686.26	19335686.46	19335686.67	0.0134	0.0044
Venus	48227-10-31 05:02 G	19335912.50	19335912.71	19335912.93	0.0134	0.0018
Venus	48228-06-13 10:48 G	19336138.74	19336138.95	19336139.17	0.0134	0.0008
Venus	48229-01-25 16:19 G	19336364.98	19336365.18	19336365.40	0.0134	0.0034
Venus	48229-09-08 21:50 G	19336591.23	19336591.41	19336591.62	0.0134	0.0060
Venus	48230-04-23 03:36 G	19336817.49	19336817.65	19336817.83	0.0134	0.0085
Venus	48230-12-05 09:22 G	19337043.77	19337043.89	19337044.01	0.0134	0.0110
Moon	48231-07-31 15:50 G	19337282.05	19337282.16	19337282.32	0.0134	0.0112
Earth	48231-07-31 19:26 G	19337282.17	19337282.31	19337282.48	0.0134	0.0104 *
Earth	48232-08-04 01:41 G	19337651.33	19337651.57	19337651.81	0.0134	0.0039

Moon	48232-08-04 04:48 G	19337651.45	19337651.70	19337651.95	0.0134	0.0033 *
Moon	48233-08-08 04:05 G	19338020.43	19338020.67	19338020.92	0.0134	0.0022
Earth	48233-08-08 07:26 G	19338020.57	19338020.81	19338021.07	0.0134	0.0026 *
Earth	48234-08-12 13:12 G	19338389.88	19338390.05	19338390.25	0.0134	0.0091
Moon	48234-08-12 16:19 G	19338390.02	19338390.18	19338390.39	0.0134	0.0093 *
Mars	48249-10-13 12:00 G	19343930.71	19343931.00	19343931.30	0.0137	0.0014
Mercury	48257-08-27 20:24 G	19346806.30	19346806.35	19346806.42	0.0140	0.0123
Mercury	48257-11-23 23:46 G	19346894.41	19346894.49	19346894.58	0.0140	0.0103
Mercury	48258-02-20 03:07 G	19346982.53	19346982.63	19346982.74	0.0140	0.0082
Mercury	48258-05-19 06:29 G	19347070.65	19347070.77	19347070.89	0.0140	0.0061
Mercury	48258-08-15 09:36 G	19347158.78	19347158.90	19347159.03	0.0141	0.0041
Mercury	48258-11-11 12:58 G	19347246.91	19347247.04	19347247.17	0.0141	0.0019
Mercury	48259-02-07 16:19 G	19347335.05	19347335.18	19347335.31	0.0141	0.0002
Mercury	48259-05-06 19:26 G	19347423.19	19347423.31	19347423.44	0.0141	0.0023
Mercury	48259-08-02 22:48 G	19347511.33	19347511.45	19347511.58	0.0141	0.0044
Mercury	48259-10-30 02:10 G	19347599.48	19347599.59	19347599.71	0.0141	0.0065
Mercury	48260-01-26 05:17 G	19347687.63	19347687.72	19347687.83	0.0141	0.0086
Mercury	48260-04-23 08:38 G	19347775.78	19347775.86	19347775.95	0.0141	0.0107
Mercury	48260-07-20 12:00 G	19347863.95	19347864.00	19347864.05	0.0141	0.0128
Venus	48268-02-08 17:46 G	19350623.22	19350623.24	19350623.28	0.0144	0.0142
Venus	48268-09-22 05:02 G	19350849.59	19350849.71	19350849.87	0.0144	0.0111
Venus	48269-05-06 16:48 G	19351076.03	19351076.20	19351076.39	0.0144	0.0079
Venus	48269-12-19 04:34 G	19351302.49	19351302.69	19351302.90	0.0144	0.0047
Venus	48270-08-02 16:19 G	19351528.96	19351529.18	19351529.40	0.0144	0.0014
Venus	48271-03-17 04:05 G	19351755.45	19351755.67	19351755.88	0.0144	0.0018
Venus	48271-10-29 15:50 G	19351981.96	19351982.16	19351982.37	0.0144	0.0051
Venus	48272-06-12 03:50 G	19352208.48	19352208.66	19352208.83	0.0144	0.0083
Venus	48273-01-24 15:07 G	19352435.02	19352435.13	19352435.28	0.0144	0.0115
Earth	48274-01-31 23:31 G	19352807.29	19352807.48	19352807.70	0.0144	0.0086
Moon	48274-02-01 01:41 G	19352807.39	19352807.57	19352807.77	0.0144	0.0093 *

Moon	48275-02-06 00:43 G	19353177.27	19353177.53	19353177.80	0.0144	0.0003
Earth	48275-02-06 01:55 G	19353177.33	19353177.58	19353177.84	0.0144	0.0003 *
Earth	48276-02-11 03:50 G	19353547.46	19353547.66	19353547.89	0.0144	0.0082
Moon	48276-02-11 05:02 G	19353547.51	19353547.71	19353547.92	0.0144	0.0080 *
Jupiter	48281-10-14 18:43 G	19355619.76	19355620.28	19355620.81	0.0144	0.0025
Mars	48290-02-13 17:46 G	19358664.01	19358664.24	19358664.52	0.0141	0.0085
Mercury	48298-03-28 06:14 G	19361628.66	19361628.76	19361628.88	0.0138	0.0113
Mercury	48298-06-24 14:24 G	19361716.95	19361717.10	19361717.26	0.0138	0.0083
Mercury	48298-09-20 22:19 G	19361805.26	19361805.43	19361805.62	0.0138	0.0053
Mercury	48298-12-18 06:29 G	19361893.58	19361893.77	19361893.96	0.0137	0.0023
Mercury	48299-03-16 14:24 G	19361981.90	19361982.10	19361982.30	0.0137	0.0006
Mercury	48299-06-12 22:19 G	19362070.24	19362070.43	19362070.62	0.0137	0.0036
Mercury	48299-09-09 06:14 G	19362158.59	19362158.76	19362158.94	0.0137	0.0065
Mercury	48299-12-06 13:55 G	19362246.95	19362247.08	19362247.24	0.0137	0.0095
Mercury	48300-03-04 21:50 G	19362335.34	19362335.41	19362335.50	0.0137	0.0124
Venus	48309-01-07 13:26 G	19365566.05	19365566.06	19365566.11	0.0134	0.0133
Venus	48309-08-21 19:55 G	19365792.20	19365792.33	19365792.46	0.0134	0.0107
Venus	48310-04-05 01:41 G	19366018.41	19366018.57	19366018.76	0.0134	0.0081
Venus	48310-11-17 07:41 G	19366244.63	19366244.82	19366245.03	0.0134	0.0055
Venus	48311-07-01 13:41 G	19366470.86	19366471.07	19366471.29	0.0134	0.0029
Venus	48312-02-12 19:26 G	19366697.09	19366697.31	19366697.53	0.0134	0.0003
Venus	48312-09-26 01:12 G	19366923.34	19366923.55	19366923.77	0.0134	0.0023
Venus	48313-05-10 06:43 G	19367149.59	19367149.78	19367149.99	0.0134	0.0049
Venus	48313-12-22 12:29 G	19367375.84	19367376.02	19367376.20	0.0134	0.0074
Venus	48314-08-05 17:46 G	19367602.11	19367602.24	19367602.40	0.0134	0.0100
Venus	48315-03-19 23:17 G	19367828.41	19367828.47	19367828.56	0.0134	0.0125
Moon	48315-08-02 01:26 G	19367963.40	19367963.56	19367963.75	0.0134	0.0095
Earth	48315-08-02 03:50 G	19367963.52	19367963.66	19367963.85	0.0134	0.0102 *
Earth	48316-08-05 10:05 G	19368332.68	19368332.92	19368333.17	0.0134	0.0037
Moon	48316-08-05 13:12 G	19368332.81	19368333.05	19368333.30	0.0134	0.0043 *

Moon	48317-08-09 13:26 G	19368701.83	19368702.06	19368702.31	0.0134	0.0034
Earth	48317-08-09 16:19 G	19368701.93	19368702.18	19368702.42	0.0134	0.0028 *
Earth	48318-08-13 22:05 G	19369071.25	19369071.42	19369071.61	0.0134	0.0093
Moon	48318-08-14 01:12 G	19369071.37	19369071.55	19369071.74	0.0134	0.0092 *
Mercury	48341-06-22 00:29 G	19377419.51	19377419.52	19377419.54	0.0140	0.0139
Mercury	48341-09-18 03:50 G	19377507.59	19377507.66	19377507.73	0.0140	0.0118
Mercury	48341-12-15 06:58 G	19377595.71	19377595.79	19377595.89	0.0140	0.0098
Mercury	48342-03-13 10:19 G	19377683.83	19377683.93	19377684.04	0.0141	0.0077
Mercury	48342-06-09 13:41 G	19377771.95	19377772.07	19377772.19	0.0141	0.0056
Mercury	48342-09-05 16:48 G	19377860.08	19377860.20	19377860.33	0.0141	0.0036
Mercury	48342-12-02 20:10 G	19377948.21	19377948.34	19377948.47	0.0141	0.0015
Mercury	48343-02-28 23:31 G	19378036.35	19378036.48	19378036.61	0.0141	0.0007
Mercury	48343-05-28 02:53 G	19378124.49	19378124.62	19378124.74	0.0141	0.0028
Mercury	48343-08-24 06:00 G	19378212.63	19378212.75	19378212.88	0.0141	0.0049
Mercury	48343-11-20 09:22 G	19378300.78	19378300.89	19378301.00	0.0141	0.0070
Mercury	48344-02-16 12:43 G	19378388.93	19378389.03	19378389.13	0.0141	0.0091
Mercury	48344-05-14 15:50 G	19378477.09	19378477.16	19378477.25	0.0141	0.0113
Mercury	48344-08-10 19:12 G	19378565.27	19378565.30	19378565.35	0.0141	0.0134
Venus	48352-05-23 12:43 G	19381407.93	19381408.03	19381408.15	0.0144	0.0123
Venus	48353-01-05 00:29 G	19381634.35	19381634.52	19381634.69	0.0144	0.0091
Venus	48353-08-19 12:00 G	19381860.80	19381861.00	19381861.20	0.0144	0.0059
Venus	48354-04-02 23:31 G	19382087.27	19382087.48	19382087.70	0.0144	0.0027
Venus	48354-11-15 11:31 G	19382313.76	19382313.98	19382314.20	0.0144	0.0005
Venus	48355-06-29 23:17 G	19382540.26	19382540.47	19382540.68	0.0144	0.0038
Venus	48356-02-11 10:48 G	19382766.77	19382766.95	19382767.15	0.0144	0.0070
Venus	48356-09-24 22:34 G	19382993.30	19382993.44	19382993.60	0.0144	0.0102
Venus	48357-05-09 10:19 G	19383219.87	19383219.93	19383220.02	0.0144	0.0135
Earth	48358-02-02 11:17 G	19383488.77	19383488.97	19383489.19	0.0144	0.0081
Moon	48358-02-02 13:41 G	19383488.87	19383489.07	19383489.30	0.0144	0.0073 *
Moon	48359-02-07 11:31 G	19383858.72	19383858.98	19383859.25	0.0144	0.0004

Earth	48359-02-07 13:55 G	19383858.82	19383859.08	19383859.33	0.0144	0.0003	*
Earth	48360-02-12 16:05 G	19384228.97	19384229.17	19384229.38	0.0144	0.0087	
Moon	48360-02-12 16:48 G	19384229.02	19384229.20	19384229.41	0.0144	0.0088	*
Mercury	48382-01-20 05:31 G	19392241.71	19392241.73	19392241.78	0.0138	0.0135	
Mercury	48382-04-18 13:41 G	19392329.95	19392330.07	19392330.20	0.0138	0.0105	
Mercury	48382-07-15 21:50 G	19392418.25	19392418.41	19392418.58	0.0138	0.0075	
Mercury	48382-10-12 05:46 G	19392506.56	19392506.74	19392506.93	0.0137	0.0045	
Mercury	48383-01-08 13:41 G	19392594.88	19392595.07	19392595.27	0.0137	0.0016	
Mercury	48383-04-06 21:36 G	19392683.21	19392683.40	19392683.60	0.0137	0.0015	
Mercury	48383-07-04 05:31 G	19392771.55	19392771.73	19392771.92	0.0137	0.0044	
Mercury	48383-09-30 13:26 G	19392859.90	19392860.06	19392860.23	0.0137	0.0073	
Mercury	48383-12-27 21:22 G	19392948.27	19392948.39	19392948.52	0.0137	0.0102	
Mercury	48384-03-25 05:02 G	19393036.67	19393036.71	19393036.77	0.0137	0.0132	
Venus	48393-04-21 05:02 G	19396350.63	19396350.71	19396350.84	0.0134	0.0118	
Venus	48393-12-03 11:17 G	19396576.82	19396576.97	19396577.14	0.0134	0.0091	
Venus	48394-07-17 17:17 G	19396803.04	19396803.22	19396803.42	0.0134	0.0065	
Venus	48395-02-28 23:17 G	19397029.26	19397029.47	19397029.68	0.0134	0.0039	
Venus	48395-10-13 05:02 G	19397255.49	19397255.71	19397255.93	0.0134	0.0013	
Venus	48396-05-26 10:48 G	19397481.73	19397481.95	19397482.17	0.0134	0.0013	
Venus	48397-01-07 16:34 G	19397707.98	19397708.19	19397708.39	0.0134	0.0038	
Venus	48397-08-21 21:50 G	19397934.23	19397934.41	19397934.61	0.0134	0.0064	
Venus	48398-04-05 03:07 G	19398160.49	19398160.63	19398160.81	0.0134	0.0090	
Venus	48398-11-17 08:38 G	19398386.77	19398386.86	19398386.99	0.0134	0.0115	
Moon	48399-08-02 11:31 G	19398644.84	19398644.98	19398645.14	0.0134	0.0105	
Earth	48399-08-02 13:41 G	19398644.92	19398645.07	19398645.26	0.0134	0.0098	*
Earth	48400-08-05 19:55 G	19399014.09	19399014.33	19399014.58	0.0134	0.0033	
Moon	48400-08-05 22:05 G	19399014.17	19399014.42	19399014.68	0.0134	0.0027	*
Moon	48401-08-09 23:17 G	19399383.24	19399383.47	19399383.72	0.0134	0.0027	
Earth	48401-08-10 01:55 G	19399383.34	19399383.58	19399383.83	0.0134	0.0032	*
Earth	48402-08-14 07:41 G	19399752.67	19399752.82	19399753.01	0.0134	0.0097	

Moon	48402-08-14 10:05 G	19399752.77	19399752.92	19399753.11	0.0134	0.0100 *
Mars	48417-03-02 17:02 G	19405067.01	19405067.21	19405067.42	0.0137	0.0101
Mercury	48425-07-12 07:41 G	19408120.79	19408120.82	19408120.86	0.0140	0.0134
Mercury	48425-10-08 11:02 G	19408208.89	19408208.96	19408209.04	0.0140	0.0114
Mercury	48426-01-04 14:24 G	19408297.00	19408297.10	19408297.19	0.0141	0.0093
Mercury	48426-04-02 17:31 G	19408385.12	19408385.23	19408385.34	0.0141	0.0072
Mercury	48426-06-29 20:53 G	19408473.25	19408473.37	19408473.49	0.0141	0.0051
Mercury	48426-09-26 00:00 G	19408561.38	19408561.50	19408561.63	0.0141	0.0031
Mercury	48426-12-23 03:22 G	19408649.51	19408649.64	19408649.77	0.0141	0.0010
Mercury	48427-03-21 06:43 G	19408737.65	19408737.78	19408737.91	0.0141	0.0012
Mercury	48427-06-17 10:05 G	19408825.79	19408825.92	19408826.04	0.0141	0.0033
Mercury	48427-09-13 13:12 G	19408913.93	19408914.05	19408914.17	0.0141	0.0054
Mercury	48427-12-10 16:34 G	19409002.08	19409002.19	19409002.30	0.0141	0.0075
Mercury	48428-03-07 19:41 G	19409090.24	19409090.32	19409090.42	0.0141	0.0097
Mercury	48428-06-03 23:02 G	19409178.40	19409178.46	19409178.54	0.0141	0.0118
Mercury	48428-08-31 02:38 G	19409266.59	19409266.61	19409266.63	0.0142	0.0139
Venus	48436-01-21 19:41 G	19411966.26	19411966.32	19411966.40	0.0144	0.0136
Venus	48436-09-04 07:26 G	19412192.66	19412192.81	19412192.96	0.0144	0.0104
Venus	48437-04-18 18:58 G	19412419.10	19412419.29	19412419.48	0.0144	0.0072
Venus	48437-12-01 06:43 G	19412645.57	19412645.78	19412645.99	0.0144	0.0040
Venus	48438-07-15 18:29 G	19412872.05	19412872.27	19412872.48	0.0144	0.0008
Venus	48439-02-27 06:00 G	19413098.54	19413098.75	19413098.97	0.0144	0.0025
Venus	48439-10-11 17:46 G	19413325.05	19413325.24	19413325.45	0.0144	0.0057
Venus	48440-05-25 05:31 G	19413551.57	19413551.73	19413551.91	0.0144	0.0090
Venus	48441-01-06 17:17 G	19413778.12	19413778.22	19413778.35	0.0144	0.0122
Earth	48442-02-02 22:19 G	19414170.22	19414170.43	19414170.66	0.0144	0.0076
Moon	48442-02-03 01:26 G	19414170.36	19414170.56	19414170.77	0.0144	0.0083 *
Moon	48443-02-07 22:34 G	19414540.18	19414540.44	19414540.70	0.0144	0.0014
Earth	48443-02-08 00:58 G	19414540.28	19414540.54	19414540.80	0.0144	0.0008 *
Earth	48444-02-13 02:53 G	19414910.45	19414910.62	19414910.84	0.0144	0.0093

Moon	48444-02-13 05:17 G	19414910.54	19414910.72	19414910.93	0.0144	0.0089 *
Mars	48457-07-03 06:29 G	19419799.47	19419799.77	19419800.07	0.0141	0.0040
Mercury	48466-02-09 13:12 G	19422942.99	19422943.05	19422943.15	0.0138	0.0126
Mercury	48466-05-08 21:22 G	19423031.26	19423031.39	19423031.54	0.0138	0.0096
Mercury	48466-08-05 05:31 G	19423119.56	19423119.73	19423119.90	0.0138	0.0066
Mercury	48466-11-01 13:26 G	19423207.87	19423208.06	19423208.25	0.0137	0.0036
Mercury	48467-01-28 21:22 G	19423296.20	19423296.39	19423296.59	0.0137	0.0007
Mercury	48467-04-27 05:17 G	19423384.53	19423384.72	19423384.92	0.0137	0.0023
Mercury	48467-07-24 13:12 G	19423472.87	19423473.05	19423473.23	0.0137	0.0052
Mercury	48467-10-20 20:53 G	19423561.22	19423561.37	19423561.54	0.0137	0.0082
Mercury	48468-01-17 04:48 G	19423649.60	19423649.70	19423649.82	0.0137	0.0111
Venus	48476-12-19 15:22 G	19426909.08	19426909.14	19426909.21	0.0134	0.0127
Venus	48477-08-02 20:53 G	19427135.25	19427135.37	19427135.53	0.0134	0.0102
Venus	48478-03-17 03:07 G	19427361.46	19427361.63	19427361.82	0.0134	0.0075
Venus	48478-10-29 08:53 G	19427587.68	19427587.87	19427588.08	0.0134	0.0049
Venus	48479-06-12 14:53 G	19427813.91	19427814.12	19427814.33	0.0134	0.0023
Venus	48480-01-24 20:24 G	19428040.14	19428040.35	19428040.57	0.0134	0.0004
Venus	48480-09-07 01:55 G	19428266.37	19428266.58	19428266.80	0.0134	0.0029
Venus	48481-04-21 07:41 G	19428492.62	19428492.82	19428493.02	0.0134	0.0054
Venus	48481-12-03 12:58 G	19428718.88	19428719.04	19428719.22	0.0134	0.0080
Venus	48482-07-17 18:29 G	19428945.14	19428945.27	19428945.41	0.0134	0.0105
Venus	48483-02-28 23:46 G	19429171.45	19429171.49	19429171.55	0.0134	0.0130
Moon	48483-08-02 22:05 G	19429326.26	19429326.42	19429326.62	0.0134	0.0089
Earth	48483-08-02 23:31 G	19429326.32	19429326.48	19429326.68	0.0134	0.0095 *
Earth	48484-08-06 05:31 G	19429695.49	19429695.73	19429695.98	0.0134	0.0030
Moon	48484-08-06 07:26 G	19429695.57	19429695.81	19429696.07	0.0134	0.0037 *
Moon	48485-08-10 10:05 G	19430064.69	19430064.92	19430065.16	0.0134	0.0041
Earth	48485-08-10 11:46 G	19430064.74	19430064.99	19430065.23	0.0134	0.0035 *
Earth	48486-08-14 17:31 G	19430434.07	19430434.23	19430434.40	0.0134	0.0100
Moon	48486-08-14 19:41 G	19430434.15	19430434.32	19430434.50	0.0134	0.0097 *

Mars	48501-10-27 07:12 G	19435985.55	19435985.80	19435986.09	0.0137	0.0058
Mercury	48509-08-02 14:38 G	19438822.07	19438822.11	19438822.16	0.0140	0.0131
Mercury	48509-10-29 18:00 G	19438910.17	19438910.25	19438910.33	0.0140	0.0110
Mercury	48510-01-25 21:07 G	19438998.29	19438998.38	19438998.49	0.0141	0.0090
Mercury	48510-04-24 00:29 G	19439086.41	19439086.52	19439086.64	0.0141	0.0069
Mercury	48510-07-21 03:50 G	19439174.54	19439174.66	19439174.78	0.0141	0.0048
Mercury	48510-10-17 06:58 G	19439262.67	19439262.79	19439262.92	0.0141	0.0028
Mercury	48511-01-13 10:19 G	19439350.80	19439350.93	19439351.06	0.0141	0.0006
Mercury	48511-04-11 13:41 G	19439438.94	19439439.07	19439439.20	0.0141	0.0015
Mercury	48511-07-08 17:02 G	19439527.08	19439527.21	19439527.33	0.0141	0.0036
Mercury	48511-10-04 20:10 G	19439615.23	19439615.34	19439615.46	0.0141	0.0057
Mercury	48511-12-31 23:31 G	19439703.37	19439703.48	19439703.59	0.0141	0.0079
Mercury	48512-03-29 02:53 G	19439791.53	19439791.62	19439791.71	0.0141	0.0100
Mercury	48512-06-25 06:00 G	19439879.69	19439879.75	19439879.82	0.0141	0.0121
Venus	48520-05-05 12:58 G	19442750.93	19442751.04	19442751.18	0.0144	0.0118
Venus	48520-12-18 00:43 G	19442977.37	19442977.53	19442977.71	0.0144	0.0086
Venus	48521-08-01 12:29 G	19443203.82	19443204.02	19443204.22	0.0144	0.0054
Venus	48522-03-16 00:14 G	19443430.29	19443430.51	19443430.72	0.0144	0.0021
Venus	48522-10-28 12:00 G	19443656.79	19443657.00	19443657.22	0.0144	0.0011
Venus	48523-06-11 23:46 G	19443883.29	19443883.49	19443883.70	0.0144	0.0044
Venus	48524-01-24 11:17 G	19444109.80	19444109.97	19444110.17	0.0144	0.0077
Venus	48524-09-06 23:17 G	19444336.34	19444336.47	19444336.62	0.0145	0.0108
Venus	48525-04-21 11:02 G	19444562.93	19444562.96	19444563.03	0.0145	0.0141
Earth	48526-02-04 07:41 G	19444851.61	19444851.82	19444852.06	0.0145	0.0073
Moon	48526-02-04 11:02 G	19444851.75	19444851.96	19444852.20	0.0145	0.0065 *
Moon	48527-02-09 07:26 G	19445221.55	19445221.81	19445222.08	0.0145	0.0006
Earth	48527-02-09 10:48 G	19445221.70	19445221.95	19445222.21	0.0145	0.0012 *
Earth	48528-02-14 13:26 G	19445591.87	19445592.06	19445592.25	0.0144	0.0096
Moon	48528-02-14 15:22 G	19445591.97	19445592.14	19445592.34	0.0144	0.0099 *
Mercury	48550-03-02 20:53 G	19453644.28	19453644.37	19453644.49	0.0138	0.0117

Mercury	48550-05-30 05:02 G	19453732.57	19453732.71	19453732.87	0.0138	0.0087
Mercury	48550-08-26 13:12 G	19453820.87	19453821.05	19453821.23	0.0138	0.0057
Mercury	48550-11-22 21:07 G	19453909.19	19453909.38	19453909.57	0.0137	0.0027
Mercury	48551-02-19 05:02 G	19453997.51	19453997.71	19453997.91	0.0137	0.0003
Mercury	48551-05-18 12:58 G	19454085.85	19454086.04	19454086.23	0.0137	0.0032
Mercury	48551-08-14 20:53 G	19454174.19	19454174.37	19454174.55	0.0137	0.0061
Mercury	48551-11-11 04:34 G	19454262.55	19454262.69	19454262.85	0.0137	0.0091
Mercury	48552-02-07 12:29 G	19454350.94	19454351.02	19454351.12	0.0137	0.0120
Venus	48561-04-03 07:26 G	19457693.70	19457693.81	19457693.95	0.0134	0.0110
Venus	48561-11-15 13:26 G	19457919.90	19457920.06	19457920.24	0.0134	0.0085
Venus	48562-06-29 19:26 G	19458146.11	19458146.31	19458146.51	0.0134	0.0058
Venus	48563-02-11 00:58 G	19458372.33	19458372.54	19458372.76	0.0134	0.0033
Venus	48563-09-25 06:43 G	19458598.56	19458598.78	19458599.00	0.0134	0.0007
Venus	48564-05-08 12:29 G	19458824.80	19458825.02	19458825.23	0.0134	0.0019
Venus	48564-12-20 17:46 G	19459051.04	19459051.24	19459051.45	0.0134	0.0045
Venus	48565-08-03 23:17 G	19459277.29	19459277.47	19459277.66	0.0134	0.0070
Venus	48566-03-18 04:34 G	19459503.55	19459503.69	19459503.85	0.0134	0.0096
Venus	48566-10-30 09:50 G	19459729.84	19459729.91	19459730.02	0.0134	0.0121
Moon	48567-08-04 09:36 G	19460007.74	19460007.90	19460008.07	0.0134	0.0097
Earth	48567-08-04 10:48 G	19460007.77	19460007.95	19460008.14	0.0134	0.0090 *
Earth	48568-08-07 16:34 G	19460376.95	19460377.19	19460377.44	0.0134	0.0026
Moon	48568-08-07 17:17 G	19460376.97	19460377.22	19460377.48	0.0134	0.0019 *
Moon	48569-08-11 20:53 G	19460746.15	19460746.37	19460746.62	0.0134	0.0034
Earth	48569-08-11 22:34 G	19460746.20	19460746.44	19460746.68	0.0134	0.0039 *
Earth	48570-08-16 04:05 G	19461115.53	19461115.67	19461115.85	0.0134	0.0104
Moon	48570-08-16 05:17 G	19461115.58	19461115.72	19461115.88	0.0134	0.0108 *
Mercury	48593-08-22 21:22 G	19469523.35	19469523.39	19469523.45	0.0140	0.0129
Mercury	48593-11-19 00:43 G	19469611.46	19469611.53	19469611.62	0.0140	0.0108
Mercury	48594-02-15 04:05 G	19469699.57	19469699.67	19469699.78	0.0141	0.0087
Mercury	48594-05-14 07:26 G	19469787.70	19469787.81	19469787.93	0.0141	0.0066

Mercury	48594-08-10 10:48 G	19469875.82	19469875.95	19469876.07	0.0141	0.0045
Mercury	48594-11-06 13:55 G	19469963.96	19469964.08	19469964.21	0.0141	0.0024
Mercury	48595-02-02 17:17 G	19470052.09	19470052.22	19470052.35	0.0141	0.0003
Mercury	48595-05-01 20:38 G	19470140.23	19470140.36	19470140.49	0.0141	0.0018
Mercury	48595-07-28 23:46 G	19470228.37	19470228.49	19470228.62	0.0141	0.0040
Mercury	48595-10-25 03:07 G	19470316.51	19470316.63	19470316.75	0.0141	0.0061
Mercury	48596-01-21 06:14 G	19470404.66	19470404.76	19470404.88	0.0141	0.0083
Mercury	48596-04-18 09:36 G	19470492.82	19470492.90	19470493.00	0.0141	0.0103
Mercury	48596-07-15 12:58 G	19470580.99	19470581.04	19470581.11	0.0141	0.0125
Venus	48604-01-04 18:14 G	19473309.18	19473309.26	19473309.35	0.0144	0.0131
Venus	48604-08-18 05:17 G	19473535.58	19473535.72	19473535.89	0.0144	0.0100
Venus	48605-04-01 17:02 G	19473762.03	19473762.21	19473762.41	0.0144	0.0068
Venus	48605-11-14 05:02 G	19473988.50	19473988.71	19473988.92	0.0144	0.0036
Venus	48606-06-28 16:48 G	19474214.98	19474215.20	19474215.42	0.0144	0.0004
Venus	48607-02-10 04:19 G	19474441.47	19474441.68	19474441.90	0.0144	0.0029
Venus	48607-09-24 16:05 G	19474667.98	19474668.17	19474668.38	0.0144	0.0062
Venus	48608-05-08 03:50 G	19474894.51	19474894.66	19474894.84	0.0145	0.0095
Venus	48608-12-20 15:50 G	19475121.07	19475121.16	19475121.28	0.0145	0.0127
Earth	48610-02-05 15:07 G	19475532.92	19475533.13	19475533.37	0.0145	0.0070
Moon	48610-02-05 18:43 G	19475533.08	19475533.28	19475533.51	0.0145	0.0077 *
Moon	48611-02-10 14:53 G	19475902.87	19475903.12	19475903.38	0.0145	0.0021
Earth	48611-02-10 18:14 G	19475903.01	19475903.26	19475903.52	0.0145	0.0014 *
Earth	48612-02-15 21:07 G	19476273.20	19476273.38	19476273.57	0.0145	0.0098
Moon	48612-02-16 00:00 G	19476273.33	19476273.50	19476273.71	0.0145	0.0094 *
Mercury	48634-03-24 04:05 G	19484345.56	19484345.67	19484345.80	0.0138	0.0110
Mercury	48634-06-20 12:14 G	19484433.85	19484434.01	19484434.17	0.0138	0.0080
Mercury	48634-09-16 19:55 G	19484522.16	19484522.33	19484522.53	0.0138	0.0051
Mercury	48634-12-14 04:05 G	19484610.48	19484610.67	19484610.87	0.0137	0.0021
Mercury	48635-03-12 12:14 G	19484698.81	19484699.01	19484699.20	0.0137	0.0010
Mercury	48635-06-08 19:55 G	19484787.15	19484787.33	19484787.52	0.0137	0.0039

Mercury	48635-09-05 03:50 G	19484875.49	19484875.66	19484875.84	0.0137	0.0068
Mercury	48635-12-02 11:31 G	19484963.86	19484963.98	19484964.13	0.0137	0.0098
Mercury	48636-02-28 19:26 G	19485052.25	19485052.31	19485052.39	0.0137	0.0127
Venus	48644-12-02 17:31 G	19488252.14	19488252.23	19488252.33	0.0134	0.0120
Venus	48645-07-16 23:02 G	19488478.32	19488478.46	19488478.63	0.0134	0.0094
Venus	48646-02-28 04:48 G	19488704.53	19488704.70	19488704.90	0.0134	0.0069
Venus	48646-10-12 10:48 G	19488930.75	19488930.95	19488931.16	0.0134	0.0042
Venus	48647-05-26 16:34 G	19489156.98	19489157.19	19489157.41	0.0134	0.0016
Venus	48648-01-07 22:05 G	19489383.21	19489383.42	19489383.64	0.0134	0.0010
Venus	48648-08-21 03:36 G	19489609.44	19489609.65	19489609.86	0.0134	0.0035
Venus	48649-04-04 08:53 G	19489835.69	19489835.87	19489836.08	0.0134	0.0061
Venus	48649-11-16 14:38 G	19490061.95	19490062.11	19490062.28	0.0134	0.0086
Venus	48650-06-30 19:41 G	19490288.22	19490288.32	19490288.46	0.0134	0.0112
Moon	48651-08-05 20:53 G	19490689.19	19490689.37	19490689.57	0.0134	0.0082
Earth	48651-08-05 21:07 G	19490689.19	19490689.38	19490689.57	0.0134	0.0087 *
Earth	48652-08-09 02:38 G	19491058.37	19491058.61	19491058.87	0.0134	0.0023
Moon	48652-08-09 03:22 G	19491058.39	19491058.64	19491058.90	0.0134	0.0029 *
Earth	48653-08-13 08:38 G	19491427.63	19491427.86	19491428.11	0.0134	0.0042
Moon	48653-08-13 08:38 G	19491427.64	19491427.86	19491428.09	0.0134	0.0049 *
Earth	48654-08-17 14:24 G	19491796.97	19491797.10	19491797.27	0.0134	0.0107
Moon	48654-08-17 15:22 G	19491796.98	19491797.14	19491797.31	0.0134	0.0102 *
Mars	48669-03-16 11:02 G	19497121.69	19497121.96	19497122.23	0.0137	0.0061
Mercury	48677-09-13 04:34 G	19500224.63	19500224.69	19500224.75	0.0140	0.0125
Mercury	48677-12-10 07:41 G	19500312.74	19500312.82	19500312.91	0.0140	0.0104
Mercury	48678-03-08 11:02 G	19500400.86	19500400.96	19500401.07	0.0140	0.0083
Mercury	48678-06-04 14:10 G	19500488.98	19500489.09	19500489.21	0.0141	0.0063
Mercury	48678-08-31 17:31 G	19500577.11	19500577.23	19500577.36	0.0141	0.0042
Mercury	48678-11-27 20:53 G	19500665.24	19500665.37	19500665.50	0.0141	0.0021
Mercury	48679-02-24 00:14 G	19500753.38	19500753.51	19500753.64	0.0141	0.0002
Mercury	48679-05-23 03:36 G	19500841.52	19500841.65	19500841.77	0.0141	0.0022

Mercury	48679-08-19 06:43 G	19500929.66	19500929.78	19500929.91	0.0141	0.0043
Mercury	48679-11-15 10:05 G	19501017.80	19501017.92	19501018.04	0.0141	0.0064
Mercury	48680-02-11 13:12 G	19501105.96	19501106.05	19501106.16	0.0141	0.0086
Mercury	48680-05-09 16:34 G	19501194.11	19501194.19	19501194.28	0.0141	0.0107
Mercury	48680-08-05 19:55 G	19501282.28	19501282.33	19501282.39	0.0141	0.0128
Venus	48688-04-17 10:19 G	19504093.81	19504093.93	19504094.07	0.0144	0.0114
Venus	48688-11-29 21:50 G	19504320.25	19504320.41	19504320.60	0.0144	0.0083
Venus	48689-07-14 09:36 G	19504546.70	19504546.90	19504547.11	0.0144	0.0050
Venus	48690-02-25 21:22 G	19504773.17	19504773.39	19504773.61	0.0144	0.0018
Venus	48690-10-10 09:07 G	19504999.67	19504999.88	19505000.10	0.0144	0.0015
Venus	48691-05-24 20:53 G	19505226.17	19505226.37	19505226.58	0.0144	0.0048
Venus	48692-01-06 08:24 G	19505452.69	19505452.85	19505453.05	0.0145	0.0081
Venus	48692-08-19 20:24 G	19505679.23	19505679.35	19505679.50	0.0145	0.0113
Venus	48693-04-03 08:53 G	19505905.87	19505905.87	19505905.87	0.0145	0.0145
Earth	48694-02-05 22:34 G	19506214.22	19506214.44	19506214.67	0.0145	0.0069
Moon	48694-02-06 02:24 G	19506214.37	19506214.60	19506214.83	0.0145	0.0061 *
Moon	48695-02-10 22:05 G	19506584.16	19506584.42	19506584.68	0.0145	0.0008
Earth	48695-02-11 01:41 G	19506584.32	19506584.57	19506584.83	0.0145	0.0015 *
Earth	48696-02-16 04:34 G	19506954.51	19506954.69	19506954.88	0.0145	0.0099
Moon	48696-02-16 07:26 G	19506954.65	19506954.81	19506955.00	0.0145	0.0104 *
Mars	48709-07-18 00:58 G	19511854.23	19511854.54	19511854.86	0.0141	0.0012
Mercury	48718-01-16 02:38 G	19514958.58	19514958.61	19514958.67	0.0138	0.0134
Mercury	48718-04-14 10:48 G	19515046.83	19515046.95	19515047.09	0.0138	0.0104
Mercury	48718-07-11 18:58 G	19515135.12	19515135.29	19515135.46	0.0138	0.0074
Mercury	48718-10-08 02:38 G	19515223.44	19515223.61	19515223.81	0.0138	0.0045
Mercury	48719-01-04 10:48 G	19515311.76	19515311.95	19515312.15	0.0137	0.0015
Mercury	48719-04-02 18:43 G	19515400.09	19515400.28	19515400.48	0.0137	0.0016
Mercury	48719-06-30 02:38 G	19515488.43	19515488.61	19515488.80	0.0137	0.0045
Mercury	48719-09-26 10:34 G	19515576.78	19515576.94	19515577.11	0.0137	0.0074
Mercury	48719-12-23 18:14 G	19515665.15	19515665.26	19515665.40	0.0137	0.0104

Mercury	48720-03-21 02:10 G	19515753.56	19515753.59	19515753.65	0.0137	0.0133
Venus	48728-08-03 02:24 G	19518810.57	19518810.60	19518810.67	0.0135	0.0131
Venus	48729-03-17 08:38 G	19519036.73	19519036.86	19519037.01	0.0134	0.0104
Venus	48729-10-29 14:38 G	19519262.94	19519263.11	19519263.29	0.0134	0.0078
Venus	48730-06-12 20:24 G	19519489.16	19519489.35	19519489.56	0.0134	0.0053
Venus	48731-01-25 02:10 G	19519715.38	19519715.59	19519715.81	0.0134	0.0027
Venus	48731-09-08 07:41 G	19519941.61	19519941.82	19519942.04	0.0134	0.0003
Venus	48732-04-21 13:26 G	19520167.85	19520168.06	19520168.28	0.0134	0.0025
Venus	48732-12-03 18:58 G	19520394.09	19520394.29	19520394.50	0.0134	0.0051
Venus	48733-07-18 00:14 G	19520620.35	19520620.51	19520620.70	0.0134	0.0077
Venus	48734-03-01 05:46 G	19520846.61	19520846.74	19520846.89	0.0134	0.0102
Venus	48734-10-13 11:31 G	19521072.92	19521072.98	19521073.04	0.0134	0.0127
Earth	48735-08-07 07:12 G	19521370.62	19521370.80	19521371.02	0.0134	0.0084
Moon	48735-08-07 07:41 G	19521370.65	19521370.82	19521371.01	0.0134	0.0090 *
Moon	48736-08-10 12:58 G	19521739.78	19521740.04	19521740.30	0.0134	0.0013
Earth	48736-08-10 13:26 G	19521739.82	19521740.06	19521740.32	0.0134	0.0020 *
Earth	48737-08-14 19:26 G	19522109.08	19522109.31	19522109.55	0.0134	0.0046
Moon	48737-08-14 19:26 G	19522109.09	19522109.31	19522109.55	0.0134	0.0040 *
Moon	48738-08-19 00:58 G	19522478.42	19522478.54	19522478.68	0.0134	0.0115
Earth	48738-08-19 01:12 G	19522478.42	19522478.55	19522478.71	0.0134	0.0110 *
Mars	48753-11-10 06:00 G	19528040.58	19528040.75	19528040.97	0.0137	0.0103
Mercury	48761-07-08 08:24 G	19530837.85	19530837.85	19530837.86	0.0140	0.0140
Mercury	48761-10-04 11:46 G	19530925.93	19530925.99	19530926.06	0.0140	0.0119
Mercury	48761-12-31 15:07 G	19531014.04	19531014.13	19531014.22	0.0140	0.0099
Mercury	48762-03-29 18:14 G	19531102.16	19531102.26	19531102.37	0.0140	0.0078
Mercury	48762-06-25 21:36 G	19531190.28	19531190.40	19531190.52	0.0141	0.0057
Mercury	48762-09-22 00:43 G	19531278.41	19531278.53	19531278.66	0.0141	0.0037
Mercury	48762-12-19 04:05 G	19531366.55	19531366.67	19531366.80	0.0141	0.0016
Mercury	48763-03-17 07:26 G	19531454.68	19531454.81	19531454.94	0.0141	0.0006
Mercury	48763-06-13 10:48 G	19531542.82	19531542.95	19531543.08	0.0141	0.0027

Mercury	48763-09-09 14:10 G	19531630.97	19531631.09	19531631.21	0.0141	0.0048
Mercury	48763-12-06 17:17 G	19531719.11	19531719.22	19531719.34	0.0141	0.0070
Mercury	48764-03-03 20:38 G	19531807.26	19531807.36	19531807.46	0.0141	0.0091
Mercury	48764-05-30 23:46 G	19531895.42	19531895.49	19531895.58	0.0141	0.0112
Mercury	48764-08-27 03:07 G	19531983.60	19531983.63	19531983.68	0.0141	0.0134
Venus	48771-12-17 16:48 G	19534652.11	19534652.20	19534652.31	0.0144	0.0127
Venus	48772-07-31 03:50 G	19534878.52	19534878.66	19534878.84	0.0144	0.0096
Venus	48773-03-14 15:50 G	19535104.96	19535105.16	19535105.36	0.0144	0.0064
Venus	48773-10-27 03:36 G	19535331.44	19535331.65	19535331.86	0.0144	0.0031
Venus	48774-06-10 15:22 G	19535557.92	19535558.14	19535558.35	0.0144	0.0003
Venus	48775-01-23 02:53 G	19535784.41	19535784.62	19535784.84	0.0144	0.0034
Venus	48775-09-06 14:38 G	19536010.92	19536011.11	19536011.31	0.0144	0.0067
Venus	48776-04-20 02:38 G	19536237.45	19536237.61	19536237.77	0.0144	0.0099
Venus	48776-12-02 14:24 G	19536464.03	19536464.10	19536464.21	0.0145	0.0132
Earth	48778-02-07 07:41 G	19536895.61	19536895.82	19536896.06	0.0145	0.0066
Moon	48778-02-07 11:17 G	19536895.75	19536895.97	19536896.20	0.0145	0.0072 *
Moon	48779-02-12 07:26 G	19537265.56	19537265.81	19537266.06	0.0145	0.0026
Earth	48779-02-12 11:02 G	19537265.71	19537265.96	19537266.22	0.0145	0.0018 *
Earth	48780-02-17 13:12 G	19537635.89	19537636.05	19537636.25	0.0145	0.0103
Moon	48780-02-17 17:17 G	19537636.04	19537636.22	19537636.42	0.0145	0.0096 *
Mercury	48802-02-05 09:22 G	19545659.84	19545659.89	19545659.98	0.0138	0.0128
Mercury	48802-05-04 17:31 G	19545748.10	19545748.23	19545748.38	0.0138	0.0098
Mercury	48802-08-01 01:41 G	19545836.40	19545836.57	19545836.74	0.0138	0.0068
Mercury	48802-10-28 09:36 G	19545924.71	19545924.90	19545925.09	0.0138	0.0038
Mercury	48803-01-24 17:46 G	19546013.04	19546013.24	19546013.43	0.0137	0.0009
Mercury	48803-04-23 01:41 G	19546101.37	19546101.57	19546101.76	0.0137	0.0022
Mercury	48803-07-20 09:22 G	19546189.72	19546189.89	19546190.08	0.0137	0.0052
Mercury	48803-10-16 17:17 G	19546278.07	19546278.22	19546278.39	0.0137	0.0081
Mercury	48804-01-13 01:12 G	19546366.44	19546366.55	19546366.68	0.0137	0.0110
Venus	48812-11-14 17:46 G	19549595.15	19549595.24	19549595.37	0.0134	0.0115

Venus	48813-06-28 23:46 G	19549821.34	19549821.49	19549821.66	0.0134	0.0089
Venus	48814-02-10 05:31 G	19550047.55	19550047.73	19550047.93	0.0134	0.0063
Venus	48814-09-24 11:31 G	19550273.77	19550273.98	19550274.19	0.0134	0.0037
Venus	48815-05-08 17:17 G	19550500.01	19550500.22	19550500.44	0.0134	0.0011
Venus	48815-12-20 23:02 G	19550726.24	19550726.46	19550726.67	0.0134	0.0015
Venus	48816-08-03 04:19 G	19550952.48	19550952.68	19550952.90	0.0134	0.0041
Venus	48817-03-17 09:50 G	19551178.73	19551178.91	19551179.11	0.0134	0.0067
Venus	48817-10-29 15:22 G	19551405.00	19551405.14	19551405.31	0.0134	0.0092
Venus	48818-06-12 20:53 G	19551631.29	19551631.37	19551631.49	0.0134	0.0118
Earth	48819-08-07 17:46 G	19552052.04	19552052.24	19552052.45	0.0134	0.0080
Moon	48819-08-07 18:58 G	19552052.10	19552052.29	19552052.50	0.0134	0.0076 *
Moon	48820-08-10 23:02 G	19552421.20	19552421.46	19552421.72	0.0134	0.0022
Earth	48820-08-10 23:46 G	19552421.24	19552421.49	19552421.75	0.0134	0.0016 *
Earth	48821-08-15 05:46 G	19552790.51	19552790.74	19552790.98	0.0134	0.0049
Moon	48821-08-15 06:58 G	19552790.57	19552790.79	19552791.02	0.0134	0.0056 *
Moon	48822-08-19 10:34 G	19553159.80	19553159.94	19553160.11	0.0134	0.0108
Earth	48822-08-19 11:46 G	19553159.86	19553159.99	19553160.12	0.0134	0.0113 *
Mercury	48845-07-28 15:36 G	19561539.13	19561539.15	19561539.19	0.0140	0.0135
Mercury	48845-10-24 18:58 G	19561627.22	19561627.29	19561627.37	0.0140	0.0114
Mercury	48846-01-20 22:19 G	19561715.33	19561715.43	19561715.53	0.0140	0.0093
Mercury	48846-04-19 01:26 G	19561803.46	19561803.56	19561803.68	0.0140	0.0073
Mercury	48846-07-16 04:48 G	19561891.58	19561891.70	19561891.82	0.0141	0.0052
Mercury	48846-10-12 08:10 G	19561979.71	19561979.84	19561979.97	0.0141	0.0031
Mercury	48847-01-08 11:31 G	19562067.85	19562067.98	19562068.11	0.0141	0.0010
Mercury	48847-04-06 14:53 G	19562155.99	19562156.12	19562156.25	0.0141	0.0012
Mercury	48847-07-03 18:00 G	19562244.13	19562244.25	19562244.38	0.0141	0.0033
Mercury	48847-09-29 21:22 G	19562332.27	19562332.39	19562332.51	0.0141	0.0054
Mercury	48847-12-27 00:43 G	19562420.42	19562420.53	19562420.64	0.0141	0.0075
Mercury	48848-03-24 03:50 G	19562508.57	19562508.66	19562508.76	0.0141	0.0097
Mercury	48848-06-20 07:12 G	19562596.74	19562596.80	19562596.88	0.0141	0.0118

Mercury	48848-09-16 10:19 G	19562684.93	19562684.93	19562684.97	0.0141	0.0140
Venus	48855-08-17 00:00 G	19565210.46	19565210.50	19565210.55	0.0144	0.0140
Venus	48856-03-30 11:02 G	19565436.83	19565436.96	19565437.12	0.0144	0.0109
Venus	48856-11-11 22:48 G	19565663.28	19565663.45	19565663.65	0.0144	0.0077
Venus	48857-06-26 10:19 G	19565889.74	19565889.93	19565890.15	0.0144	0.0046
Venus	48858-02-07 22:19 G	19566116.21	19566116.43	19566116.65	0.0144	0.0012
Venus	48858-09-22 10:05 G	19566342.70	19566342.92	19566343.14	0.0144	0.0021
Venus	48859-05-06 21:50 G	19566569.21	19566569.41	19566569.62	0.0144	0.0053
Venus	48859-12-19 09:36 G	19566795.74	19566795.90	19566796.09	0.0144	0.0087
Venus	48860-08-01 21:36 G	19567022.29	19567022.40	19567022.54	0.0145	0.0119
Earth	48861-02-02 16:19 G	19567207.17	19567207.18	19567207.23	0.0145	0.0144
Earth	48862-02-07 19:41 G	19567577.09	19567577.32	19567577.55	0.0145	0.0060
Moon	48862-02-07 23:02 G	19567577.22	19567577.46	19567577.71	0.0145	0.0053 *
Moon	48863-02-12 19:26 G	19567947.06	19567947.31	19567947.56	0.0145	0.0016
Earth	48863-02-12 22:48 G	19567947.20	19567947.45	19567947.70	0.0145	0.0024 *
Earth	48864-02-18 00:58 G	19568317.39	19568317.54	19568317.74	0.0145	0.0108
Moon	48864-02-18 04:48 G	19568317.56	19568317.70	19568317.87	0.0145	0.0113 *
Mars	48876-12-03 10:05 G	19572989.78	19572989.92	19572990.09	0.0141	0.0123
Mercury	48886-02-25 17:02 G	19576361.12	19576361.21	19576361.32	0.0138	0.0119
Mercury	48886-05-25 01:12 G	19576449.40	19576449.55	19576449.70	0.0138	0.0089
Mercury	48886-08-21 08:53 G	19576537.71	19576537.87	19576538.06	0.0138	0.0060
Mercury	48886-11-17 17:02 G	19576626.02	19576626.21	19576626.41	0.0137	0.0030
Mercury	48887-02-14 01:12 G	19576714.35	19576714.55	19576714.75	0.0137	0.0001
Mercury	48887-05-13 09:07 G	19576802.69	19576802.88	19576803.07	0.0137	0.0030
Mercury	48887-08-09 16:48 G	19576891.03	19576891.20	19576891.39	0.0137	0.0060
Mercury	48887-11-06 00:58 G	19576979.39	19576979.54	19576979.69	0.0137	0.0089
Mercury	48888-02-02 08:38 G	19577067.78	19577067.86	19577067.97	0.0137	0.0119
Venus	48896-07-15 03:36 G	19580153.59	19580153.65	19580153.75	0.0135	0.0126
Venus	48897-02-26 09:36 G	19580379.77	19580379.90	19580380.06	0.0134	0.0100
Venus	48897-10-10 15:36 G	19580605.98	19580606.15	19580606.34	0.0134	0.0074

Venus	48898-05-24 21:36 G	19580832.20	19580832.40	19580832.61	0.0134	0.0047
Venus	48899-01-06 03:22 G	19581058.43	19581058.64	19581058.86	0.0134	0.0022
Venus	48899-08-20 09:07 G	19581284.66	19581284.88	19581285.10	0.0134	0.0005
Venus	48900-04-03 14:38 G	19581510.91	19581511.11	19581511.33	0.0134	0.0031
Venus	48900-11-15 20:10 G	19581737.16	19581737.34	19581737.55	0.0134	0.0057
Venus	48901-06-30 01:41 G	19581963.42	19581963.57	19581963.76	0.0134	0.0083
Venus	48902-02-11 07:26 G	19582189.69	19582189.81	19582189.95	0.0134	0.0108
Venus	48902-09-25 13:12 G	19582416.03	19582416.05	19582416.06	0.0134	0.0133
Earth	48903-08-09 05:17 G	19582733.51	19582733.72	19582733.93	0.0134	0.0075
Moon	48903-08-09 06:29 G	19582733.59	19582733.77	19582733.98	0.0134	0.0081 *
Moon	48904-08-12 09:07 G	19583102.62	19583102.88	19583103.14	0.0134	0.0005
Earth	48904-08-12 11:17 G	19583102.72	19583102.97	19583103.22	0.0134	0.0011 *
Earth	48905-08-16 17:02 G	19583471.99	19583472.21	19583472.45	0.0134	0.0054
Moon	48905-08-16 18:29 G	19583472.05	19583472.27	19583472.50	0.0134	0.0047 *
Moon	48906-08-20 20:53 G	19583841.29	19583841.37	19583841.48	0.0134	0.0124
Earth	48906-08-20 22:34 G	19583841.34	19583841.44	19583841.58	0.0134	0.0118 *
Mars	48921-03-30 15:22 G	19589176.84	19589177.14	19589177.44	0.0137	0.0008
Mercury	48929-08-18 23:17 G	19592240.42	19592240.47	19592240.52	0.0140	0.0128
Mercury	48929-11-15 02:38 G	19592328.53	19592328.61	19592328.69	0.0140	0.0108
Mercury	48930-02-11 06:00 G	19592416.64	19592416.75	19592416.85	0.0140	0.0087
Mercury	48930-05-10 09:07 G	19592504.77	19592504.88	19592505.00	0.0141	0.0066
Mercury	48930-08-06 12:29 G	19592592.90	19592593.02	19592593.14	0.0141	0.0045
Mercury	48930-11-02 15:36 G	19592681.03	19592681.15	19592681.28	0.0141	0.0025
Mercury	48931-01-29 18:58 G	19592769.16	19592769.29	19592769.42	0.0141	0.0005
Mercury	48931-04-27 22:19 G	19592857.30	19592857.43	19592857.56	0.0141	0.0018
Mercury	48931-07-25 01:41 G	19592945.44	19592945.57	19592945.69	0.0141	0.0039
Mercury	48931-10-21 04:48 G	19593033.59	19593033.70	19593033.82	0.0141	0.0061
Mercury	48932-01-17 08:10 G	19593121.74	19593121.84	19593121.95	0.0141	0.0082
Mercury	48932-04-14 11:31 G	19593209.90	19593209.98	19593210.07	0.0141	0.0103
Mercury	48932-07-11 14:53 G	19593298.06	19593298.12	19593298.18	0.0141	0.0125

Venus	48939-11-29 19:26 G	19595995.20	19595995.31	19595995.43	0.0144	0.0121
Venus	48940-07-13 06:58 G	19596221.62	19596221.79	19596221.96	0.0144	0.0089
Venus	48941-02-24 18:29 G	19596448.08	19596448.27	19596448.48	0.0144	0.0057
Venus	48941-10-09 06:29 G	19596674.55	19596674.77	19596674.98	0.0144	0.0025
Venus	48942-05-23 18:14 G	19596901.04	19596901.26	19596901.48	0.0144	0.0008
Venus	48943-01-05 05:46 G	19597127.54	19597127.74	19597127.96	0.0144	0.0042
Venus	48943-08-19 17:46 G	19597354.06	19597354.24	19597354.43	0.0144	0.0074
Venus	48944-04-02 05:31 G	19597580.60	19597580.73	19597580.89	0.0144	0.0107
Venus	48944-11-14 18:00 G	19597807.20	19597807.25	19597807.31	0.0145	0.0139
Moon	48945-02-04 02:53 G	19597888.55	19597888.62	19597888.72	0.0145	0.0135
Earth	48945-02-04 05:17 G	19597888.66	19597888.72	19597888.82	0.0145	0.0137 *
Earth	48946-02-09 08:24 G	19598258.63	19598258.85	19598259.10	0.0145	0.0054
Moon	48946-02-09 11:17 G	19598258.74	19598258.97	19598259.22	0.0145	0.0059 *
Moon	48947-02-14 08:24 G	19598628.61	19598628.85	19598629.10	0.0145	0.0038
Earth	48947-02-14 11:31 G	19598628.74	19598628.98	19598629.24	0.0145	0.0031 *
Earth	48948-02-19 14:10 G	19598998.95	19598999.09	19598999.26	0.0145	0.0114
Moon	48948-02-19 17:46 G	19598999.08	19598999.24	19598999.43	0.0145	0.0107 *
Mars	48961-07-31 04:48 G	19603909.44	19603909.70	19603909.97	0.0141	0.0075
Mercury	48970-03-19 00:58 G	19607062.43	19607062.54	19607062.67	0.0138	0.0109
Mercury	48970-06-15 09:07 G	19607150.72	19607150.88	19607151.05	0.0138	0.0079
Mercury	48970-09-11 17:02 G	19607239.03	19607239.21	19607239.40	0.0138	0.0049
Mercury	48970-12-09 01:12 G	19607327.35	19607327.55	19607327.74	0.0137	0.0019
Mercury	48971-03-07 09:07 G	19607415.68	19607415.88	19607416.08	0.0137	0.0011
Mercury	48971-06-03 17:02 G	19607504.02	19607504.21	19607504.40	0.0137	0.0041
Mercury	48971-08-31 00:58 G	19607592.37	19607592.54	19607592.71	0.0137	0.0070
Mercury	48971-11-27 08:38 G	19607680.74	19607680.86	19607681.01	0.0137	0.0100
Mercury	48972-02-23 16:34 G	19607769.14	19607769.19	19607769.27	0.0137	0.0129
Venus	48980-10-27 20:10 G	19610938.23	19610938.34	19610938.48	0.0134	0.0110
Venus	48981-06-11 02:10 G	19611164.43	19611164.59	19611164.77	0.0134	0.0084
Venus	48982-01-23 08:10 G	19611390.65	19611390.84	19611391.04	0.0134	0.0057

Venus	48982-09-06 13:55 G	19611616.87	19611617.08	19611617.30	0.0134	0.0031
Venus	48983-04-20 19:55 G	19611843.11	19611843.33	19611843.54	0.0134	0.0005
Venus	48983-12-03 01:26 G	19612069.35	19612069.56	19612069.78	0.0134	0.0021
Venus	48984-07-16 06:58 G	19612295.59	19612295.79	19612296.00	0.0134	0.0047
Venus	48985-02-27 12:29 G	19612521.85	19612522.02	19612522.21	0.0134	0.0073
Venus	48985-10-11 17:46 G	19612748.11	19612748.24	19612748.41	0.0134	0.0099
Venus	48986-05-25 23:31 G	19612974.42	19612974.48	19612974.58	0.0134	0.0124
Earth	48987-08-09 16:34 G	19613414.99	19613415.19	19613415.42	0.0134	0.0071
Moon	48987-08-09 18:58 G	19613415.10	19613415.29	19613415.52	0.0134	0.0068 *
Moon	48988-08-12 20:38 G	19613784.10	19613784.36	19613784.62	0.0134	0.0012
Earth	48988-08-12 22:48 G	19613784.20	19613784.45	19613784.70	0.0134	0.0006 *
Earth	48989-08-17 04:19 G	19614153.46	19614153.68	19614153.91	0.0134	0.0058
Moon	48989-08-17 06:58 G	19614153.57	19614153.79	19614154.00	0.0134	0.0065 *
Moon	48990-08-21 07:26 G	19614522.71	19614522.81	19614522.96	0.0134	0.0116
Earth	48990-08-21 09:50 G	19614522.82	19614522.91	19614523.03	0.0134	0.0122 *

50TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 50th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	49013-09-09 06:29 G	19622941.72	19622941.77	19622941.84	0.0140	0.0123		
Mercury	49013-12-06 09:50 G	19623029.82	19623029.91	19623030.00	0.0140	0.0103		
Mercury	49014-03-04 13:12 G	19623117.94	19623118.05	19623118.15	0.0140	0.0082		
Mercury	49014-05-31 16:34 G	19623206.07	19623206.19	19623206.30	0.0141	0.0061		

Mercury	49014-08-27 19:41 G	19623294.20	19623294.32	19623294.45	0.0141	0.0040
Mercury	49014-11-23 23:02 G	19623382.33	19623382.46	19623382.59	0.0141	0.0019
Mercury	49015-02-20 02:24 G	19623470.47	19623470.60	19623470.73	0.0141	0.0004
Mercury	49015-05-19 05:31 G	19623558.61	19623558.73	19623558.86	0.0141	0.0024
Mercury	49015-08-15 08:53 G	19623646.75	19623646.87	19623647.00	0.0141	0.0045
Mercury	49015-11-11 12:00 G	19623734.90	19623735.00	19623735.12	0.0141	0.0067
Mercury	49016-02-07 15:22 G	19623823.05	19623823.14	19623823.25	0.0141	0.0087
Mercury	49016-05-05 18:43 G	19623911.20	19623911.28	19623911.37	0.0141	0.0109
Mercury	49016-08-01 22:05 G	19623999.38	19623999.42	19623999.47	0.0141	0.0130
Venus	49023-07-31 02:10 G	19626553.53	19626553.59	19626553.68	0.0144	0.0134
Venus	49024-03-13 13:55 G	19626779.93	19626780.08	19626780.24	0.0144	0.0102
Venus	49024-10-26 01:41 G	19627006.39	19627006.57	19627006.77	0.0144	0.0070
Venus	49025-06-09 13:26 G	19627232.85	19627233.06	19627233.28	0.0144	0.0038
Venus	49026-01-22 01:26 G	19627459.34	19627459.56	19627459.77	0.0144	0.0006
Venus	49026-09-05 12:58 G	19627685.84	19627686.04	19627686.26	0.0144	0.0029
Venus	49027-04-20 01:12 G	19627912.35	19627912.55	19627912.75	0.0144	0.0061
Venus	49027-12-02 13:12 G	19628138.89	19628139.05	19628139.22	0.0145	0.0094
Venus	49028-07-16 00:58 G	19628365.46	19628365.54	19628365.66	0.0145	0.0127
Moon	49029-02-05 15:50 G	19628570.07	19628570.16	19628570.27	0.0145	0.0132
Earth	49029-02-05 16:48 G	19628570.12	19628570.20	19628570.33	0.0145	0.0132 *
Earth	49030-02-10 20:24 G	19628940.12	19628940.35	19628940.60	0.0145	0.0048
Moon	49030-02-10 23:17 G	19628940.22	19628940.47	19628940.73	0.0145	0.0042 *
Moon	49031-02-15 20:53 G	19629310.13	19629310.37	19629310.62	0.0145	0.0029
Earth	49031-02-15 23:46 G	19629310.24	19629310.49	19629310.74	0.0145	0.0036 *
Earth	49032-02-21 02:10 G	19629680.47	19629680.59	19629680.75	0.0145	0.0120
Moon	49032-02-21 05:31 G	19629680.63	19629680.73	19629680.88	0.0145	0.0126 *
Mercury	49054-01-11 01:26 G	19637675.50	19637675.56	19637675.65	0.0138	0.0127
Mercury	49054-04-09 09:36 G	19637763.77	19637763.90	19637764.05	0.0138	0.0097
Mercury	49054-07-06 17:31 G	19637852.07	19637852.23	19637852.41	0.0138	0.0067
Mercury	49054-10-03 01:41 G	19637940.38	19637940.57	19637940.76	0.0137	0.0037

Mercury	49054-12-30 09:36 G	19638028.71	19638028.90	19638029.10	0.0137	0.0008
Mercury	49055-03-28 17:31 G	19638117.04	19638117.23	19638117.43	0.0137	0.0023
Mercury	49055-06-25 01:26 G	19638205.39	19638205.56	19638205.75	0.0137	0.0053
Mercury	49055-09-21 09:22 G	19638293.74	19638293.89	19638294.06	0.0137	0.0082
Mercury	49055-12-18 17:17 G	19638382.12	19638382.22	19638382.34	0.0137	0.0111
Venus	49064-06-28 07:55 G	19641496.73	19641496.83	19641496.93	0.0134	0.0118
Venus	49065-02-09 13:26 G	19641722.92	19641723.06	19641723.23	0.0134	0.0092
Venus	49065-09-23 19:26 G	19641949.13	19641949.31	19641949.51	0.0134	0.0066
Venus	49066-05-08 01:26 G	19642175.36	19642175.56	19642175.77	0.0134	0.0040
Venus	49066-12-20 07:12 G	19642401.59	19642401.80	19642402.02	0.0134	0.0014
Venus	49067-08-03 12:58 G	19642627.82	19642628.04	19642628.26	0.0134	0.0012
Venus	49068-03-16 18:29 G	19642854.06	19642854.27	19642854.48	0.0134	0.0038
Venus	49068-10-29 00:00 G	19643080.32	19643080.50	19643080.70	0.0134	0.0064
Venus	49069-06-12 05:31 G	19643306.58	19643306.73	19643306.90	0.0134	0.0090
Venus	49070-01-24 11:17 G	19643532.86	19643532.97	19643533.08	0.0134	0.0115
Moon	49070-08-06 20:38 G	19643727.31	19643727.36	19643727.44	0.0134	0.0129
Earth	49070-08-06 23:31 G	19643727.43	19643727.48	19643727.56	0.0134	0.0129 *
Earth	49071-08-11 05:31 G	19644096.51	19644096.73	19644096.95	0.0133	0.0065
Moon	49071-08-11 07:55 G	19644096.63	19644096.83	19644097.05	0.0133	0.0070 *
Moon	49072-08-14 08:10 G	19644465.58	19644465.84	19644466.10	0.0133	0.0004
Earth	49072-08-14 11:17 G	19644465.72	19644465.97	19644466.22	0.0133	0.0001 *
Earth	49073-08-18 16:48 G	19644834.98	19644835.20	19644835.42	0.0133	0.0063
Moon	49073-08-18 18:58 G	19644835.08	19644835.29	19644835.52	0.0133	0.0057 *
Moon	49074-08-22 19:12 G	19645204.30	19645204.30	19645204.32	0.0134	0.0133
Earth	49074-08-22 21:50 G	19645204.35	19645204.41	19645204.51	0.0134	0.0127
Mars	49088-08-17 21:22 G	19650313.26	19650313.39	19650313.55	0.0137	0.0120
Mercury	49097-07-03 10:19 G	19653554.93	19653554.93	19653554.96	0.0140	0.0139
Mercury	49097-09-29 13:41 G	19653643.01	19653643.07	19653643.15	0.0140	0.0119
Mercury	49097-12-26 17:02 G	19653731.13	19653731.21	19653731.31	0.0140	0.0098
Mercury	49098-03-24 20:24 G	19653819.25	19653819.35	19653819.46	0.0141	0.0076

Mercury	49098-06-20 23:46 G	19653907.37	19653907.49	19653907.61	0.0141	0.0055
Mercury	49098-09-17 03:07 G	19653995.50	19653995.63	19653995.75	0.0141	0.0035
Mercury	49098-12-14 06:29 G	19654083.64	19654083.77	19654083.90	0.0141	0.0014
Mercury	49099-03-12 09:36 G	19654171.77	19654171.90	19654172.03	0.0141	0.0008
Mercury	49099-06-08 12:58 G	19654259.91	19654260.04	19654260.17	0.0141	0.0029
Mercury	49099-09-04 16:05 G	19654348.06	19654348.17	19654348.30	0.0141	0.0050
Mercury	49099-12-01 19:26 G	19654436.20	19654436.31	19654436.43	0.0141	0.0071
Mercury	49100-02-27 22:48 G	19654524.35	19654524.45	19654524.55	0.0141	0.0092
Mercury	49100-05-27 02:10 G	19654612.51	19654612.59	19654612.67	0.0141	0.0114
Mercury	49100-08-23 05:17 G	19654700.69	19654700.72	19654700.76	0.0142	0.0135
Venus	49107-11-12 20:38 G	19657338.24	19657338.36	19657338.50	0.0144	0.0115
Venus	49108-06-26 08:24 G	19657564.68	19657564.85	19657565.03	0.0144	0.0083
Venus	49109-02-07 19:55 G	19657791.14	19657791.33	19657791.55	0.0144	0.0051
Venus	49109-09-22 07:55 G	19658017.62	19658017.83	19658018.05	0.0144	0.0018
Venus	49110-05-06 19:55 G	19658244.11	19658244.33	19658244.55	0.0144	0.0015
Venus	49110-12-19 07:55 G	19658470.63	19658470.83	19658471.04	0.0144	0.0048
Venus	49111-08-02 19:41 G	19658697.15	19658697.32	19658697.51	0.0145	0.0081
Venus	49112-03-16 07:41 G	19658923.70	19658923.82	19658923.97	0.0145	0.0114
Moon	49113-02-07 02:24 G	19659251.50	19659251.60	19659251.74	0.0145	0.0127
Earth	49113-02-07 03:50 G	19659251.55	19659251.66	19659251.80	0.0145	0.0127 *
Earth	49114-02-12 06:58 G	19659621.56	19659621.79	19659622.05	0.0145	0.0044
Moon	49114-02-12 08:38 G	19659621.62	19659621.86	19659622.12	0.0145	0.0048 *
Moon	49115-02-17 07:41 G	19659991.59	19659991.82	19659992.07	0.0145	0.0048
Earth	49115-02-17 10:34 G	19659991.69	19659991.94	19659992.18	0.0145	0.0040 *
Earth	49116-02-22 12:58 G	19660361.92	19660362.04	19660362.18	0.0145	0.0124
Moon	49116-02-22 16:05 G	19660362.02	19660362.17	19660362.33	0.0145	0.0116 *
Mars	49128-12-19 02:10 G	19665045.30	19665045.59	19665045.90	0.0142	0.0044
Mercury	49138-02-01 09:36 G	19668376.81	19668376.90	19668377.03	0.0138	0.0116
Mercury	49138-04-30 17:46 G	19668465.10	19668465.24	19668465.41	0.0138	0.0086
Mercury	49138-07-28 01:55 G	19668553.41	19668553.58	19668553.77	0.0138	0.0056

Mercury	49138-10-24 10:05 G	19668641.72	19668641.92	19668642.11	0.0137	0.0026
Mercury	49139-01-20 18:00 G	19668730.05	19668730.25	19668730.45	0.0137	0.0004
Mercury	49139-04-19 01:55 G	19668818.39	19668818.58	19668818.77	0.0137	0.0034
Mercury	49139-07-16 09:50 G	19668906.74	19668906.91	19668907.09	0.0137	0.0063
Mercury	49139-10-12 17:31 G	19668995.10	19668995.23	19668995.39	0.0137	0.0093
Mercury	49140-01-09 01:41 G	19669083.49	19669083.57	19669083.66	0.0137	0.0122
Venus	49148-02-27 19:12 G	19672055.23	19672055.30	19672055.37	0.0134	0.0127
Venus	49148-10-11 01:12 G	19672281.41	19672281.55	19672281.69	0.0134	0.0101
Venus	49149-05-25 06:43 G	19672507.62	19672507.78	19672507.98	0.0134	0.0076
Venus	49150-01-06 12:43 G	19672733.84	19672734.03	19672734.24	0.0134	0.0049
Venus	49150-08-20 18:29 G	19672960.06	19672960.27	19672960.49	0.0134	0.0023
Venus	49151-04-04 00:29 G	19673186.30	19673186.52	19673186.73	0.0134	0.0004
Venus	49151-11-16 06:00 G	19673412.54	19673412.75	19673412.97	0.0134	0.0030
Venus	49152-06-29 11:31 G	19673638.79	19673638.98	19673639.19	0.0134	0.0056
Venus	49153-02-10 16:48 G	19673865.05	19673865.20	19673865.39	0.0134	0.0082
Venus	49153-09-24 22:19 G	19674091.32	19674091.43	19674091.57	0.0134	0.0107
Venus	49154-05-09 04:05 G	19674317.65	19674317.67	19674317.71	0.0133	0.0132
Moon	49154-08-08 08:53 G	19674408.79	19674408.87	19674408.98	0.0133	0.0124
Earth	49154-08-08 12:14 G	19674408.93	19674409.01	19674409.12	0.0133	0.0124 *
Earth	49155-08-12 18:00 G	19674778.03	19674778.25	19674778.48	0.0133	0.0060
Moon	49155-08-12 21:22 G	19674778.17	19674778.39	19674778.62	0.0133	0.0058 *
Moon	49156-08-15 20:38 G	19675147.11	19675147.36	19675147.62	0.0133	0.0002
Earth	49156-08-15 23:46 G	19675147.24	19675147.49	19675147.74	0.0133	0.0004 *
Earth	49157-08-20 04:34 G	19675516.49	19675516.69	19675516.92	0.0133	0.0068
Moon	49157-08-20 07:55 G	19675516.64	19675516.83	19675517.05	0.0133	0.0075 *
Moon	49158-08-24 06:58 G	19675885.72	19675885.79	19675885.90	0.0133	0.0124
Earth	49158-08-24 09:50 G	19675885.89	19675885.91	19675885.98	0.0133	0.0132 *
Jupiter	49165-07-17 20:38 G	19678404.95	19678405.36	19678405.83	0.0134	0.0066
Mars	49173-04-13 16:19 G	19681231.90	19681232.18	19681232.48	0.0137	0.0044
Mercury	49181-07-24 17:31 G	19684256.20	19684256.23	19684256.27	0.0140	0.0135

Mercury	49181-10-20 20:53 G	19684344.30	19684344.37	19684344.45	0.0140	0.0114
Mercury	49182-01-17 00:14 G	19684432.41	19684432.51	19684432.61	0.0140	0.0093
Mercury	49182-04-15 03:22 G	19684520.54	19684520.64	19684520.76	0.0140	0.0073
Mercury	49182-07-12 06:43 G	19684608.66	19684608.78	19684608.90	0.0141	0.0052
Mercury	49182-10-08 10:05 G	19684696.79	19684696.92	19684697.05	0.0141	0.0031
Mercury	49183-01-04 13:26 G	19684784.93	19684785.06	19684785.19	0.0141	0.0011
Mercury	49183-04-02 16:34 G	19684873.06	19684873.19	19684873.32	0.0141	0.0012
Mercury	49183-06-29 19:55 G	19684961.20	19684961.33	19684961.46	0.0141	0.0032
Mercury	49183-09-25 23:17 G	19685049.35	19685049.47	19685049.59	0.0141	0.0054
Mercury	49183-12-23 02:24 G	19685137.49	19685137.60	19685137.71	0.0141	0.0075
Mercury	49184-03-20 05:31 G	19685225.65	19685225.73	19685225.84	0.0141	0.0097
Mercury	49184-06-16 08:53 G	19685313.81	19685313.87	19685313.95	0.0141	0.0118
Mercury	49184-09-12 12:14 G	19685402.00	19685402.01	19685402.04	0.0142	0.0139
Venus	49191-07-13 01:41 G	19687896.49	19687896.57	19687896.68	0.0144	0.0129
Venus	49192-02-24 13:26 G	19688122.91	19688123.06	19688123.23	0.0144	0.0097
Venus	49192-10-08 00:58 G	19688349.36	19688349.54	19688349.75	0.0144	0.0066
Venus	49193-05-22 12:58 G	19688575.83	19688576.04	19688576.26	0.0144	0.0032
Venus	49194-01-04 00:58 G	19688802.32	19688802.54	19688802.76	0.0144	0.0001
Venus	49194-08-18 12:43 G	19689028.82	19689029.03	19689029.25	0.0144	0.0034
Venus	49195-04-02 00:43 G	19689255.34	19689255.53	19689255.73	0.0145	0.0067
Venus	49195-11-14 12:43 G	19689481.89	19689482.03	19689482.20	0.0145	0.0100
Venus	49196-06-28 00:58 G	19689708.46	19689708.54	19689708.64	0.0145	0.0132
Moon	49197-02-07 11:31 G	19689932.87	19689932.98	19689933.13	0.0145	0.0124
Earth	49197-02-07 11:31 G	19689932.87	19689932.98	19689933.13	0.0145	0.0125 *
Earth	49198-02-12 14:53 G	19690302.89	19690303.12	19690303.38	0.0145	0.0042
Moon	49198-02-12 16:34 G	19690302.94	19690303.19	19690303.45	0.0145	0.0037 *
Moon	49199-02-17 16:34 G	19690672.96	19690673.19	19690673.44	0.0145	0.0036
Earth	49199-02-17 18:00 G	19690673.02	19690673.25	19690673.51	0.0145	0.0043 *
Earth	49200-02-22 20:53 G	19691043.26	19691043.37	19691043.51	0.0145	0.0126
Moon	49200-02-22 23:17 G	19691043.39	19691043.47	19691043.60	0.0145	0.0133 *

Mercury	49221-11-25 09:36 G	19698989.88	19698989.90	19698989.94	0.0138	0.0136
Mercury	49222-02-21 17:46 G	19699078.12	19699078.24	19699078.37	0.0138	0.0106
Mercury	49222-05-21 01:41 G	19699166.41	19699166.57	19699166.74	0.0138	0.0076
Mercury	49222-08-17 09:50 G	19699254.72	19699254.91	19699255.10	0.0138	0.0046
Mercury	49222-11-13 17:46 G	19699343.05	19699343.24	19699343.44	0.0138	0.0016
Mercury	49223-02-10 01:41 G	19699431.38	19699431.57	19699431.77	0.0137	0.0014
Mercury	49223-05-09 09:36 G	19699519.72	19699519.90	19699520.09	0.0137	0.0044
Mercury	49223-08-05 17:31 G	19699608.07	19699608.23	19699608.40	0.0137	0.0073
Mercury	49223-11-02 01:41 G	19699696.44	19699696.57	19699696.70	0.0137	0.0103
Mercury	49224-01-29 09:07 G	19699784.85	19699784.88	19699784.95	0.0137	0.0133
Venus	49232-06-10 12:14 G	19702839.90	19702840.01	19702840.14	0.0134	0.0110
Venus	49233-01-22 18:14 G	19703066.10	19703066.26	19703066.43	0.0134	0.0084
Venus	49233-09-06 00:14 G	19703292.31	19703292.51	19703292.71	0.0134	0.0057
Venus	49234-04-20 06:00 G	19703518.54	19703518.75	19703518.97	0.0134	0.0031
Venus	49234-12-02 11:46 G	19703744.78	19703744.99	19703745.21	0.0134	0.0006
Venus	49235-07-16 17:31 G	19703971.02	19703971.23	19703971.45	0.0134	0.0021
Venus	49236-02-27 23:02 G	19704197.26	19704197.46	19704197.67	0.0134	0.0047
Venus	49236-10-11 04:34 G	19704423.51	19704423.69	19704423.88	0.0134	0.0073
Venus	49237-05-25 09:50 G	19704649.78	19704649.91	19704650.07	0.0134	0.0099
Venus	49238-01-06 15:22 G	19704876.08	19704876.14	19704876.23	0.0134	0.0124
Moon	49238-08-08 22:05 G	19705090.32	19705090.42	19705090.54	0.0134	0.0120
Earth	49238-08-09 01:12 G	19705090.45	19705090.55	19705090.68	0.0134	0.0119 *
Earth	49239-08-13 06:43 G	19705459.56	19705459.78	19705460.02	0.0133	0.0055
Moon	49239-08-13 10:05 G	19705459.71	19705459.92	19705460.16	0.0133	0.0059 *
Moon	49240-08-16 08:38 G	19705828.61	19705828.86	19705829.12	0.0133	0.0013
Earth	49240-08-16 12:29 G	19705828.77	19705829.02	19705829.27	0.0133	0.0009 *
Earth	49241-08-20 17:17 G	19706198.03	19706198.22	19706198.45	0.0133	0.0073
Moon	49241-08-20 20:53 G	19706198.15	19706198.37	19706198.59	0.0133	0.0066 *
Mercury	49265-08-14 00:58 G	19714957.50	19714957.54	19714957.59	0.0140	0.0129
Mercury	49265-11-10 04:19 G	19715045.60	19715045.68	19715045.76	0.0140	0.0108

Mercury	49266-02-06 07:26 G	19715133.72	19715133.81	19715133.92	0.0140	0.0088
Mercury	49266-05-05 10:48 G	19715221.84	19715221.95	19715222.07	0.0140	0.0067
Mercury	49266-08-01 14:10 G	19715309.97	19715310.09	19715310.21	0.0141	0.0046
Mercury	49266-10-28 17:17 G	19715398.10	19715398.22	19715398.35	0.0141	0.0026
Mercury	49267-01-24 20:38 G	19715486.23	19715486.36	19715486.49	0.0141	0.0005
Mercury	49267-04-23 00:00 G	19715574.37	19715574.50	19715574.63	0.0141	0.0017
Mercury	49267-07-20 03:22 G	19715662.51	19715662.64	19715662.76	0.0141	0.0038
Mercury	49267-10-16 06:29 G	19715750.66	19715750.77	19715750.89	0.0141	0.0059
Mercury	49268-01-12 09:50 G	19715838.81	19715838.91	19715839.02	0.0141	0.0080
Mercury	49268-04-09 13:12 G	19715926.96	19715927.05	19715927.14	0.0141	0.0102
Mercury	49268-07-06 16:34 G	19716015.13	19716015.19	19716015.25	0.0141	0.0123
Venus	49275-03-12 08:24 G	19718454.83	19718454.85	19718454.89	0.0144	0.0142
Venus	49275-10-24 20:10 G	19718681.21	19718681.34	19718681.48	0.0144	0.0110
Venus	49276-06-07 07:41 G	19718907.65	19718907.82	19718908.01	0.0144	0.0078
Venus	49277-01-19 19:26 G	19719134.11	19719134.31	19719134.52	0.0144	0.0045
Venus	49277-09-03 07:12 G	19719360.58	19719360.80	19719361.02	0.0144	0.0013
Venus	49278-04-17 18:58 G	19719587.08	19719587.29	19719587.51	0.0144	0.0020
Venus	49278-11-30 06:58 G	19719813.59	19719813.79	19719814.00	0.0145	0.0053
Venus	49279-07-14 18:43 G	19720040.12	19720040.28	19720040.47	0.0145	0.0087
Venus	49280-02-26 06:43 G	19720266.67	19720266.78	19720266.92	0.0145	0.0119
Earth	49281-02-07 20:53 G	19720614.25	19720614.37	19720614.52	0.0145	0.0122
Moon	49281-02-07 21:22 G	19720614.27	19720614.39	19720614.52	0.0145	0.0123 *
Moon	49282-02-13 00:00 G	19720984.26	19720984.50	19720984.77	0.0145	0.0041
Earth	49282-02-13 00:14 G	19720984.27	19720984.51	19720984.76	0.0145	0.0038 *
Moon	49283-02-18 01:55 G	19721354.36	19721354.58	19721354.82	0.0145	0.0052
Earth	49283-02-18 03:22 G	19721354.40	19721354.64	19721354.88	0.0145	0.0045 *
Earth	49284-02-23 06:00 G	19721724.65	19721724.75	19721724.88	0.0145	0.0129
Moon	49284-02-23 07:41 G	19721724.69	19721724.82	19721724.98	0.0145	0.0121 *
Jupiter	49290-01-27 07:12 G	19723889.27	19723889.80	19723890.34	0.0144	0.0009
Mercury	49305-12-16 16:48 G	19729691.14	19729691.20	19729691.28	0.0138	0.0128

Mercury	49306-03-15 00:58 G	19729779.41	19729779.54	19729779.68	0.0138	0.0098
Mercury	49306-06-11 09:07 G	19729867.71	19729867.88	19729868.05	0.0138	0.0068
Mercury	49306-09-07 17:02 G	19729956.02	19729956.21	19729956.40	0.0138	0.0038
Mercury	49306-12-05 01:12 G	19730044.35	19730044.55	19730044.74	0.0138	0.0008
Mercury	49307-03-03 09:07 G	19730132.68	19730132.88	19730133.07	0.0137	0.0022
Mercury	49307-05-30 17:02 G	19730221.03	19730221.21	19730221.39	0.0137	0.0051
Mercury	49307-08-27 00:43 G	19730309.38	19730309.53	19730309.70	0.0137	0.0081
Mercury	49307-11-23 08:53 G	19730397.76	19730397.87	19730397.99	0.0137	0.0111
Venus	49316-02-09 22:34 G	19733398.36	19733398.44	19733398.55	0.0135	0.0120
Venus	49316-09-23 04:48 G	19733624.55	19733624.70	19733624.86	0.0134	0.0093
Venus	49317-05-07 10:48 G	19733850.77	19733850.95	19733851.15	0.0134	0.0067
Venus	49317-12-19 16:48 G	19734077.00	19734077.20	19734077.41	0.0134	0.0041
Venus	49318-08-02 22:34 G	19734303.23	19734303.44	19734303.66	0.0134	0.0015
Venus	49319-03-17 04:19 G	19734529.47	19734529.68	19734529.90	0.0134	0.0012
Venus	49319-10-29 09:50 G	19734755.71	19734755.91	19734756.13	0.0134	0.0038
Venus	49320-06-11 15:36 G	19734981.97	19734982.15	19734982.35	0.0134	0.0064
Venus	49321-01-23 20:53 G	19735208.22	19735208.37	19735208.55	0.0134	0.0090
Venus	49321-09-07 02:24 G	19735434.50	19735434.60	19735434.72	0.0134	0.0115
Moon	49322-08-10 09:50 G	19735771.79	19735771.91	19735772.05	0.0134	0.0113
Earth	49322-08-10 13:26 G	19735771.95	19735772.06	19735772.21	0.0134	0.0114 *
Earth	49323-08-14 18:43 G	19736141.06	19736141.28	19736141.53	0.0134	0.0051
Moon	49323-08-14 22:48 G	19736141.21	19736141.45	19736141.68	0.0134	0.0049 *
Moon	49324-08-17 21:07 G	19736510.13	19736510.38	19736510.63	0.0133	0.0009
Earth	49324-08-18 00:29 G	19736510.27	19736510.52	19736510.78	0.0133	0.0014 *
Earth	49325-08-22 05:46 G	19736879.54	19736879.74	19736879.95	0.0133	0.0077
Moon	49325-08-22 09:07 G	19736879.70	19736879.88	19736880.09	0.0133	0.0084 *
Moon	49326-08-26 07:41 G	19737248.82	19737248.82	19737248.84	0.0133	0.0133
Mars	49340-09-01 03:07 G	19742368.38	19742368.63	19742368.92	0.0136	0.0064
Mercury	49349-09-04 08:24 G	19745658.79	19745658.85	19745658.91	0.0140	0.0123
Mercury	49349-12-01 11:46 G	19745746.90	19745746.99	19745747.07	0.0140	0.0103

Mercury	49350-02-27 14:53 G	19745835.02	19745835.12	19745835.23	0.0140	0.0082
Mercury	49350-05-26 18:00 G	19745923.14	19745923.25	19745923.38	0.0140	0.0062
Mercury	49350-08-22 21:22 G	19746011.27	19746011.39	19746011.52	0.0141	0.0041
Mercury	49350-11-19 00:43 G	19746099.40	19746099.53	19746099.66	0.0141	0.0019
Mercury	49351-02-15 04:05 G	19746187.54	19746187.67	19746187.80	0.0141	0.0002
Mercury	49351-05-14 07:12 G	19746275.68	19746275.80	19746275.93	0.0141	0.0023
Mercury	49351-08-10 10:34 G	19746363.82	19746363.94	19746364.07	0.0141	0.0044
Mercury	49351-11-06 13:55 G	19746451.96	19746452.08	19746452.20	0.0141	0.0065
Mercury	49352-02-02 17:02 G	19746540.12	19746540.21	19746540.32	0.0141	0.0086
Mercury	49352-04-30 20:24 G	19746628.27	19746628.35	19746628.44	0.0141	0.0107
Mercury	49352-07-27 23:46 G	19746716.44	19746716.49	19746716.54	0.0141	0.0128
Venus	49359-06-25 02:38 G	19749239.52	19749239.61	19749239.74	0.0144	0.0124
Venus	49360-02-06 14:38 G	19749465.94	19749466.11	19749466.28	0.0144	0.0091
Venus	49360-09-20 01:55 G	19749692.40	19749692.58	19749692.79	0.0144	0.0059
Venus	49361-05-04 13:55 G	19749918.87	19749919.08	19749919.30	0.0144	0.0026
Venus	49361-12-17 01:41 G	19750145.36	19750145.57	19750145.79	0.0144	0.0007
Venus	49362-07-31 13:26 G	19750371.86	19750372.06	19750372.28	0.0144	0.0040
Venus	49363-03-15 01:12 G	19750598.37	19750598.55	19750598.75	0.0145	0.0073
Venus	49363-10-27 13:12 G	19750824.92	19750825.05	19750825.21	0.0145	0.0106
Venus	49364-06-10 01:26 G	19751051.50	19751051.56	19751051.62	0.0145	0.0138
Earth	49365-02-09 06:58 G	19751295.66	19751295.79	19751295.96	0.0145	0.0118
Moon	49365-02-09 08:53 G	19751295.72	19751295.87	19751296.02	0.0145	0.0114 *
Moon	49366-02-14 10:05 G	19751665.67	19751665.92	19751666.19	0.0145	0.0032
Earth	49366-02-14 10:19 G	19751665.69	19751665.93	19751666.18	0.0145	0.0034 *
Moon	49367-02-19 13:12 G	19752035.82	19752036.05	19752036.29	0.0145	0.0044
Earth	49367-02-19 13:26 G	19752035.82	19752036.06	19752036.30	0.0145	0.0049 *
Earth	49368-02-24 15:50 G	19752406.09	19752406.16	19752406.29	0.0145	0.0133
Moon	49368-02-24 17:31 G	19752406.17	19752406.23	19752406.31	0.0145	0.0139 *
Mars	49381-01-01 02:10 G	19757100.28	19757100.59	19757100.90	0.0142	0.0012
Mercury	49390-01-06 00:29 G	19760392.44	19760392.52	19760392.63	0.0138	0.0119

Mercury	49390-04-04 08:38 G	19760480.72	19760480.86	19760481.02	0.0138	0.0089
Mercury	49390-07-01 16:34 G	19760569.02	19760569.19	19760569.38	0.0138	0.0059
Mercury	49390-09-28 00:43 G	19760657.34	19760657.53	19760657.72	0.0138	0.0029
Mercury	49390-12-25 08:38 G	19760745.67	19760745.86	19760746.06	0.0138	0.0003
Mercury	49391-03-23 16:48 G	19760834.00	19760834.20	19760834.39	0.0138	0.0031
Mercury	49391-06-20 00:29 G	19760922.35	19760922.52	19760922.70	0.0137	0.0061
Mercury	49391-09-16 08:24 G	19761010.71	19761010.85	19761011.01	0.0137	0.0090
Mercury	49391-12-13 16:34 G	19761099.10	19761099.19	19761099.28	0.0137	0.0120
Venus	49399-10-10 09:22 G	19763956.85	19763956.89	19763956.96	0.0135	0.0130
Venus	49400-05-24 15:36 G	19764183.03	19764183.15	19764183.30	0.0134	0.0104
Venus	49401-01-05 22:05 G	19764409.24	19764409.42	19764409.60	0.0134	0.0077
Venus	49401-08-20 03:50 G	19764635.46	19764635.66	19764635.87	0.0134	0.0051
Venus	49402-04-03 09:50 G	19764861.70	19764861.91	19764862.12	0.0134	0.0024
Venus	49402-11-15 15:36 G	19765087.93	19765088.15	19765088.37	0.0134	0.0002
Venus	49403-06-29 21:07 G	19765314.18	19765314.38	19765314.60	0.0134	0.0029
Venus	49404-02-11 02:38 G	19765540.42	19765540.61	19765540.82	0.0134	0.0055
Venus	49404-09-24 08:10 G	19765766.68	19765766.84	19765767.03	0.0134	0.0081
Venus	49405-05-08 13:55 G	19765992.96	19765993.08	19765993.22	0.0134	0.0106
Venus	49405-12-20 18:58 G	19766219.28	19766219.29	19766219.35	0.0134	0.0132
Moon	49406-08-11 22:48 G	19766453.32	19766453.45	19766453.60	0.0134	0.0111
Earth	49406-08-12 01:55 G	19766453.46	19766453.58	19766453.75	0.0134	0.0109 *
Earth	49407-08-16 07:55 G	19766822.59	19766822.83	19766823.07	0.0134	0.0045
Moon	49407-08-16 11:17 G	19766822.75	19766822.97	19766823.22	0.0134	0.0048 *
Moon	49408-08-19 09:36 G	19767191.66	19767191.90	19767192.15	0.0134	0.0022
Earth	49408-08-19 13:26 G	19767191.81	19767192.06	19767192.31	0.0134	0.0019 *
Earth	49409-08-23 18:14 G	19767561.08	19767561.26	19767561.48	0.0133	0.0083
Moon	49409-08-23 21:50 G	19767561.22	19767561.41	19767561.63	0.0133	0.0076 *
Mars	49425-04-28 05:02 G	19773287.55	19773287.71	19773287.91	0.0137	0.0110
Mercury	49433-06-29 12:43 G	19776272.01	19776272.03	19776272.07	0.0140	0.0136
Mercury	49433-09-25 16:05 G	19776360.10	19776360.17	19776360.25	0.0140	0.0115

Mercury	49433-12-22 19:26 G	19776448.22	19776448.31	19776448.41	0.0140	0.0095
Mercury	49434-03-20 22:34 G	19776536.34	19776536.44	19776536.56	0.0140	0.0074
Mercury	49434-06-17 01:55 G	19776624.46	19776624.58	19776624.70	0.0140	0.0053
Mercury	49434-09-13 05:17 G	19776712.59	19776712.72	19776712.85	0.0141	0.0032
Mercury	49434-12-10 08:38 G	19776800.73	19776800.86	19776800.99	0.0141	0.0012
Mercury	49435-03-08 11:46 G	19776888.86	19776888.99	19776889.12	0.0141	0.0010
Mercury	49435-06-04 15:07 G	19776977.00	19776977.13	19776977.26	0.0141	0.0031
Mercury	49435-08-31 18:14 G	19777065.15	19777065.26	19777065.39	0.0141	0.0052
Mercury	49435-11-27 21:36 G	19777153.29	19777153.40	19777153.51	0.0141	0.0073
Mercury	49436-02-24 00:58 G	19777241.45	19777241.54	19777241.64	0.0141	0.0094
Mercury	49436-05-22 04:19 G	19777329.61	19777329.68	19777329.75	0.0141	0.0115
Mercury	49436-08-18 07:26 G	19777417.79	19777417.81	19777417.85	0.0141	0.0137
Venus	49443-02-23 12:00 G	19779797.94	19779798.00	19779798.08	0.0144	0.0135
Venus	49443-10-07 23:31 G	19780024.34	19780024.48	19780024.64	0.0144	0.0103
Venus	49444-05-21 11:02 G	19780250.78	19780250.96	19780251.16	0.0144	0.0071
Venus	49445-01-02 22:48 G	19780477.25	19780477.45	19780477.67	0.0144	0.0038
Venus	49445-08-17 10:34 G	19780703.72	19780703.94	19780704.16	0.0144	0.0006
Venus	49446-03-31 22:19 G	19780930.22	19780930.43	19780930.65	0.0144	0.0028
Venus	49446-11-13 10:19 G	19781156.74	19781156.93	19781157.13	0.0144	0.0061
Venus	49447-06-27 22:05 G	19781383.26	19781383.42	19781383.59	0.0145	0.0094
Venus	49448-02-09 09:50 G	19781609.82	19781609.91	19781610.03	0.0145	0.0127
Earth	49449-02-10 21:07 G	19781977.23	19781977.38	19781977.56	0.0145	0.0110
Moon	49449-02-10 22:34 G	19781977.30	19781977.44	19781977.61	0.0145	0.0113 *
Moon	49450-02-15 22:48 G	19782347.19	19782347.45	19782347.72	0.0145	0.0028
Earth	49450-02-16 00:14 G	19782347.26	19782347.51	19782347.77	0.0145	0.0027 *
Earth	49451-02-21 03:07 G	19782717.41	19782717.63	19782717.88	0.0145	0.0057
Moon	49451-02-21 03:22 G	19782717.42	19782717.64	19782717.87	0.0145	0.0062 *
Moon	49452-02-26 06:29 G	19783087.68	19783087.77	19783087.90	0.0145	0.0132
Earth	49452-02-26 06:14 G	19783087.71	19783087.76	19783087.84	0.0145	0.0140 *
Mercury	49473-10-31 00:58 G	19791005.54	19791005.54	19791005.54	0.0138	0.0138

Mercury	49474-01-27 08:38 G	19791093.75	19791093.86	19791093.99	0.0138	0.0108
Mercury	49474-04-25 16:48 G	19791182.04	19791182.20	19791182.37	0.0138	0.0078
Mercury	49474-07-23 00:58 G	19791270.35	19791270.54	19791270.72	0.0138	0.0048
Mercury	49474-10-19 08:53 G	19791358.67	19791358.87	19791359.06	0.0138	0.0018
Mercury	49475-01-15 16:48 G	19791447.00	19791447.20	19791447.40	0.0138	0.0012
Mercury	49475-04-14 00:43 G	19791535.35	19791535.53	19791535.72	0.0138	0.0041
Mercury	49475-07-11 08:24 G	19791623.70	19791623.85	19791624.03	0.0137	0.0072
Mercury	49475-10-07 16:34 G	19791712.06	19791712.19	19791712.33	0.0137	0.0101
Mercury	49476-01-04 00:14 G	19791800.47	19791800.51	19791800.58	0.0137	0.0131
Venus	49484-01-23 02:53 G	19794741.52	19794741.62	19794741.75	0.0135	0.0113
Venus	49484-09-05 08:53 G	19794967.72	19794967.87	19794968.05	0.0134	0.0087
Venus	49485-04-19 15:22 G	19795193.95	19795194.14	19795194.34	0.0134	0.0060
Venus	49485-12-01 21:22 G	19795420.18	19795420.39	19795420.60	0.0134	0.0033
Venus	49486-07-16 03:07 G	19795646.41	19795646.63	19795646.85	0.0134	0.0007
Venus	49487-02-27 08:53 G	19795872.65	19795872.87	19795873.08	0.0134	0.0019
Venus	49487-10-11 14:24 G	19796098.90	19796099.10	19796099.30	0.0134	0.0045
Venus	49488-05-24 20:10 G	19796325.15	19796325.34	19796325.52	0.0134	0.0071
Venus	49489-01-06 01:26 G	19796551.42	19796551.56	19796551.71	0.0134	0.0097
Venus	49489-08-20 06:29 G	19796777.71	19796777.77	19796777.87	0.0134	0.0123
Moon	49490-08-12 11:31 G	19797134.84	19797134.98	19797135.16	0.0134	0.0101
Earth	49490-08-12 15:07 G	19797134.99	19797135.13	19797135.31	0.0134	0.0103 *
Earth	49491-08-16 20:53 G	19797504.13	19797504.37	19797504.62	0.0134	0.0039
Moon	49491-08-17 00:14 G	19797504.27	19797504.51	19797504.76	0.0134	0.0039 *
Moon	49492-08-19 23:02 G	19797873.21	19797873.46	19797873.71	0.0133	0.0021
Earth	49492-08-20 02:38 G	19797873.36	19797873.61	19797873.85	0.0133	0.0025 *
Earth	49493-08-24 07:26 G	19798242.64	19798242.81	19798243.02	0.0133	0.0089
Moon	49493-08-24 11:02 G	19798242.80	19798242.96	19798243.16	0.0133	0.0095 *
Mercury	49517-07-20 20:38 G	19806973.31	19806973.36	19806973.40	0.0140	0.0129
Mercury	49517-10-16 23:31 G	19807061.41	19807061.48	19807061.57	0.0140	0.0110
Mercury	49518-01-13 02:53 G	19807149.53	19807149.62	19807149.73	0.0140	0.0088

Mercury	49518-04-11 06:14 G	19807237.65	19807237.76	19807237.88	0.0140	0.0067
Mercury	49518-07-08 09:36 G	19807325.78	19807325.90	19807326.02	0.0140	0.0046
Mercury	49518-10-04 12:58 G	19807413.91	19807414.04	19807414.16	0.0141	0.0026
Mercury	49518-12-31 16:05 G	19807502.04	19807502.17	19807502.30	0.0141	0.0005
Mercury	49519-03-29 19:26 G	19807590.18	19807590.31	19807590.44	0.0141	0.0016
Mercury	49519-06-25 22:34 G	19807678.32	19807678.44	19807678.57	0.0141	0.0038
Mercury	49519-09-22 01:55 G	19807766.47	19807766.58	19807766.70	0.0141	0.0059
Mercury	49519-12-19 05:02 G	19807854.61	19807854.71	19807854.83	0.0141	0.0080
Mercury	49520-03-16 08:24 G	19807942.77	19807942.85	19807942.95	0.0141	0.0101
Mercury	49520-06-12 11:46 G	19808030.93	19808030.99	19808031.06	0.0141	0.0122
Venus	49527-06-08 07:55 G	19810582.71	19810582.83	19810582.96	0.0144	0.0115
Venus	49528-01-20 19:12 G	19810809.13	19810809.30	19810809.49	0.0144	0.0083
Venus	49528-09-03 06:58 G	19811035.59	19811035.79	19811035.99	0.0144	0.0051
Venus	49529-04-17 18:29 G	19811262.06	19811262.27	19811262.49	0.0144	0.0018
Venus	49529-11-30 06:29 G	19811488.56	19811488.77	19811488.99	0.0144	0.0015
Venus	49530-07-14 18:14 G	19811715.06	19811715.26	19811715.47	0.0144	0.0048
Venus	49531-02-26 06:14 G	19811941.58	19811941.76	19811941.94	0.0145	0.0081
Venus	49531-10-10 18:00 G	19812168.12	19812168.25	19812168.39	0.0145	0.0114
Earth	49533-02-12 09:50 G	19812658.75	19812658.91	19812659.11	0.0145	0.0104
Moon	49533-02-12 12:29 G	19812658.85	19812659.02	19812659.21	0.0145	0.0099 *
Moon	49534-02-17 12:00 G	19813028.74	19813029.00	19813029.26	0.0145	0.0019
Earth	49534-02-17 13:26 G	19813028.81	19813029.06	19813029.31	0.0145	0.0020 *
Earth	49535-02-22 16:19 G	19813398.96	19813399.18	19813399.42	0.0145	0.0064
Moon	49535-02-22 17:31 G	19813399.02	19813399.23	19813399.47	0.0145	0.0059 *
Mars	49548-05-22 03:50 G	19818236.45	19818236.66	19818236.88	0.0142	0.0104
Mercury	49557-11-21 09:36 G	19821706.82	19821706.90	19821706.98	0.0138	0.0125
Mercury	49558-02-17 17:46 G	19821795.10	19821795.24	19821795.38	0.0138	0.0095
Mercury	49558-05-17 01:26 G	19821883.40	19821883.56	19821883.74	0.0138	0.0066
Mercury	49558-08-13 09:22 G	19821971.71	19821971.89	19821972.09	0.0138	0.0036
Mercury	49558-11-09 17:31 G	19822060.04	19822060.23	19822060.43	0.0138	0.0006

Mercury	49559-02-06 01:26 G	19822148.37	19822148.56	19822148.76	0.0138	0.0024
Mercury	49559-05-05 09:07 G	19822236.71	19822236.88	19822237.08	0.0138	0.0055
Mercury	49559-08-01 17:17 G	19822325.07	19822325.22	19822325.38	0.0137	0.0084
Mercury	49559-10-29 00:58 G	19822413.45	19822413.54	19822413.67	0.0137	0.0114
Venus	49567-09-23 15:22 G	19825300.05	19825300.14	19825300.24	0.0135	0.0121
Venus	49568-05-06 21:36 G	19825526.25	19825526.40	19825526.56	0.0134	0.0095
Venus	49568-12-19 03:22 G	19825752.47	19825752.64	19825752.84	0.0134	0.0069
Venus	49569-08-02 09:22 G	19825978.69	19825978.89	19825979.11	0.0134	0.0042
Venus	49570-03-16 15:22 G	19826204.92	19826205.14	19826205.35	0.0134	0.0016
Venus	49570-10-28 20:53 G	19826431.16	19826431.37	19826431.59	0.0134	0.0011
Venus	49571-06-12 02:38 G	19826657.41	19826657.61	19826657.82	0.0134	0.0037
Venus	49572-01-24 08:10 G	19826883.65	19826883.84	19826884.04	0.0134	0.0063
Venus	49572-09-06 13:26 G	19827109.91	19827110.06	19827110.24	0.0134	0.0089
Venus	49573-04-20 18:43 G	19827336.19	19827336.28	19827336.41	0.0134	0.0115
Moon	49574-08-14 02:38 G	19827816.45	19827816.61	19827816.78	0.0134	0.0099
Earth	49574-08-14 05:17 G	19827816.56	19827816.72	19827816.91	0.0134	0.0096 *
Earth	49575-08-18 11:02 G	19828185.72	19828185.96	19828186.21	0.0133	0.0032
Moon	49575-08-18 14:24 G	19828185.86	19828186.10	19828186.35	0.0133	0.0034 *
Moon	49576-08-21 13:12 G	19828554.82	19828555.05	19828555.30	0.0133	0.0034
Earth	49576-08-21 16:19 G	19828554.94	19828555.18	19828555.44	0.0133	0.0032 *
Earth	49577-08-25 21:50 G	19828924.24	19828924.41	19828924.59	0.0133	0.0095
Moon	49577-08-26 01:12 G	19828924.36	19828924.55	19828924.74	0.0133	0.0089 *
Mars	49592-09-15 19:41 G	19834424.02	19834424.32	19834424.63	0.0136	0.0011
Mercury	49601-08-10 04:05 G	19837674.62	19837674.67	19837674.74	0.0140	0.0122
Mercury	49601-11-06 07:26 G	19837762.73	19837762.81	19837762.90	0.0140	0.0101
Mercury	49602-02-02 10:48 G	19837850.85	19837850.95	19837851.06	0.0140	0.0081
Mercury	49602-05-01 14:10 G	19837938.97	19837939.09	19837939.20	0.0140	0.0060
Mercury	49602-07-28 17:17 G	19838027.10	19838027.22	19838027.35	0.0141	0.0039
Mercury	49602-10-24 20:38 G	19838115.23	19838115.36	19838115.49	0.0141	0.0018
Mercury	49603-01-21 00:00 G	19838203.37	19838203.50	19838203.63	0.0141	0.0005

Mercury	49603-04-19 03:07 G	19838291.50	19838291.63	19838291.76	0.0141	0.0024
Mercury	49603-07-16 06:29 G	19838379.65	19838379.77	19838379.89	0.0141	0.0045
Mercury	49603-10-12 09:50 G	19838467.79	19838467.91	19838468.02	0.0141	0.0066
Mercury	49604-01-08 12:58 G	19838555.94	19838556.04	19838556.15	0.0141	0.0088
Mercury	49604-04-05 16:05 G	19838644.10	19838644.17	19838644.26	0.0141	0.0110
Mercury	49604-07-02 19:26 G	19838732.27	19838732.31	19838732.37	0.0141	0.0131
Venus	49611-02-05 16:34 G	19841141.11	19841141.19	19841141.31	0.0144	0.0127
Venus	49611-09-20 04:05 G	19841367.52	19841367.67	19841367.84	0.0144	0.0095
Venus	49612-05-03 15:50 G	19841593.97	19841594.16	19841594.36	0.0144	0.0062
Venus	49612-12-16 03:36 G	19841820.44	19841820.65	19841820.86	0.0144	0.0030
Venus	49613-07-30 15:22 G	19842046.92	19842047.14	19842047.35	0.0144	0.0004
Venus	49614-03-14 02:53 G	19842273.42	19842273.62	19842273.84	0.0144	0.0036
Venus	49614-10-26 14:38 G	19842499.93	19842500.11	19842500.32	0.0145	0.0070
Venus	49615-06-10 02:53 G	19842726.47	19842726.62	19842726.78	0.0145	0.0102
Venus	49616-01-22 14:38 G	19842953.05	19842953.11	19842953.20	0.0145	0.0135
Earth	49617-02-13 00:14 G	19843340.33	19843340.51	19843340.71	0.0145	0.0096
Moon	49617-02-13 02:38 G	19843340.44	19843340.61	19843340.80	0.0145	0.0100 *
Moon	49618-02-18 01:12 G	19843710.28	19843710.55	19843710.81	0.0145	0.0012
Earth	49618-02-18 03:36 G	19843710.40	19843710.65	19843710.91	0.0145	0.0013 *
Earth	49619-02-23 06:43 G	19844080.57	19844080.78	19844081.02	0.0145	0.0071
Moon	49619-02-23 08:24 G	19844080.64	19844080.85	19844081.06	0.0145	0.0075 *
Mars	49633-01-16 01:26 G	19849156.35	19849156.56	19849156.79	0.0142	0.0101
Mercury	49641-12-11 18:29 G	19852408.16	19852408.27	19852408.39	0.0138	0.0112
Mercury	49642-03-10 02:24 G	19852496.45	19852496.60	19852496.77	0.0138	0.0082
Mercury	49642-06-06 10:34 G	19852584.76	19852584.94	19852585.12	0.0138	0.0052
Mercury	49642-09-02 18:29 G	19852673.08	19852673.27	19852673.47	0.0138	0.0022
Mercury	49642-11-30 02:24 G	19852761.41	19852761.60	19852761.80	0.0138	0.0008
Mercury	49643-02-26 10:19 G	19852849.75	19852849.93	19852850.13	0.0138	0.0038
Mercury	49643-05-25 18:14 G	19852938.09	19852938.26	19852938.44	0.0137	0.0067
Mercury	49643-08-22 02:24 G	19853026.46	19853026.60	19853026.74	0.0137	0.0097

Mercury	49643-11-18 10:05 G	19853114.85	19853114.92	19853115.00	0.0137	0.0126
Venus	49651-05-24 04:05 G	19855858.61	19855858.67	19855858.73	0.0135	0.0129
Venus	49652-01-05 10:05 G	19856084.79	19856084.92	19856085.06	0.0135	0.0103
Venus	49652-08-18 15:50 G	19856311.00	19856311.16	19856311.35	0.0134	0.0077
Venus	49653-04-01 21:50 G	19856537.22	19856537.41	19856537.62	0.0134	0.0050
Venus	49653-11-14 03:50 G	19856763.45	19856763.66	19856763.88	0.0134	0.0024
Venus	49654-06-28 09:36 G	19856989.68	19856989.90	19856990.12	0.0134	0.0003
Venus	49655-02-09 15:07 G	19857215.92	19857216.13	19857216.35	0.0134	0.0029
Venus	49655-09-23 20:38 G	19857442.17	19857442.36	19857442.56	0.0134	0.0055
Venus	49656-05-07 02:10 G	19857668.43	19857668.59	19857668.77	0.0134	0.0081
Venus	49656-12-19 07:26 G	19857894.70	19857894.81	19857894.96	0.0134	0.0107
Venus	49657-08-02 12:43 G	19858121.02	19858121.03	19858121.08	0.0134	0.0132
Moon	49658-08-14 16:48 G	19858498.03	19858498.20	19858498.40	0.0133	0.0087
Earth	49658-08-14 19:55 G	19858498.16	19858498.33	19858498.53	0.0133	0.0089 *
Earth	49659-08-19 01:41 G	19858867.32	19858867.57	19858867.81	0.0133	0.0026
Moon	49659-08-19 04:19 G	19858867.43	19858867.68	19858867.94	0.0133	0.0026 *
Moon	49660-08-22 03:50 G	19859236.43	19859236.66	19859236.91	0.0133	0.0035
Earth	49660-08-22 07:12 G	19859236.55	19859236.80	19859237.04	0.0133	0.0038 *
Earth	49661-08-26 12:29 G	19859605.86	19859606.02	19859606.19	0.0133	0.0101
Moon	49661-08-26 15:07 G	19859606.00	19859606.13	19859606.31	0.0133	0.0107 *
Mercury	49685-06-03 08:10 G	19868287.83	19868287.84	19868287.87	0.0140	0.0137
Mercury	49685-08-30 11:31 G	19868375.91	19868375.98	19868376.06	0.0140	0.0117
Mercury	49685-11-26 14:38 G	19868464.03	19868464.11	19868464.22	0.0140	0.0097
Mercury	49686-02-22 18:00 G	19868552.15	19868552.25	19868552.37	0.0140	0.0075
Mercury	49686-05-21 21:22 G	19868640.27	19868640.39	19868640.51	0.0140	0.0054
Mercury	49686-08-18 00:43 G	19868728.40	19868728.53	19868728.66	0.0140	0.0033
Mercury	49686-11-14 04:05 G	19868816.54	19868816.67	19868816.80	0.0141	0.0013
Mercury	49687-02-10 07:12 G	19868904.67	19868904.80	19868904.93	0.0141	0.0009
Mercury	49687-05-09 10:34 G	19868992.81	19868992.94	19868993.07	0.0141	0.0030
Mercury	49687-08-05 13:41 G	19869080.96	19869081.07	19869081.20	0.0141	0.0051

Mercury	49687-11-01 17:02 G	19869169.10	19869169.21	19869169.32	0.0141	0.0072
Mercury	49688-01-28 20:24 G	19869257.25	19869257.35	19869257.45	0.0141	0.0093
Mercury	49688-04-25 23:31 G	19869345.41	19869345.48	19869345.56	0.0141	0.0115
Mercury	49688-07-23 02:53 G	19869433.59	19869433.62	19869433.66	0.0141	0.0136
Venus	49694-10-05 23:02 G	19871699.43	19871699.46	19871699.53	0.0144	0.0140
Venus	49695-05-20 10:34 G	19871925.81	19871925.94	19871926.10	0.0144	0.0108
Venus	49696-01-01 22:19 G	19872152.25	19872152.43	19872152.62	0.0144	0.0075
Venus	49696-08-15 09:36 G	19872378.70	19872378.90	19872379.12	0.0144	0.0043
Venus	49697-03-29 21:22 G	19872605.18	19872605.39	19872605.61	0.0144	0.0011
Venus	49697-11-11 09:22 G	19872831.68	19872831.89	19872832.11	0.0144	0.0023
Venus	49698-06-25 21:07 G	19873058.18	19873058.38	19873058.58	0.0145	0.0056
Venus	49699-02-07 08:53 G	19873284.71	19873284.87	19873285.05	0.0145	0.0089
Venus	49699-09-21 20:38 G	19873511.26	19873511.36	19873511.49	0.0145	0.0122
Earth	49701-02-14 10:19 G	19874021.74	19874021.93	19874022.13	0.0145	0.0092
Moon	49701-02-14 13:26 G	19874021.87	19874022.06	19874022.27	0.0145	0.0087 *
Moon	49702-02-19 11:17 G	19874391.71	19874391.97	19874392.24	0.0145	0.0009
Earth	49702-02-19 13:55 G	19874391.83	19874392.08	19874392.34	0.0145	0.0009 *
Earth	49703-02-24 17:17 G	19874762.01	19874762.22	19874762.45	0.0145	0.0075
Moon	49703-02-24 19:41 G	19874762.11	19874762.32	19874762.54	0.0145	0.0071 *
Mercury	49725-10-05 18:58 G	19883021.24	19883021.29	19883021.36	0.0138	0.0130
Mercury	49726-01-02 02:53 G	19883109.50	19883109.62	19883109.76	0.0138	0.0101
Mercury	49726-03-31 11:02 G	19883197.79	19883197.96	19883198.13	0.0138	0.0070
Mercury	49726-06-27 19:12 G	19883286.11	19883286.30	19883286.48	0.0138	0.0040
Mercury	49726-09-24 03:07 G	19883374.43	19883374.63	19883374.83	0.0138	0.0010
Mercury	49726-12-21 11:02 G	19883462.77	19883462.96	19883463.16	0.0138	0.0020
Mercury	49727-03-19 18:58 G	19883551.11	19883551.29	19883551.48	0.0138	0.0050
Mercury	49727-06-16 02:38 G	19883639.46	19883639.61	19883639.78	0.0138	0.0080
Mercury	49727-09-12 10:34 G	19883727.84	19883727.94	19883728.07	0.0137	0.0109
Venus	49735-09-05 22:19 G	19886643.32	19886643.43	19886643.56	0.0135	0.0111
Venus	49736-04-19 04:19 G	19886869.53	19886869.68	19886869.87	0.0135	0.0085

Venus	49736-12-01 10:19 G	19887095.75	19887095.93	19887096.14	0.0134	0.0059
Venus	49737-07-15 16:19 G	19887321.98	19887322.18	19887322.40	0.0134	0.0032
Venus	49738-02-26 22:05 G	19887548.21	19887548.42	19887548.64	0.0134	0.0006
Venus	49738-10-11 03:50 G	19887774.44	19887774.66	19887774.87	0.0134	0.0021
Venus	49739-05-25 09:22 G	19888000.69	19888000.89	19888001.10	0.0134	0.0047
Venus	49740-01-06 14:53 G	19888226.94	19888227.12	19888227.31	0.0134	0.0073
Venus	49740-08-19 20:10 G	19888453.21	19888453.34	19888453.50	0.0134	0.0099
Venus	49741-04-03 01:55 G	19888679.50	19888679.58	19888679.65	0.0134	0.0124
Moon	49742-08-16 08:53 G	19889179.69	19889179.87	19889180.06	0.0133	0.0087
Earth	49742-08-16 11:02 G	19889179.77	19889179.96	19889180.16	0.0133	0.0083 *
Earth	49743-08-20 16:34 G	19889548.94	19889549.19	19889549.44	0.0133	0.0019
Moon	49743-08-20 19:26 G	19889549.06	19889549.31	19889549.57	0.0133	0.0020 *
Moon	49744-08-23 19:26 G	19889918.08	19889918.31	19889918.54	0.0133	0.0046
Earth	49744-08-23 21:50 G	19889918.18	19889918.41	19889918.66	0.0133	0.0044 *
Earth	49745-08-28 02:53 G	19890287.49	19890287.62	19890287.79	0.0133	0.0108
Moon	49745-08-28 05:31 G	19890287.59	19890287.73	19890287.92	0.0133	0.0103 *
Mars	49760-02-04 08:38 G	19895560.65	19895560.86	19895561.11	0.0136	0.0090
Mercury	49769-06-24 15:50 G	19898989.12	19898989.16	19898989.21	0.0140	0.0130
Mercury	49769-09-20 18:58 G	19899077.22	19899077.29	19899077.38	0.0140	0.0110
Mercury	49769-12-17 22:19 G	19899165.34	19899165.43	19899165.54	0.0140	0.0089
Mercury	49770-03-16 01:41 G	19899253.46	19899253.57	19899253.69	0.0140	0.0068
Mercury	49770-06-12 05:02 G	19899341.59	19899341.71	19899341.83	0.0140	0.0047
Mercury	49770-09-08 08:10 G	19899429.72	19899429.84	19899429.97	0.0140	0.0027
Mercury	49770-12-05 11:31 G	19899517.85	19899517.98	19899518.11	0.0140	0.0006
Mercury	49771-03-03 14:53 G	19899605.99	19899606.12	19899606.25	0.0141	0.0016
Mercury	49771-05-30 18:00 G	19899694.13	19899694.25	19899694.38	0.0141	0.0037
Mercury	49771-08-26 21:22 G	19899782.27	19899782.39	19899782.51	0.0141	0.0058
Mercury	49771-11-23 00:29 G	19899870.42	19899870.52	19899870.64	0.0141	0.0079
Mercury	49772-02-19 03:50 G	19899958.58	19899958.66	19899958.76	0.0141	0.0100
Mercury	49772-05-17 07:12 G	19900046.74	19900046.80	19900046.87	0.0141	0.0121

Venus	49779-01-18 18:00 G	19902484.14	19902484.25	19902484.38	0.0144	0.0120
Venus	49779-09-02 05:17 G	19902710.56	19902710.72	19902710.90	0.0144	0.0088
Venus	49780-04-15 16:48 G	19902937.01	19902937.20	19902937.41	0.0144	0.0056
Venus	49780-11-28 04:34 G	19903163.48	19903163.69	19903163.91	0.0144	0.0023
Venus	49781-07-12 16:19 G	19903389.96	19903390.18	19903390.40	0.0144	0.0010
Venus	49782-02-24 04:05 G	19903616.46	19903616.67	19903616.88	0.0144	0.0043
Venus	49782-10-08 15:50 G	19903842.98	19903843.16	19903843.35	0.0145	0.0076
Venus	49783-05-23 03:36 G	19904069.52	19904069.65	19904069.80	0.0145	0.0109
Venus	49784-01-04 15:36 G	19904296.12	19904296.15	19904296.21	0.0145	0.0142
Earth	49785-02-14 21:07 G	19904703.18	19904703.38	19904703.59	0.0145	0.0088
Moon	49785-02-15 00:29 G	19904703.33	19904703.52	19904703.72	0.0145	0.0093 *
Moon	49786-02-19 21:22 G	19905073.13	19905073.39	19905073.65	0.0145	0.0002
Earth	49786-02-20 00:43 G	19905073.28	19905073.53	19905073.79	0.0145	0.0005 *
Earth	49787-02-25 04:05 G	19905443.47	19905443.67	19905443.90	0.0145	0.0079
Moon	49787-02-25 06:58 G	19905443.58	19905443.79	19905443.99	0.0145	0.0082 *
Mars	49800-06-05 20:24 G	19910292.06	19910292.35	19910292.67	0.0142	0.0025
Mercury	49809-10-27 02:53 G	19913722.53	19913722.62	19913722.72	0.0138	0.0120
Mercury	49810-01-23 10:48 G	19913810.81	19913810.95	19913811.11	0.0138	0.0090
Mercury	49810-04-21 18:58 G	19913899.12	19913899.29	19913899.47	0.0138	0.0060
Mercury	49810-07-19 02:53 G	19913987.44	19913987.62	19913987.82	0.0138	0.0030
Mercury	49810-10-15 11:02 G	19914075.76	19914075.96	19914076.16	0.0138	0.0000
Mercury	49811-01-11 18:58 G	19914164.10	19914164.29	19914164.49	0.0138	0.0030
Mercury	49811-04-10 03:07 G	19914252.45	19914252.63	19914252.80	0.0138	0.0060
Mercury	49811-07-07 10:48 G	19914340.81	19914340.95	19914341.11	0.0138	0.0090
Mercury	49811-10-03 18:43 G	19914429.20	19914429.28	19914429.39	0.0137	0.0120
Venus	49819-05-07 10:05 G	19917201.83	19917201.92	19917202.03	0.0135	0.0120
Venus	49819-12-19 16:05 G	19917428.03	19917428.17	19917428.34	0.0135	0.0094
Venus	49820-08-01 22:19 G	19917654.24	19917654.43	19917654.62	0.0135	0.0067
Venus	49821-03-16 04:05 G	19917880.47	19917880.67	19917880.89	0.0134	0.0040
Venus	49821-10-28 10:05 G	19918106.70	19918106.92	19918107.14	0.0134	0.0014

Venus	49822-06-11 15:50 G	19918332.94	19918333.16	19918333.38	0.0134	0.0013
Venus	49823-01-23 21:22 G	19918559.19	19918559.39	19918559.60	0.0134	0.0039
Venus	49823-09-07 02:53 G	19918785.44	19918785.62	19918785.82	0.0134	0.0065
Venus	49824-04-20 08:10 G	19919011.70	19919011.84	19919012.02	0.0134	0.0091
Venus	49824-12-02 14:10 G	19919237.98	19919238.09	19919238.19	0.0134	0.0116
Moon	49826-08-17 22:48 G	19919861.26	19919861.45	19919861.67	0.0133	0.0074
Earth	49826-08-18 01:26 G	19919861.36	19919861.56	19919861.77	0.0133	0.0077 *
Earth	49827-08-22 06:58 G	19920230.54	19920230.79	19920231.04	0.0133	0.0013
Moon	49827-08-22 08:53 G	19920230.61	19920230.87	19920231.13	0.0133	0.0015 *
Moon	49828-08-25 10:05 G	19920599.70	19920599.92	19920600.15	0.0133	0.0048
Earth	49828-08-25 12:14 G	19920599.79	19920600.01	19920600.26	0.0133	0.0050 *
Earth	49829-08-29 17:46 G	19920969.12	19920969.24	19920969.38	0.0133	0.0113
Moon	49829-08-29 19:55 G	19920969.23	19920969.33	19920969.47	0.0133	0.0117 *
Mars	49844-09-30 11:17 G	19926479.75	19926479.97	19926480.23	0.0136	0.0084
Mercury	49853-07-15 23:17 G	19929690.42	19929690.47	19929690.54	0.0140	0.0124
Mercury	49853-10-12 02:38 G	19929778.53	19929778.61	19929778.70	0.0140	0.0103
Mercury	49854-01-08 06:00 G	19929866.65	19929866.75	19929866.85	0.0140	0.0082
Mercury	49854-04-06 09:07 G	19929954.77	19929954.88	19929955.00	0.0140	0.0062
Mercury	49854-07-03 12:29 G	19930042.90	19930043.02	19930043.15	0.0140	0.0041
Mercury	49854-09-29 15:50 G	19930131.03	19930131.16	19930131.29	0.0140	0.0020
Mercury	49854-12-26 18:58 G	19930219.16	19930219.29	19930219.43	0.0140	0.0005
Mercury	49855-03-24 22:19 G	19930307.30	19930307.43	19930307.56	0.0140	0.0022
Mercury	49855-06-21 01:41 G	19930395.44	19930395.57	19930395.69	0.0141	0.0043
Mercury	49855-09-17 05:02 G	19930483.59	19930483.71	19930483.82	0.0141	0.0064
Mercury	49855-12-14 08:10 G	19930571.74	19930571.84	19930571.95	0.0141	0.0085
Mercury	49856-03-11 11:31 G	19930659.90	19930659.98	19930660.06	0.0141	0.0106
Mercury	49856-06-07 14:53 G	19930748.06	19930748.12	19930748.17	0.0141	0.0127
Venus	49862-09-19 00:43 G	19933042.46	19933042.53	19933042.62	0.0143	0.0133
Venus	49863-05-03 12:14 G	19933268.85	19933269.01	19933269.16	0.0144	0.0101
Venus	49863-12-15 23:17 G	19933495.29	19933495.47	19933495.67	0.0144	0.0069

Venus	49864-07-29 11:02 G	19933721.75	19933721.96	19933722.17	0.0144	0.0036
Venus	49865-03-12 22:34 G	19933948.22	19933948.44	19933948.66	0.0144	0.0004
Venus	49865-10-25 10:19 G	19934174.72	19934174.93	19934175.14	0.0144	0.0029
Venus	49866-06-08 21:50 G	19934401.22	19934401.41	19934401.62	0.0144	0.0063
Venus	49867-01-21 09:36 G	19934627.75	19934627.90	19934628.08	0.0145	0.0096
Venus	49867-09-04 21:22 G	19934854.31	19934854.39	19934854.51	0.0145	0.0129
Earth	49869-02-16 06:14 G	19935384.57	19935384.76	19935384.98	0.0145	0.0085
Moon	49869-02-16 10:05 G	19935384.72	19935384.92	19935385.15	0.0145	0.0078 *
Moon	49870-02-21 06:43 G	19935754.52	19935754.78	19935755.04	0.0145	0.0004
Earth	49870-02-21 10:05 G	19935754.67	19935754.92	19935755.18	0.0145	0.0003 *
Earth	49871-02-26 13:12 G	19936124.86	19936125.05	19936125.28	0.0145	0.0082
Moon	49871-02-26 16:48 G	19936125.00	19936125.20	19936125.42	0.0145	0.0079 *
Mercury	49893-11-16 10:05 G	19944423.82	19944423.92	19944424.05	0.0138	0.0113
Mercury	49894-02-12 18:14 G	19944512.11	19944512.26	19944512.43	0.0138	0.0082
Mercury	49894-05-12 02:10 G	19944600.42	19944600.59	19944600.79	0.0138	0.0053
Mercury	49894-08-08 10:34 G	19944688.74	19944688.94	19944689.13	0.0138	0.0021
Mercury	49894-11-04 18:29 G	19944777.08	19944777.27	19944777.47	0.0138	0.0009
Mercury	49895-02-01 02:24 G	19944865.42	19944865.60	19944865.80	0.0138	0.0039
Mercury	49895-04-30 10:19 G	19944953.77	19944953.93	19944954.11	0.0138	0.0069
Mercury	49895-07-27 18:29 G	19945042.14	19945042.27	19945042.41	0.0138	0.0099
Mercury	49895-10-24 02:10 G	19945130.54	19945130.59	19945130.67	0.0138	0.0129
Venus	49903-01-05 21:07 G	19947760.33	19947760.38	19947760.45	0.0135	0.0129
Venus	49903-08-20 03:07 G	19947986.51	19947986.63	19947986.78	0.0135	0.0103
Venus	49904-04-02 09:36 G	19948212.72	19948212.90	19948213.08	0.0135	0.0076
Venus	49904-11-14 15:22 G	19948438.95	19948439.14	19948439.35	0.0135	0.0050
Venus	49905-06-28 21:22 G	19948665.18	19948665.39	19948665.61	0.0134	0.0023
Venus	49906-02-10 03:22 G	19948891.42	19948891.64	19948891.86	0.0134	0.0004
Venus	49906-09-24 08:53 G	19949117.66	19949117.87	19949118.09	0.0134	0.0030
Venus	49907-05-08 14:38 G	19949343.92	19949344.11	19949344.31	0.0134	0.0056
Venus	49907-12-20 20:10 G	19949570.18	19949570.34	19949570.52	0.0134	0.0082

Venus	49908-08-03 01:41 G	19949796.46	19949796.57	19949796.71	0.0134	0.0108
Venus	49909-03-17 07:12 G	19950022.80	19950022.80	19950022.82	0.0134	0.0134
Moon	49909-08-15 11:02 G	19950173.91	19950173.96	19950174.05	0.0134	0.0128
Moon	49910-08-19 13:55 G	19950542.89	19950543.08	19950543.29	0.0134	0.0076
Earth	49910-08-19 15:07 G	19950542.93	19950543.13	19950543.35	0.0134	0.0071 *
Earth	49911-08-23 21:07 G	19950912.13	19950912.38	19950912.63	0.0133	0.0008
Moon	49911-08-23 23:02 G	19950912.20	19950912.46	19950912.72	0.0133	0.0007 *
Moon	49912-08-27 00:58 G	19951281.33	19951281.54	19951281.77	0.0133	0.0057
Earth	49912-08-27 02:38 G	19951281.38	19951281.61	19951281.84	0.0133	0.0056 *
Earth	49913-08-31 07:41 G	19951650.72	19951650.82	19951650.95	0.0133	0.0119
Moon	49913-08-31 09:22 G	19951650.78	19951650.89	19951651.05	0.0133	0.0115 *
Mercury	49937-05-10 03:50 G	19960303.65	19960303.66	19960303.70	0.0140	0.0136
Mercury	49937-08-06 07:12 G	19960391.74	19960391.80	19960391.88	0.0140	0.0115
Mercury	49937-11-02 10:34 G	19960479.85	19960479.94	19960480.04	0.0140	0.0094
Mercury	49938-01-29 13:41 G	19960567.97	19960568.07	19960568.19	0.0140	0.0074
Mercury	49938-04-27 17:02 G	19960656.10	19960656.21	19960656.34	0.0140	0.0053
Mercury	49938-07-24 20:24 G	19960744.23	19960744.35	19960744.48	0.0140	0.0032
Mercury	49938-10-20 23:46 G	19960832.36	19960832.49	19960832.62	0.0140	0.0011
Mercury	49939-01-17 03:07 G	19960920.50	19960920.63	19960920.76	0.0140	0.0011
Mercury	49939-04-15 06:14 G	19961008.63	19961008.76	19961008.89	0.0140	0.0031
Mercury	49939-07-12 09:36 G	19961096.78	19961096.90	19961097.02	0.0141	0.0052
Mercury	49939-10-08 12:43 G	19961184.92	19961185.03	19961185.15	0.0141	0.0073
Mercury	49940-01-04 16:05 G	19961273.08	19961273.17	19961273.27	0.0141	0.0094
Mercury	49940-04-01 19:26 G	19961361.24	19961361.31	19961361.38	0.0141	0.0115
Mercury	49940-06-28 22:34 G	19961449.42	19961449.44	19961449.48	0.0141	0.0136
Venus	49947-01-01 21:07 G	19963827.25	19963827.38	19963827.52	0.0143	0.0113
Venus	49947-08-16 08:24 G	19964053.68	19964053.85	19964054.03	0.0144	0.0081
Venus	49948-03-29 19:41 G	19964280.12	19964280.32	19964280.53	0.0144	0.0049
Venus	49948-11-11 07:26 G	19964506.60	19964506.81	19964507.03	0.0144	0.0016
Venus	49949-06-25 19:12 G	19964733.08	19964733.30	19964733.51	0.0144	0.0017

Venus	49950-02-07 06:43 G	19964959.58	19964959.78	19964959.99	0.0144	0.0050
Venus	49950-09-21 18:14 G	19965186.10	19965186.26	19965186.45	0.0144	0.0084
Venus	49951-05-06 06:14 G	19965412.65	19965412.76	19965412.90	0.0144	0.0116
Earth	49953-02-17 20:24 G	19966066.14	19966066.35	19966066.57	0.0145	0.0078
Moon	49953-02-17 23:46 G	19966066.30	19966066.49	19966066.72	0.0145	0.0084 *
Moon	49954-02-22 20:10 G	19966436.09	19966436.34	19966436.60	0.0145	0.0009
Earth	49954-02-23 00:00 G	19966436.25	19966436.50	19966436.76	0.0145	0.0005 *
Earth	49955-02-28 03:07 G	19966806.44	19966806.63	19966806.84	0.0145	0.0088
Moon	49955-02-28 06:29 G	19966806.58	19966806.77	19966806.97	0.0145	0.0090 *
Mercury	49977-09-10 10:19 G	19975036.88	19975036.93	19975036.99	0.0138	0.0132
Mercury	49977-12-07 18:14 G	19975125.14	19975125.26	19975125.40	0.0138	0.0102
Mercury	49978-03-06 02:24 G	19975213.44	19975213.60	19975213.77	0.0138	0.0071
Mercury	49978-06-02 10:19 G	19975301.75	19975301.93	19975302.13	0.0138	0.0041
Mercury	49978-08-29 18:29 G	19975390.08	19975390.27	19975390.47	0.0138	0.0011
Mercury	49978-11-26 02:24 G	19975478.41	19975478.60	19975478.80	0.0138	0.0020
Mercury	49979-02-22 10:19 G	19975566.76	19975566.93	19975567.13	0.0138	0.0050
Mercury	49979-05-21 18:14 G	19975655.11	19975655.26	19975655.44	0.0138	0.0080
Mercury	49979-08-18 02:10 G	19975743.49	19975743.59	19975743.73	0.0138	0.0110
Venus	49987-04-19 14:10 G	19978544.99	19978545.09	19978545.23	0.0135	0.0113
Venus	49987-12-01 20:38 G	19978771.20	19978771.36	19978771.53	0.0135	0.0086
Venus	49988-07-15 02:38 G	19978997.42	19978997.61	19978997.81	0.0135	0.0059
Venus	49989-02-26 08:38 G	19979223.66	19979223.86	19979224.08	0.0135	0.0033
Venus	49989-10-10 14:38 G	19979449.89	19979450.11	19979450.33	0.0134	0.0006
Venus	49990-05-24 20:38 G	19979676.15	19979676.36	19979676.58	0.0134	0.0020
Venus	49991-01-06 02:10 G	19979902.40	19979902.59	19979902.81	0.0134	0.0047
Venus	49991-08-20 07:55 G	19980128.66	19980128.83	19980129.02	0.0134	0.0073
Venus	49992-04-02 13:26 G	19980354.93	19980355.06	19980355.22	0.0134	0.0099
Venus	49992-11-14 18:58 G	19980581.23	19980581.29	19980581.38	0.0134	0.0125
Earth	49993-08-15 23:02 G	19980855.41	19980855.46	19980855.55	0.0134	0.0128
Moon	49993-08-16 00:00 G	19980855.50	19980855.50	19980855.53	0.0134	0.0133 *

Moon	49994-08-20 03:50 G	19981224.45	19981224.66	19981224.89	0.0134	0.0061	
Earth	49994-08-20 05:02 G	19981224.51	19981224.71	19981224.95	0.0134	0.0065	*
Earth	49995-08-24 11:02 G	19981593.71	19981593.96	19981594.22	0.0133	0.0002	
Moon	49995-08-24 12:00 G	19981593.74	19981594.00	19981594.26	0.0133	0.0004	*
Moon	49996-08-27 15:07 G	19981962.93	19981963.13	19981963.36	0.0133	0.0061	
Earth	49996-08-27 16:19 G	19981962.98	19981963.18	19981963.42	0.0133	0.0063	*
Earth	49997-08-31 21:50 G	19982332.34	19982332.41	19982332.51	0.0133	0.0125	
Moon	49997-08-31 23:02 G	19982332.41	19982332.46	19982332.55	0.0133	0.0128	*

51ST MILLENNIUM CE

This is a list of transits visible from Uranus in the 51st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	50012-02-19 05:31 G	19987616.43	19987616.73	19987617.04	0.0136	0.0010		
Mercury	50021-05-30 12:00 G	19991004.95	19991005.00	19991005.05	0.0140	0.0127		
Mercury	50021-08-26 15:07 G	19991093.06	19991093.13	19991093.22	0.0140	0.0107		
Mercury	50021-11-22 18:29 G	19991181.17	19991181.27	19991181.38	0.0140	0.0086		
Mercury	50022-02-18 21:50 G	19991269.30	19991269.41	19991269.53	0.0140	0.0065		
Mercury	50022-05-18 00:58 G	19991357.42	19991357.54	19991357.67	0.0140	0.0045		
Mercury	50022-08-14 04:19 G	19991445.55	19991445.68	19991445.81	0.0140	0.0024		
Mercury	50022-11-10 07:41 G	19991533.69	19991533.82	19991533.95	0.0140	0.0003		
Mercury	50023-02-06 10:48 G	19991621.83	19991621.95	19991622.08	0.0140	0.0019		
Mercury	50023-05-05 14:10 G	19991709.97	19991710.09	19991710.22	0.0140	0.0039		
Mercury	50023-08-01 17:17 G	19991798.11	19991798.22	19991798.34	0.0141	0.0061		

Mercury	50023-10-28 20:38 G	19991886.26	19991886.36	19991886.47	0.0141	0.0081
Mercury	50024-01-25 00:00 G	19991974.41	19991974.50	19991974.59	0.0141	0.0102
Mercury	50024-04-22 03:22 G	19992062.58	19992062.64	19992062.70	0.0141	0.0123
Venus	50030-09-01 05:46 G	19994385.65	19994385.74	19994385.86	0.0143	0.0125
Venus	50031-04-15 17:02 G	19994612.05	19994612.21	19994612.38	0.0143	0.0093
Venus	50031-11-28 04:34 G	19994838.50	19994838.69	19994838.89	0.0144	0.0061
Venus	50032-07-11 16:05 G	19995064.96	19995065.17	19995065.39	0.0144	0.0028
Venus	50033-02-23 03:36 G	19995291.43	19995291.65	19995291.87	0.0144	0.0005
Venus	50033-10-07 15:07 G	19995517.93	19995518.13	19995518.35	0.0144	0.0038
Venus	50034-05-22 02:53 G	19995744.44	19995744.62	19995744.82	0.0144	0.0071
Venus	50035-01-03 14:38 G	19995970.98	19995971.11	19995971.28	0.0144	0.0105
Venus	50035-08-18 02:53 G	19996197.56	19996197.62	19996197.69	0.0144	0.0137
Earth	50037-02-18 09:50 G	19996747.69	19996747.91	19996748.13	0.0145	0.0071
Moon	50037-02-18 13:12 G	19996747.83	19996748.05	19996748.29	0.0145	0.0064 *
Moon	50038-02-23 09:36 G	19997117.65	19997117.90	19997118.16	0.0145	0.0009
Earth	50038-02-23 13:12 G	19997117.80	19997118.05	19997118.31	0.0145	0.0012 *
Earth	50039-02-28 16:05 G	19997488.00	19997488.17	19997488.38	0.0145	0.0095
Moon	50039-02-28 20:10 G	19997488.15	19997488.34	19997488.54	0.0145	0.0093 *
Mars	50052-06-19 04:48 G	20002347.41	20002347.70	20002348.00	0.0142	0.0043
Mercury	50061-09-30 18:14 G	20005738.18	20005738.26	20005738.37	0.0138	0.0122
Mercury	50061-12-28 02:38 G	20005826.46	20005826.61	20005826.76	0.0138	0.0091
Mercury	50062-03-26 10:34 G	20005914.77	20005914.94	20005915.12	0.0138	0.0061
Mercury	50062-06-22 18:43 G	20006003.09	20006003.28	20006003.47	0.0138	0.0030
Mercury	50062-09-19 02:38 G	20006091.42	20006091.61	20006091.81	0.0138	0.0003
Mercury	50062-12-16 10:48 G	20006179.76	20006179.95	20006180.14	0.0138	0.0030
Mercury	50063-03-14 18:29 G	20006268.11	20006268.27	20006268.46	0.0138	0.0061
Mercury	50063-06-11 02:24 G	20006356.47	20006356.60	20006356.76	0.0138	0.0091
Mercury	50063-09-07 10:19 G	20006444.86	20006444.93	20006445.04	0.0138	0.0121
Venus	50070-12-18 01:41 G	20009103.49	20009103.57	20009103.68	0.0135	0.0122
Venus	50071-08-01 08:10 G	20009329.69	20009329.84	20009330.00	0.0135	0.0095

Venus	50072-03-14 14:10 G	20009555.91	20009556.09	20009556.29	0.0135	0.0069
Venus	50072-10-26 20:24 G	20009782.14	20009782.35	20009782.56	0.0135	0.0042
Venus	50073-06-10 02:24 G	20010008.39	20010008.60	20010008.82	0.0134	0.0015
Venus	50074-01-22 08:24 G	20010234.63	20010234.85	20010235.07	0.0134	0.0012
Venus	50074-09-05 14:10 G	20010460.88	20010461.09	20010461.30	0.0134	0.0038
Venus	50075-04-19 19:55 G	20010687.15	20010687.33	20010687.53	0.0134	0.0064
Venus	50075-12-02 01:26 G	20010913.42	20010913.56	20010913.73	0.0134	0.0091
Venus	50076-07-15 06:58 G	20011139.71	20011139.79	20011139.92	0.0134	0.0117
Earth	50077-08-16 13:12 G	20011536.97	20011537.05	20011537.18	0.0134	0.0122
Moon	50077-08-16 13:41 G	20011536.97	20011537.07	20011537.23	0.0134	0.0115 *
Earth	50078-08-20 19:26 G	20011906.09	20011906.31	20011906.54	0.0134	0.0058
Moon	50078-08-20 19:12 G	20011906.10	20011906.30	20011906.52	0.0134	0.0064 *
Earth	50079-08-25 01:26 G	20012275.31	20012275.56	20012275.81	0.0134	0.0005
Moon	50079-08-25 02:10 G	20012275.33	20012275.59	20012275.86	0.0134	0.0007 *
Moon	50080-08-28 06:14 G	20012644.56	20012644.76	20012644.98	0.0133	0.0069
Earth	50080-08-28 06:43 G	20012644.58	20012644.78	20012645.01	0.0133	0.0069 *
Earth	50081-09-01 12:14 G	20013013.97	20013014.01	20013014.06	0.0133	0.0131
Moon	50081-09-01 12:43 G	20013013.97	20013014.03	20013014.12	0.0133	0.0128 *
Mercury	50105-03-24 16:48 G	20021618.19	20021618.20	20021618.21	0.0140	0.0139
Mercury	50105-06-20 19:55 G	20021706.27	20021706.33	20021706.40	0.0140	0.0118
Mercury	50105-09-16 23:17 G	20021794.38	20021794.47	20021794.57	0.0140	0.0098
Mercury	50105-12-14 02:38 G	20021882.50	20021882.61	20021882.72	0.0140	0.0077
Mercury	50106-03-12 05:46 G	20021970.63	20021970.74	20021970.86	0.0140	0.0056
Mercury	50106-06-08 09:07 G	20022058.75	20022058.88	20022059.01	0.0140	0.0035
Mercury	50106-09-04 12:29 G	20022146.89	20022147.02	20022147.15	0.0140	0.0015
Mercury	50106-12-01 15:36 G	20022235.02	20022235.15	20022235.28	0.0140	0.0007
Mercury	50107-02-27 18:58 G	20022323.16	20022323.29	20022323.42	0.0140	0.0027
Mercury	50107-05-26 22:05 G	20022411.30	20022411.42	20022411.55	0.0141	0.0048
Mercury	50107-08-23 01:26 G	20022499.45	20022499.56	20022499.67	0.0141	0.0069
Mercury	50107-11-19 04:34 G	20022587.60	20022587.69	20022587.80	0.0141	0.0091

Mercury	50108-02-15 07:41 G	20022675.76	20022675.82	20022675.91	0.0141	0.0112
Mercury	50108-05-13 11:17 G	20022763.93	20022763.97	20022764.01	0.0141	0.0132
Venus	50114-05-02 15:50 G	20024944.10	20024944.16	20024944.24	0.0143	0.0136
Venus	50114-12-15 03:07 G	20025170.49	20025170.63	20025170.78	0.0143	0.0104
Venus	50115-07-29 14:24 G	20025396.92	20025397.10	20025397.29	0.0144	0.0072
Venus	50116-03-12 01:55 G	20025623.37	20025623.58	20025623.79	0.0144	0.0039
Venus	50116-10-24 13:26 G	20025849.85	20025850.06	20025850.28	0.0144	0.0007
Venus	50117-06-08 00:58 G	20026076.34	20026076.54	20026076.76	0.0144	0.0027
Venus	50118-01-20 12:43 G	20026302.84	20026303.03	20026303.24	0.0144	0.0060
Venus	50118-09-04 00:43 G	20026529.37	20026529.53	20026529.70	0.0144	0.0093
Venus	50119-04-18 12:29 G	20026755.92	20026756.02	20026756.13	0.0144	0.0126
Moon	50120-02-15 19:26 G	20027059.25	20027059.31	20027059.40	0.0145	0.0138
Earth	50121-02-20 01:12 G	20027429.34	20027429.55	20027429.80	0.0145	0.0063
Moon	50121-02-20 04:48 G	20027429.48	20027429.70	20027429.94	0.0145	0.0069 *
Moon	50122-02-25 01:12 G	20027799.30	20027799.55	20027799.81	0.0145	0.0025
Earth	50122-02-25 05:02 G	20027799.45	20027799.71	20027799.96	0.0145	0.0020 *
Earth	50123-03-02 07:41 G	20028169.66	20028169.82	20028170.02	0.0145	0.0103
Moon	50123-03-02 11:17 G	20028169.81	20028169.97	20028170.16	0.0145	0.0104 *
Mercury	50145-07-25 19:26 G	20036351.30	20036351.31	20036351.33	0.0138	0.0138
Mercury	50145-10-22 03:22 G	20036439.53	20036439.64	20036439.77	0.0138	0.0108
Mercury	50146-01-18 11:17 G	20036527.82	20036527.97	20036528.15	0.0138	0.0078
Mercury	50146-04-16 19:26 G	20036616.13	20036616.31	20036616.50	0.0138	0.0047
Mercury	50146-07-14 03:36 G	20036704.46	20036704.65	20036704.85	0.0138	0.0017
Mercury	50146-10-10 11:46 G	20036792.79	20036792.99	20036793.18	0.0138	0.0014
Mercury	50147-01-06 19:41 G	20036881.14	20036881.32	20036881.51	0.0138	0.0044
Mercury	50147-04-05 03:36 G	20036969.49	20036969.65	20036969.82	0.0138	0.0074
Mercury	50147-07-02 11:31 G	20037057.86	20037057.98	20037058.12	0.0138	0.0104
Mercury	50147-09-28 19:26 G	20037146.28	20037146.31	20037146.37	0.0138	0.0134
Venus	50154-08-18 14:10 G	20039662.03	20039662.09	20039662.14	0.0135	0.0131
Venus	50155-04-01 20:10 G	20039888.21	20039888.34	20039888.49	0.0135	0.0104

Venus	50155-11-14 02:38 G	20040114.43	20040114.61	20040114.79	0.0135	0.0077
Venus	50156-06-27 08:38 G	20040340.66	20040340.86	20040341.07	0.0135	0.0050
Venus	50157-02-08 14:38 G	20040566.90	20040567.11	20040567.33	0.0134	0.0024
Venus	50157-09-22 20:38 G	20040793.15	20040793.36	20040793.58	0.0134	0.0004
Venus	50158-05-07 02:38 G	20041019.40	20041019.61	20041019.83	0.0134	0.0030
Venus	50158-12-19 08:24 G	20041245.66	20041245.85	20041246.05	0.0134	0.0056
Venus	50159-08-02 14:10 G	20041471.93	20041472.09	20041472.27	0.0134	0.0082
Venus	50160-03-15 19:55 G	20041698.21	20041698.33	20041698.46	0.0134	0.0108
Moon	50161-08-18 03:36 G	20042218.56	20042218.65	20042218.78	0.0134	0.0121
Earth	50161-08-18 04:05 G	20042218.56	20042218.67	20042218.82	0.0134	0.0115 *
Moon	50162-08-22 10:05 G	20042587.69	20042587.92	20042588.15	0.0134	0.0047
Earth	50162-08-22 10:05 G	20042587.70	20042587.92	20042588.16	0.0134	0.0052 *
Moon	50163-08-26 15:36 G	20042956.89	20042957.15	20042957.41	0.0133	0.0008
Earth	50163-08-26 16:05 G	20042956.92	20042957.17	20042957.42	0.0133	0.0012 *
Earth	50164-08-29 21:22 G	20043326.18	20043326.39	20043326.60	0.0133	0.0075
Moon	50164-08-29 20:53 G	20043326.19	20043326.37	20043326.59	0.0133	0.0075 *
Mars	50179-07-09 20:53 G	20048753.20	20048753.37	20048753.60	0.0136	0.0105
Mercury	50189-04-14 00:14 G	20052319.48	20052319.51	20052319.57	0.0140	0.0132
Mercury	50189-07-11 03:36 G	20052407.58	20052407.65	20052407.74	0.0140	0.0111
Mercury	50189-10-07 06:58 G	20052495.70	20052495.79	20052495.89	0.0140	0.0090
Mercury	50190-01-03 10:19 G	20052583.82	20052583.93	20052584.04	0.0140	0.0069
Mercury	50190-04-01 13:26 G	20052671.94	20052672.06	20052672.19	0.0140	0.0049
Mercury	50190-06-28 16:48 G	20052760.07	20052760.20	20052760.33	0.0140	0.0028
Mercury	50190-09-24 20:10 G	20052848.21	20052848.34	20052848.47	0.0140	0.0007
Mercury	50190-12-21 23:17 G	20052936.35	20052936.47	20052936.60	0.0140	0.0015
Mercury	50191-03-20 02:38 G	20053024.48	20053024.61	20053024.74	0.0140	0.0035
Mercury	50191-06-16 05:46 G	20053112.63	20053112.74	20053112.87	0.0141	0.0056
Mercury	50191-09-12 09:07 G	20053200.77	20053200.88	20053200.99	0.0141	0.0077
Mercury	50191-12-09 12:14 G	20053288.93	20053289.01	20053289.11	0.0141	0.0098
Mercury	50192-03-06 15:36 G	20053377.09	20053377.15	20053377.22	0.0141	0.0119

Mercury	50192-06-02 18:43 G	20053465.28	20053465.28	20053465.31	0.0141	0.0140
Venus	50198-08-14 11:17 G	20055728.85	20055728.97	20055729.10	0.0143	0.0116
Venus	50199-03-28 22:34 G	20055955.27	20055955.44	20055955.62	0.0143	0.0084
Venus	50199-11-10 09:50 G	20056181.72	20056181.91	20056182.13	0.0144	0.0052
Venus	50200-06-24 21:36 G	20056408.19	20056408.40	20056408.62	0.0144	0.0019
Venus	50201-02-06 09:07 G	20056634.67	20056634.88	20056635.10	0.0144	0.0015
Venus	50201-09-20 20:53 G	20056861.16	20056861.37	20056861.57	0.0144	0.0047
Venus	50202-05-05 08:38 G	20057087.68	20057087.86	20057088.04	0.0144	0.0081
Venus	50202-12-17 20:24 G	20057314.23	20057314.35	20057314.49	0.0144	0.0114
Earth	50204-02-17 11:02 G	20057740.89	20057740.96	20057741.02	0.0145	0.0139
Earth	50205-02-21 13:41 G	20058110.85	20058111.07	20058111.32	0.0145	0.0058
Moon	50205-02-21 16:48 G	20058110.96	20058111.20	20058111.45	0.0145	0.0050 *
Moon	50206-02-26 13:41 G	20058480.83	20058481.07	20058481.33	0.0145	0.0022
Earth	50206-02-26 17:02 G	20058480.96	20058481.21	20058481.47	0.0145	0.0026 *
Earth	50207-03-03 19:55 G	20058851.18	20058851.33	20058851.51	0.0145	0.0108
Moon	50207-03-03 23:46 G	20058851.33	20058851.49	20058851.68	0.0145	0.0108 *
Mars	50219-11-08 09:50 G	20063483.66	20063483.91	20063484.19	0.0143	0.0072
Mercury	50229-08-16 03:50 G	20067052.59	20067052.66	20067052.75	0.0139	0.0126
Mercury	50229-11-12 12:00 G	20067140.87	20067141.00	20067141.15	0.0138	0.0095
Mercury	50230-02-08 19:55 G	20067229.17	20067229.33	20067229.51	0.0138	0.0065
Mercury	50230-05-08 04:05 G	20067317.49	20067317.67	20067317.87	0.0138	0.0035
Mercury	50230-08-04 12:14 G	20067405.81	20067406.01	20067406.21	0.0138	0.0004
Mercury	50230-10-31 20:10 G	20067494.15	20067494.34	20067494.54	0.0138	0.0026
Mercury	50231-01-28 04:05 G	20067582.50	20067582.67	20067582.86	0.0138	0.0056
Mercury	50231-04-26 12:14 G	20067670.86	20067671.01	20067671.17	0.0138	0.0086
Mercury	50231-07-23 20:10 G	20067759.24	20067759.34	20067759.45	0.0138	0.0116
Venus	50238-12-01 08:10 G	20070446.73	20070446.84	20070446.97	0.0135	0.0113
Venus	50239-07-15 14:10 G	20070672.94	20070673.09	20070673.28	0.0135	0.0086
Venus	50240-02-26 20:38 G	20070899.17	20070899.36	20070899.56	0.0135	0.0059
Venus	50240-10-10 02:53 G	20071125.41	20071125.62	20071125.83	0.0135	0.0032

Venus	50241-05-24 09:07 G	20071351.66	20071351.88	20071352.09	0.0134	0.0006
Venus	50242-01-05 14:53 G	20071577.91	20071578.12	20071578.34	0.0134	0.0022
Venus	50242-08-19 20:38 G	20071804.16	20071804.36	20071804.57	0.0134	0.0048
Venus	50243-04-03 02:24 G	20072030.43	20072030.60	20072030.79	0.0134	0.0074
Venus	50243-11-15 08:24 G	20072256.71	20072256.85	20072256.99	0.0134	0.0100
Venus	50244-06-28 14:10 G	20072483.02	20072483.09	20072483.16	0.0134	0.0126
Moon	50245-08-19 18:00 G	20072900.10	20072900.25	20072900.44	0.0134	0.0102
Earth	50245-08-19 18:43 G	20072900.15	20072900.28	20072900.44	0.0134	0.0109 *
Earth	50246-08-24 00:29 G	20073269.30	20073269.52	20073269.77	0.0134	0.0046
Moon	50246-08-24 01:26 G	20073269.35	20073269.56	20073269.80	0.0134	0.0052 *
Moon	50247-08-28 06:00 G	20073638.49	20073638.75	20073639.01	0.0133	0.0021
Earth	50247-08-28 06:29 G	20073638.52	20073638.77	20073639.02	0.0133	0.0018 *
Earth	50248-08-31 11:31 G	20074007.79	20074007.98	20074008.19	0.0133	0.0081
Moon	50248-08-31 12:14 G	20074007.82	20074008.01	20074008.21	0.0133	0.0080 *
Jupiter	50256-10-08 03:07 G	20076967.26	20076967.63	20076968.01	0.0134	0.0088
Mars	50264-03-04 23:46 G	20079672.23	20079672.49	20079672.76	0.0136	0.0069
Mercury	50273-05-05 07:55 G	20083020.78	20083020.83	20083020.90	0.0140	0.0125
Mercury	50273-08-01 11:17 G	20083108.89	20083108.97	20083109.06	0.0140	0.0104
Mercury	50273-10-28 14:38 G	20083197.01	20083197.11	20083197.22	0.0140	0.0083
Mercury	50274-01-24 17:46 G	20083285.13	20083285.24	20083285.36	0.0140	0.0063
Mercury	50274-04-22 21:07 G	20083373.26	20083373.38	20083373.51	0.0140	0.0042
Mercury	50274-07-20 00:29 G	20083461.39	20083461.52	20083461.65	0.0140	0.0021
Mercury	50274-10-16 03:36 G	20083549.52	20083549.65	20083549.78	0.0140	0.0004
Mercury	50275-01-12 06:58 G	20083637.66	20083637.79	20083637.92	0.0140	0.0021
Mercury	50275-04-10 10:19 G	20083725.80	20083725.93	20083726.05	0.0140	0.0042
Mercury	50275-07-07 13:26 G	20083813.95	20083814.06	20083814.18	0.0141	0.0062
Mercury	50275-10-03 16:34 G	20083902.09	20083902.19	20083902.30	0.0141	0.0084
Mercury	50275-12-30 19:55 G	20083990.25	20083990.33	20083990.42	0.0141	0.0104
Mercury	50276-03-27 23:17 G	20084078.41	20084078.47	20084078.53	0.0141	0.0125
Venus	50282-04-14 19:12 G	20086287.21	20086287.30	20086287.40	0.0143	0.0128

Venus	50282-11-27 06:29 G	20086513.61	20086513.77	20086513.94	0.0143	0.0096
Venus	50283-07-11 17:46 G	20086740.05	20086740.24	20086740.44	0.0144	0.0064
Venus	50284-02-23 05:17 G	20086966.51	20086966.72	20086966.93	0.0144	0.0031
Venus	50284-10-06 16:48 G	20087192.98	20087193.20	20087193.42	0.0144	0.0002
Venus	50285-05-21 04:19 G	20087419.47	20087419.68	20087419.90	0.0144	0.0035
Venus	50286-01-02 16:05 G	20087645.98	20087646.17	20087646.37	0.0144	0.0068
Venus	50286-08-17 03:36 G	20087872.51	20087872.65	20087872.82	0.0144	0.0102
Venus	50287-03-31 15:22 G	20088099.08	20088099.14	20088099.24	0.0144	0.0135
Moon	50288-02-17 20:38 G	20088422.26	20088422.36	20088422.48	0.0145	0.0128
Earth	50288-02-17 22:05 G	20088422.35	20088422.42	20088422.53	0.0145	0.0135 *
Earth	50289-02-22 01:26 G	20088792.33	20088792.56	20088792.80	0.0145	0.0052
Moon	50289-02-22 04:05 G	20088792.44	20088792.67	20088792.92	0.0145	0.0059 *
Moon	50290-02-27 01:26 G	20089162.33	20089162.56	20089162.81	0.0145	0.0036
Earth	50290-02-27 04:48 G	20089162.45	20089162.70	20089162.95	0.0145	0.0030 *
Earth	50291-03-04 07:26 G	20089532.67	20089532.81	20089532.98	0.0145	0.0113
Moon	50291-03-04 10:34 G	20089532.80	20089532.94	20089533.12	0.0145	0.0113 *
Jupiter	50298-05-24 09:22 G	20092170.43	20092170.89	20092171.40	0.0144	0.0063
Mars	50304-07-05 01:41 G	20094403.45	20094403.57	20094403.72	0.0142	0.0128
Mercury	50313-09-06 12:29 G	20097753.91	20097754.02	20097754.13	0.0139	0.0114
Mercury	50313-12-03 20:24 G	20097842.20	20097842.35	20097842.51	0.0138	0.0084
Mercury	50314-03-02 04:19 G	20097930.51	20097930.68	20097930.87	0.0138	0.0054
Mercury	50314-05-29 12:29 G	20098018.83	20098019.02	20098019.22	0.0138	0.0023
Mercury	50314-08-25 20:38 G	20098107.16	20098107.36	20098107.56	0.0138	0.0007
Mercury	50314-11-22 04:34 G	20098195.51	20098195.69	20098195.89	0.0138	0.0038
Mercury	50315-02-18 12:29 G	20098283.86	20098284.02	20098284.20	0.0138	0.0068
Mercury	50315-05-17 20:24 G	20098372.23	20098372.35	20098372.50	0.0138	0.0098
Mercury	50315-08-14 04:19 G	20098460.63	20098460.68	20098460.77	0.0138	0.0128
Venus	50322-08-01 19:55 G	20101005.24	20101005.33	20101005.43	0.0135	0.0121
Venus	50323-03-16 02:24 G	20101231.45	20101231.60	20101231.76	0.0135	0.0094
Venus	50323-10-28 08:24 G	20101457.68	20101457.85	20101458.05	0.0135	0.0068

Venus	50324-06-10 14:53 G	20101683.92	20101684.12	20101684.33	0.0135	0.0041
Venus	50325-01-22 21:07 G	20101910.16	20101910.38	20101910.60	0.0135	0.0014
Venus	50325-09-06 03:07 G	20102136.41	20102136.63	20102136.85	0.0134	0.0013
Venus	50326-04-20 08:53 G	20102362.67	20102362.87	20102363.09	0.0134	0.0040
Venus	50326-12-02 14:53 G	20102588.93	20102589.12	20102589.31	0.0134	0.0066
Venus	50327-07-16 20:24 G	20102815.21	20102815.35	20102815.52	0.0134	0.0093
Venus	50328-02-28 01:55 G	20103041.50	20103041.58	20103041.70	0.0134	0.0119
Moon	50329-08-21 07:26 G	20103581.68	20103581.81	20103581.98	0.0134	0.0109
Earth	50329-08-21 08:53 G	20103581.73	20103581.87	20103582.05	0.0134	0.0103 *
Earth	50330-08-25 14:53 G	20103950.89	20103951.12	20103951.37	0.0134	0.0040
Moon	50330-08-25 16:05 G	20103950.93	20103951.17	20103951.40	0.0134	0.0034 *
Moon	50331-08-29 19:12 G	20104320.04	20104320.30	20104320.55	0.0134	0.0019
Earth	50331-08-29 20:38 G	20104320.11	20104320.36	20104320.61	0.0134	0.0024 *
Earth	50332-09-02 01:26 G	20104689.39	20104689.56	20104689.77	0.0133	0.0087
Moon	50332-09-02 02:38 G	20104689.44	20104689.61	20104689.80	0.0133	0.0088 *
Mercury	50357-02-27 12:14 G	20113634.01	20113634.01	20113634.03	0.0139	0.0138
Mercury	50357-05-26 15:36 G	20113722.09	20113722.15	20113722.22	0.0139	0.0118
Mercury	50357-08-22 18:43 G	20113810.20	20113810.28	20113810.38	0.0140	0.0098
Mercury	50357-11-18 22:05 G	20113898.32	20113898.42	20113898.53	0.0140	0.0077
Mercury	50358-02-15 01:26 G	20113986.44	20113986.56	20113986.68	0.0140	0.0056
Mercury	50358-05-14 04:34 G	20114074.57	20114074.69	20114074.82	0.0140	0.0036
Mercury	50358-08-10 07:55 G	20114162.70	20114162.83	20114162.96	0.0140	0.0015
Mercury	50358-11-06 11:17 G	20114250.84	20114250.97	20114251.10	0.0140	0.0007
Mercury	50359-02-02 14:24 G	20114338.97	20114339.10	20114339.23	0.0140	0.0027
Mercury	50359-05-01 17:46 G	20114427.11	20114427.24	20114427.36	0.0140	0.0048
Mercury	50359-07-28 20:53 G	20114515.26	20114515.37	20114515.49	0.0140	0.0069
Mercury	50359-10-25 00:00 G	20114603.41	20114603.50	20114603.61	0.0141	0.0090
Mercury	50360-01-21 03:22 G	20114691.57	20114691.64	20114691.72	0.0141	0.0110
Mercury	50360-04-18 06:43 G	20114779.74	20114779.78	20114779.83	0.0141	0.0131
Venus	50365-12-14 02:10 G	20116845.56	20116845.59	20116845.64	0.0143	0.0140

Venus	50366-07-28 13:26 G	20117071.92	20117072.06	20117072.20	0.0143	0.0108
Venus	50367-03-12 00:29 G	20117298.34	20117298.52	20117298.71	0.0143	0.0076
Venus	50367-10-24 12:00 G	20117524.79	20117525.00	20117525.20	0.0143	0.0044
Venus	50368-06-06 23:17 G	20117751.25	20117751.47	20117751.69	0.0144	0.0011
Venus	50369-01-19 10:48 G	20117977.73	20117977.95	20117978.16	0.0144	0.0022
Venus	50369-09-02 22:05 G	20118204.23	20118204.42	20118204.63	0.0144	0.0055
Venus	50370-04-17 09:36 G	20118430.74	20118430.90	20118431.09	0.0144	0.0088
Venus	50370-11-29 21:50 G	20118657.29	20118657.41	20118657.53	0.0144	0.0121
Moon	50372-02-19 05:31 G	20119103.68	20119103.73	20119103.81	0.0145	0.0139
Earth	50372-02-19 06:58 G	20119103.70	20119103.79	20119103.91	0.0145	0.0132 *
Earth	50373-02-23 10:05 G	20119473.68	20119473.92	20119474.16	0.0145	0.0050
Moon	50373-02-23 12:00 G	20119473.75	20119474.00	20119474.26	0.0145	0.0042 *
Moon	50374-02-28 10:19 G	20119843.69	20119843.93	20119844.18	0.0145	0.0028
Earth	50374-02-28 12:43 G	20119843.79	20119844.03	20119844.29	0.0145	0.0033 *
Earth	50375-03-05 15:36 G	20120214.01	20120214.15	20120214.32	0.0145	0.0115
Moon	50375-03-05 18:58 G	20120214.15	20120214.29	20120214.46	0.0145	0.0116 *
Mercury	50397-06-30 11:02 G	20128366.96	20128366.96	20128367.00	0.0139	0.0138
Mercury	50397-09-26 19:12 G	20128455.19	20128455.30	20128455.44	0.0139	0.0107
Mercury	50397-12-24 03:22 G	20128543.49	20128543.64	20128543.81	0.0139	0.0077
Mercury	50398-03-22 11:31 G	20128631.80	20128631.98	20128632.17	0.0138	0.0046
Mercury	50398-06-18 19:41 G	20128720.12	20128720.32	20128720.51	0.0138	0.0016
Mercury	50398-09-15 03:36 G	20128808.46	20128808.65	20128808.85	0.0138	0.0015
Mercury	50398-12-12 11:46 G	20128896.80	20128896.99	20128897.18	0.0138	0.0045
Mercury	50399-03-10 19:26 G	20128985.16	20128985.31	20128985.49	0.0138	0.0075
Mercury	50399-06-07 03:36 G	20129073.53	20129073.65	20129073.78	0.0138	0.0105
Mercury	50399-09-03 11:31 G	20129161.95	20129161.98	20129162.03	0.0138	0.0135
Venus	50406-04-01 06:00 G	20131563.71	20131563.75	20131563.81	0.0135	0.0132
Venus	50406-11-13 12:29 G	20131789.89	20131790.02	20131790.17	0.0135	0.0105
Venus	50407-06-27 18:58 G	20132016.12	20132016.29	20132016.48	0.0135	0.0078
Venus	50408-02-09 01:26 G	20132242.36	20132242.56	20132242.76	0.0135	0.0050

Venus	50408-09-22 07:26 G	20132468.61	20132468.81	20132469.03	0.0135	0.0024
Venus	50409-05-06 13:55 G	20132694.86	20132695.08	20132695.30	0.0135	0.0004
Venus	50409-12-18 19:55 G	20132921.12	20132921.33	20132921.54	0.0134	0.0031
Venus	50410-08-02 01:41 G	20133147.38	20133147.57	20133147.78	0.0134	0.0057
Venus	50411-03-16 07:41 G	20133373.65	20133373.82	20133373.99	0.0134	0.0084
Venus	50411-10-28 12:58 G	20133599.94	20133600.04	20133600.18	0.0134	0.0111
Moon	50413-08-21 19:55 G	20134263.16	20134263.33	20134263.54	0.0134	0.0091
Earth	50413-08-21 21:50 G	20134263.25	20134263.41	20134263.59	0.0134	0.0098 *
Earth	50414-08-26 03:36 G	20134632.42	20134632.65	20134632.90	0.0134	0.0035
Moon	50414-08-26 05:31 G	20134632.51	20134632.73	20134632.98	0.0134	0.0042 *
Moon	50415-08-30 07:26 G	20135001.57	20135001.81	20135002.08	0.0134	0.0033
Earth	50415-08-30 09:07 G	20135001.64	20135001.88	20135002.14	0.0134	0.0029 *
Earth	50416-09-02 14:38 G	20135370.93	20135371.11	20135371.30	0.0134	0.0091
Moon	50416-09-02 16:05 G	20135371.01	20135371.17	20135371.37	0.0134	0.0090 *
Mars	50431-07-24 12:43 G	20140808.74	20140809.03	20140809.34	0.0136	0.0031
Saturn	50433-11-04 21:36 G	20141642.85	20141643.40	20141644.01	0.0136	0.0030
Mercury	50441-03-19 19:55 G	20144335.30	20144335.33	20144335.38	0.0139	0.0131
Mercury	50441-06-15 23:17 G	20144423.40	20144423.47	20144423.55	0.0139	0.0111
Mercury	50441-09-12 02:24 G	20144511.51	20144511.60	20144511.71	0.0140	0.0090
Mercury	50441-12-09 05:46 G	20144599.63	20144599.74	20144599.86	0.0140	0.0070
Mercury	50442-03-07 09:07 G	20144687.76	20144687.88	20144688.00	0.0140	0.0049
Mercury	50442-06-03 12:14 G	20144775.88	20144776.01	20144776.14	0.0140	0.0028
Mercury	50442-08-30 15:36 G	20144864.02	20144864.15	20144864.28	0.0140	0.0008
Mercury	50442-11-26 18:43 G	20144952.15	20144952.28	20144952.41	0.0140	0.0013
Mercury	50443-02-22 21:50 G	20145040.29	20145040.41	20145040.54	0.0140	0.0035
Mercury	50443-05-22 01:12 G	20145128.43	20145128.55	20145128.67	0.0140	0.0055
Mercury	50443-08-18 04:19 G	20145216.58	20145216.68	20145216.80	0.0140	0.0076
Mercury	50443-11-14 07:41 G	20145304.73	20145304.82	20145304.92	0.0140	0.0096
Mercury	50444-02-10 10:48 G	20145392.89	20145392.95	20145393.03	0.0141	0.0118
Mercury	50444-05-08 14:24 G	20145481.08	20145481.10	20145481.12	0.0141	0.0138

Venus	50450-03-27 21:07 G	20147630.28	20147630.38	20147630.50	0.0143	0.0121
Venus	50450-11-09 08:10 G	20147856.69	20147856.84	20147857.03	0.0143	0.0090
Venus	50451-06-23 19:41 G	20148083.12	20148083.32	20148083.52	0.0143	0.0057
Venus	50452-02-05 06:43 G	20148309.57	20148309.78	20148310.00	0.0143	0.0025
Venus	50452-09-18 18:14 G	20148536.04	20148536.26	20148536.48	0.0144	0.0009
Venus	50453-05-03 05:31 G	20148762.53	20148762.73	20148762.94	0.0144	0.0042
Venus	50453-12-15 17:02 G	20148989.04	20148989.21	20148989.41	0.0144	0.0075
Venus	50454-07-30 05:02 G	20149215.56	20149215.71	20149215.85	0.0144	0.0108
Venus	50455-03-13 16:19 G	20149442.15	20149442.18	20149442.24	0.0144	0.0141
Moon	50456-02-19 17:46 G	20149785.12	20149785.24	20149785.38	0.0144	0.0122
Earth	50456-02-19 17:46 G	20149785.14	20149785.24	20149785.38	0.0144	0.0128 *
Earth	50457-02-23 20:38 G	20150155.12	20150155.36	20150155.61	0.0145	0.0046
Moon	50457-02-23 22:05 G	20150155.18	20150155.42	20150155.68	0.0145	0.0053 *
Moon	50458-02-28 21:36 G	20150525.16	20150525.40	20150525.64	0.0145	0.0043
Earth	50458-02-28 23:31 G	20150525.24	20150525.48	20150525.73	0.0145	0.0037 *
Earth	50459-03-06 02:10 G	20150895.46	20150895.59	20150895.75	0.0145	0.0119
Moon	50459-03-06 04:34 G	20150895.56	20150895.69	20150895.86	0.0145	0.0117 *
Mars	50471-11-21 12:14 G	20155538.71	20155539.01	20155539.32	0.0143	0.0017
Mercury	50481-07-20 18:29 G	20159068.21	20159068.27	20159068.35	0.0139	0.0130
Mercury	50481-10-17 02:24 G	20159156.48	20159156.60	20159156.75	0.0139	0.0100
Mercury	50482-01-13 10:48 G	20159244.78	20159244.95	20159245.12	0.0139	0.0069
Mercury	50482-04-11 18:43 G	20159333.10	20159333.28	20159333.47	0.0138	0.0039
Mercury	50482-07-09 02:53 G	20159421.42	20159421.62	20159421.82	0.0138	0.0008
Mercury	50482-10-05 10:48 G	20159509.76	20159509.95	20159510.15	0.0138	0.0022
Mercury	50483-01-01 18:58 G	20159598.11	20159598.29	20159598.47	0.0138	0.0052
Mercury	50483-03-31 02:38 G	20159686.47	20159686.61	20159686.78	0.0138	0.0083
Mercury	50483-06-27 10:34 G	20159774.85	20159774.94	20159775.07	0.0138	0.0113
Venus	50490-07-13 22:19 G	20162348.34	20162348.43	20162348.56	0.0135	0.0116
Venus	50491-02-25 05:02 G	20162574.55	20162574.71	20162574.88	0.0135	0.0088
Venus	50491-10-09 11:31 G	20162800.79	20162800.98	20162801.18	0.0135	0.0061

Venus	50492-05-22 18:00 G	20163027.05	20163027.25	20163027.47	0.0135	0.0034
Venus	50493-01-04 00:29 G	20163253.30	20163253.52	20163253.73	0.0135	0.0007
Venus	50493-08-18 06:29 G	20163479.55	20163479.77	20163479.98	0.0135	0.0020
Venus	50494-04-01 12:14 G	20163705.82	20163706.01	20163706.22	0.0134	0.0048
Venus	50494-11-13 18:00 G	20163932.09	20163932.25	20163932.45	0.0134	0.0075
Venus	50495-06-28 00:00 G	20164158.37	20164158.50	20164158.66	0.0134	0.0101
Venus	50496-02-09 06:00 G	20164384.68	20164384.75	20164384.82	0.0134	0.0126
Moon	50497-08-22 07:26 G	20164944.65	20164944.81	20164944.99	0.0134	0.0099
Earth	50497-08-22 09:50 G	20164944.75	20164944.91	20164945.11	0.0134	0.0093 *
Earth	50498-08-26 15:50 G	20165313.92	20165314.16	20165314.42	0.0134	0.0030
Moon	50498-08-26 18:00 G	20165314.02	20165314.25	20165314.50	0.0134	0.0024 *
Moon	50499-08-30 18:58 G	20165683.05	20165683.29	20165683.55	0.0134	0.0028
Earth	50499-08-30 21:36 G	20165683.17	20165683.40	20165683.65	0.0134	0.0034 *
Earth	50500-09-04 03:07 G	20166052.46	20166052.63	20166052.81	0.0134	0.0096
Moon	50500-09-04 05:02 G	20166052.56	20166052.71	20166052.89	0.0134	0.0099 *
Mercury	50525-04-10 03:50 G	20175036.60	20175036.66	20175036.72	0.0139	0.0123
Mercury	50525-07-07 07:12 G	20175124.71	20175124.80	20175124.88	0.0139	0.0103
Mercury	50525-10-03 10:19 G	20175212.83	20175212.93	20175213.04	0.0139	0.0082
Mercury	50525-12-30 13:41 G	20175300.95	20175301.07	20175301.18	0.0140	0.0062
Mercury	50526-03-28 16:48 G	20175389.08	20175389.20	20175389.33	0.0140	0.0041
Mercury	50526-06-24 20:10 G	20175477.21	20175477.34	20175477.46	0.0140	0.0021
Mercury	50526-09-20 23:17 G	20175565.34	20175565.47	20175565.60	0.0140	0.0000
Mercury	50526-12-18 02:24 G	20175653.48	20175653.60	20175653.73	0.0140	0.0021
Mercury	50527-03-16 05:46 G	20175741.62	20175741.74	20175741.86	0.0140	0.0041
Mercury	50527-06-12 08:53 G	20175829.76	20175829.87	20175829.99	0.0140	0.0062
Mercury	50527-09-08 12:00 G	20175917.91	20175918.00	20175918.11	0.0140	0.0084
Mercury	50527-12-05 15:22 G	20176006.06	20176006.14	20176006.23	0.0140	0.0104
Mercury	50528-03-02 18:43 G	20176094.23	20176094.28	20176094.34	0.0140	0.0125
Venus	50533-11-26 06:00 G	20178188.68	20178188.75	20178188.83	0.0143	0.0133
Venus	50534-07-10 17:02 G	20178415.06	20178415.21	20178415.36	0.0143	0.0101

Venus	50535-02-22 03:50 G	20178641.48	20178641.66	20178641.86	0.0143	0.0069
Venus	50535-10-06 15:07 G	20178867.92	20178868.13	20178868.34	0.0143	0.0037
Venus	50536-05-20 02:24 G	20179094.38	20179094.60	20179094.82	0.0143	0.0004
Venus	50537-01-01 13:41 G	20179320.86	20179321.07	20179321.29	0.0144	0.0029
Venus	50537-08-16 00:58 G	20179547.35	20179547.54	20179547.74	0.0144	0.0062
Venus	50538-03-30 12:14 G	20179773.86	20179774.01	20179774.19	0.0144	0.0095
Venus	50538-11-11 23:46 G	20180000.41	20180000.49	20180000.61	0.0144	0.0128
Earth	50540-02-21 05:31 G	20180466.61	20180466.73	20180466.89	0.0144	0.0122
Moon	50540-02-21 05:17 G	20180466.63	20180466.72	20180466.86	0.0144	0.0128 *
Earth	50541-02-25 08:10 G	20180836.60	20180836.84	20180837.10	0.0144	0.0041
Moon	50541-02-25 08:53 G	20180836.61	20180836.87	20180837.13	0.0144	0.0033 *
Moon	50542-03-02 09:36 G	20181206.66	20181206.90	20181207.14	0.0145	0.0036
Earth	50542-03-02 10:48 G	20181206.71	20181206.95	20181207.20	0.0145	0.0042 *
Earth	50543-03-07 13:12 G	20181576.94	20181577.05	20181577.20	0.0145	0.0124
Moon	50543-03-07 15:36 G	20181577.04	20181577.15	20181577.30	0.0145	0.0126 *
Mercury	50565-08-11 01:41 G	20189769.48	20189769.57	20189769.65	0.0139	0.0123
Mercury	50565-11-07 09:22 G	20189857.76	20189857.89	20189858.05	0.0139	0.0093
Mercury	50566-02-03 17:31 G	20189946.06	20189946.23	20189946.41	0.0139	0.0063
Mercury	50566-05-03 01:41 G	20190034.38	20190034.57	20190034.76	0.0139	0.0032
Mercury	50566-07-30 09:50 G	20190122.71	20190122.91	20190123.10	0.0138	0.0004
Mercury	50566-10-26 17:46 G	20190211.05	20190211.24	20190211.43	0.0138	0.0029
Mercury	50567-01-23 01:41 G	20190299.40	20190299.57	20190299.75	0.0138	0.0059
Mercury	50567-04-21 09:36 G	20190387.76	20190387.90	20190388.06	0.0138	0.0089
Mercury	50567-07-18 17:31 G	20190476.15	20190476.23	20190476.34	0.0138	0.0119
Venus	50574-03-14 07:41 G	20192906.76	20192906.82	20192906.91	0.0136	0.0127
Venus	50574-10-26 14:24 G	20193132.96	20193133.10	20193133.26	0.0135	0.0099
Venus	50575-06-09 20:53 G	20193359.20	20193359.37	20193359.57	0.0135	0.0073
Venus	50576-01-22 03:22 G	20193585.45	20193585.64	20193585.86	0.0135	0.0045
Venus	50576-09-04 09:50 G	20193811.70	20193811.91	20193812.13	0.0135	0.0018
Venus	50577-04-18 16:19 G	20194037.96	20194038.18	20194038.40	0.0135	0.0010

Venus	50577-11-30 22:19 G	20194264.22	20194264.43	20194264.64	0.0135	0.0037
Venus	50578-07-15 04:19 G	20194490.49	20194490.68	20194490.88	0.0134	0.0064
Venus	50579-02-26 10:05 G	20194716.77	20194716.92	20194717.09	0.0134	0.0090
Venus	50579-10-10 15:50 G	20194943.06	20194943.16	20194943.28	0.0134	0.0117
Moon	50581-08-23 18:29 G	20195626.08	20195626.27	20195626.49	0.0134	0.0081
Earth	50581-08-23 21:22 G	20195626.21	20195626.39	20195626.59	0.0134	0.0088 *
Earth	50582-08-28 03:22 G	20195995.40	20195995.64	20195995.89	0.0134	0.0025
Moon	50582-08-28 06:29 G	20195995.53	20195995.77	20195996.01	0.0134	0.0032 *
Moon	50583-09-01 06:43 G	20196364.53	20196364.78	20196365.02	0.0134	0.0043
Earth	50583-09-01 09:07 G	20196364.65	20196364.88	20196365.13	0.0134	0.0038 *
Earth	50584-09-04 14:38 G	20196733.96	20196734.11	20196734.29	0.0134	0.0101
Moon	50584-09-04 17:31 G	20196734.08	20196734.23	20196734.41	0.0134	0.0098 *
Mars	50598-12-11 23:46 G	20201945.43	20201945.49	20201945.57	0.0135	0.0132
Mercury	50609-02-02 08:10 G	20205649.82	20205649.84	20205649.87	0.0139	0.0136
Mercury	50609-05-01 11:31 G	20205737.91	20205737.98	20205738.06	0.0139	0.0116
Mercury	50609-07-28 14:38 G	20205826.03	20205826.11	20205826.21	0.0139	0.0096
Mercury	50609-10-24 18:00 G	20205914.14	20205914.25	20205914.36	0.0140	0.0075
Mercury	50610-01-20 21:07 G	20206002.27	20206002.38	20206002.51	0.0140	0.0055
Mercury	50610-04-19 00:29 G	20206090.40	20206090.52	20206090.65	0.0140	0.0034
Mercury	50610-07-16 03:50 G	20206178.53	20206178.66	20206178.79	0.0140	0.0013
Mercury	50610-10-12 06:58 G	20206266.66	20206266.79	20206266.92	0.0140	0.0009
Mercury	50611-01-08 10:19 G	20206354.80	20206354.93	20206355.06	0.0140	0.0029
Mercury	50611-04-06 13:26 G	20206442.94	20206443.06	20206443.19	0.0140	0.0049
Mercury	50611-07-03 16:48 G	20206531.09	20206531.20	20206531.31	0.0140	0.0070
Mercury	50611-09-29 19:55 G	20206619.24	20206619.33	20206619.43	0.0140	0.0091
Mercury	50611-12-26 23:17 G	20206707.39	20206707.47	20206707.55	0.0140	0.0112
Mercury	50612-03-24 02:24 G	20206795.57	20206795.60	20206795.65	0.0141	0.0133
Venus	50618-03-11 01:55 G	20208973.46	20208973.58	20208973.72	0.0143	0.0113
Venus	50618-10-23 12:58 G	20209199.87	20209200.04	20209200.23	0.0143	0.0081
Venus	50619-06-07 00:00 G	20209426.30	20209426.50	20209426.71	0.0143	0.0049

Venus	50620-01-19 11:17 G	20209652.76	20209652.97	20209653.19	0.0143	0.0016
Venus	50620-09-01 22:34 G	20209879.22	20209879.44	20209879.66	0.0144	0.0017
Venus	50621-04-16 09:36 G	20210105.71	20210105.90	20210106.12	0.0144	0.0050
Venus	50621-11-28 21:07 G	20210332.22	20210332.38	20210332.57	0.0144	0.0083
Venus	50622-07-13 08:53 G	20210558.75	20210558.87	20210559.00	0.0144	0.0115
Earth	50624-02-22 19:12 G	20211148.16	20211148.30	20211148.47	0.0144	0.0114
Moon	50624-02-22 20:24 G	20211148.19	20211148.35	20211148.51	0.0144	0.0110 *
Moon	50625-02-26 21:50 G	20211518.16	20211518.41	20211518.67	0.0144	0.0040
Earth	50625-02-26 21:36 G	20211518.16	20211518.40	20211518.66	0.0144	0.0033 *
Moon	50626-03-03 23:31 G	20211888.26	20211888.48	20211888.72	0.0145	0.0056
Earth	50626-03-04 00:14 G	20211888.28	20211888.51	20211888.76	0.0145	0.0049 *
Earth	50627-03-09 02:53 G	20212258.54	20212258.62	20212258.75	0.0145	0.0131
Moon	50627-03-09 04:34 G	20212258.58	20212258.69	20212258.83	0.0145	0.0127 *
Mercury	50649-09-01 09:07 G	20220470.78	20220470.88	20220471.00	0.0139	0.0114
Mercury	50649-11-28 17:17 G	20220559.07	20220559.22	20220559.38	0.0139	0.0083
Mercury	50650-02-25 01:26 G	20220647.38	20220647.56	20220647.74	0.0139	0.0053
Mercury	50650-05-24 09:22 G	20220735.70	20220735.89	20220736.09	0.0138	0.0023
Mercury	50650-08-20 17:31 G	20220824.03	20220824.23	20220824.43	0.0138	0.0008
Mercury	50650-11-17 01:26 G	20220912.38	20220912.56	20220912.75	0.0138	0.0039
Mercury	50651-02-13 09:36 G	20221000.73	20221000.90	20221001.07	0.0138	0.0069
Mercury	50651-05-12 17:17 G	20221089.10	20221089.22	20221089.37	0.0138	0.0099
Mercury	50651-08-09 01:12 G	20221177.50	20221177.55	20221177.63	0.0138	0.0129
Venus	50658-06-27 00:58 G	20223691.43	20223691.54	20223691.68	0.0135	0.0110
Venus	50659-02-08 07:26 G	20223917.65	20223917.81	20223918.00	0.0135	0.0083
Venus	50659-09-22 13:55 G	20224143.90	20224144.08	20224144.29	0.0135	0.0055
Venus	50660-05-05 20:38 G	20224370.15	20224370.36	20224370.58	0.0135	0.0027
Venus	50660-12-18 02:53 G	20224596.41	20224596.62	20224596.84	0.0135	0.0003
Venus	50661-08-01 09:07 G	20224822.67	20224822.88	20224823.09	0.0135	0.0027
Venus	50662-03-15 15:07 G	20225048.93	20225049.13	20225049.33	0.0135	0.0054
Venus	50662-10-27 20:53 G	20225275.20	20225275.37	20225275.55	0.0134	0.0081

Venus	50663-06-11 02:38 G	20225501.49	20225501.61	20225501.75	0.0134	0.0107
Venus	50664-01-23 08:10 G	20225727.84	20225727.84	20225727.89	0.0134	0.0134
Moon	50665-08-25 06:14 G	20226307.58	20226307.76	20226307.96	0.0134	0.0089
Earth	50665-08-25 09:22 G	20226307.71	20226307.89	20226308.11	0.0134	0.0083 *
Earth	50666-08-29 15:36 G	20226676.90	20226677.15	20226677.40	0.0134	0.0020
Moon	50666-08-29 18:43 G	20226677.03	20226677.28	20226677.52	0.0134	0.0013 *
Moon	50667-09-02 18:00 G	20227046.01	20227046.25	20227046.51	0.0134	0.0037
Earth	50667-09-02 21:22 G	20227046.16	20227046.39	20227046.64	0.0134	0.0044 *
Earth	50668-09-06 03:07 G	20227415.49	20227415.63	20227415.79	0.0134	0.0106
Moon	50668-09-06 06:00 G	20227415.63	20227415.75	20227415.90	0.0134	0.0110 *
Mars	50683-08-08 03:50 G	20232864.37	20232864.66	20232864.95	0.0136	0.0044
Mercury	50693-02-22 16:05 G	20236351.12	20236351.17	20236351.22	0.0139	0.0129
Mercury	50693-05-21 19:12 G	20236439.22	20236439.30	20236439.38	0.0139	0.0108
Mercury	50693-08-17 22:34 G	20236527.34	20236527.44	20236527.54	0.0139	0.0088
Mercury	50693-11-14 01:41 G	20236615.46	20236615.57	20236615.69	0.0140	0.0068
Mercury	50694-02-10 05:02 G	20236703.59	20236703.71	20236703.83	0.0140	0.0047
Mercury	50694-05-09 08:10 G	20236791.72	20236791.84	20236791.97	0.0140	0.0027
Mercury	50694-08-05 11:31 G	20236879.85	20236879.98	20236880.11	0.0140	0.0005
Mercury	50694-11-01 14:38 G	20236967.99	20236968.11	20236968.25	0.0140	0.0016
Mercury	50695-01-28 18:00 G	20237056.13	20237056.25	20237056.38	0.0140	0.0036
Mercury	50695-04-26 21:07 G	20237144.27	20237144.38	20237144.50	0.0140	0.0057
Mercury	50695-07-24 00:29 G	20237232.41	20237232.52	20237232.63	0.0140	0.0078
Mercury	50695-10-20 03:50 G	20237320.57	20237320.66	20237320.75	0.0140	0.0099
Mercury	50696-01-16 06:58 G	20237408.73	20237408.79	20237408.86	0.0140	0.0120
Mercury	50696-04-13 10:19 G	20237496.93	20237496.93	20237496.93	0.0141	0.0140
Venus	50701-11-09 10:48 G	20239531.86	20239531.95	20239532.07	0.0143	0.0125
Venus	50702-06-23 21:50 G	20239758.25	20239758.41	20239758.58	0.0143	0.0093
Venus	50703-02-05 08:38 G	20239984.67	20239984.86	20239985.07	0.0143	0.0061
Venus	50703-09-19 19:55 G	20240211.12	20240211.33	20240211.54	0.0143	0.0028
Venus	50704-05-03 06:58 G	20240437.58	20240437.79	20240438.01	0.0143	0.0005

Venus	50704-12-15 18:14 G	20240664.06	20240664.26	20240664.48	0.0144	0.0038
Venus	50705-07-30 05:46 G	20240890.55	20240890.74	20240890.93	0.0144	0.0070
Venus	50706-03-13 17:02 G	20241117.07	20241117.21	20241117.37	0.0144	0.0103
Venus	50706-10-26 04:19 G	20241343.63	20241343.68	20241343.77	0.0144	0.0136
Earth	50708-02-24 08:10 G	20241829.67	20241829.84	20241830.01	0.0144	0.0108
Moon	50708-02-24 09:07 G	20241829.74	20241829.88	20241830.04	0.0144	0.0113 *
Moon	50709-02-28 09:50 G	20242199.65	20242199.91	20242200.18	0.0144	0.0019
Earth	50709-02-28 10:34 G	20242199.69	20242199.94	20242200.20	0.0144	0.0027 *
Moon	50710-03-05 13:12 G	20242569.82	20242570.05	20242570.29	0.0144	0.0049
Earth	50710-03-05 12:58 G	20242569.82	20242570.04	20242570.29	0.0144	0.0056 *
Earth	50711-03-10 15:50 G	20242940.10	20242940.16	20242940.26	0.0145	0.0137
Moon	50711-03-10 17:02 G	20242940.17	20242940.21	20242940.30	0.0145	0.0140 *
Mars	50723-12-06 20:53 G	20247594.09	20247594.37	20247594.66	0.0143	0.0050
Mercury	50733-06-26 08:38 G	20251083.83	20251083.86	20251083.92	0.0139	0.0135
Mercury	50733-09-22 16:48 G	20251172.08	20251172.20	20251172.34	0.0139	0.0105
Mercury	50733-12-20 00:43 G	20251260.38	20251260.53	20251260.71	0.0139	0.0075
Mercury	50734-03-18 09:07 G	20251348.69	20251348.88	20251349.06	0.0139	0.0044
Mercury	50734-06-14 17:02 G	20251437.02	20251437.21	20251437.41	0.0138	0.0014
Mercury	50734-09-11 00:58 G	20251525.35	20251525.54	20251525.74	0.0138	0.0018
Mercury	50734-12-08 09:07 G	20251613.70	20251613.88	20251614.07	0.0138	0.0047
Mercury	50735-03-06 17:02 G	20251702.05	20251702.21	20251702.38	0.0138	0.0078
Mercury	50735-06-03 01:12 G	20251790.43	20251790.55	20251790.67	0.0138	0.0108
Mercury	50735-08-30 08:53 G	20251878.87	20251878.87	20251878.89	0.0138	0.0138
Venus	50742-02-25 11:02 G	20254249.87	20254249.96	20254250.07	0.0136	0.0120
Venus	50742-10-09 17:31 G	20254476.09	20254476.23	20254476.40	0.0135	0.0093
Venus	50743-05-24 00:14 G	20254702.33	20254702.51	20254702.71	0.0135	0.0065
Venus	50744-01-05 06:58 G	20254928.58	20254928.79	20254929.00	0.0135	0.0037
Venus	50744-08-18 13:12 G	20255154.83	20255155.05	20255155.27	0.0135	0.0010
Venus	50745-04-01 19:12 G	20255381.09	20255381.30	20255381.52	0.0135	0.0017
Venus	50745-11-14 01:12 G	20255607.35	20255607.55	20255607.76	0.0135	0.0044

Venus	50746-06-28 07:12 G	20255833.63	20255833.80	20255834.00	0.0135	0.0071
Venus	50747-02-09 12:58 G	20256059.91	20256060.04	20256060.20	0.0134	0.0098
Venus	50747-09-23 18:43 G	20256286.21	20256286.28	20256286.38	0.0134	0.0124
Moon	50749-08-26 17:46 G	20256989.04	20256989.24	20256989.47	0.0134	0.0071
Earth	50749-08-26 21:07 G	20256989.19	20256989.38	20256989.60	0.0134	0.0078 *
Earth	50750-08-31 03:22 G	20257358.39	20257358.64	20257358.89	0.0134	0.0015
Moon	50750-08-31 06:58 G	20257358.55	20257358.79	20257359.04	0.0134	0.0022 *
Moon	50751-09-04 06:00 G	20257727.52	20257727.75	20257727.99	0.0134	0.0054
Earth	50751-09-04 09:22 G	20257727.66	20257727.89	20257728.13	0.0134	0.0048 *
Earth	50752-09-07 14:53 G	20258097.00	20258097.12	20258097.28	0.0134	0.0111
Moon	50752-09-07 18:29 G	20258097.13	20258097.27	20258097.43	0.0134	0.0107 *
Mercury	50777-03-15 23:31 G	20267052.42	20267052.48	20267052.54	0.0139	0.0123
Mercury	50777-06-12 02:38 G	20267140.53	20267140.61	20267140.70	0.0139	0.0102
Mercury	50777-09-08 06:00 G	20267228.64	20267228.75	20267228.85	0.0140	0.0082
Mercury	50777-12-05 09:07 G	20267316.77	20267316.88	20267317.00	0.0140	0.0061
Mercury	50778-03-03 12:29 G	20267404.90	20267405.02	20267405.15	0.0140	0.0041
Mercury	50778-05-30 15:36 G	20267493.03	20267493.15	20267493.28	0.0140	0.0021
Mercury	50778-08-26 18:58 G	20267581.16	20267581.29	20267581.42	0.0140	0.0001
Mercury	50778-11-22 22:05 G	20267669.30	20267669.42	20267669.55	0.0140	0.0022
Mercury	50779-02-19 01:26 G	20267757.44	20267757.56	20267757.69	0.0140	0.0042
Mercury	50779-05-18 04:48 G	20267845.58	20267845.70	20267845.81	0.0140	0.0063
Mercury	50779-08-14 07:55 G	20267933.73	20267933.83	20267933.94	0.0140	0.0084
Mercury	50779-11-10 11:02 G	20268021.88	20268021.96	20268022.05	0.0140	0.0105
Mercury	50780-02-06 14:38 G	20268110.05	20268110.11	20268110.16	0.0140	0.0126
Venus	50785-07-09 18:58 G	20270090.24	20270090.29	20270090.35	0.0143	0.0137
Venus	50786-02-21 05:17 G	20270316.59	20270316.72	20270316.88	0.0143	0.0106
Venus	50786-10-05 16:34 G	20270543.00	20270543.19	20270543.38	0.0143	0.0073
Venus	50787-05-20 03:22 G	20270769.44	20270769.64	20270769.86	0.0143	0.0041
Venus	50788-01-01 14:38 G	20270995.89	20270996.11	20270996.33	0.0143	0.0008
Venus	50788-08-15 01:41 G	20271222.36	20271222.57	20271222.79	0.0144	0.0025

Venus	50789-03-29 12:58 G	20271448.85	20271449.04	20271449.25	0.0144	0.0057
Venus	50789-11-11 00:29 G	20271675.36	20271675.52	20271675.70	0.0144	0.0090
Venus	50790-06-25 11:46 G	20271901.90	20271901.99	20271902.12	0.0144	0.0123
Earth	50792-02-24 19:41 G	20272511.15	20272511.32	20272511.50	0.0144	0.0103
Moon	50792-02-24 21:36 G	20272511.24	20272511.40	20272511.60	0.0144	0.0099 *
Moon	50793-02-28 20:53 G	20272881.11	20272881.37	20272881.63	0.0144	0.0028
Earth	50793-02-28 22:05 G	20272881.17	20272881.42	20272881.68	0.0144	0.0022 *
Earth	50794-03-06 00:58 G	20273251.31	20273251.54	20273251.78	0.0144	0.0060
Moon	50794-03-06 01:26 G	20273251.35	20273251.56	20273251.78	0.0144	0.0068 *
Moon	50795-03-11 03:36 G	20273621.59	20273621.65	20273621.76	0.0145	0.0137
Earth	50795-03-11 03:36 G	20273621.62	20273621.65	20273621.72	0.0145	0.0142 *
Mercury	50817-07-16 16:34 G	20281785.13	20281785.19	20281785.29	0.0139	0.0125
Mercury	50817-10-13 00:58 G	20281873.40	20281873.54	20281873.69	0.0139	0.0094
Mercury	50818-01-09 08:53 G	20281961.70	20281961.87	20281962.05	0.0139	0.0064
Mercury	50818-04-07 17:02 G	20282050.02	20282050.21	20282050.40	0.0139	0.0033
Mercury	50818-07-05 01:12 G	20282138.35	20282138.55	20282138.74	0.0138	0.0004
Mercury	50818-10-01 09:07 G	20282226.69	20282226.88	20282227.07	0.0138	0.0027
Mercury	50818-12-28 17:02 G	20282315.04	20282315.21	20282315.40	0.0138	0.0058
Mercury	50819-03-27 00:58 G	20282403.40	20282403.54	20282403.70	0.0138	0.0088
Mercury	50819-06-23 08:53 G	20282491.78	20282491.87	20282491.98	0.0138	0.0118
Venus	50825-10-25 21:36 G	20284808.36	20284808.40	20284808.48	0.0136	0.0130
Venus	50826-06-09 04:48 G	20285034.56	20285034.70	20285034.84	0.0136	0.0102
Venus	50827-01-21 11:02 G	20285260.79	20285260.96	20285261.15	0.0135	0.0075
Venus	50827-09-04 17:31 G	20285487.04	20285487.23	20285487.44	0.0135	0.0047
Venus	50828-04-18 00:00 G	20285713.29	20285713.50	20285713.72	0.0135	0.0020
Venus	50828-11-30 06:14 G	20285939.54	20285939.76	20285939.98	0.0135	0.0008
Venus	50829-07-14 12:14 G	20286165.81	20286166.01	20286166.23	0.0135	0.0035
Venus	50830-02-25 18:00 G	20286392.07	20286392.25	20286392.46	0.0135	0.0062
Venus	50830-10-09 23:46 G	20286618.35	20286618.49	20286618.67	0.0134	0.0089
Venus	50831-05-24 06:00 G	20286844.65	20286844.75	20286844.87	0.0134	0.0114

Moon	50832-08-23 06:58 G	20287301.76	20287301.79	20287301.86	0.0134	0.0131
Moon	50833-08-27 06:14 G	20287670.57	20287670.76	20287670.97	0.0134	0.0079
Earth	50833-08-27 09:50 G	20287670.71	20287670.91	20287671.13	0.0134	0.0073 *
Earth	50834-08-31 15:50 G	20288039.91	20288040.16	20288040.41	0.0134	0.0010
Moon	50834-08-31 19:26 G	20288040.06	20288040.31	20288040.56	0.0134	0.0003 *
Moon	50835-09-04 18:00 G	20288409.02	20288409.25	20288409.50	0.0134	0.0046
Earth	50835-09-04 21:50 G	20288409.19	20288409.41	20288409.65	0.0134	0.0053 *
Earth	50836-09-08 03:22 G	20288778.54	20288778.64	20288778.79	0.0134	0.0116
Moon	50836-09-08 07:12 G	20288778.70	20288778.80	20288778.91	0.0134	0.0120 *
Mars	50850-12-26 08:38 G	20294000.59	20294000.86	20294001.14	0.0135	0.0064
Mercury	50861-01-07 03:36 G	20297665.64	20297665.65	20297665.67	0.0139	0.0137
Mercury	50861-04-05 06:43 G	20297753.72	20297753.78	20297753.86	0.0139	0.0117
Mercury	50861-07-02 10:05 G	20297841.83	20297841.92	20297842.02	0.0139	0.0096
Mercury	50861-09-28 13:12 G	20297929.95	20297930.05	20297930.17	0.0139	0.0076
Mercury	50861-12-25 16:34 G	20298018.07	20298018.19	20298018.31	0.0140	0.0055
Mercury	50862-03-23 19:55 G	20298106.20	20298106.33	20298106.45	0.0140	0.0035
Mercury	50862-06-19 23:02 G	20298194.33	20298194.46	20298194.59	0.0140	0.0014
Mercury	50862-09-16 02:24 G	20298282.47	20298282.60	20298282.73	0.0140	0.0007
Mercury	50862-12-13 05:31 G	20298370.60	20298370.73	20298370.86	0.0140	0.0027
Mercury	50863-03-11 08:53 G	20298458.75	20298458.87	20298458.99	0.0140	0.0048
Mercury	50863-06-07 12:00 G	20298546.89	20298547.00	20298547.12	0.0140	0.0069
Mercury	50863-09-03 15:07 G	20298635.04	20298635.13	20298635.24	0.0140	0.0090
Mercury	50863-11-30 18:29 G	20298723.20	20298723.27	20298723.35	0.0140	0.0111
Mercury	50864-02-26 21:50 G	20298811.37	20298811.41	20298811.46	0.0140	0.0132
Venus	50869-10-21 12:43 G	20300874.91	20300875.03	20300875.15	0.0143	0.0118
Venus	50870-06-04 23:02 G	20301101.30	20301101.46	20301101.65	0.0143	0.0087
Venus	50871-01-17 10:05 G	20301327.73	20301327.92	20301328.13	0.0143	0.0054
Venus	50871-08-31 21:07 G	20301554.17	20301554.38	20301554.60	0.0143	0.0022
Venus	50872-04-14 08:10 G	20301780.63	20301780.84	20301781.06	0.0143	0.0011
Venus	50872-11-26 19:26 G	20302007.11	20302007.31	20302007.53	0.0144	0.0044

Venus	50873-07-11 06:43 G	20302233.61	20302233.78	20302233.97	0.0144	0.0077
Venus	50874-02-22 18:14 G	20302460.12	20302460.26	20302460.40	0.0144	0.0109
Venus	50874-10-07 05:31 G	20302686.71	20302686.73	20302686.77	0.0144	0.0142
Earth	50876-02-25 04:34 G	20303192.52	20303192.69	20303192.89	0.0144	0.0100
Moon	50876-02-25 07:12 G	20303192.63	20303192.80	20303192.98	0.0144	0.0103 *
Moon	50877-03-01 05:17 G	20303562.46	20303562.72	20303562.99	0.0144	0.0012
Earth	50877-03-01 07:26 G	20303562.56	20303562.81	20303563.07	0.0144	0.0019 *
Earth	50878-03-06 10:05 G	20303932.70	20303932.92	20303933.16	0.0144	0.0063
Moon	50878-03-06 11:31 G	20303932.76	20303932.98	20303933.21	0.0144	0.0056 *
Earth	50879-03-11 12:58 G	20304303.04	20304303.04	20304303.07	0.0144	0.0144
Mars	50891-04-24 16:05 G	20308729.94	20308730.17	20308730.42	0.0143	0.0085
Mercury	50901-08-06 23:46 G	20312486.39	20312486.49	20312486.59	0.0139	0.0118
Mercury	50901-11-03 07:41 G	20312574.68	20312574.82	20312574.98	0.0139	0.0088
Mercury	50902-01-30 15:36 G	20312662.98	20312663.15	20312663.34	0.0139	0.0058
Mercury	50902-04-29 00:00 G	20312751.31	20312751.50	20312751.69	0.0139	0.0027
Mercury	50902-07-26 07:55 G	20312839.64	20312839.83	20312840.03	0.0138	0.0004
Mercury	50902-10-22 15:50 G	20312927.98	20312928.16	20312928.36	0.0138	0.0035
Mercury	50903-01-19 00:00 G	20313016.33	20313016.50	20313016.68	0.0138	0.0064
Mercury	50903-04-17 08:10 G	20313104.70	20313104.84	20313104.98	0.0138	0.0095
Mercury	50903-07-14 15:50 G	20313193.09	20313193.16	20313193.26	0.0138	0.0125
Venus	50910-02-07 13:41 G	20315592.97	20315593.07	20315593.20	0.0136	0.0113
Venus	50910-09-21 20:10 G	20315819.19	20315819.34	20315819.53	0.0136	0.0086
Venus	50911-05-06 03:07 G	20316045.44	20316045.63	20316045.83	0.0135	0.0058
Venus	50911-12-18 09:36 G	20316271.69	20316271.90	20316272.11	0.0135	0.0030
Venus	50912-07-31 15:50 G	20316497.94	20316498.16	20316498.38	0.0135	0.0003
Venus	50913-03-14 21:50 G	20316724.20	20316724.41	20316724.63	0.0135	0.0024
Venus	50913-10-27 04:05 G	20316950.47	20316950.67	20316950.87	0.0135	0.0051
Venus	50914-06-10 10:05 G	20317176.75	20317176.92	20317177.10	0.0135	0.0078
Venus	50915-01-22 15:50 G	20317403.03	20317403.16	20317403.30	0.0134	0.0105
Venus	50915-09-05 21:50 G	20317629.36	20317629.41	20317629.46	0.0134	0.0131

Earth	50916-08-24 14:10 G	20317983.07	20317983.09	20317983.14	0.0134	0.0133
Moon	50917-08-28 17:02 G	20318352.00	20318352.21	20318352.44	0.0134	0.0063
Earth	50917-08-28 20:53 G	20318352.16	20318352.37	20318352.59	0.0134	0.0069 *
Earth	50918-09-02 03:07 G	20318721.38	20318721.63	20318721.88	0.0134	0.0006
Moon	50918-09-02 06:29 G	20318721.53	20318721.77	20318722.03	0.0134	0.0014 *
Moon	50919-09-06 05:46 G	20319090.52	20319090.74	20319090.96	0.0134	0.0063
Earth	50919-09-06 08:53 G	20319090.66	20319090.87	20319091.11	0.0134	0.0057 *
Earth	50920-09-09 15:07 G	20319460.02	20319460.13	20319460.24	0.0134	0.0119
Moon	50920-09-09 18:43 G	20319460.16	20319460.28	20319460.42	0.0134	0.0114 *
Mars	50935-08-22 10:05 G	20324919.75	20324919.92	20324920.13	0.0136	0.0108
Mercury	50945-01-28 10:48 G	20328366.92	20328366.95	20328366.99	0.0139	0.0132
Mercury	50945-04-26 14:10 G	20328455.01	20328455.09	20328455.17	0.0139	0.0112
Mercury	50945-07-23 17:17 G	20328543.13	20328543.22	20328543.32	0.0139	0.0091
Mercury	50945-10-19 20:38 G	20328631.25	20328631.36	20328631.47	0.0139	0.0071
Mercury	50946-01-15 23:46 G	20328719.37	20328719.49	20328719.62	0.0139	0.0050
Mercury	50946-04-14 03:07 G	20328807.50	20328807.63	20328807.76	0.0140	0.0029
Mercury	50946-07-11 06:29 G	20328895.64	20328895.77	20328895.90	0.0140	0.0010
Mercury	50946-10-07 09:36 G	20328983.77	20328983.90	20328984.03	0.0140	0.0012
Mercury	50947-01-03 12:43 G	20329071.91	20329072.03	20329072.16	0.0140	0.0033
Mercury	50947-04-01 16:05 G	20329160.05	20329160.17	20329160.29	0.0140	0.0053
Mercury	50947-06-28 19:12 G	20329248.20	20329248.30	20329248.42	0.0140	0.0074
Mercury	50947-09-24 22:34 G	20329336.35	20329336.44	20329336.54	0.0140	0.0095
Mercury	50947-12-22 01:41 G	20329424.51	20329424.57	20329424.65	0.0140	0.0116
Mercury	50948-03-19 05:02 G	20329512.69	20329512.71	20329512.74	0.0140	0.0137
Venus	50953-06-21 18:58 G	20331433.22	20331433.29	20331433.38	0.0142	0.0132
Venus	50954-02-03 05:46 G	20331659.59	20331659.74	20331659.89	0.0143	0.0100
Venus	50954-09-17 16:19 G	20331885.99	20331886.18	20331886.37	0.0143	0.0068
Venus	50955-05-02 03:07 G	20332112.43	20332112.63	20332112.85	0.0143	0.0036
Venus	50955-12-14 14:24 G	20332338.88	20332339.10	20332339.32	0.0143	0.0003
Venus	50956-07-28 01:26 G	20332565.35	20332565.56	20332565.77	0.0143	0.0030

Venus	50957-03-11 12:29 G	20332791.83	20332792.02	20332792.22	0.0144	0.0063
Venus	50957-10-23 23:46 G	20333018.34	20333018.49	20333018.66	0.0144	0.0096
Venus	50958-06-07 11:17 G	20333244.88	20333244.97	20333245.08	0.0144	0.0128
Earth	50960-02-26 12:58 G	20333873.87	20333874.04	20333874.25	0.0144	0.0097
Moon	50960-02-26 16:34 G	20333874.01	20333874.19	20333874.38	0.0144	0.0095 *
Moon	50961-03-02 13:12 G	20334243.79	20334244.05	20334244.31	0.0144	0.0021
Earth	50961-03-02 15:50 G	20334243.91	20334244.16	20334244.42	0.0144	0.0016 *
Earth	50962-03-07 18:14 G	20334614.05	20334614.26	20334614.50	0.0144	0.0065
Moon	50962-03-07 20:10 G	20334614.14	20334614.34	20334614.57	0.0144	0.0073 *
Moon	50963-03-12 19:26 G	20334984.26	20334984.31	20334984.39	0.0144	0.0140
Mars	50975-12-19 21:50 G	20339649.20	20339649.41	20339649.62	0.0143	0.0102
Mercury	50985-08-27 06:29 G	20343187.66	20343187.77	20343187.88	0.0139	0.0112
Mercury	50985-11-23 14:24 G	20343275.95	20343276.10	20343276.26	0.0139	0.0082
Mercury	50986-02-19 22:19 G	20343364.26	20343364.43	20343364.62	0.0139	0.0052
Mercury	50986-05-19 06:43 G	20343452.58	20343452.78	20343452.97	0.0139	0.0021
Mercury	50986-08-15 14:38 G	20343540.92	20343541.11	20343541.31	0.0138	0.0010
Mercury	50986-11-11 22:34 G	20343629.26	20343629.44	20343629.64	0.0138	0.0041
Mercury	50987-02-08 06:43 G	20343717.61	20343717.78	20343717.95	0.0138	0.0071
Mercury	50987-05-07 14:38 G	20343805.99	20343806.11	20343806.25	0.0138	0.0101
Mercury	50987-08-03 22:34 G	20343894.40	20343894.44	20343894.51	0.0138	0.0131
Venus	50993-10-07 22:48 G	20346151.37	20346151.45	20346151.54	0.0136	0.0124
Venus	50994-05-22 05:31 G	20346377.59	20346377.73	20346377.89	0.0136	0.0097
Venus	50995-01-03 12:00 G	20346603.83	20346604.00	20346604.20	0.0136	0.0070
Venus	50995-08-17 18:43 G	20346830.07	20346830.28	20346830.49	0.0135	0.0042
Venus	50996-03-31 00:58 G	20347056.33	20347056.54	20347056.76	0.0135	0.0014
Venus	50996-11-12 07:12 G	20347282.59	20347282.80	20347283.02	0.0135	0.0014
Venus	50997-06-26 13:26 G	20347508.86	20347509.06	20347509.27	0.0135	0.0041
Venus	50998-02-07 19:26 G	20347735.13	20347735.31	20347735.51	0.0135	0.0068
Venus	50998-09-22 01:12 G	20347961.41	20347961.55	20347961.72	0.0135	0.0095
Venus	50999-05-06 07:26 G	20348187.72	20348187.81	20348187.91	0.0134	0.0121

Earth	51000-08-26 00:58 G	20348664.48	20348664.54	20348664.62	0.0134	0.0129
Moon	51000-08-26 04:19 G	20348664.61	20348664.68	20348664.79	0.0134	0.0125 *

52ND MILLENNIUM CE

This is a list of transits visible from Uranus in the 52nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	51001-08-30 04:34 G		20349033.48	20349033.69	20349033.90	0.0134	0.0070	
Earth	51001-08-30 07:41 G		20349033.61	20349033.82	20349034.05	0.0134	0.0065	*
Earth	51002-09-03 13:55 G		20349402.83	20349403.08	20349403.34	0.0134	0.0004	
Moon	51002-09-03 17:31 G		20349402.97	20349403.23	20349403.48	0.0134	0.0005	*
Moon	51003-09-07 16:48 G		20349771.97	20349772.20	20349772.43	0.0134	0.0053	
Earth	51003-09-07 20:10 G		20349772.13	20349772.34	20349772.57	0.0134	0.0061	*
Earth	51004-09-11 01:55 G		20350141.50	20350141.58	20350141.70	0.0134	0.0123	
Moon	51004-09-11 05:31 G		20350141.67	20350141.73	20350141.81	0.0134	0.0128	*
Mercury	51029-02-18 18:14 G		20359068.21	20359068.26	20359068.32	0.0139	0.0126	
Mercury	51029-05-17 21:36 G		20359156.32	20359156.40	20359156.48	0.0139	0.0105	
Mercury	51029-08-14 00:43 G		20359244.43	20359244.53	20359244.64	0.0139	0.0085	
Mercury	51029-11-10 04:05 G		20359332.56	20359332.67	20359332.79	0.0139	0.0064	
Mercury	51030-02-06 07:12 G		20359420.68	20359420.80	20359420.93	0.0139	0.0044	
Mercury	51030-05-05 10:34 G		20359508.81	20359508.94	20359509.07	0.0139	0.0023	
Mercury	51030-08-01 13:55 G		20359596.95	20359597.08	20359597.21	0.0140	0.0005	
Mercury	51030-10-28 17:02 G		20359685.08	20359685.21	20359685.34	0.0140	0.0018	
Mercury	51031-01-24 20:24 G		20359773.22	20359773.35	20359773.47	0.0140	0.0039	

Mercury	51031-04-22 23:31 G	20359861.36	20359861.48	20359861.60	0.0140	0.0060
Mercury	51031-07-20 02:53 G	20359949.51	20359949.62	20359949.72	0.0140	0.0080
Mercury	51031-10-16 06:00 G	20360037.66	20360037.75	20360037.84	0.0140	0.0101
Mercury	51032-01-12 09:07 G	20360125.83	20360125.88	20360125.95	0.0140	0.0122
Venus	51037-10-04 12:43 G	20362217.91	20362218.03	20362218.17	0.0142	0.0114
Venus	51038-05-18 23:17 G	20362444.31	20362444.47	20362444.66	0.0143	0.0082
Venus	51038-12-31 10:05 G	20362670.73	20362670.92	20362671.14	0.0143	0.0050
Venus	51039-08-14 21:07 G	20362897.17	20362897.38	20362897.60	0.0143	0.0017
Venus	51040-03-28 08:10 G	20363123.63	20363123.84	20363124.06	0.0143	0.0016
Venus	51040-11-09 19:26 G	20363350.11	20363350.31	20363350.52	0.0143	0.0049
Venus	51041-06-24 06:29 G	20363576.60	20363576.77	20363576.96	0.0143	0.0082
Venus	51042-02-05 17:46 G	20363803.12	20363803.24	20363803.38	0.0144	0.0115
Earth	51044-02-27 22:34 G	20364555.26	20364555.44	20364555.66	0.0144	0.0093
Moon	51044-02-28 02:10 G	20364555.40	20364555.59	20364555.78	0.0144	0.0094 *
Moon	51045-03-03 22:05 G	20364925.16	20364925.42	20364925.68	0.0144	0.0007
Earth	51045-03-04 01:26 G	20364925.30	20364925.56	20364925.81	0.0144	0.0012 *
Earth	51046-03-09 03:36 G	20365295.43	20365295.65	20365295.89	0.0144	0.0069
Moon	51046-03-09 06:29 G	20365295.54	20365295.77	20365296.00	0.0144	0.0061 *
Mercury	51069-06-21 04:34 G	20373800.69	20373800.69	20373800.69	0.0139	0.0139
Mercury	51069-09-17 12:14 G	20373888.90	20373889.01	20373889.15	0.0139	0.0109
Mercury	51069-12-14 20:24 G	20373977.20	20373977.35	20373977.52	0.0139	0.0078
Mercury	51070-03-13 04:34 G	20374065.51	20374065.69	20374065.88	0.0139	0.0047
Mercury	51070-06-09 12:43 G	20374153.84	20374154.03	20374154.23	0.0139	0.0017
Mercury	51070-09-05 20:38 G	20374242.17	20374242.36	20374242.56	0.0138	0.0014
Mercury	51070-12-03 04:48 G	20374330.52	20374330.70	20374330.89	0.0138	0.0044
Mercury	51071-03-01 12:58 G	20374418.87	20374419.04	20374419.20	0.0138	0.0075
Mercury	51071-05-28 20:38 G	20374507.25	20374507.36	20374507.50	0.0138	0.0105
Mercury	51071-08-25 04:48 G	20374595.67	20374595.70	20374595.74	0.0138	0.0135
Venus	51078-01-20 12:43 G	20376935.93	20376936.03	20376936.18	0.0136	0.0110
Venus	51078-09-03 19:41 G	20377162.16	20377162.32	20377162.50	0.0136	0.0082

Venus	51079-04-18 02:10 G	20377388.41	20377388.59	20377388.80	0.0136	0.0055
Venus	51079-11-30 08:53 G	20377614.66	20377614.87	20377615.09	0.0135	0.0027
Venus	51080-07-13 15:22 G	20377840.92	20377841.14	20377841.36	0.0135	0.0002
Venus	51081-02-24 21:36 G	20378067.19	20378067.40	20378067.62	0.0135	0.0028
Venus	51081-10-09 03:36 G	20378293.46	20378293.65	20378293.86	0.0135	0.0056
Venus	51082-05-23 09:50 G	20378519.75	20378519.91	20378520.09	0.0135	0.0083
Venus	51083-01-04 15:50 G	20378746.05	20378746.16	20378746.30	0.0135	0.0110
Earth	51084-08-26 09:50 G	20379345.84	20379345.91	20379346.02	0.0134	0.0126
Moon	51084-08-26 12:29 G	20379345.96	20379346.02	20379346.13	0.0134	0.0128 *
Moon	51085-08-30 13:26 G	20379714.85	20379715.06	20379715.30	0.0134	0.0057
Earth	51085-08-30 16:48 G	20379714.98	20379715.20	20379715.43	0.0134	0.0062 *
Earth	51086-09-03 23:31 G	20380084.22	20380084.48	20380084.73	0.0134	0.0002
Moon	51086-09-04 02:38 G	20380084.35	20380084.61	20380084.86	0.0134	0.0006 *
Moon	51087-09-08 02:53 G	20380453.41	20380453.62	20380453.83	0.0134	0.0070
Earth	51087-09-08 05:31 G	20380453.52	20380453.73	20380453.96	0.0134	0.0064 *
Earth	51088-09-11 11:31 G	20380822.91	20380822.98	20380823.07	0.0134	0.0126
Moon	51088-09-11 14:53 G	20380823.02	20380823.12	20380823.25	0.0134	0.0120 *
Mars	51103-01-10 12:00 G	20386055.69	20386056.00	20386056.32	0.0136	0.0004
Mercury	51113-03-12 01:55 G	20389769.51	20389769.58	20389769.64	0.0139	0.0119
Mercury	51113-06-08 05:02 G	20389857.62	20389857.71	20389857.80	0.0139	0.0099
Mercury	51113-09-04 08:24 G	20389945.74	20389945.85	20389945.95	0.0139	0.0079
Mercury	51113-12-01 11:31 G	20390033.86	20390033.98	20390034.10	0.0139	0.0058
Mercury	51114-02-27 14:53 G	20390121.99	20390122.12	20390122.24	0.0139	0.0038
Mercury	51114-05-26 18:00 G	20390210.12	20390210.25	20390210.38	0.0140	0.0017
Mercury	51114-08-22 21:22 G	20390298.26	20390298.39	20390298.52	0.0140	0.0004
Mercury	51114-11-19 00:29 G	20390386.39	20390386.52	20390386.65	0.0140	0.0025
Mercury	51115-02-15 03:50 G	20390474.53	20390474.66	20390474.78	0.0140	0.0045
Mercury	51115-05-14 06:58 G	20390562.68	20390562.79	20390562.91	0.0140	0.0066
Mercury	51115-08-10 10:05 G	20390650.83	20390650.92	20390651.03	0.0140	0.0087
Mercury	51115-11-06 13:26 G	20390738.98	20390739.06	20390739.15	0.0140	0.0108

Mercury	51116-02-02 16:34 G	20390827.15	20390827.19	20390827.25	0.0140	0.0129
Venus	51121-06-04 20:38 G	20392776.27	20392776.36	20392776.47	0.0142	0.0126
Venus	51122-01-17 07:12 G	20393002.64	20393002.80	20393002.97	0.0142	0.0095
Venus	51122-08-31 17:46 G	20393229.05	20393229.24	20393229.44	0.0143	0.0063
Venus	51123-04-15 04:34 G	20393455.49	20393455.69	20393455.91	0.0143	0.0031
Venus	51123-11-27 15:50 G	20393681.95	20393682.16	20393682.38	0.0143	0.0003
Venus	51124-07-11 02:53 G	20393908.41	20393908.62	20393908.84	0.0143	0.0035
Venus	51125-02-22 13:55 G	20394134.90	20394135.08	20394135.28	0.0143	0.0068
Venus	51125-10-07 01:26 G	20394361.41	20394361.56	20394361.71	0.0143	0.0101
Venus	51126-05-21 12:29 G	20394587.96	20394588.02	20394588.11	0.0144	0.0134
Earth	51128-02-29 10:05 G	20395236.72	20395236.92	20395237.12	0.0144	0.0087
Moon	51128-02-29 13:26 G	20395236.87	20395237.06	20395237.28	0.0144	0.0087 *
Moon	51129-03-05 08:53 G	20395606.61	20395606.87	20395607.13	0.0144	0.0011
Earth	51129-03-05 12:14 G	20395606.76	20395607.01	20395607.27	0.0144	0.0007 *
Earth	51130-03-10 14:24 G	20395976.89	20395977.10	20395977.33	0.0144	0.0073
Moon	51130-03-10 17:17 G	20395977.03	20395977.22	20395977.44	0.0144	0.0081 *
Mars	51143-05-09 09:07 G	20400784.60	20400784.88	20400785.18	0.0143	0.0045
Mercury	51153-07-12 11:17 G	20404501.92	20404501.97	20404502.03	0.0139	0.0132
Mercury	51153-10-08 19:12 G	20404590.18	20404590.30	20404590.44	0.0139	0.0102
Mercury	51154-01-05 03:07 G	20404678.48	20404678.63	20404678.81	0.0139	0.0072
Mercury	51154-04-03 11:31 G	20404766.79	20404766.98	20404767.17	0.0139	0.0041
Mercury	51154-06-30 19:26 G	20404855.12	20404855.31	20404855.51	0.0139	0.0011
Mercury	51154-09-27 03:36 G	20404943.46	20404943.65	20404943.85	0.0138	0.0020
Mercury	51154-12-24 11:46 G	20405031.80	20405031.99	20405032.17	0.0138	0.0051
Mercury	51155-03-22 19:26 G	20405120.16	20405120.31	20405120.48	0.0138	0.0081
Mercury	51155-06-19 03:36 G	20405208.54	20405208.65	20405208.77	0.0138	0.0111
Venus	51161-09-20 21:36 G	20407494.31	20407494.40	20407494.50	0.0136	0.0121
Venus	51162-05-05 04:19 G	20407720.53	20407720.68	20407720.84	0.0136	0.0094
Venus	51162-12-17 10:48 G	20407946.77	20407946.95	20407947.15	0.0136	0.0067
Venus	51163-07-31 17:31 G	20408173.03	20408173.23	20408173.44	0.0135	0.0039

Venus	51164-03-14 00:00 G	20408399.29	20408399.50	20408399.72	0.0135	0.0011
Venus	51164-10-26 06:14 G	20408625.55	20408625.76	20408625.98	0.0135	0.0017
Venus	51165-06-09 12:43 G	20408851.83	20408852.03	20408852.24	0.0135	0.0044
Venus	51166-01-21 18:58 G	20409078.11	20409078.29	20409078.48	0.0135	0.0071
Venus	51166-09-05 01:12 G	20409304.40	20409304.55	20409304.70	0.0135	0.0098
Venus	51167-04-19 07:12 G	20409530.72	20409530.80	20409530.88	0.0135	0.0125
Earth	51168-08-27 19:41 G	20410027.23	20410027.32	20410027.44	0.0134	0.0122
Moon	51168-08-27 22:48 G	20410027.34	20410027.45	20410027.58	0.0134	0.0119 *
Moon	51169-09-01 00:29 G	20410396.31	20410396.52	20410396.74	0.0134	0.0062
Earth	51169-09-01 02:53 G	20410396.40	20410396.62	20410396.85	0.0134	0.0058 *
Earth	51170-09-05 09:22 G	20410765.64	20410765.89	20410766.15	0.0134	0.0005
Moon	51170-09-05 12:14 G	20410765.75	20410766.01	20410766.27	0.0134	0.0011 *
Moon	51171-09-09 12:58 G	20411134.82	20411135.04	20411135.26	0.0134	0.0060
Earth	51171-09-09 15:22 G	20411134.94	20411135.14	20411135.38	0.0134	0.0068 *
Earth	51172-09-12 21:22 G	20411504.35	20411504.39	20411504.47	0.0134	0.0130
Mercury	51197-01-03 06:00 G	20420382.72	20420382.75	20420382.79	0.0139	0.0133
Mercury	51197-04-01 09:07 G	20420470.82	20420470.88	20420470.96	0.0139	0.0113
Mercury	51197-06-28 12:29 G	20420558.93	20420559.02	20420559.12	0.0139	0.0093
Mercury	51197-09-24 15:50 G	20420647.05	20420647.16	20420647.27	0.0139	0.0072
Mercury	51197-12-21 18:58 G	20420735.17	20420735.29	20420735.42	0.0139	0.0052
Mercury	51198-03-19 22:19 G	20420823.30	20420823.43	20420823.56	0.0140	0.0031
Mercury	51198-06-16 01:41 G	20420911.44	20420911.57	20420911.70	0.0140	0.0011
Mercury	51198-09-12 04:48 G	20420999.57	20420999.70	20420999.83	0.0140	0.0011
Mercury	51198-12-09 08:10 G	20421087.71	20421087.84	20421087.96	0.0140	0.0031
Mercury	51199-03-07 11:17 G	20421175.85	20421175.97	20421176.09	0.0140	0.0052
Mercury	51199-06-03 14:24 G	20421264.00	20421264.10	20421264.22	0.0140	0.0073
Mercury	51199-08-30 17:46 G	20421352.15	20421352.24	20421352.34	0.0140	0.0093
Mercury	51199-11-26 20:53 G	20421440.30	20421440.37	20421440.45	0.0140	0.0114
Mercury	51200-02-23 00:00 G	20421528.48	20421528.50	20421528.55	0.0140	0.0136
Venus	51205-02-02 04:34 G	20423334.67	20423334.69	20423334.76	0.0142	0.0140

Venus	51205-09-16 15:22 G	20423561.01	20423561.14	20423561.29	0.0142	0.0107
Venus	51206-05-01 01:55 G	20423787.41	20423787.58	20423787.78	0.0142	0.0076
Venus	51206-12-13 12:58 G	20424013.84	20424014.04	20424014.26	0.0143	0.0044
Venus	51207-07-28 00:00 G	20424240.29	20424240.50	20424240.72	0.0143	0.0011
Venus	51208-03-10 11:02 G	20424466.75	20424466.96	20424467.18	0.0143	0.0022
Venus	51208-10-22 22:05 G	20424693.23	20424693.42	20424693.63	0.0143	0.0055
Venus	51209-06-06 09:07 G	20424919.73	20424919.88	20424920.07	0.0143	0.0089
Venus	51210-01-18 20:53 G	20425146.26	20425146.37	20425146.49	0.0143	0.0121
Earth	51212-02-29 22:05 G	20425918.22	20425918.42	20425918.64	0.0144	0.0081
Moon	51212-03-01 01:41 G	20425918.37	20425918.57	20425918.79	0.0144	0.0081 *
Moon	51213-03-05 20:38 G	20426288.11	20426288.36	20426288.62	0.0144	0.0004
Earth	51213-03-06 00:29 G	20426288.27	20426288.52	20426288.78	0.0144	0.0001 *
Earth	51214-03-11 02:24 G	20426658.40	20426658.60	20426658.83	0.0144	0.0079
Moon	51214-03-11 06:00 G	20426658.53	20426658.75	20426658.97	0.0144	0.0072 *
Mercury	51237-08-01 18:00 G	20435203.18	20435203.25	20435203.34	0.0139	0.0126
Mercury	51237-10-29 02:10 G	20435291.46	20435291.59	20435291.74	0.0139	0.0095
Mercury	51238-01-25 10:19 G	20435379.76	20435379.93	20435380.11	0.0139	0.0065
Mercury	51238-04-23 18:14 G	20435468.08	20435468.26	20435468.46	0.0139	0.0035
Mercury	51238-07-21 02:24 G	20435556.41	20435556.60	20435556.80	0.0138	0.0004
Mercury	51238-10-17 10:19 G	20435644.75	20435644.93	20435645.13	0.0138	0.0028
Mercury	51239-01-13 18:29 G	20435733.10	20435733.27	20435733.45	0.0138	0.0057
Mercury	51239-04-12 02:38 G	20435821.46	20435821.61	20435821.76	0.0138	0.0088
Mercury	51239-07-09 10:19 G	20435909.84	20435909.93	20435910.04	0.0138	0.0118
Venus	51245-05-21 06:00 G	20438052.71	20438052.75	20438052.79	0.0136	0.0133
Venus	51246-01-02 12:29 G	20438278.90	20438279.02	20438279.17	0.0136	0.0106
Venus	51246-08-16 19:26 G	20438505.14	20438505.31	20438505.49	0.0136	0.0078
Venus	51247-03-31 01:55 G	20438731.39	20438731.58	20438731.79	0.0136	0.0051
Venus	51247-11-12 08:38 G	20438957.65	20438957.86	20438958.07	0.0135	0.0023
Venus	51248-06-25 15:07 G	20439183.91	20439184.13	20439184.35	0.0135	0.0005
Venus	51249-02-06 21:22 G	20439410.18	20439410.39	20439410.61	0.0135	0.0033

Venus	51249-09-21 03:36 G	20439636.46	20439636.65	20439636.85	0.0135	0.0060
Venus	51250-05-05 09:50 G	20439862.75	20439862.91	20439863.08	0.0135	0.0087
Venus	51250-12-17 16:05 G	20440089.06	20440089.17	20440089.29	0.0135	0.0114
Earth	51252-08-28 05:02 G	20440708.61	20440708.71	20440708.85	0.0134	0.0118
Moon	51252-08-28 07:12 G	20440708.68	20440708.80	20440708.93	0.0134	0.0118 *
Moon	51253-09-01 09:50 G	20441077.70	20441077.91	20441078.15	0.0134	0.0051
Earth	51253-09-01 12:00 G	20441077.78	20441078.00	20441078.24	0.0134	0.0055 *
Earth	51254-09-05 18:43 G	20441447.03	20441447.28	20441447.54	0.0134	0.0008
Moon	51254-09-05 20:53 G	20441447.11	20441447.37	20441447.63	0.0134	0.0002 *
Moon	51255-09-09 23:02 G	20441816.26	20441816.46	20441816.66	0.0134	0.0077
Earth	51255-09-10 00:43 G	20441816.34	20441816.53	20441816.76	0.0134	0.0071 *
Earth	51256-09-13 06:43 G	20442185.77	20442185.78	20442185.82	0.0134	0.0133
Moon	51256-09-13 09:22 G	20442185.82	20442185.89	20442185.99	0.0134	0.0126 *
Jupiter	51265-01-23 17:02 G	20445239.86	20445240.21	20445240.62	0.0134	0.0088
Mars	51270-05-29 09:07 G	20447191.75	20447191.88	20447192.05	0.0135	0.0119
Mercury	51281-01-23 13:12 G	20451084.01	20451084.05	20451084.11	0.0139	0.0128
Mercury	51281-04-21 16:34 G	20451172.11	20451172.19	20451172.28	0.0139	0.0108
Mercury	51281-07-18 19:41 G	20451260.23	20451260.32	20451260.43	0.0139	0.0088
Mercury	51281-10-14 23:02 G	20451348.35	20451348.46	20451348.58	0.0139	0.0067
Mercury	51282-01-11 02:24 G	20451436.48	20451436.60	20451436.73	0.0140	0.0046
Mercury	51282-04-09 05:46 G	20451524.61	20451524.74	20451524.87	0.0140	0.0025
Mercury	51282-07-06 08:53 G	20451612.74	20451612.87	20451613.00	0.0140	0.0005
Mercury	51282-10-02 12:14 G	20451700.88	20451701.01	20451701.14	0.0140	0.0016
Mercury	51282-12-29 15:22 G	20451789.02	20451789.14	20451789.27	0.0140	0.0037
Mercury	51283-03-27 18:43 G	20451877.16	20451877.28	20451877.40	0.0140	0.0057
Mercury	51283-06-23 21:50 G	20451965.31	20451965.41	20451965.52	0.0140	0.0078
Mercury	51283-09-20 00:58 G	20452053.46	20452053.54	20452053.64	0.0140	0.0099
Mercury	51283-12-17 04:05 G	20452141.62	20452141.67	20452141.75	0.0140	0.0121
Venus	51289-05-16 23:02 G	20454119.36	20454119.46	20454119.59	0.0142	0.0120
Venus	51289-12-29 09:50 G	20454345.75	20454345.91	20454346.09	0.0142	0.0088

Venus	51290-08-12 20:24 G	20454572.17	20454572.35	20454572.57	0.0143	0.0057
Venus	51291-03-27 07:41 G	20454798.60	20454798.82	20454799.03	0.0143	0.0024
Venus	51291-11-08 18:43 G	20455025.06	20455025.28	20455025.50	0.0143	0.0009
Venus	51292-06-22 05:46 G	20455251.54	20455251.74	20455251.95	0.0143	0.0042
Venus	51293-02-03 16:48 G	20455478.03	20455478.20	20455478.40	0.0143	0.0075
Venus	51293-09-18 04:19 G	20455704.54	20455704.68	20455704.82	0.0143	0.0108
Venus	51294-05-02 15:36 G	20455931.12	20455931.15	20455931.20	0.0144	0.0141
Earth	51296-03-01 09:22 G	20456599.68	20456599.89	20456600.12	0.0144	0.0076
Moon	51296-03-01 12:58 G	20456599.84	20456600.04	20456600.28	0.0144	0.0077 *
Moon	51297-03-06 08:10 G	20456969.59	20456969.84	20456970.10	0.0144	0.0003
Earth	51297-03-06 11:46 G	20456969.73	20456969.99	20456970.25	0.0144	0.0004 *
Earth	51298-03-11 13:26 G	20457339.87	20457340.06	20457340.28	0.0144	0.0084
Moon	51298-03-11 17:02 G	20457340.03	20457340.21	20457340.42	0.0144	0.0092 *
Jupiter	51306-09-02 09:22 G	20460435.36	20460435.89	20460436.44	0.0144	0.0016
Mercury	51321-08-23 01:41 G	20465904.48	20465904.57	20465904.69	0.0139	0.0117
Mercury	51321-11-19 09:50 G	20465992.76	20465992.91	20465993.07	0.0139	0.0086
Mercury	51322-02-15 17:46 G	20466081.07	20466081.24	20466081.43	0.0139	0.0056
Mercury	51322-05-15 01:55 G	20466169.39	20466169.58	20466169.78	0.0139	0.0025
Mercury	51322-08-11 10:05 G	20466257.72	20466257.92	20466258.12	0.0138	0.0005
Mercury	51322-11-07 18:00 G	20466346.06	20466346.25	20466346.44	0.0138	0.0036
Mercury	51323-02-04 01:55 G	20466434.42	20466434.58	20466434.76	0.0138	0.0066
Mercury	51323-05-03 10:05 G	20466522.78	20466522.92	20466523.06	0.0138	0.0096
Mercury	51323-07-30 18:14 G	20466611.18	20466611.26	20466611.33	0.0138	0.0126
Venus	51329-09-02 21:50 G	20468837.32	20468837.41	20468837.53	0.0136	0.0117
Venus	51330-04-17 04:48 G	20469063.55	20469063.70	20469063.87	0.0136	0.0089
Venus	51330-11-29 11:31 G	20469289.79	20469289.98	20469290.18	0.0136	0.0061
Venus	51331-07-13 18:14 G	20469516.05	20469516.26	20469516.47	0.0135	0.0033
Venus	51332-02-25 00:43 G	20469742.31	20469742.53	20469742.75	0.0135	0.0006
Venus	51332-10-08 06:58 G	20469968.58	20469968.79	20469969.01	0.0135	0.0023
Venus	51333-05-22 13:41 G	20470194.87	20470195.07	20470195.27	0.0135	0.0049

Venus	51334-01-03 19:41 G	20470421.15	20470421.32	20470421.51	0.0135	0.0077
Venus	51334-08-18 01:41 G	20470647.45	20470647.57	20470647.72	0.0135	0.0104
Venus	51335-04-01 07:41 G	20470873.79	20470873.82	20470873.89	0.0135	0.0131
Earth	51336-08-29 15:50 G	20471390.05	20471390.16	20471390.31	0.0134	0.0114
Moon	51336-08-29 18:00 G	20471390.11	20471390.25	20471390.39	0.0134	0.0113 *
Moon	51337-09-02 21:50 G	20471759.19	20471759.41	20471759.63	0.0134	0.0054
Earth	51337-09-02 22:48 G	20471759.23	20471759.45	20471759.69	0.0134	0.0051 *
Earth	51338-09-07 05:17 G	20472128.47	20472128.72	20472128.97	0.0134	0.0012
Moon	51338-09-07 06:58 G	20472128.53	20472128.79	20472129.05	0.0134	0.0017 *
Moon	51339-09-11 09:36 G	20472497.70	20472497.90	20472498.12	0.0134	0.0068
Earth	51339-09-11 11:02 G	20472497.77	20472497.96	20472498.19	0.0134	0.0075 *
Mars	51355-01-23 08:24 G	20478110.58	20478110.85	20478111.15	0.0136	0.0052
Mercury	51365-02-13 20:38 G	20481785.30	20481785.36	20481785.42	0.0139	0.0123
Mercury	51365-05-13 00:00 G	20481873.41	20481873.50	20481873.58	0.0139	0.0103
Mercury	51365-08-09 03:07 G	20481961.53	20481961.63	20481961.74	0.0139	0.0082
Mercury	51365-11-05 06:29 G	20482049.65	20482049.77	20482049.88	0.0139	0.0062
Mercury	51366-02-01 09:36 G	20482137.78	20482137.90	20482138.03	0.0140	0.0041
Mercury	51366-04-30 12:58 G	20482225.91	20482226.04	20482226.17	0.0140	0.0021
Mercury	51366-07-27 16:05 G	20482314.04	20482314.17	20482314.30	0.0140	0.0002
Mercury	51366-10-23 19:26 G	20482402.18	20482402.31	20482402.44	0.0140	0.0021
Mercury	51367-01-19 22:34 G	20482490.32	20482490.44	20482490.57	0.0140	0.0042
Mercury	51367-04-18 01:55 G	20482578.46	20482578.58	20482578.69	0.0140	0.0062
Mercury	51367-07-15 05:02 G	20482666.61	20482666.71	20482666.82	0.0140	0.0083
Mercury	51367-10-11 08:10 G	20482754.76	20482754.84	20482754.93	0.0140	0.0104
Mercury	51368-01-07 11:31 G	20482842.93	20482842.98	20482843.04	0.0140	0.0125
Venus	51373-01-15 06:00 G	20484677.70	20484677.75	20484677.84	0.0142	0.0134
Venus	51373-08-29 16:48 G	20484904.06	20484904.20	20484904.36	0.0142	0.0101
Venus	51374-04-13 03:22 G	20485130.46	20485130.64	20485130.84	0.0143	0.0070
Venus	51374-11-25 14:38 G	20485356.90	20485357.11	20485357.32	0.0143	0.0037
Venus	51375-07-10 01:41 G	20485583.35	20485583.57	20485583.79	0.0143	0.0004

Venus	51376-02-21 12:29 G	20485809.81	20485810.02	20485810.24	0.0143	0.0029
Venus	51376-10-04 23:46 G	20486036.30	20486036.49	20486036.69	0.0143	0.0062
Venus	51377-05-19 10:48 G	20486262.80	20486262.95	20486263.12	0.0143	0.0095
Venus	51377-12-31 22:19 G	20486489.34	20486489.43	20486489.54	0.0144	0.0128
Earth	51380-03-02 19:26 G	20487281.09	20487281.31	20487281.54	0.0144	0.0072
Moon	51380-03-02 22:19 G	20487281.22	20487281.43	20487281.68	0.0144	0.0071 *
Moon	51381-03-07 18:00 G	20487650.99	20487651.25	20487651.50	0.0144	0.0012
Earth	51381-03-07 21:36 G	20487651.15	20487651.40	20487651.66	0.0144	0.0008 *
Earth	51382-03-12 23:17 G	20488021.29	20488021.47	20488021.69	0.0144	0.0089
Moon	51382-03-13 02:53 G	20488021.43	20488021.62	20488021.85	0.0144	0.0082 *
Mars	51395-05-22 16:19 G	20492839.89	20492840.18	20492840.49	0.0143	0.0019
Mercury	51405-09-13 08:53 G	20496605.76	20496605.87	20496606.00	0.0139	0.0109
Mercury	51405-12-10 16:48 G	20496694.05	20496694.20	20496694.37	0.0139	0.0079
Mercury	51406-03-09 01:12 G	20496782.36	20496782.55	20496782.73	0.0139	0.0048
Mercury	51406-06-05 09:07 G	20496870.69	20496870.88	20496871.08	0.0139	0.0018
Mercury	51406-09-01 17:17 G	20496959.02	20496959.22	20496959.41	0.0138	0.0013
Mercury	51406-11-29 00:58 G	20497047.36	20497047.54	20497047.74	0.0138	0.0044
Mercury	51407-02-25 09:07 G	20497135.72	20497135.88	20497136.05	0.0138	0.0073
Mercury	51407-05-24 17:17 G	20497224.09	20497224.22	20497224.35	0.0138	0.0104
Mercury	51407-08-21 00:58 G	20497312.51	20497312.54	20497312.60	0.0138	0.0134
Venus	51413-05-04 06:43 G	20499395.73	20499395.78	20499395.87	0.0136	0.0128
Venus	51413-12-16 13:55 G	20499621.94	20499622.08	20499622.23	0.0136	0.0100
Venus	51414-07-30 20:24 G	20499848.18	20499848.35	20499848.55	0.0136	0.0073
Venus	51415-03-14 03:07 G	20500074.43	20500074.63	20500074.84	0.0135	0.0045
Venus	51415-10-26 09:50 G	20500300.69	20500300.91	20500301.13	0.0135	0.0017
Venus	51416-06-08 16:19 G	20500526.97	20500527.18	20500527.40	0.0135	0.0012
Venus	51417-01-20 22:34 G	20500753.24	20500753.44	20500753.66	0.0135	0.0039
Venus	51417-09-04 04:48 G	20500979.52	20500979.70	20500979.90	0.0135	0.0066
Venus	51418-04-18 11:02 G	20501205.81	20501205.96	20501206.13	0.0135	0.0093
Venus	51418-11-30 17:17 G	20501432.13	20501432.22	20501432.32	0.0135	0.0120

Earth	51420-08-31 02:10 G	20502071.45	20502071.59	20502071.73	0.0134	0.0111
Moon	51420-08-31 01:55 G	20502071.45	20502071.58	20502071.75	0.0134	0.0109 *
Moon	51421-09-04 07:55 G	20502440.60	20502440.83	20502441.06	0.0134	0.0046
Earth	51421-09-04 08:24 G	20502440.63	20502440.85	20502441.10	0.0134	0.0048 *
Earth	51422-09-08 14:53 G	20502809.88	20502810.12	20502810.38	0.0134	0.0015
Moon	51422-09-08 15:36 G	20502809.90	20502810.15	20502810.42	0.0134	0.0011 *
Moon	51423-09-12 20:24 G	20503179.16	20503179.35	20503179.54	0.0134	0.0083
Earth	51423-09-12 21:07 G	20503179.18	20503179.38	20503179.59	0.0134	0.0077 *
Moon	51424-09-16 03:50 G	20503548.64	20503548.66	20503548.72	0.0134	0.0132
Mercury	51449-03-07 03:36 G	20512486.59	20512486.65	20512486.72	0.0139	0.0119
Mercury	51449-06-03 06:58 G	20512574.70	20512574.79	20512574.88	0.0139	0.0099
Mercury	51449-08-30 10:05 G	20512662.82	20512662.92	20512663.03	0.0139	0.0078
Mercury	51449-11-26 13:26 G	20512750.94	20512751.06	20512751.18	0.0139	0.0058
Mercury	51450-02-22 16:34 G	20512839.07	20512839.19	20512839.32	0.0140	0.0037
Mercury	51450-05-21 19:55 G	20512927.20	20512927.33	20512927.46	0.0140	0.0017
Mercury	51450-08-17 23:02 G	20513015.33	20513015.46	20513015.59	0.0140	0.0006
Mercury	51450-11-14 02:24 G	20513103.47	20513103.60	20513103.73	0.0140	0.0025
Mercury	51451-02-10 05:31 G	20513191.61	20513191.73	20513191.86	0.0140	0.0045
Mercury	51451-05-09 08:53 G	20513279.75	20513279.87	20513279.98	0.0140	0.0066
Mercury	51451-08-05 12:00 G	20513367.90	20513368.00	20513368.11	0.0140	0.0087
Mercury	51451-11-01 15:22 G	20513456.06	20513456.14	20513456.22	0.0140	0.0107
Mercury	51452-01-28 18:29 G	20513544.23	20513544.27	20513544.33	0.0140	0.0128
Venus	51457-04-29 22:48 G	20515462.33	20515462.45	20515462.58	0.0142	0.0115
Venus	51457-12-12 09:36 G	20515688.73	20515688.90	20515689.08	0.0142	0.0083
Venus	51458-07-26 20:10 G	20515915.15	20515915.34	20515915.56	0.0143	0.0052
Venus	51459-03-10 07:12 G	20516141.59	20516141.80	20516142.02	0.0143	0.0019
Venus	51459-10-22 18:14 G	20516368.05	20516368.26	20516368.48	0.0143	0.0014
Venus	51460-06-05 05:17 G	20516594.52	20516594.72	20516594.93	0.0143	0.0047
Venus	51461-01-17 16:19 G	20516821.01	20516821.18	20516821.37	0.0143	0.0081
Venus	51461-09-01 03:22 G	20517047.53	20517047.64	20517047.79	0.0143	0.0114

Moon	51463-02-27 23:02 G	20517592.46	20517592.46	20517592.48	0.0144	0.0144
Earth	51464-03-04 02:53 G	20517962.41	20517962.62	20517962.85	0.0144	0.0070
Moon	51464-03-04 06:00 G	20517962.53	20517962.75	20517962.99	0.0144	0.0072 *
Moon	51465-03-09 02:10 G	20518332.34	20518332.59	20518332.84	0.0144	0.0008
Earth	51465-03-09 05:02 G	20518332.46	20518332.71	20518332.97	0.0144	0.0010 *
Earth	51466-03-14 06:43 G	20518702.59	20518702.78	20518702.99	0.0144	0.0090
Moon	51466-03-14 10:34 G	20518702.76	20518702.94	20518703.14	0.0144	0.0096 *
Mercury	51489-07-07 07:41 G	20527218.78	20527218.82	20527218.88	0.0139	0.0133
Mercury	51489-10-03 15:36 G	20527307.03	20527307.15	20527307.29	0.0139	0.0103
Mercury	51489-12-30 23:31 G	20527395.33	20527395.48	20527395.66	0.0139	0.0073
Mercury	51490-03-29 07:55 G	20527483.64	20527483.83	20527484.02	0.0139	0.0042
Mercury	51490-06-25 15:50 G	20527571.97	20527572.16	20527572.36	0.0139	0.0012
Mercury	51490-09-22 00:00 G	20527660.30	20527660.50	20527660.69	0.0138	0.0019
Mercury	51490-12-19 07:41 G	20527748.65	20527748.82	20527749.02	0.0138	0.0050
Mercury	51491-03-17 15:50 G	20527837.01	20527837.16	20527837.33	0.0138	0.0080
Mercury	51491-06-14 00:00 G	20527925.38	20527925.50	20527925.62	0.0138	0.0110
Venus	51497-08-15 22:19 G	20530180.33	20530180.43	20530180.57	0.0136	0.0112
Venus	51498-03-30 05:17 G	20530406.56	20530406.72	20530406.90	0.0136	0.0084
Venus	51498-11-11 12:14 G	20530632.81	20530633.01	20530633.21	0.0136	0.0056
Venus	51499-06-25 18:58 G	20530859.08	20530859.29	20530859.51	0.0135	0.0028
Venus	51500-02-07 01:26 G	20531085.35	20531085.56	20531085.78	0.0135	0.0002
Venus	51500-09-21 07:41 G	20531311.62	20531311.82	20531312.04	0.0135	0.0028
Venus	51501-05-05 14:24 G	20531537.90	20531538.10	20531538.30	0.0135	0.0055
Venus	51501-12-17 20:24 G	20531764.19	20531764.35	20531764.53	0.0135	0.0083
Venus	51502-08-01 02:24 G	20531990.49	20531990.60	20531990.74	0.0135	0.0110
Moon	51504-09-01 12:00 G	20532752.86	20532753.00	20532753.16	0.0134	0.0109
Earth	51504-09-01 11:46 G	20532752.86	20532752.99	20532753.15	0.0134	0.0108 *
Earth	51505-09-05 18:29 G	20533122.04	20533122.27	20533122.52	0.0134	0.0045
Moon	51505-09-05 18:43 G	20533122.06	20533122.28	20533122.52	0.0134	0.0046 *
Moon	51506-09-10 01:12 G	20533491.29	20533491.55	20533491.80	0.0134	0.0022

Earth	51506-09-10 00:58 G	20533491.29	20533491.54	20533491.79	0.0134	0.0018	*
Moon	51507-09-14 06:29 G	20533860.58	20533860.77	20533860.99	0.0134	0.0075	
Earth	51507-09-14 06:58 G	20533860.59	20533860.79	20533860.99	0.0134	0.0080	*
Mars	51522-06-13 00:43 G	20539246.27	20539246.53	20539246.80	0.0135	0.0071	
Mercury	51532-12-30 07:26 G	20543099.79	20543099.81	20543099.84	0.0139	0.0135	
Mercury	51533-03-28 10:34 G	20543187.88	20543187.94	20543188.02	0.0139	0.0115	
Mercury	51533-06-24 13:55 G	20543275.99	20543276.08	20543276.18	0.0139	0.0095	
Mercury	51533-09-20 17:02 G	20543364.11	20543364.21	20543364.33	0.0139	0.0075	
Mercury	51533-12-17 20:24 G	20543452.23	20543452.35	20543452.47	0.0139	0.0054	
Mercury	51534-03-15 23:46 G	20543540.36	20543540.49	20543540.61	0.0140	0.0033	
Mercury	51534-06-12 02:53 G	20543628.49	20543628.62	20543628.75	0.0140	0.0013	
Mercury	51534-09-08 06:14 G	20543716.63	20543716.76	20543716.89	0.0140	0.0009	
Mercury	51534-12-05 09:22 G	20543804.76	20543804.89	20543805.02	0.0140	0.0029	
Mercury	51535-03-03 12:29 G	20543892.91	20543893.02	20543893.15	0.0140	0.0050	
Mercury	51535-05-30 15:50 G	20543981.05	20543981.16	20543981.27	0.0140	0.0070	
Mercury	51535-08-26 18:58 G	20544069.20	20544069.29	20544069.39	0.0140	0.0091	
Mercury	51535-11-22 22:19 G	20544157.35	20544157.43	20544157.51	0.0140	0.0111	
Mercury	51536-02-19 01:26 G	20544245.53	20544245.56	20544245.61	0.0140	0.0132	
Venus	51540-12-29 05:02 G	20546020.63	20546020.71	20546020.81	0.0142	0.0129	
Venus	51541-08-12 15:36 G	20546247.00	20546247.15	20546247.32	0.0142	0.0098	
Venus	51542-03-27 02:10 G	20546473.41	20546473.59	20546473.79	0.0142	0.0066	
Venus	51542-11-08 13:12 G	20546699.84	20546700.05	20546700.26	0.0143	0.0033	
Venus	51543-06-23 00:14 G	20546926.29	20546926.51	20546926.72	0.0143	0.0003	
Venus	51544-02-04 10:48 G	20547152.75	20547152.95	20547153.17	0.0143	0.0033	
Venus	51544-09-17 21:50 G	20547379.23	20547379.41	20547379.61	0.0143	0.0066	
Venus	51545-05-02 09:07 G	20547605.73	20547605.88	20547606.04	0.0143	0.0099	
Venus	51545-12-14 20:24 G	20547832.27	20547832.35	20547832.44	0.0143	0.0132	
Earth	51548-03-05 10:19 G	20548643.72	20548643.93	20548644.17	0.0144	0.0068	
Moon	51548-03-05 12:29 G	20548643.80	20548644.02	20548644.27	0.0144	0.0065	*
Moon	51549-03-10 09:22 G	20549013.64	20549013.89	20549014.14	0.0144	0.0013	

Earth	51549-03-10 12:14 G	20549013.76	20549014.01	20549014.27	0.0144	0.0012	*
Earth	51550-03-15 13:55 G	20549383.90	20549384.08	20549384.29	0.0144	0.0092	
Moon	51550-03-15 17:02 G	20549384.01	20549384.21	20549384.43	0.0144	0.0087	*
Mars	51562-10-10 02:53 G	20553975.52	20553975.62	20553975.74	0.0143	0.0133	
Mercury	51573-07-28 13:26 G	20557920.01	20557920.06	20557920.14	0.0139	0.0130	
Mercury	51573-10-24 21:36 G	20558008.27	20558008.40	20558008.54	0.0139	0.0100	
Mercury	51574-01-21 05:46 G	20558096.57	20558096.74	20558096.91	0.0139	0.0069	
Mercury	51574-04-19 13:41 G	20558184.89	20558185.07	20558185.26	0.0139	0.0039	
Mercury	51574-07-16 21:50 G	20558273.21	20558273.41	20558273.61	0.0139	0.0008	
Mercury	51574-10-13 05:46 G	20558361.55	20558361.74	20558361.94	0.0138	0.0022	
Mercury	51575-01-09 13:41 G	20558449.90	20558450.07	20558450.26	0.0138	0.0053	
Mercury	51575-04-07 21:50 G	20558538.25	20558538.41	20558538.57	0.0138	0.0083	
Mercury	51575-07-05 05:31 G	20558626.63	20558626.73	20558626.86	0.0138	0.0113	
Venus	51581-04-16 06:00 G	20560738.67	20560738.75	20560738.84	0.0136	0.0125	
Venus	51581-11-28 12:43 G	20560964.89	20560965.03	20560965.20	0.0136	0.0097	
Venus	51582-07-12 19:41 G	20561191.14	20561191.32	20561191.52	0.0136	0.0069	
Venus	51583-02-24 02:24 G	20561417.40	20561417.60	20561417.82	0.0136	0.0041	
Venus	51583-10-08 09:07 G	20561643.67	20561643.88	20561644.10	0.0135	0.0013	
Venus	51584-05-21 15:50 G	20561869.95	20561870.16	20561870.38	0.0135	0.0016	
Venus	51585-01-02 22:05 G	20562096.22	20562096.42	20562096.64	0.0135	0.0044	
Venus	51585-08-17 04:19 G	20562322.51	20562322.68	20562322.88	0.0135	0.0071	
Venus	51586-03-31 10:34 G	20562548.80	20562548.94	20562549.10	0.0135	0.0098	
Venus	51586-11-12 16:34 G	20562775.12	20562775.19	20562775.28	0.0135	0.0125	
Moon	51588-09-01 18:43 G	20563434.12	20563434.28	20563434.46	0.0134	0.0102	
Earth	51588-09-01 19:55 G	20563434.19	20563434.33	20563434.50	0.0134	0.0106	*
Earth	51589-09-06 02:38 G	20563803.38	20563803.61	20563803.86	0.0134	0.0043	
Moon	51589-09-06 03:22 G	20563803.41	20563803.64	20563803.88	0.0134	0.0042	*
Moon	51590-09-10 08:10 G	20564172.59	20564172.84	20564173.11	0.0134	0.0017	
Earth	51590-09-10 09:07 G	20564172.63	20564172.88	20564173.13	0.0134	0.0020	*
Earth	51591-09-14 15:22 G	20564541.94	20564542.14	20564542.34	0.0134	0.0082	

Moon	51591-09-14 16:05 G	20564541.99	20564542.17	20564542.36	0.0134	0.0088 *
Mars	51607-02-05 23:31 G	20570165.28	20570165.48	20570165.70	0.0136	0.0099
Mercury	51617-01-19 14:24 G	20573801.07	20573801.10	20573801.15	0.0139	0.0131
Mercury	51617-04-17 17:31 G	20573889.17	20573889.23	20573889.32	0.0139	0.0112
Mercury	51617-07-14 20:53 G	20573977.28	20573977.37	20573977.48	0.0139	0.0091
Mercury	51617-10-11 00:14 G	20574065.40	20574065.51	20574065.63	0.0139	0.0070
Mercury	51618-01-07 03:36 G	20574153.53	20574153.65	20574153.77	0.0139	0.0049
Mercury	51618-04-05 06:43 G	20574241.66	20574241.78	20574241.91	0.0139	0.0029
Mercury	51618-07-02 10:05 G	20574329.79	20574329.92	20574330.05	0.0140	0.0008
Mercury	51618-09-28 13:12 G	20574417.92	20574418.05	20574418.18	0.0140	0.0013
Mercury	51618-12-25 16:34 G	20574506.06	20574506.19	20574506.31	0.0140	0.0033
Mercury	51619-03-23 19:41 G	20574594.20	20574594.32	20574594.44	0.0140	0.0054
Mercury	51619-06-19 22:48 G	20574682.35	20574682.45	20574682.57	0.0140	0.0075
Mercury	51619-09-16 02:10 G	20574770.50	20574770.59	20574770.69	0.0140	0.0095
Mercury	51619-12-13 05:17 G	20574858.66	20574858.72	20574858.80	0.0140	0.0116
Mercury	51620-03-10 08:24 G	20574946.84	20574946.85	20574946.89	0.0140	0.0138
Venus	51625-04-11 22:19 G	20576805.30	20576805.43	20576805.57	0.0142	0.0111
Venus	51625-11-24 08:53 G	20577031.70	20577031.87	20577032.06	0.0142	0.0080
Venus	51626-07-08 19:26 G	20577258.12	20577258.31	20577258.53	0.0142	0.0048
Venus	51627-02-20 06:14 G	20577484.55	20577484.76	20577484.98	0.0143	0.0015
Venus	51627-10-04 17:02 G	20577711.00	20577711.21	20577711.43	0.0143	0.0019
Venus	51628-05-18 04:05 G	20577937.47	20577937.67	20577937.88	0.0143	0.0051
Venus	51628-12-30 15:07 G	20578163.96	20578164.13	20578164.31	0.0143	0.0084
Venus	51629-08-14 02:10 G	20578390.48	20578390.59	20578390.72	0.0143	0.0117
Moon	51631-03-01 16:34 G	20578955.12	20578955.19	20578955.26	0.0144	0.0137
Earth	51631-03-01 17:02 G	20578955.21	20578955.21	20578955.24	0.0144	0.0144 *
Earth	51632-03-05 18:29 G	20579325.05	20579325.27	20579325.51	0.0144	0.0065
Moon	51632-03-05 20:24 G	20579325.13	20579325.35	20579325.59	0.0144	0.0069 *
Moon	51633-03-10 18:29 G	20579695.03	20579695.27	20579695.52	0.0144	0.0015
Earth	51633-03-10 20:24 G	20579695.10	20579695.35	20579695.61	0.0144	0.0015 *

Earth	51634-03-15 21:50 G	20580065.24	20580065.41	20580065.62	0.0144	0.0095
Moon	51634-03-16 01:12 G	20580065.37	20580065.55	20580065.75	0.0144	0.0099 *
Mars	51647-06-05 02:53 G	20584894.35	20584894.62	20584894.91	0.0143	0.0050
Mercury	51657-08-17 19:41 G	20588621.25	20588621.32	20588621.41	0.0139	0.0126
Mercury	51657-11-14 03:36 G	20588709.52	20588709.65	20588709.80	0.0139	0.0096
Mercury	51658-02-10 11:31 G	20588797.82	20588797.98	20588798.17	0.0139	0.0066
Mercury	51658-05-09 19:55 G	20588886.14	20588886.33	20588886.52	0.0139	0.0035
Mercury	51658-08-06 03:50 G	20588974.46	20588974.66	20588974.86	0.0139	0.0005
Mercury	51658-11-02 11:46 G	20589062.80	20589062.99	20589063.19	0.0138	0.0026
Mercury	51659-01-29 19:41 G	20589151.15	20589151.32	20589151.51	0.0138	0.0056
Mercury	51659-04-28 03:50 G	20589239.51	20589239.66	20589239.81	0.0138	0.0086
Mercury	51659-07-25 11:46 G	20589327.89	20589327.99	20589328.10	0.0138	0.0117
Venus	51665-07-28 20:24 G	20591523.23	20591523.35	20591523.48	0.0136	0.0110
Venus	51666-03-12 03:07 G	20591749.47	20591749.63	20591749.82	0.0136	0.0082
Venus	51666-10-24 10:05 G	20591975.73	20591975.92	20591976.13	0.0136	0.0053
Venus	51667-06-07 17:02 G	20592202.00	20592202.21	20592202.43	0.0136	0.0025
Venus	51668-01-19 23:46 G	20592428.27	20592428.49	20592428.71	0.0135	0.0003
Venus	51668-09-02 06:00 G	20592654.54	20592654.75	20592654.97	0.0135	0.0031
Venus	51669-04-16 12:29 G	20592880.83	20592881.02	20592881.22	0.0135	0.0058
Venus	51669-11-28 18:29 G	20593107.12	20593107.27	20593107.45	0.0135	0.0086
Venus	51670-07-13 00:43 G	20593333.43	20593333.53	20593333.66	0.0135	0.0113
Moon	51672-09-02 02:38 G	20594115.47	20594115.61	20594115.79	0.0135	0.0106
Earth	51672-09-02 04:05 G	20594115.53	20594115.67	20594115.85	0.0135	0.0103 *
Earth	51673-09-06 11:02 G	20594484.73	20594484.96	20594485.21	0.0134	0.0040
Moon	51673-09-06 12:43 G	20594484.80	20594485.03	20594485.27	0.0134	0.0039 *
Moon	51674-09-10 16:05 G	20594853.92	20594854.17	20594854.43	0.0134	0.0025
Earth	51674-09-10 17:31 G	20594853.99	20594854.23	20594854.49	0.0134	0.0023 *
Earth	51675-09-14 23:46 G	20595223.30	20595223.49	20595223.69	0.0134	0.0085
Moon	51675-09-15 00:58 G	20595223.35	20595223.54	20595223.74	0.0134	0.0080 *
Mercury	51701-02-09 21:36 G	20604502.35	20604502.40	20604502.46	0.0139	0.0126

Mercury	51701-05-09 00:43 G	20604590.46	20604590.53	20604590.63	0.0139	0.0107
Mercury	51701-08-05 04:19 G	20604678.58	20604678.68	20604678.78	0.0139	0.0085
Mercury	51701-11-01 07:26 G	20604766.70	20604766.81	20604766.93	0.0139	0.0065
Mercury	51702-01-28 10:48 G	20604854.82	20604854.95	20604855.07	0.0139	0.0044
Mercury	51702-04-26 13:55 G	20604942.95	20604943.08	20604943.21	0.0140	0.0024
Mercury	51702-07-23 17:17 G	20605031.09	20605031.22	20605031.35	0.0140	0.0003
Mercury	51702-10-19 20:24 G	20605119.22	20605119.35	20605119.48	0.0140	0.0018
Mercury	51703-01-15 23:46 G	20605207.36	20605207.49	20605207.61	0.0140	0.0038
Mercury	51703-04-14 02:53 G	20605295.51	20605295.62	20605295.74	0.0140	0.0059
Mercury	51703-07-11 06:00 G	20605383.65	20605383.75	20605383.87	0.0140	0.0080
Mercury	51703-10-07 09:22 G	20605471.81	20605471.89	20605471.98	0.0140	0.0101
Mercury	51704-01-03 12:43 G	20605559.97	20605560.03	20605560.09	0.0140	0.0121
Venus	51708-12-11 05:31 G	20607363.64	20607363.73	20607363.84	0.0142	0.0125
Venus	51709-07-25 16:05 G	20607590.01	20607590.17	20607590.34	0.0142	0.0093
Venus	51710-03-09 02:24 G	20607816.42	20607816.60	20607816.81	0.0142	0.0062
Venus	51710-10-21 13:26 G	20608042.85	20608043.06	20608043.27	0.0143	0.0028
Venus	51711-06-05 00:14 G	20608269.29	20608269.51	20608269.73	0.0143	0.0004
Venus	51712-01-17 11:02 G	20608495.75	20608495.96	20608496.17	0.0143	0.0037
Venus	51712-08-30 21:50 G	20608722.23	20608722.41	20608722.61	0.0143	0.0071
Venus	51713-04-14 08:53 G	20608948.73	20608948.87	20608949.03	0.0143	0.0103
Venus	51713-11-26 19:55 G	20609175.28	20609175.33	20609175.42	0.0143	0.0137
Earth	51715-03-03 02:53 G	20609636.58	20609636.62	20609636.71	0.0144	0.0139
Earth	51716-03-07 04:48 G	20610006.47	20610006.70	20610006.94	0.0144	0.0060
Moon	51716-03-07 05:31 G	20610006.49	20610006.73	20610006.98	0.0144	0.0055 *
Moon	51717-03-12 04:34 G	20610376.45	20610376.69	20610376.94	0.0144	0.0019
Earth	51717-03-12 06:29 G	20610376.52	20610376.77	20610377.03	0.0144	0.0019 *
Earth	51718-03-17 08:38 G	20610746.67	20610746.86	20610747.04	0.0144	0.0099
Moon	51718-03-17 10:19 G	20610746.74	20610746.93	20610747.14	0.0144	0.0095 *
Mercury	51741-09-08 01:41 G	20619322.50	20619322.57	20619322.68	0.0139	0.0122
Mercury	51741-12-05 10:05 G	20619410.78	20619410.92	20619411.07	0.0139	0.0091

Mercury	51742-03-03 18:00 G	20619499.08	20619499.25	20619499.43	0.0139	0.0061
Mercury	51742-05-31 01:55 G	20619587.40	20619587.58	20619587.78	0.0139	0.0031
Mercury	51742-08-27 10:05 G	20619675.72	20619675.92	20619676.12	0.0138	0.0001
Mercury	51742-11-23 18:00 G	20619764.06	20619764.25	20619764.45	0.0138	0.0030
Mercury	51743-02-20 01:55 G	20619852.41	20619852.58	20619852.76	0.0138	0.0061
Mercury	51743-05-19 09:50 G	20619940.77	20619940.91	20619941.07	0.0138	0.0091
Mercury	51743-08-15 17:46 G	20620029.16	20620029.24	20620029.35	0.0138	0.0121
Venus	51749-03-29 03:50 G	20622081.57	20622081.66	20622081.76	0.0136	0.0122
Venus	51749-11-10 10:48 G	20622307.80	20622307.95	20622308.11	0.0136	0.0094
Venus	51750-06-24 17:46 G	20622534.06	20622534.24	20622534.44	0.0136	0.0066
Venus	51751-02-06 00:29 G	20622760.32	20622760.52	20622760.74	0.0136	0.0038
Venus	51751-09-20 07:12 G	20622986.58	20622986.80	20622987.02	0.0135	0.0010
Venus	51752-05-03 13:41 G	20623212.86	20623213.07	20623213.29	0.0135	0.0019
Venus	51752-12-15 19:55 G	20623439.14	20623439.33	20623439.55	0.0135	0.0047
Venus	51753-07-30 02:10 G	20623665.42	20623665.59	20623665.79	0.0135	0.0074
Venus	51754-03-13 08:24 G	20623891.72	20623891.85	20623892.01	0.0135	0.0101
Venus	51754-10-25 14:24 G	20624118.05	20624118.10	20624118.18	0.0135	0.0128
Moon	51756-09-03 09:22 G	20624796.71	20624796.89	20624797.08	0.0134	0.0095
Earth	51756-09-03 12:14 G	20624796.84	20624797.01	20624797.17	0.0134	0.0100 *
Earth	51757-09-07 18:43 G	20625166.05	20625166.28	20625166.53	0.0134	0.0037
Moon	51757-09-07 20:53 G	20625166.14	20625166.37	20625166.61	0.0134	0.0039 *
Moon	51758-09-11 23:02 G	20625535.21	20625535.46	20625535.72	0.0134	0.0024
Earth	51758-09-12 01:26 G	20625535.31	20625535.56	20625535.81	0.0134	0.0025 *
Earth	51759-09-16 07:26 G	20625904.64	20625904.81	20625905.02	0.0134	0.0088
Moon	51759-09-16 09:50 G	20625904.74	20625904.91	20625905.10	0.0134	0.0092 *
Mars	51774-06-25 13:12 G	20631300.75	20631301.05	20631301.37	0.0136	0.0024
Mercury	51785-03-02 04:48 G	20635203.64	20635203.70	20635203.77	0.0139	0.0122
Mercury	51785-05-29 08:10 G	20635291.75	20635291.84	20635291.93	0.0139	0.0101
Mercury	51785-08-25 11:31 G	20635379.87	20635379.98	20635380.08	0.0139	0.0081
Mercury	51785-11-21 14:38 G	20635467.99	20635468.11	20635468.23	0.0139	0.0060

Mercury	51786-02-17 18:00 G	20635556.12	20635556.25	20635556.37	0.0140	0.0040
Mercury	51786-05-16 21:07 G	20635644.25	20635644.38	20635644.51	0.0140	0.0019
Mercury	51786-08-13 00:29 G	20635732.39	20635732.52	20635732.65	0.0140	0.0002
Mercury	51786-11-09 03:36 G	20635820.53	20635820.65	20635820.78	0.0140	0.0023
Mercury	51787-02-05 06:58 G	20635908.67	20635908.79	20635908.91	0.0140	0.0043
Mercury	51787-05-04 10:05 G	20635996.81	20635996.92	20635997.04	0.0140	0.0064
Mercury	51787-07-31 13:26 G	20636084.96	20636085.06	20636085.16	0.0140	0.0085
Mercury	51787-10-27 16:34 G	20636173.11	20636173.19	20636173.28	0.0140	0.0106
Mercury	51788-01-23 19:55 G	20636261.28	20636261.33	20636261.39	0.0140	0.0127
Venus	51792-08-10 12:58 G	20637922.00	20637922.04	20637922.10	0.0142	0.0138
Venus	51793-03-24 23:31 G	20638148.34	20638148.48	20638148.63	0.0142	0.0106
Venus	51793-11-06 09:50 G	20638374.74	20638374.91	20638375.11	0.0142	0.0075
Venus	51794-06-20 20:53 G	20638601.16	20638601.37	20638601.57	0.0142	0.0042
Venus	51795-02-02 07:26 G	20638827.59	20638827.81	20638828.03	0.0143	0.0009
Venus	51795-09-16 18:00 G	20639054.04	20639054.25	20639054.47	0.0143	0.0024
Venus	51796-04-30 04:48 G	20639280.51	20639280.70	20639280.91	0.0143	0.0057
Venus	51796-12-12 16:05 G	20639507.01	20639507.17	20639507.35	0.0143	0.0090
Venus	51797-07-27 03:07 G	20639733.53	20639733.63	20639733.75	0.0143	0.0122
Earth	51799-03-03 13:41 G	20640317.99	20640318.07	20640318.18	0.0144	0.0134
Moon	51799-03-03 14:24 G	20640318.00	20640318.10	20640318.22	0.0144	0.0127 *
Earth	51800-03-08 15:22 G	20640687.91	20640688.14	20640688.38	0.0144	0.0055
Moon	51800-03-08 15:50 G	20640687.92	20640688.16	20640688.40	0.0144	0.0060 *
Moon	51801-03-13 16:34 G	20641057.95	20641058.19	20641058.44	0.0144	0.0026
Earth	51801-03-13 17:17 G	20641057.96	20641058.22	20641058.47	0.0144	0.0024 *
Earth	51802-03-18 19:12 G	20641428.13	20641428.30	20641428.48	0.0144	0.0103
Moon	51802-03-18 20:53 G	20641428.21	20641428.37	20641428.56	0.0144	0.0107 *
Mars	51814-10-23 22:34 G	20646030.21	20646030.44	20646030.68	0.0143	0.0088
Mercury	51825-09-29 08:53 G	20650023.77	20650023.87	20650023.98	0.0139	0.0115
Mercury	51825-12-26 16:48 G	20650112.05	20650112.20	20650112.36	0.0139	0.0085
Mercury	51826-03-25 00:43 G	20650200.36	20650200.53	20650200.72	0.0139	0.0055

Mercury	51826-06-21 08:53 G	20650288.68	20650288.87	20650289.07	0.0139	0.0024
Mercury	51826-09-17 17:02 G	20650377.01	20650377.21	20650377.40	0.0138	0.0007
Mercury	51826-12-15 00:58 G	20650465.35	20650465.54	20650465.73	0.0138	0.0037
Mercury	51827-03-13 08:38 G	20650553.70	20650553.86	20650554.04	0.0138	0.0068
Mercury	51827-06-09 16:48 G	20650642.07	20650642.20	20650642.35	0.0138	0.0097
Mercury	51827-09-06 00:43 G	20650730.47	20650730.53	20650730.61	0.0138	0.0127
Venus	51832-11-27 12:14 G	20652639.99	20652640.01	20652640.05	0.0136	0.0134
Venus	51833-07-11 19:12 G	20652866.18	20652866.30	20652866.45	0.0136	0.0106
Venus	51834-02-23 02:10 G	20653092.42	20653092.59	20653092.78	0.0136	0.0078
Venus	51834-10-07 08:53 G	20653318.68	20653318.87	20653319.08	0.0136	0.0050
Venus	51835-05-21 15:50 G	20653544.95	20653545.16	20653545.38	0.0136	0.0022
Venus	51836-01-02 22:19 G	20653771.22	20653771.43	20653771.65	0.0135	0.0007
Venus	51836-08-16 04:48 G	20653997.49	20653997.70	20653997.91	0.0135	0.0034
Venus	51837-03-30 10:48 G	20654223.77	20654223.95	20654224.16	0.0135	0.0062
Venus	51837-11-11 17:17 G	20654450.06	20654450.22	20654450.38	0.0135	0.0089
Venus	51838-06-25 23:31 G	20654676.38	20654676.48	20654676.59	0.0135	0.0116
Moon	51840-09-04 18:00 G	20655478.10	20655478.25	20655478.44	0.0134	0.0102
Earth	51840-09-04 20:53 G	20655478.21	20655478.37	20655478.56	0.0134	0.0097 *
Earth	51841-09-09 03:36 G	20655847.42	20655847.65	20655847.90	0.0134	0.0034
Moon	51841-09-09 06:43 G	20655847.54	20655847.78	20655848.02	0.0134	0.0032 *
Moon	51842-09-13 07:41 G	20656216.57	20656216.82	20656217.07	0.0134	0.0028
Earth	51842-09-13 10:34 G	20656216.69	20656216.94	20656217.19	0.0134	0.0029 *
Earth	51843-09-17 16:34 G	20656586.02	20656586.19	20656586.39	0.0134	0.0091
Moon	51843-09-17 18:58 G	20656586.12	20656586.29	20656586.49	0.0134	0.0087 *
Mercury	51868-12-25 08:38 G	20665816.85	20665816.86	20665816.88	0.0139	0.0138
Mercury	51869-03-23 12:00 G	20665904.93	20665905.00	20665905.07	0.0139	0.0117
Mercury	51869-06-19 15:07 G	20665993.04	20665993.13	20665993.23	0.0139	0.0097
Mercury	51869-09-15 18:29 G	20666081.16	20666081.27	20666081.38	0.0139	0.0076
Mercury	51869-12-12 21:50 G	20666169.29	20666169.41	20666169.53	0.0139	0.0056
Mercury	51870-03-11 00:58 G	20666257.42	20666257.54	20666257.67	0.0140	0.0035

Mercury	51870-06-07 04:19 G	20666345.55	20666345.68	20666345.81	0.0140	0.0014
Mercury	51870-09-03 07:26 G	20666433.68	20666433.81	20666433.95	0.0140	0.0008
Mercury	51870-11-30 10:48 G	20666521.82	20666521.95	20666522.08	0.0140	0.0027
Mercury	51871-02-26 13:55 G	20666609.96	20666610.08	20666610.21	0.0140	0.0048
Mercury	51871-05-25 17:17 G	20666698.11	20666698.22	20666698.34	0.0140	0.0069
Mercury	51871-08-21 20:38 G	20666786.26	20666786.36	20666786.46	0.0140	0.0089
Mercury	51871-11-17 23:46 G	20666874.42	20666874.49	20666874.57	0.0140	0.0110
Mercury	51872-02-14 02:53 G	20666962.59	20666962.62	20666962.67	0.0140	0.0132
Venus	51876-11-23 06:14 G	20668706.66	20668706.76	20668706.89	0.0142	0.0120
Venus	51877-07-07 16:48 G	20668933.04	20668933.20	20668933.38	0.0142	0.0088
Venus	51878-02-19 03:22 G	20669159.45	20669159.64	20669159.85	0.0142	0.0056
Venus	51878-10-03 14:10 G	20669385.88	20669386.09	20669386.31	0.0143	0.0023
Venus	51879-05-18 00:58 G	20669612.32	20669612.54	20669612.76	0.0143	0.0010
Venus	51879-12-30 11:46 G	20669838.79	20669838.99	20669839.21	0.0143	0.0043
Venus	51880-08-12 22:34 G	20670065.27	20670065.44	20670065.64	0.0143	0.0076
Venus	51881-03-27 09:50 G	20670291.78	20670291.91	20670292.06	0.0143	0.0109
Venus	51881-11-08 20:53 G	20670518.35	20670518.37	20670518.42	0.0143	0.0142
Earth	51883-03-04 23:46 G	20670999.39	20670999.49	20670999.61	0.0144	0.0129
Moon	51883-03-05 00:58 G	20670999.48	20670999.54	20670999.62	0.0144	0.0137 *
Moon	51884-03-09 00:29 G	20671369.28	20671369.52	20671369.79	0.0144	0.0045
Earth	51884-03-09 01:26 G	20671369.33	20671369.56	20671369.81	0.0144	0.0051 *
Moon	51885-03-14 02:53 G	20671739.38	20671739.62	20671739.87	0.0144	0.0027
Earth	51885-03-14 03:22 G	20671739.39	20671739.64	20671739.90	0.0144	0.0029 *
Earth	51886-03-19 05:17 G	20672109.57	20672109.72	20672109.91	0.0144	0.0108
Moon	51886-03-19 06:00 G	20672109.59	20672109.75	20672109.95	0.0144	0.0106 *
Mars	51899-06-19 05:31 G	20676949.55	20676949.73	20676949.95	0.0142	0.0106
Mercury	51909-07-24 07:55 G	20680636.82	20680636.83	20680636.86	0.0139	0.0138
Mercury	51909-10-20 15:50 G	20680725.05	20680725.16	20680725.29	0.0139	0.0108
Mercury	51910-01-16 23:46 G	20680813.34	20680813.49	20680813.67	0.0139	0.0078
Mercury	51910-04-15 07:55 G	20680901.65	20680901.83	20680902.02	0.0139	0.0047

Mercury	51910-07-12 16:05 G	20680989.98	20680990.17	20680990.37	0.0138	0.0017
Mercury	51910-10-09 00:00 G	20681078.31	20681078.50	20681078.70	0.0138	0.0014
Mercury	51911-01-05 07:55 G	20681166.65	20681166.83	20681167.02	0.0138	0.0044
Mercury	51911-04-03 15:50 G	20681255.00	20681255.16	20681255.33	0.0138	0.0074
Mercury	51911-07-01 00:00 G	20681343.38	20681343.50	20681343.63	0.0138	0.0104
Mercury	51911-09-27 07:55 G	20681431.80	20681431.83	20681431.88	0.0138	0.0134
Venus	51917-03-12 04:05 G	20683424.56	20683424.67	20683424.78	0.0136	0.0117
Venus	51917-10-24 10:48 G	20683650.79	20683650.95	20683651.12	0.0136	0.0089
Venus	51918-06-07 17:46 G	20683877.05	20683877.24	20683877.44	0.0136	0.0061
Venus	51919-01-20 00:29 G	20684103.31	20684103.52	20684103.73	0.0136	0.0033
Venus	51919-09-03 06:58 G	20684329.57	20684329.79	20684330.01	0.0135	0.0005
Venus	51920-04-16 13:12 G	20684555.84	20684556.05	20684556.27	0.0135	0.0023
Venus	51920-11-28 19:41 G	20684782.12	20684782.32	20684782.52	0.0135	0.0051
Venus	51921-07-13 01:55 G	20685008.41	20685008.58	20685008.76	0.0135	0.0078
Venus	51922-02-24 07:55 G	20685234.71	20685234.83	20685234.98	0.0135	0.0105
Venus	51922-10-08 13:55 G	20685461.05	20685461.08	20685461.13	0.0135	0.0132
Moon	51924-09-06 02:24 G	20686159.42	20686159.60	20686159.80	0.0134	0.0088
Earth	51924-09-06 06:14 G	20686159.58	20686159.76	20686159.93	0.0134	0.0094 *
Earth	51925-09-10 12:43 G	20686528.79	20686529.03	20686529.28	0.0134	0.0031
Moon	51925-09-10 15:36 G	20686528.92	20686529.15	20686529.40	0.0134	0.0035 *
Moon	51926-09-14 16:05 G	20686897.93	20686898.17	20686898.42	0.0134	0.0031
Earth	51926-09-14 19:26 G	20686898.06	20686898.31	20686898.55	0.0134	0.0031 *
Earth	51927-09-19 01:41 G	20687267.40	20687267.57	20687267.76	0.0134	0.0093
Moon	51927-09-19 04:34 G	20687267.54	20687267.69	20687267.88	0.0134	0.0096 *
Mercury	51953-01-15 15:36 G	20696518.13	20696518.15	20696518.19	0.0139	0.0135
Mercury	51953-04-13 18:43 G	20696606.22	20696606.28	20696606.36	0.0139	0.0115
Mercury	51953-07-10 22:05 G	20696694.33	20696694.42	20696694.52	0.0139	0.0094
Mercury	51953-10-07 01:26 G	20696782.45	20696782.56	20696782.67	0.0139	0.0073
Mercury	51954-01-03 04:34 G	20696870.58	20696870.69	20696870.82	0.0140	0.0053
Mercury	51954-04-01 07:55 G	20696958.71	20696958.83	20696958.96	0.0140	0.0032

Mercury	51954-06-28 11:17 G	20697046.84	20697046.97	20697047.10	0.0140	0.0011
Mercury	51954-09-24 14:38 G	20697134.98	20697135.11	20697135.24	0.0140	0.0011
Mercury	51954-12-21 17:46 G	20697223.11	20697223.24	20697223.37	0.0140	0.0031
Mercury	51955-03-19 20:53 G	20697311.26	20697311.37	20697311.50	0.0140	0.0052
Mercury	51955-06-16 00:14 G	20697399.40	20697399.51	20697399.62	0.0140	0.0072
Mercury	51955-09-12 03:36 G	20697487.55	20697487.65	20697487.75	0.0140	0.0093
Mercury	51955-12-09 06:43 G	20697575.71	20697575.78	20697575.86	0.0140	0.0114
Mercury	51956-03-06 09:50 G	20697663.89	20697663.91	20697663.95	0.0140	0.0135
Venus	51960-07-24 12:14 G	20699264.96	20699265.01	20699265.10	0.0142	0.0134
Venus	51961-03-07 22:34 G	20699491.31	20699491.44	20699491.61	0.0142	0.0102
Venus	51961-10-20 09:22 G	20699717.70	20699717.89	20699718.08	0.0142	0.0070
Venus	51962-06-03 19:55 G	20699944.13	20699944.33	20699944.55	0.0143	0.0037
Venus	51963-01-16 06:43 G	20700170.57	20700170.78	20700171.00	0.0143	0.0005
Venus	51963-08-30 17:31 G	20700397.02	20700397.23	20700397.45	0.0143	0.0029
Venus	51964-04-13 04:34 G	20700623.49	20700623.69	20700623.89	0.0143	0.0061
Venus	51964-11-25 15:36 G	20700849.99	20700850.15	20700850.32	0.0143	0.0094
Venus	51965-07-10 02:38 G	20701076.52	20701076.61	20701076.72	0.0143	0.0128
Earth	51967-03-06 07:55 G	20701680.73	20701680.83	20701680.97	0.0144	0.0127
Moon	51967-03-06 10:05 G	20701680.80	20701680.92	20701681.07	0.0144	0.0120 *
Moon	51968-03-10 09:07 G	20702050.63	20702050.88	20702051.12	0.0144	0.0054
Earth	51968-03-10 09:50 G	20702050.68	20702050.91	20702051.16	0.0144	0.0048 *
Earth	51969-03-15 12:00 G	20702420.76	20702421.00	20702421.26	0.0144	0.0031
Moon	51969-03-15 12:58 G	20702420.80	20702421.04	20702421.28	0.0144	0.0035 *
Earth	51970-03-20 14:24 G	20702790.94	20702791.10	20702791.27	0.0144	0.0110
Moon	51970-03-20 14:38 G	20702790.96	20702791.11	20702791.29	0.0144	0.0112 *
Mercury	51993-08-13 14:53 G	20711338.07	20711338.12	20711338.20	0.0139	0.0131
Mercury	51993-11-09 23:02 G	20711426.33	20711426.46	20711426.60	0.0139	0.0101
Mercury	51994-02-06 06:58 G	20711514.63	20711514.79	20711514.97	0.0139	0.0071
Mercury	51994-05-05 15:07 G	20711602.94	20711603.13	20711603.32	0.0139	0.0040
Mercury	51994-08-01 23:02 G	20711691.27	20711691.46	20711691.66	0.0138	0.0010

Mercury	51994-10-29 06:58 G	20711779.60	20711779.79	20711779.99	0.0138	0.0021
Mercury	51995-01-25 14:53 G	20711867.95	20711868.12	20711868.31	0.0138	0.0052
Mercury	51995-04-23 23:02 G	20711956.31	20711956.46	20711956.62	0.0138	0.0081
Mercury	51995-07-21 07:12 G	20712044.68	20712044.80	20712044.91	0.0138	0.0111
Venus	52000-11-09 12:29 G	20713982.98	20713983.02	20713983.11	0.0136	0.0130

53RD MILLENNIUM CE

This is a list of transits visible from Uranus in the 53rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	52001-06-23 19:41 G		20714209.19	20714209.32	20714209.48	0.0136	0.0101	
Venus	52002-02-05 02:24 G		20714435.43	20714435.60	20714435.80	0.0136	0.0073	
Venus	52002-09-19 09:07 G		20714661.69	20714661.88	20714662.10	0.0136	0.0045	
Venus	52003-05-03 15:50 G		20714887.95	20714888.16	20714888.38	0.0136	0.0017	
Venus	52003-12-15 22:34 G		20715114.22	20715114.44	20715114.65	0.0135	0.0012	
Venus	52004-07-29 04:48 G		20715340.49	20715340.70	20715340.91	0.0135	0.0040	
Venus	52005-03-12 10:48 G		20715566.77	20715566.95	20715567.15	0.0135	0.0068	
Venus	52005-10-24 17:17 G		20715793.06	20715793.22	20715793.37	0.0135	0.0094	
Venus	52006-06-07 23:02 G		20716019.39	20716019.46	20716019.57	0.0135	0.0122	
Moon	52008-09-06 12:14 G		20716840.85	20716841.01	20716841.20	0.0134	0.0097	
Earth	52008-09-06 15:50 G		20716840.98	20716841.16	20716841.35	0.0134	0.0091	*
Earth	52009-09-10 22:34 G		20717210.20	20717210.44	20717210.69	0.0134	0.0028	
Moon	52009-09-11 02:10 G		20717210.35	20717210.59	20717210.84	0.0134	0.0024	*
Moon	52010-09-15 01:55 G		20717579.33	20717579.58	20717579.83	0.0134	0.0032	

Earth	52010-09-15 05:17 G	20717579.48	20717579.72	20717579.97	0.0134	0.0034 *
Earth	52011-09-19 11:31 G	20717948.82	20717948.98	20717949.16	0.0134	0.0096
Moon	52011-09-19 14:53 G	20717948.95	20717949.12	20717949.31	0.0134	0.0093 *
Mars	52026-07-08 22:19 G	20723355.12	20723355.43	20723355.75	0.0135	0.0020
Mercury	52037-02-04 22:34 G	20727219.40	20727219.44	20727219.48	0.0139	0.0131
Mercury	52037-05-04 01:55 G	20727307.50	20727307.58	20727307.66	0.0139	0.0111
Mercury	52037-07-31 05:02 G	20727395.62	20727395.71	20727395.81	0.0139	0.0090
Mercury	52037-10-27 08:24 G	20727483.74	20727483.85	20727483.96	0.0139	0.0069
Mercury	52038-01-23 11:31 G	20727571.86	20727571.98	20727572.11	0.0139	0.0049
Mercury	52038-04-21 14:53 G	20727659.99	20727660.12	20727660.25	0.0140	0.0028
Mercury	52038-07-18 18:14 G	20727748.13	20727748.26	20727748.39	0.0140	0.0008
Mercury	52038-10-14 21:22 G	20727836.26	20727836.39	20727836.52	0.0140	0.0014
Mercury	52039-01-11 00:43 G	20727924.40	20727924.53	20727924.66	0.0140	0.0034
Mercury	52039-04-09 03:50 G	20728012.54	20728012.66	20728012.78	0.0140	0.0055
Mercury	52039-07-06 06:58 G	20728100.69	20728100.79	20728100.91	0.0140	0.0076
Mercury	52039-10-02 10:19 G	20728188.84	20728188.93	20728189.03	0.0140	0.0097
Mercury	52039-12-29 13:41 G	20728277.00	20728277.07	20728277.14	0.0140	0.0117
Mercury	52040-03-26 16:48 G	20728365.19	20728365.20	20728365.23	0.0140	0.0138
Venus	52044-11-05 04:05 G	20730049.56	20730049.67	20730049.81	0.0142	0.0117
Venus	52045-06-19 14:38 G	20730275.94	20730276.11	20730276.29	0.0142	0.0084
Venus	52046-02-01 00:58 G	20730502.35	20730502.54	20730502.75	0.0142	0.0053
Venus	52046-09-15 11:46 G	20730728.78	20730728.99	20730729.21	0.0143	0.0020
Venus	52047-04-29 22:34 G	20730955.22	20730955.44	20730955.66	0.0143	0.0013
Venus	52047-12-12 09:36 G	20731181.70	20731181.90	20731182.11	0.0143	0.0046
Venus	52048-07-25 20:38 G	20731408.18	20731408.36	20731408.54	0.0143	0.0079
Venus	52049-03-09 07:26 G	20731634.69	20731634.81	20731634.96	0.0143	0.0113
Earth	52051-03-06 14:53 G	20732362.01	20732362.12	20732362.27	0.0144	0.0125
Moon	52051-03-06 17:17 G	20732362.15	20732362.22	20732362.34	0.0144	0.0133 *
Moon	52052-03-10 14:53 G	20732731.86	20732732.12	20732732.37	0.0144	0.0039
Earth	52052-03-10 16:48 G	20732731.97	20732732.20	20732732.46	0.0144	0.0047 *

Earth	52053-03-15 18:58 G	20733102.05	20733102.29	20733102.55	0.0144	0.0033
Moon	52053-03-15 20:10 G	20733102.10	20733102.34	20733102.58	0.0144	0.0029 *
Moon	52054-03-20 20:10 G	20733472.19	20733472.34	20733472.52	0.0144	0.0112
Earth	52054-03-20 20:53 G	20733472.23	20733472.37	20733472.56	0.0144	0.0113 *
Mars	52066-11-05 22:19 G	20738085.16	20738085.43	20738085.73	0.0143	0.0040
Mercury	52077-09-02 21:22 G	20742039.32	20742039.39	20742039.48	0.0139	0.0126
Mercury	52077-11-30 05:17 G	20742127.60	20742127.72	20742127.88	0.0139	0.0096
Mercury	52078-02-26 13:26 G	20742215.90	20742216.06	20742216.24	0.0139	0.0065
Mercury	52078-05-25 21:36 G	20742304.21	20742304.40	20742304.59	0.0138	0.0035
Mercury	52078-08-22 05:31 G	20742392.54	20742392.73	20742392.93	0.0138	0.0005
Mercury	52078-11-18 13:26 G	20742480.87	20742481.06	20742481.26	0.0138	0.0026
Mercury	52079-02-14 21:22 G	20742569.22	20742569.39	20742569.58	0.0138	0.0057
Mercury	52079-05-14 05:31 G	20742657.58	20742657.73	20742657.89	0.0138	0.0087
Mercury	52079-08-10 13:12 G	20742745.96	20742746.05	20742746.17	0.0138	0.0117
Venus	52085-02-21 03:36 G	20744767.54	20744767.65	20744767.78	0.0136	0.0113
Venus	52085-10-05 10:19 G	20744993.78	20744993.93	20744994.12	0.0136	0.0085
Venus	52086-05-19 17:17 G	20745220.03	20745220.22	20745220.43	0.0136	0.0057
Venus	52087-01-01 00:00 G	20745446.29	20745446.50	20745446.72	0.0136	0.0029
Venus	52087-08-15 06:43 G	20745672.56	20745672.78	20745673.00	0.0135	0.0002
Venus	52088-03-28 12:58 G	20745898.83	20745899.04	20745899.26	0.0135	0.0028
Venus	52088-11-09 19:12 G	20746125.11	20746125.30	20746125.50	0.0135	0.0056
Venus	52089-06-24 01:26 G	20746351.40	20746351.56	20746351.74	0.0135	0.0083
Venus	52090-02-05 07:41 G	20746577.70	20746577.82	20746577.95	0.0135	0.0110
Moon	52092-09-06 20:38 G	20747522.18	20747522.36	20747522.57	0.0134	0.0082
Earth	52092-09-07 00:29 G	20747522.34	20747522.52	20747522.72	0.0134	0.0088 *
Earth	52093-09-11 07:12 G	20747891.56	20747891.80	20747892.06	0.0134	0.0027
Moon	52093-09-11 10:48 G	20747891.71	20747891.95	20747892.20	0.0134	0.0030 *
Moon	52094-09-15 10:19 G	20748260.69	20748260.93	20748261.18	0.0134	0.0038
Earth	52094-09-15 14:10 G	20748260.85	20748261.09	20748261.33	0.0134	0.0036 *
Earth	52095-09-19 20:10 G	20748630.19	20748630.34	20748630.53	0.0134	0.0099

Moon	52095-09-19 23:46 G	20748630.34	20748630.49	20748630.67	0.0134	0.0099 *
Mercury	52121-02-26 05:17 G	20757920.68	20757920.72	20757920.78	0.0139	0.0128
Mercury	52121-05-25 08:38 G	20758008.78	20758008.86	20758008.95	0.0139	0.0107
Mercury	52121-08-21 12:00 G	20758096.90	20758097.00	20758097.10	0.0139	0.0087
Mercury	52121-11-17 15:07 G	20758185.02	20758185.13	20758185.25	0.0139	0.0067
Mercury	52122-02-13 18:29 G	20758273.15	20758273.27	20758273.40	0.0139	0.0046
Mercury	52122-05-12 21:50 G	20758361.28	20758361.41	20758361.54	0.0140	0.0025
Mercury	52122-08-09 01:12 G	20758449.42	20758449.55	20758449.68	0.0140	0.0005
Mercury	52122-11-05 04:19 G	20758537.55	20758537.68	20758537.81	0.0140	0.0017
Mercury	52123-02-01 07:41 G	20758625.69	20758625.82	20758625.94	0.0140	0.0038
Mercury	52123-04-30 10:48 G	20758713.84	20758713.95	20758714.07	0.0140	0.0058
Mercury	52123-07-27 14:10 G	20758801.98	20758802.09	20758802.20	0.0140	0.0079
Mercury	52123-10-23 17:17 G	20758890.13	20758890.22	20758890.31	0.0140	0.0100
Mercury	52124-01-19 20:38 G	20758978.30	20758978.36	20758978.42	0.0140	0.0121
Venus	52128-07-06 09:36 G	20760607.84	20760607.90	20760608.00	0.0142	0.0131
Venus	52129-02-17 19:55 G	20760834.19	20760834.33	20760834.50	0.0142	0.0100
Venus	52129-10-02 06:29 G	20761060.59	20761060.77	20761060.97	0.0142	0.0067
Venus	52130-05-16 17:02 G	20761287.01	20761287.21	20761287.43	0.0142	0.0035
Venus	52130-12-29 04:05 G	20761513.45	20761513.67	20761513.89	0.0143	0.0002
Venus	52131-08-12 14:38 G	20761739.91	20761740.11	20761740.33	0.0143	0.0032
Venus	52132-03-26 01:41 G	20761966.38	20761966.57	20761966.77	0.0143	0.0064
Venus	52132-11-07 12:58 G	20762192.88	20762193.04	20762193.19	0.0143	0.0098
Venus	52133-06-22 00:00 G	20762419.42	20762419.50	20762419.59	0.0143	0.0131
Earth	52135-03-07 22:19 G	20763043.31	20763043.43	20763043.57	0.0144	0.0123
Moon	52135-03-08 01:12 G	20763043.43	20763043.55	20763043.72	0.0144	0.0117 *
Moon	52136-03-11 21:36 G	20763413.16	20763413.40	20763413.65	0.0144	0.0052
Earth	52136-03-12 00:00 G	20763413.26	20763413.50	20763413.75	0.0144	0.0045 *
Earth	52137-03-17 01:55 G	20763783.34	20763783.58	20763783.84	0.0144	0.0034
Moon	52137-03-17 04:19 G	20763783.45	20763783.68	20763783.93	0.0144	0.0040 *
Moon	52138-03-22 02:53 G	20764153.47	20764153.62	20764153.79	0.0144	0.0112

Earth	52138-03-22 03:50 G	20764153.52	20764153.66	20764153.84	0.0144	0.0113	*
Mercury	52161-09-24 03:36 G	20772740.57	20772740.65	20772740.75	0.0139	0.0122	
Mercury	52161-12-21 11:31 G	20772828.84	20772828.98	20772829.14	0.0139	0.0092	
Mercury	52162-03-19 19:26 G	20772917.15	20772917.31	20772917.50	0.0139	0.0062	
Mercury	52162-06-16 03:36 G	20773005.46	20773005.65	20773005.85	0.0138	0.0031	
Mercury	52162-09-12 11:46 G	20773093.79	20773093.99	20773094.18	0.0138	0.0002	
Mercury	52162-12-09 19:41 G	20773182.13	20773182.32	20773182.51	0.0138	0.0030	
Mercury	52163-03-08 03:36 G	20773270.48	20773270.65	20773270.83	0.0138	0.0060	
Mercury	52163-06-04 11:46 G	20773358.84	20773358.99	20773359.14	0.0138	0.0091	
Mercury	52163-08-31 19:26 G	20773447.23	20773447.31	20773447.41	0.0138	0.0121	
Venus	52168-10-22 10:48 G	20775325.89	20775325.95	20775326.05	0.0136	0.0127	
Venus	52169-06-05 18:00 G	20775552.11	20775552.25	20775552.41	0.0136	0.0098	
Venus	52170-01-18 00:43 G	20775778.36	20775778.53	20775778.73	0.0136	0.0070	
Venus	52170-09-01 07:26 G	20776004.62	20776004.81	20776005.03	0.0136	0.0042	
Venus	52171-04-15 14:10 G	20776230.88	20776231.09	20776231.31	0.0136	0.0014	
Venus	52171-11-27 20:53 G	20776457.15	20776457.37	20776457.59	0.0135	0.0015	
Venus	52172-07-11 03:07 G	20776683.43	20776683.63	20776683.85	0.0135	0.0044	
Venus	52173-02-22 09:22 G	20776909.72	20776909.89	20776910.09	0.0135	0.0071	
Venus	52173-10-06 15:50 G	20777136.02	20777136.16	20777136.31	0.0135	0.0098	
Venus	52174-05-20 21:50 G	20777362.35	20777362.41	20777362.50	0.0135	0.0126	
Moon	52176-09-08 06:00 G	20778203.57	20778203.75	20778203.93	0.0134	0.0092	
Earth	52176-09-08 09:07 G	20778203.70	20778203.88	20778204.09	0.0134	0.0086	*
Earth	52177-09-12 16:05 G	20778572.93	20778573.17	20778573.42	0.0134	0.0023	
Moon	52177-09-12 19:41 G	20778573.08	20778573.32	20778573.58	0.0134	0.0019	*
Moon	52178-09-16 19:26 G	20778942.07	20778942.31	20778942.56	0.0134	0.0036	
Earth	52178-09-16 22:48 G	20778942.22	20778942.45	20778942.70	0.0134	0.0039	*
Earth	52179-09-21 04:48 G	20779311.56	20779311.70	20779311.89	0.0134	0.0101	
Moon	52179-09-21 08:38 G	20779311.71	20779311.86	20779312.04	0.0134	0.0099	*
Jupiter	52190-06-07 11:46 G	20783223.54	20783223.99	20783224.45	0.0135	0.0057	
Mars	52193-11-25 06:14 G	20784490.59	20784490.76	20784490.96	0.0135	0.0110	

Mercury	52205-03-19 12:29 G	20788621.97	20788622.02	20788622.08	0.0139	0.0123
Mercury	52205-06-15 15:36 G	20788710.07	20788710.15	20788710.25	0.0139	0.0103
Mercury	52205-09-11 18:58 G	20788798.19	20788798.29	20788798.40	0.0139	0.0082
Mercury	52205-12-08 22:19 G	20788886.31	20788886.43	20788886.55	0.0139	0.0062
Mercury	52206-03-07 01:26 G	20788974.44	20788974.56	20788974.69	0.0139	0.0042
Mercury	52206-06-03 04:48 G	20789062.58	20789062.70	20789062.83	0.0140	0.0021
Mercury	52206-08-30 08:10 G	20789150.71	20789150.84	20789150.97	0.0140	0.0001
Mercury	52206-11-26 11:17 G	20789238.85	20789238.97	20789239.10	0.0140	0.0022
Mercury	52207-02-22 14:38 G	20789326.99	20789327.11	20789327.24	0.0140	0.0042
Mercury	52207-05-21 17:46 G	20789415.13	20789415.24	20789415.36	0.0140	0.0063
Mercury	52207-08-17 21:07 G	20789503.28	20789503.38	20789503.49	0.0140	0.0083
Mercury	52207-11-14 00:14 G	20789591.43	20789591.51	20789591.60	0.0140	0.0104
Mercury	52208-02-10 03:22 G	20789679.60	20789679.64	20789679.71	0.0140	0.0126
Venus	52212-10-19 02:10 G	20791392.47	20791392.59	20791392.73	0.0142	0.0114
Venus	52213-06-02 12:29 G	20791618.86	20791619.02	20791619.21	0.0142	0.0082
Venus	52214-01-14 23:17 G	20791845.27	20791845.47	20791845.68	0.0142	0.0049
Venus	52214-08-29 09:50 G	20792071.70	20792071.91	20792072.13	0.0142	0.0017
Venus	52215-04-12 20:38 G	20792298.15	20792298.36	20792298.58	0.0143	0.0017
Venus	52215-11-25 07:41 G	20792524.62	20792524.82	20792525.03	0.0143	0.0050
Venus	52216-07-08 18:29 G	20792751.11	20792751.27	20792751.46	0.0143	0.0083
Venus	52217-02-20 05:31 G	20792977.62	20792977.73	20792977.87	0.0143	0.0116
Earth	52219-03-09 06:14 G	20793724.65	20793724.76	20793724.93	0.0144	0.0120
Moon	52219-03-09 09:50 G	20793724.81	20793724.91	20793725.05	0.0144	0.0127 *
Moon	52220-03-13 05:02 G	20794094.46	20794094.71	20794094.97	0.0144	0.0034
Earth	52220-03-13 08:24 G	20794094.61	20794094.85	20794095.10	0.0144	0.0042 *
Earth	52221-03-18 10:19 G	20794464.68	20794464.93	20794465.18	0.0144	0.0037
Moon	52221-03-18 12:43 G	20794464.79	20794465.03	20794465.27	0.0144	0.0032 *
Moon	52222-03-23 09:36 G	20794834.76	20794834.90	20794835.06	0.0144	0.0118
Earth	52222-03-23 11:46 G	20794834.86	20794834.99	20794835.17	0.0144	0.0116 *
Mercury	52245-10-15 09:36 G	20803441.81	20803441.90	20803442.02	0.0139	0.0118

Mercury	52246-01-11 17:31 G	20803530.10	20803530.23	20803530.40	0.0139	0.0088
Mercury	52246-04-10 01:55 G	20803618.40	20803618.58	20803618.76	0.0139	0.0057
Mercury	52246-07-07 09:50 G	20803706.72	20803706.91	20803707.10	0.0138	0.0027
Mercury	52246-10-03 17:46 G	20803795.05	20803795.24	20803795.44	0.0138	0.0005
Mercury	52246-12-31 01:41 G	20803883.39	20803883.57	20803883.77	0.0138	0.0035
Mercury	52247-03-29 09:50 G	20803971.74	20803971.91	20803972.08	0.0138	0.0064
Mercury	52247-06-25 17:31 G	20804060.10	20804060.23	20804060.39	0.0138	0.0095
Mercury	52247-09-22 01:26 G	20804148.50	20804148.56	20804148.66	0.0138	0.0125
Venus	52253-02-04 00:58 G	20806110.43	20806110.54	20806110.68	0.0136	0.0112
Venus	52253-09-18 07:55 G	20806336.67	20806336.83	20806337.01	0.0136	0.0083
Venus	52254-05-02 14:38 G	20806562.93	20806563.11	20806563.32	0.0136	0.0055
Venus	52254-12-14 21:36 G	20806789.19	20806789.40	20806789.62	0.0136	0.0026
Venus	52255-07-29 04:19 G	20807015.46	20807015.68	20807015.90	0.0136	0.0002
Venus	52256-03-11 10:34 G	20807241.74	20807241.94	20807242.16	0.0135	0.0031
Venus	52256-10-23 17:02 G	20807468.02	20807468.21	20807468.41	0.0135	0.0058
Venus	52257-06-06 23:17 G	20807694.32	20807694.47	20807694.65	0.0135	0.0086
Venus	52258-01-19 05:46 G	20807920.63	20807920.74	20807920.87	0.0135	0.0113
Moon	52260-09-09 13:41 G	20808884.87	20808885.07	20808885.28	0.0134	0.0076
Earth	52260-09-09 16:48 G	20808885.02	20808885.20	20808885.41	0.0134	0.0084 *
Earth	52261-09-14 00:00 G	20809254.25	20809254.50	20809254.75	0.0134	0.0021
Moon	52261-09-14 03:07 G	20809254.39	20809254.63	20809254.89	0.0134	0.0026 *
Moon	52262-09-18 03:07 G	20809623.40	20809623.63	20809623.87	0.0134	0.0044
Earth	52262-09-18 06:29 G	20809623.54	20809623.77	20809624.02	0.0134	0.0042 *
Earth	52263-09-22 12:29 G	20809992.88	20809993.02	20809993.20	0.0134	0.0104
Moon	52263-09-22 15:50 G	20809993.02	20809993.16	20809993.34	0.0134	0.0103 *
Mars	52278-07-22 05:17 G	20815409.46	20815409.72	20815410.03	0.0136	0.0062
Mercury	52289-04-08 19:26 G	20819323.25	20819323.31	20819323.38	0.0139	0.0119
Mercury	52289-07-05 22:48 G	20819411.36	20819411.45	20819411.55	0.0139	0.0099
Mercury	52289-10-02 01:55 G	20819499.48	20819499.58	20819499.70	0.0139	0.0079
Mercury	52289-12-29 05:17 G	20819587.61	20819587.72	20819587.85	0.0139	0.0058

Mercury	52290-03-27 08:38 G	20819675.74	20819675.86	20819675.99	0.0140	0.0037
Mercury	52290-06-23 12:00 G	20819763.87	20819764.00	20819764.13	0.0140	0.0016
Mercury	52290-09-19 15:22 G	20819852.01	20819852.14	20819852.27	0.0140	0.0006
Mercury	52290-12-16 18:29 G	20819940.14	20819940.27	20819940.40	0.0140	0.0026
Mercury	52291-03-14 21:50 G	20820028.28	20820028.41	20820028.53	0.0140	0.0046
Mercury	52291-06-11 00:58 G	20820116.43	20820116.54	20820116.66	0.0140	0.0067
Mercury	52291-09-07 04:05 G	20820204.58	20820204.67	20820204.78	0.0140	0.0088
Mercury	52291-12-04 07:26 G	20820292.73	20820292.81	20820292.90	0.0140	0.0109
Mercury	52292-03-01 10:48 G	20820380.90	20820380.95	20820381.00	0.0140	0.0129
Venus	52296-06-18 09:07 G	20821950.80	20821950.88	20821950.99	0.0142	0.0128
Venus	52297-01-30 19:26 G	20822177.16	20822177.31	20822177.48	0.0142	0.0096
Venus	52297-09-14 06:00 G	20822403.56	20822403.75	20822403.95	0.0142	0.0064
Venus	52298-04-28 16:48 G	20822629.99	20822630.20	20822630.41	0.0142	0.0031
Venus	52298-12-11 03:50 G	20822856.44	20822856.66	20822856.87	0.0143	0.0004
Venus	52299-07-25 14:24 G	20823082.90	20823083.10	20823083.32	0.0143	0.0036
Venus	52300-03-09 01:12 G	20823309.37	20823309.55	20823309.76	0.0143	0.0069
Venus	52300-10-21 12:14 G	20823535.87	20823536.01	20823536.18	0.0143	0.0102
Venus	52301-06-04 23:17 G	20823762.42	20823762.47	20823762.56	0.0143	0.0136
Earth	52303-03-10 16:34 G	20824406.05	20824406.19	20824406.36	0.0144	0.0115
Moon	52303-03-10 20:24 G	20824406.19	20824406.35	20824406.52	0.0144	0.0109 *
Moon	52304-03-14 14:53 G	20824775.89	20824776.12	20824776.38	0.0144	0.0045
Earth	52304-03-14 18:29 G	20824776.03	20824776.27	20824776.52	0.0144	0.0037 *
Earth	52305-03-19 20:10 G	20825146.10	20825146.34	20825146.59	0.0144	0.0042
Moon	52305-03-19 23:17 G	20825146.25	20825146.47	20825146.72	0.0144	0.0049 *
Moon	52306-03-24 19:41 G	20825516.17	20825516.32	20825516.47	0.0144	0.0117
Earth	52306-03-24 21:50 G	20825516.29	20825516.41	20825516.57	0.0144	0.0120 *
Jupiter	52314-11-28 13:55 G	20828686.79	20828687.08	20828687.45	0.0144	0.0114
Mars	52318-11-20 14:24 G	20830139.80	20830140.10	20830140.40	0.0143	0.0002
Mercury	52329-11-05 16:19 G	20834143.08	20834143.18	20834143.30	0.0139	0.0112
Mercury	52330-02-02 00:14 G	20834231.37	20834231.51	20834231.68	0.0139	0.0082

Mercury	52330-05-01 08:24 G	20834319.67	20834319.85	20834320.04	0.0139	0.0051
Mercury	52330-07-28 16:34 G	20834407.99	20834408.19	20834408.38	0.0138	0.0021
Mercury	52330-10-25 00:29 G	20834496.32	20834496.52	20834496.72	0.0138	0.0010
Mercury	52331-01-21 08:24 G	20834584.67	20834584.85	20834585.04	0.0138	0.0040
Mercury	52331-04-19 16:19 G	20834673.02	20834673.18	20834673.35	0.0138	0.0070
Mercury	52331-07-17 00:14 G	20834761.39	20834761.51	20834761.65	0.0138	0.0101
Mercury	52331-10-13 08:24 G	20834849.79	20834849.85	20834849.91	0.0138	0.0130
Venus	52336-10-05 08:38 G	20836668.79	20836668.86	20836668.97	0.0136	0.0124
Venus	52337-05-19 16:05 G	20836895.02	20836895.17	20836895.33	0.0136	0.0096
Venus	52337-12-31 22:48 G	20837121.27	20837121.45	20837121.65	0.0136	0.0067
Venus	52338-08-15 05:31 G	20837347.53	20837347.73	20837347.95	0.0136	0.0039
Venus	52339-03-29 12:14 G	20837573.80	20837574.01	20837574.23	0.0136	0.0011
Venus	52339-11-10 18:58 G	20837800.07	20837800.29	20837800.50	0.0135	0.0018
Venus	52340-06-24 01:12 G	20838026.36	20838026.55	20838026.77	0.0135	0.0046
Venus	52341-02-05 07:55 G	20838252.65	20838252.83	20838253.01	0.0135	0.0074
Venus	52341-09-19 13:55 G	20838478.95	20838479.08	20838479.24	0.0135	0.0101
Venus	52342-05-03 20:10 G	20838705.29	20838705.34	20838705.42	0.0135	0.0129
Moon	52344-09-10 22:48 G	20839566.27	20839566.45	20839566.65	0.0134	0.0087
Earth	52344-09-11 01:41 G	20839566.38	20839566.57	20839566.78	0.0134	0.0080 *
Earth	52345-09-15 08:38 G	20839935.61	20839935.86	20839936.11	0.0134	0.0018
Moon	52345-09-15 11:46 G	20839935.74	20839935.99	20839936.25	0.0134	0.0012 *
Moon	52346-09-19 12:14 G	20840304.79	20840305.01	20840305.26	0.0134	0.0040
Earth	52346-09-19 15:07 G	20840304.90	20840305.13	20840305.37	0.0134	0.0044 *
Earth	52347-09-23 21:07 G	20840674.25	20840674.38	20840674.55	0.0134	0.0106
Moon	52347-09-24 00:58 G	20840674.38	20840674.54	20840674.70	0.0134	0.0106 *
Mercury	52373-01-31 23:17 G	20849936.45	20849936.47	20849936.51	0.0139	0.0136
Mercury	52373-04-30 02:53 G	20850024.54	20850024.62	20850024.69	0.0139	0.0115
Mercury	52373-07-27 06:00 G	20850112.66	20850112.75	20850112.85	0.0139	0.0094
Mercury	52373-10-23 09:07 G	20850200.78	20850200.88	20850201.00	0.0139	0.0074
Mercury	52374-01-19 12:29 G	20850288.90	20850289.02	20850289.15	0.0140	0.0053

Mercury	52374-04-17 15:50 G	20850377.03	20850377.16	20850377.29	0.0140	0.0032
Mercury	52374-07-14 19:12 G	20850465.17	20850465.30	20850465.43	0.0140	0.0012
Mercury	52374-10-10 22:19 G	20850553.30	20850553.43	20850553.56	0.0140	0.0010
Mercury	52375-01-07 01:41 G	20850641.44	20850641.57	20850641.70	0.0140	0.0030
Mercury	52375-04-05 04:48 G	20850729.58	20850729.70	20850729.83	0.0140	0.0051
Mercury	52375-07-02 07:55 G	20850817.73	20850817.83	20850817.95	0.0140	0.0072
Mercury	52375-09-28 11:17 G	20850905.88	20850905.97	20850906.07	0.0140	0.0093
Mercury	52375-12-25 14:38 G	20850994.04	20850994.11	20850994.19	0.0140	0.0113
Mercury	52376-03-22 17:46 G	20851082.21	20851082.24	20851082.28	0.0140	0.0134
Venus	52380-02-17 16:19 G	20852509.17	20852509.18	20852509.21	0.0142	0.0141
Venus	52380-10-01 02:38 G	20852735.48	20852735.61	20852735.75	0.0142	0.0109
Venus	52381-05-15 12:58 G	20852961.87	20852962.04	20852962.23	0.0142	0.0078
Venus	52381-12-28 00:00 G	20853188.29	20853188.50	20853188.71	0.0142	0.0045
Venus	52382-08-11 10:34 G	20853414.73	20853414.94	20853415.16	0.0142	0.0012
Venus	52383-03-25 21:22 G	20853641.18	20853641.39	20853641.61	0.0143	0.0022
Venus	52383-11-07 08:24 G	20853867.65	20853867.85	20853868.06	0.0143	0.0055
Venus	52384-06-20 19:26 G	20854094.15	20854094.31	20854094.49	0.0143	0.0088
Venus	52385-02-02 06:29 G	20854320.67	20854320.77	20854320.90	0.0143	0.0121
Earth	52387-03-11 02:53 G	20855087.47	20855087.62	20855087.80	0.0144	0.0110
Moon	52387-03-11 06:29 G	20855087.64	20855087.77	20855087.94	0.0144	0.0117 *
Moon	52388-03-15 00:58 G	20855457.29	20855457.54	20855457.80	0.0144	0.0025
Earth	52388-03-15 04:48 G	20855457.45	20855457.70	20855457.95	0.0144	0.0032 *
Earth	52389-03-20 06:29 G	20855827.53	20855827.77	20855828.02	0.0144	0.0046
Moon	52389-03-20 09:36 G	20855827.66	20855827.90	20855828.15	0.0144	0.0040 *
Moon	52390-03-25 04:48 G	20856197.59	20856197.70	20856197.82	0.0144	0.0129
Earth	52390-03-25 08:10 G	20856197.72	20856197.84	20856197.98	0.0144	0.0124 *
Mercury	52413-08-29 15:22 G	20864756.11	20864756.14	20864756.20	0.0139	0.0135
Mercury	52413-11-25 23:46 G	20864844.36	20864844.49	20864844.62	0.0139	0.0104
Mercury	52414-02-22 07:41 G	20864932.66	20864932.82	20864932.99	0.0139	0.0074
Mercury	52414-05-21 15:36 G	20865020.97	20865021.15	20865021.34	0.0138	0.0044

Mercury	52414-08-17 23:31 G	20865109.29	20865109.48	20865109.68	0.0138	0.0014
Mercury	52414-11-14 07:26 G	20865197.62	20865197.81	20865198.01	0.0138	0.0017
Mercury	52415-02-10 15:22 G	20865285.96	20865286.14	20865286.33	0.0138	0.0047
Mercury	52415-05-09 23:31 G	20865374.32	20865374.48	20865374.64	0.0138	0.0077
Mercury	52415-08-06 07:26 G	20865462.69	20865462.81	20865462.94	0.0138	0.0107
Mercury	52415-11-02 15:22 G	20865551.13	20865551.14	20865551.16	0.0138	0.0137
Venus	52420-06-04 17:46 G	20867227.22	20867227.24	20867227.25	0.0136	0.0136
Venus	52421-01-17 00:29 G	20867453.40	20867453.52	20867453.66	0.0136	0.0108
Venus	52421-08-31 07:12 G	20867679.64	20867679.80	20867679.99	0.0136	0.0079
Venus	52422-04-14 14:10 G	20867905.89	20867906.09	20867906.30	0.0136	0.0051
Venus	52422-11-26 20:53 G	20868132.16	20868132.37	20868132.59	0.0136	0.0022
Venus	52423-07-11 03:36 G	20868358.44	20868358.65	20868358.87	0.0135	0.0006
Venus	52424-02-22 10:05 G	20868584.71	20868584.92	20868585.13	0.0135	0.0034
Venus	52424-10-05 16:19 G	20868811.00	20868811.18	20868811.38	0.0135	0.0062
Venus	52425-05-19 22:48 G	20869037.30	20869037.45	20869037.62	0.0135	0.0090
Venus	52426-01-01 05:17 G	20869263.62	20869263.72	20869263.83	0.0135	0.0117
Moon	52428-09-11 08:24 G	20870247.64	20870247.85	20870248.06	0.0134	0.0070
Earth	52428-09-11 10:19 G	20870247.74	20870247.93	20870248.15	0.0134	0.0078 *
Earth	52429-09-15 17:17 G	20870616.98	20870617.22	20870617.48	0.0134	0.0015
Moon	52429-09-15 19:41 G	20870617.07	20870617.32	20870617.58	0.0134	0.0021 *
Moon	52430-09-19 20:53 G	20870986.16	20870986.37	20870986.61	0.0134	0.0052
Earth	52430-09-19 23:46 G	20870986.26	20870986.49	20870986.74	0.0134	0.0047 *
Earth	52431-09-24 05:46 G	20871355.61	20871355.74	20871355.90	0.0134	0.0108
Moon	52431-09-24 08:24 G	20871355.70	20871355.85	20871356.01	0.0134	0.0105 *
Mars	52445-12-08 12:14 G	20876544.75	20876545.01	20876545.30	0.0136	0.0069
Mercury	52457-02-21 06:29 G	20880637.73	20880637.77	20880637.81	0.0139	0.0132
Mercury	52457-05-20 09:36 G	20880725.83	20880725.90	20880725.99	0.0139	0.0111
Mercury	52457-08-16 12:58 G	20880813.95	20880814.04	20880814.14	0.0139	0.0090
Mercury	52457-11-12 16:19 G	20880902.07	20880902.18	20880902.29	0.0140	0.0070
Mercury	52458-02-08 19:26 G	20880990.19	20880990.31	20880990.44	0.0140	0.0049

Mercury	52458-05-07 22:48 G	20881078.32	20881078.45	20881078.58	0.0140	0.0028
Mercury	52458-08-04 02:10 G	20881166.46	20881166.59	20881166.72	0.0140	0.0008
Mercury	52458-10-31 05:17 G	20881254.59	20881254.72	20881254.85	0.0140	0.0014
Mercury	52459-01-27 08:38 G	20881342.73	20881342.86	20881342.99	0.0140	0.0034
Mercury	52459-04-25 11:46 G	20881430.88	20881430.99	20881431.12	0.0140	0.0055
Mercury	52459-07-22 15:07 G	20881519.02	20881519.13	20881519.24	0.0140	0.0075
Mercury	52459-10-18 18:14 G	20881607.17	20881607.26	20881607.36	0.0140	0.0097
Mercury	52460-01-14 21:36 G	20881695.33	20881695.40	20881695.47	0.0140	0.0117
Mercury	52460-04-12 00:58 G	20881783.52	20881783.54	20881783.56	0.0140	0.0138
Venus	52464-05-31 09:07 G	20883293.79	20883293.88	20883294.00	0.0142	0.0123
Venus	52465-01-12 19:41 G	20883520.17	20883520.32	20883520.50	0.0142	0.0091
Venus	52465-08-27 06:29 G	20883746.57	20883746.77	20883746.97	0.0142	0.0058
Venus	52466-04-10 17:17 G	20883973.00	20883973.22	20883973.43	0.0142	0.0026
Venus	52466-11-23 04:19 G	20884199.46	20884199.68	20884199.89	0.0143	0.0008
Venus	52467-07-07 15:07 G	20884425.92	20884426.13	20884426.34	0.0143	0.0041
Venus	52468-02-19 01:55 G	20884652.41	20884652.58	20884652.78	0.0143	0.0074
Venus	52468-10-02 13:12 G	20884878.91	20884879.05	20884879.20	0.0143	0.0107
Venus	52469-05-17 00:14 G	20885105.48	20885105.51	20885105.56	0.0143	0.0141
Earth	52471-03-11 12:58 G	20885768.87	20885769.04	20885769.21	0.0144	0.0106
Moon	52471-03-11 16:05 G	20885769.00	20885769.17	20885769.37	0.0144	0.0102 *
Moon	52472-03-15 11:02 G	20886138.71	20886138.96	20886139.21	0.0144	0.0036
Earth	52472-03-15 14:38 G	20886138.86	20886139.11	20886139.36	0.0144	0.0028 *
Earth	52473-03-20 16:05 G	20886508.94	20886509.17	20886509.42	0.0144	0.0050
Moon	52473-03-20 19:41 G	20886509.10	20886509.32	20886509.57	0.0144	0.0058 *
Moon	52474-03-25 14:53 G	20886879.00	20886879.12	20886879.26	0.0144	0.0124
Earth	52474-03-25 18:14 G	20886879.16	20886879.26	20886879.38	0.0144	0.0128 *
Mars	52486-04-08 18:58 G	20891276.20	20891276.29	20891276.43	0.0143	0.0132
Mercury	52497-09-18 23:02 G	20895457.39	20895457.46	20895457.55	0.0139	0.0126
Mercury	52497-12-16 06:58 G	20895545.66	20895545.79	20895545.94	0.0139	0.0096
Mercury	52498-03-14 14:53 G	20895633.96	20895634.12	20895634.31	0.0139	0.0066

Mercury	52498-06-10 23:02 G	20895722.28	20895722.46	20895722.65	0.0138	0.0035
Mercury	52498-09-07 07:12 G	20895810.60	20895810.80	20895810.99	0.0138	0.0006
Mercury	52498-12-04 14:53 G	20895898.93	20895899.12	20895899.32	0.0138	0.0026
Mercury	52499-03-02 22:48 G	20895987.28	20895987.45	20895987.64	0.0138	0.0056
Mercury	52499-05-30 06:58 G	20896075.64	20896075.79	20896075.94	0.0138	0.0086
Mercury	52499-08-26 14:24 G	20896164.02	20896164.10	20896164.23	0.0138	0.0116
Venus	52504-09-17 09:22 G	20898011.81	20898011.89	20898012.01	0.0136	0.0119
Venus	52505-05-01 16:48 G	20898238.04	20898238.20	20898238.36	0.0136	0.0090
Venus	52505-12-13 23:31 G	20898464.29	20898464.48	20898464.68	0.0136	0.0062
Venus	52506-07-28 06:14 G	20898690.56	20898690.76	20898690.98	0.0136	0.0034
Venus	52507-03-11 12:58 G	20898916.83	20898917.04	20898917.26	0.0135	0.0006
Venus	52507-10-23 19:26 G	20899143.10	20899143.31	20899143.53	0.0135	0.0024
Venus	52508-06-06 02:10 G	20899369.39	20899369.59	20899369.79	0.0135	0.0051
Venus	52509-01-18 08:24 G	20899595.68	20899595.85	20899596.03	0.0135	0.0079
Venus	52509-09-01 14:24 G	20899821.99	20899822.10	20899822.25	0.0135	0.0107
Venus	52510-04-15 20:38 G	20900048.35	20900048.36	20900048.40	0.0135	0.0134
Moon	52511-09-09 15:07 G	20900560.08	20900560.13	20900560.22	0.0135	0.0130
Moon	52512-09-12 18:43 G	20900929.10	20900929.28	20900929.49	0.0134	0.0081
Earth	52512-09-12 20:38 G	20900929.16	20900929.36	20900929.58	0.0134	0.0074 *
Earth	52513-09-17 03:22 G	20901298.39	20901298.64	20901298.89	0.0134	0.0012
Moon	52513-09-17 05:46 G	20901298.48	20901298.74	20901298.99	0.0134	0.0005 *
Moon	52514-09-21 07:55 G	20901667.61	20901667.83	20901668.07	0.0134	0.0045
Earth	52514-09-21 09:36 G	20901667.68	20901667.90	20901668.14	0.0134	0.0050 *
Earth	52515-09-25 15:36 G	20902037.03	20902037.15	20902037.30	0.0134	0.0111
Moon	52515-09-25 17:46 G	20902037.13	20902037.24	20902037.40	0.0134	0.0113 *
Mars	52530-08-04 13:26 G	20907463.87	20907464.06	20907464.28	0.0136	0.0104
Mercury	52541-03-14 13:12 G	20911339.01	20911339.05	20911339.11	0.0139	0.0128
Mercury	52541-06-10 16:34 G	20911427.11	20911427.19	20911427.28	0.0139	0.0108
Mercury	52541-09-06 19:55 G	20911515.23	20911515.33	20911515.44	0.0139	0.0087
Mercury	52541-12-03 23:02 G	20911603.35	20911603.46	20911603.58	0.0140	0.0067

Mercury	52542-03-02 02:24 G	20911691.48	20911691.60	20911691.73	0.0140	0.0046
Mercury	52542-05-29 05:46 G	20911779.61	20911779.74	20911779.87	0.0140	0.0025
Mercury	52542-08-25 09:07 G	20911867.75	20911867.88	20911868.01	0.0140	0.0005
Mercury	52542-11-21 12:14 G	20911955.88	20911956.01	20911956.14	0.0140	0.0017
Mercury	52543-02-17 15:36 G	20912044.02	20912044.15	20912044.27	0.0140	0.0037
Mercury	52543-05-16 18:43 G	20912132.17	20912132.28	20912132.40	0.0140	0.0058
Mercury	52543-08-12 21:50 G	20912220.31	20912220.41	20912220.53	0.0140	0.0080
Mercury	52543-11-09 01:26 G	20912308.47	20912308.56	20912308.65	0.0140	0.0100
Mercury	52544-02-05 04:34 G	20912396.63	20912396.69	20912396.76	0.0140	0.0121
Venus	52548-01-30 15:22 G	20913852.10	20913852.14	20913852.20	0.0142	0.0137
Venus	52548-09-13 01:41 G	20914078.43	20914078.57	20914078.72	0.0142	0.0105
Venus	52549-04-27 12:29 G	20914304.83	20914305.02	20914305.21	0.0142	0.0073
Venus	52549-12-09 23:02 G	20914531.26	20914531.46	20914531.68	0.0142	0.0040
Venus	52550-07-24 10:05 G	20914757.70	20914757.92	20914758.14	0.0143	0.0007
Venus	52551-03-07 20:53 G	20914984.16	20914984.37	20914984.58	0.0143	0.0026
Venus	52551-10-20 07:41 G	20915210.63	20915210.82	20915211.02	0.0143	0.0060
Venus	52552-06-02 18:43 G	20915437.12	20915437.28	20915437.45	0.0143	0.0093
Venus	52553-01-15 06:00 G	20915663.66	20915663.75	20915663.86	0.0143	0.0126
Earth	52555-03-12 20:38 G	20916450.20	20916450.36	20916450.55	0.0144	0.0104
Moon	52555-03-13 00:14 G	20916450.35	20916450.51	20916450.69	0.0144	0.0109 *
Moon	52556-03-16 19:12 G	20916820.05	20916820.30	20916820.56	0.0144	0.0019
Earth	52556-03-16 22:34 G	20916820.19	20916820.44	20916820.70	0.0144	0.0026 *
Earth	52557-03-22 00:29 G	20917190.28	20917190.52	20917190.76	0.0144	0.0052
Moon	52557-03-22 04:05 G	20917190.43	20917190.67	20917190.91	0.0144	0.0045 *
Moon	52558-03-26 22:34 G	20917560.37	20917560.44	20917560.53	0.0144	0.0136
Earth	52558-03-27 02:38 G	20917560.50	20917560.61	20917560.72	0.0144	0.0131 *
Mars	52570-12-03 22:34 G	20922195.17	20922195.44	20922195.72	0.0143	0.0056
Mercury	52581-10-10 06:29 G	20926158.68	20926158.77	20926158.88	0.0139	0.0118
Mercury	52582-01-06 14:24 G	20926246.95	20926247.10	20926247.25	0.0139	0.0088
Mercury	52582-04-04 22:19 G	20926335.26	20926335.43	20926335.61	0.0139	0.0058

Mercury	52582-07-02 06:14 G	20926423.57	20926423.76	20926423.96	0.0138	0.0028
Mercury	52582-09-28 14:24 G	20926511.90	20926512.10	20926512.29	0.0138	0.0004
Mercury	52582-12-25 22:05 G	20926600.24	20926600.42	20926600.62	0.0138	0.0033
Mercury	52583-03-24 06:00 G	20926688.58	20926688.75	20926688.93	0.0138	0.0063
Mercury	52583-06-20 13:55 G	20926776.94	20926777.08	20926777.23	0.0138	0.0093
Mercury	52583-09-16 21:50 G	20926865.33	20926865.41	20926865.51	0.0138	0.0123
Venus	52588-05-17 18:43 G	20928570.23	20928570.28	20928570.36	0.0136	0.0130
Venus	52588-12-30 02:10 G	20928796.45	20928796.59	20928796.73	0.0136	0.0102
Venus	52589-08-13 08:53 G	20929022.69	20929022.87	20929023.06	0.0136	0.0073
Venus	52590-03-27 15:36 G	20929248.95	20929249.15	20929249.36	0.0136	0.0045
Venus	52590-11-08 22:19 G	20929475.22	20929475.43	20929475.65	0.0136	0.0016
Venus	52591-06-23 05:02 G	20929701.50	20929701.71	20929701.93	0.0135	0.0012
Venus	52592-02-04 11:31 G	20929927.78	20929927.98	20929928.19	0.0135	0.0040
Venus	52592-09-17 17:46 G	20930154.06	20930154.24	20930154.44	0.0135	0.0068
Venus	52593-05-02 00:00 G	20930380.36	20930380.50	20930380.66	0.0135	0.0096
Venus	52593-12-14 06:00 G	20930606.68	20930606.75	20930606.85	0.0135	0.0124
Earth	52595-09-09 23:31 G	20931241.46	20931241.48	20931241.54	0.0135	0.0133
Moon	52596-09-13 05:31 G	20931610.52	20931610.73	20931610.95	0.0134	0.0064
Earth	52596-09-13 06:29 G	20931610.57	20931610.77	20931610.99	0.0134	0.0071 *
Earth	52597-09-17 13:12 G	20931979.80	20931980.05	20931980.30	0.0134	0.0009
Moon	52597-09-17 14:10 G	20931979.84	20931980.09	20931980.36	0.0134	0.0016 *
Moon	52598-09-21 17:31 G	20932349.03	20932349.23	20932349.47	0.0134	0.0059
Earth	52598-09-21 19:26 G	20932349.08	20932349.31	20932349.55	0.0134	0.0053 *
Earth	52599-09-26 00:58 G	20932718.43	20932718.54	20932718.69	0.0134	0.0114
Moon	52599-09-26 02:10 G	20932718.46	20932718.59	20932718.76	0.0134	0.0110 *
Mercury	52625-04-04 20:10 G	20942040.29	20942040.34	20942040.40	0.0139	0.0125
Mercury	52625-07-01 23:31 G	20942128.39	20942128.48	20942128.57	0.0139	0.0105
Mercury	52625-09-28 02:38 G	20942216.51	20942216.61	20942216.72	0.0139	0.0084
Mercury	52625-12-25 06:00 G	20942304.64	20942304.75	20942304.87	0.0140	0.0063
Mercury	52626-03-23 09:22 G	20942392.76	20942392.89	20942393.01	0.0140	0.0043

Mercury	52626-06-19 12:29 G	20942480.90	20942481.02	20942481.15	0.0140	0.0023
Mercury	52626-09-15 15:50 G	20942569.03	20942569.16	20942569.29	0.0140	0.0002
Mercury	52626-12-12 19:12 G	20942657.17	20942657.30	20942657.43	0.0140	0.0020
Mercury	52627-03-10 22:19 G	20942745.31	20942745.43	20942745.56	0.0140	0.0040
Mercury	52627-06-07 01:41 G	20942833.45	20942833.57	20942833.69	0.0140	0.0061
Mercury	52627-09-03 04:48 G	20942921.60	20942921.70	20942921.81	0.0140	0.0082
Mercury	52627-11-30 08:10 G	20943009.75	20943009.84	20943009.93	0.0140	0.0103
Mercury	52628-02-26 11:17 G	20943097.92	20943097.97	20943098.04	0.0140	0.0124
Venus	52632-05-14 07:12 G	20944636.70	20944636.80	20944636.93	0.0142	0.0120
Venus	52632-12-26 18:00 G	20944863.09	20944863.25	20944863.43	0.0142	0.0087
Venus	52633-08-10 04:48 G	20945089.50	20945089.70	20945089.90	0.0142	0.0055
Venus	52634-03-24 15:22 G	20945315.93	20945316.14	20945316.36	0.0143	0.0022
Venus	52634-11-06 02:10 G	20945542.38	20945542.59	20945542.81	0.0143	0.0012
Venus	52635-06-20 12:58 G	20945768.84	20945769.04	20945769.25	0.0143	0.0045
Venus	52636-02-02 00:00 G	20945995.32	20945995.50	20945995.69	0.0143	0.0078
Venus	52636-09-15 11:02 G	20946221.83	20946221.96	20946222.10	0.0143	0.0112
Earth	52639-03-14 04:05 G	20947131.50	20947131.67	20947131.85	0.0144	0.0102
Moon	52639-03-14 06:29 G	20947131.59	20947131.77	20947131.97	0.0144	0.0099 *
Moon	52640-03-18 02:38 G	20947501.36	20947501.61	20947501.85	0.0144	0.0031
Earth	52640-03-18 05:46 G	20947501.49	20947501.74	20947502.00	0.0144	0.0024 *
Earth	52641-03-23 07:12 G	20947871.58	20947871.80	20947872.05	0.0144	0.0055
Moon	52641-03-23 10:48 G	20947871.73	20947871.95	20947872.20	0.0144	0.0062 *
Moon	52642-03-28 05:46 G	20948241.65	20948241.74	20948241.88	0.0144	0.0128
Earth	52642-03-28 09:36 G	20948241.81	20948241.90	20948242.01	0.0144	0.0132 *
Mercury	52665-10-31 13:12 G	20956859.94	20956860.05	20956860.17	0.0139	0.0112
Mercury	52666-01-27 21:07 G	20956948.23	20956948.38	20956948.54	0.0139	0.0082
Mercury	52666-04-26 05:02 G	20957036.53	20957036.71	20957036.90	0.0139	0.0052
Mercury	52666-07-23 12:58 G	20957124.85	20957125.04	20957125.24	0.0138	0.0022
Mercury	52666-10-19 20:53 G	20957213.18	20957213.37	20957213.57	0.0138	0.0010
Mercury	52667-01-16 04:48 G	20957301.52	20957301.70	20957301.89	0.0138	0.0039

Mercury	52667-04-14 12:43 G	20957389.87	20957390.03	20957390.21	0.0138	0.0069
Mercury	52667-07-11 20:38 G	20957478.23	20957478.36	20957478.50	0.0138	0.0099
Mercury	52667-10-08 04:34 G	20957566.63	20957566.69	20957566.77	0.0138	0.0129
Venus	52672-08-30 10:19 G	20959354.83	20959354.93	20959355.07	0.0136	0.0114
Venus	52673-04-13 17:31 G	20959581.07	20959581.23	20959581.41	0.0136	0.0085
Venus	52673-11-26 00:29 G	20959807.33	20959807.52	20959807.73	0.0136	0.0057
Venus	52674-07-10 07:26 G	20960033.60	20960033.81	20960034.03	0.0136	0.0028
Venus	52675-02-21 14:10 G	20960259.87	20960260.09	20960260.31	0.0136	0.0001
Venus	52675-10-05 20:24 G	20960486.15	20960486.35	20960486.57	0.0135	0.0030
Venus	52676-05-19 03:07 G	20960712.44	20960712.63	20960712.83	0.0135	0.0057
Venus	52676-12-31 09:22 G	20960938.73	20960938.89	20960939.07	0.0135	0.0085
Venus	52677-08-14 15:22 G	20961165.04	20961165.14	20961165.28	0.0135	0.0113
Moon	52679-09-11 09:50 G	20961922.83	20961922.91	20961923.03	0.0135	0.0124
Earth	52679-09-11 09:36 G	20961922.84	20961922.90	20961922.98	0.0135	0.0129 *
Moon	52680-09-14 16:05 G	20962291.98	20962292.17	20962292.38	0.0134	0.0073
Earth	52680-09-14 16:19 G	20962291.98	20962292.18	20962292.42	0.0134	0.0068 *
Earth	52681-09-18 23:17 G	20962661.22	20962661.47	20962661.72	0.0134	0.0006
Moon	52681-09-19 00:00 G	20962661.24	20962661.50	20962661.76	0.0134	0.0002 *
Moon	52682-09-23 04:48 G	20963030.49	20963030.70	20963030.94	0.0134	0.0050
Earth	52682-09-23 05:02 G	20963030.50	20963030.71	20963030.96	0.0134	0.0057 *
Earth	52683-09-27 11:02 G	20963399.86	20963399.96	20963400.10	0.0134	0.0117
Moon	52683-09-27 12:00 G	20963399.91	20963400.00	20963400.14	0.0134	0.0120 *
Mars	52697-12-21 21:36 G	20968599.10	20968599.40	20968599.73	0.0135	0.0026
Mercury	52709-04-26 03:07 G	20972741.57	20972741.63	20972741.70	0.0139	0.0121
Mercury	52709-07-23 06:29 G	20972829.68	20972829.77	20972829.86	0.0139	0.0101
Mercury	52709-10-19 09:36 G	20972917.80	20972917.90	20972918.01	0.0139	0.0080
Mercury	52710-01-15 12:58 G	20973005.93	20973006.04	20973006.16	0.0140	0.0059
Mercury	52710-04-13 16:19 G	20973094.06	20973094.18	20973094.31	0.0140	0.0039
Mercury	52710-07-10 19:41 G	20973182.19	20973182.32	20973182.45	0.0140	0.0018
Mercury	52710-10-06 22:48 G	20973270.32	20973270.45	20973270.58	0.0140	0.0004

Mercury	52711-01-03 02:10 G	20973358.46	20973358.59	20973358.72	0.0140	0.0024
Mercury	52711-04-01 05:17 G	20973446.60	20973446.72	20973446.85	0.0140	0.0045
Mercury	52711-06-28 08:38 G	20973534.75	20973534.86	20973534.98	0.0140	0.0065
Mercury	52711-09-24 11:46 G	20973622.90	20973622.99	20973623.10	0.0140	0.0086
Mercury	52711-12-21 14:53 G	20973711.05	20973711.12	20973711.22	0.0140	0.0108
Mercury	52712-03-18 18:29 G	20973799.22	20973799.27	20973799.32	0.0140	0.0128
Venus	52716-01-13 13:41 G	20975195.01	20975195.07	20975195.15	0.0142	0.0134
Venus	52716-08-27 00:00 G	20975421.36	20975421.50	20975421.66	0.0142	0.0102
Venus	52717-04-10 10:34 G	20975647.76	20975647.94	20975648.13	0.0142	0.0070
Venus	52717-11-22 21:22 G	20975874.18	20975874.39	20975874.60	0.0142	0.0037
Venus	52718-07-07 08:10 G	20976100.62	20976100.84	20976101.05	0.0143	0.0004
Venus	52719-02-18 18:43 G	20976327.07	20976327.28	20976327.50	0.0143	0.0030
Venus	52719-10-03 05:31 G	20976553.54	20976553.73	20976553.93	0.0143	0.0063
Venus	52720-05-16 16:48 G	20976780.04	20976780.20	20976780.36	0.0143	0.0097
Venus	52720-12-29 03:36 G	20977006.58	20977006.65	20977006.75	0.0143	0.0130
Earth	52723-03-15 11:17 G	20977812.81	20977812.97	20977813.17	0.0144	0.0100
Moon	52723-03-15 13:55 G	20977812.91	20977813.08	20977813.28	0.0144	0.0103 *
Moon	52724-03-19 10:48 G	20978182.70	20978182.95	20978183.20	0.0144	0.0016
Earth	52724-03-19 13:12 G	20978182.80	20978183.05	20978183.31	0.0144	0.0022 *
Earth	52725-03-24 14:53 G	20978552.89	20978553.12	20978553.37	0.0144	0.0057
Moon	52725-03-24 18:14 G	20978553.02	20978553.26	20978553.51	0.0144	0.0049 *
Moon	52726-03-29 13:26 G	20978923.03	20978923.06	20978923.13	0.0144	0.0142
Earth	52726-03-29 17:02 G	20978923.14	20978923.21	20978923.32	0.0144	0.0135
Mars	52738-04-23 16:48 G	20983330.99	20983331.20	20983331.44	0.0143	0.0092
Mercury	52749-08-25 11:31 G	20987472.96	20987472.98	20987473.02	0.0139	0.0137
Mercury	52749-11-21 19:26 G	20987561.20	20987561.31	20987561.45	0.0139	0.0107
Mercury	52750-02-18 03:22 G	20987649.49	20987649.64	20987649.81	0.0139	0.0077
Mercury	52750-05-17 11:31 G	20987737.80	20987737.98	20987738.17	0.0139	0.0046
Mercury	52750-08-13 19:26 G	20987826.12	20987826.31	20987826.51	0.0138	0.0016
Mercury	52750-11-10 03:22 G	20987914.45	20987914.64	20987914.84	0.0138	0.0014

Mercury	52751-02-06 11:17 G	20988002.79	20988002.97	20988003.16	0.0138	0.0044
Mercury	52751-05-05 19:12 G	20988091.14	20988091.30	20988091.47	0.0138	0.0074
Mercury	52751-08-02 03:07 G	20988179.51	20988179.63	20988179.76	0.0138	0.0105
Mercury	52751-10-29 11:17 G	20988267.93	20988267.97	20988268.01	0.0138	0.0134
Venus	52756-04-30 18:43 G	20989913.21	20989913.28	20989913.37	0.0136	0.0127
Venus	52756-12-13 01:41 G	20990139.44	20990139.57	20990139.74	0.0136	0.0098
Venus	52757-07-27 08:53 G	20990365.69	20990365.87	20990366.06	0.0136	0.0069
Venus	52758-03-10 15:36 G	20990591.95	20990592.15	20990592.37	0.0136	0.0041
Venus	52758-10-22 22:34 G	20990818.22	20990818.44	20990818.66	0.0136	0.0012
Venus	52759-06-06 05:17 G	20991044.50	20991044.72	20991044.94	0.0135	0.0017
Venus	52760-01-18 11:31 G	20991270.79	20991270.98	20991271.20	0.0135	0.0046
Venus	52760-08-31 17:46 G	20991497.07	20991497.24	20991497.44	0.0135	0.0074
Venus	52761-04-15 00:00 G	20991723.37	20991723.50	20991723.66	0.0135	0.0101
Venus	52761-11-27 06:29 G	20991949.71	20991949.77	20991949.84	0.0135	0.0128
Earth	52763-09-12 18:29 G	20992604.20	20992604.27	20992604.38	0.0135	0.0126
Moon	52763-09-12 18:29 G	20992604.21	20992604.27	20992604.35	0.0135	0.0129 *
Earth	52764-09-16 01:26 G	20992973.35	20992973.56	20992973.80	0.0134	0.0064
Moon	52764-09-16 01:55 G	20992973.36	20992973.58	20992973.80	0.0134	0.0058 *
Moon	52765-09-20 07:41 G	20993342.57	20993342.82	20993343.09	0.0134	0.0009
Earth	52765-09-20 08:10 G	20993342.59	20993342.84	20993343.10	0.0134	0.0003 *
Earth	52766-09-24 14:10 G	20993711.88	20993712.09	20993712.33	0.0134	0.0060
Moon	52766-09-24 14:10 G	20993711.89	20993712.09	20993712.31	0.0134	0.0065 *
Moon	52767-09-28 20:10 G	20994081.22	20994081.34	20994081.49	0.0134	0.0114
Earth	52767-09-28 20:10 G	20994081.25	20994081.34	20994081.47	0.0134	0.0120 *
Mercury	52793-02-17 06:58 G	21003354.77	21003354.79	21003354.81	0.0139	0.0137
Mercury	52793-05-16 10:05 G	21003442.86	21003442.92	21003443.00	0.0139	0.0117
Mercury	52793-08-12 13:26 G	21003530.97	21003531.06	21003531.16	0.0139	0.0096
Mercury	52793-11-08 16:48 G	21003619.09	21003619.20	21003619.31	0.0139	0.0076
Mercury	52794-02-04 19:55 G	21003707.22	21003707.33	21003707.46	0.0139	0.0056
Mercury	52794-05-03 23:17 G	21003795.35	21003795.47	21003795.60	0.0140	0.0035

Mercury	52794-07-31 02:38 G	21003883.48	21003883.61	21003883.74	0.0140	0.0014
Mercury	52794-10-27 06:00 G	21003971.62	21003971.75	21003971.88	0.0140	0.0008
Mercury	52795-01-23 09:07 G	21004059.75	21004059.88	21004060.01	0.0140	0.0028
Mercury	52795-04-21 12:29 G	21004147.90	21004148.02	21004148.14	0.0140	0.0049
Mercury	52795-07-18 15:36 G	21004236.04	21004236.15	21004236.27	0.0140	0.0070
Mercury	52795-10-14 18:58 G	21004324.19	21004324.29	21004324.39	0.0140	0.0090
Mercury	52796-01-10 22:05 G	21004412.35	21004412.42	21004412.51	0.0140	0.0112
Mercury	52796-04-08 01:26 G	21004500.52	21004500.56	21004500.61	0.0140	0.0132
Venus	52800-04-26 06:58 G	21005979.66	21005979.79	21005979.91	0.0142	0.0116
Venus	52800-12-08 17:17 G	21006206.05	21006206.22	21006206.40	0.0142	0.0084
Venus	52801-07-23 03:50 G	21006432.46	21006432.66	21006432.87	0.0142	0.0051
Venus	52802-03-06 14:24 G	21006658.89	21006659.10	21006659.32	0.0142	0.0019
Venus	52802-10-19 01:12 G	21006885.33	21006885.55	21006885.77	0.0143	0.0015
Venus	52803-06-02 11:46 G	21007111.80	21007111.99	21007112.21	0.0143	0.0049
Venus	52804-01-14 22:48 G	21007338.28	21007338.45	21007338.64	0.0143	0.0082
Venus	52804-08-28 09:50 G	21007564.79	21007564.91	21007565.05	0.0143	0.0116
Earth	52807-03-15 20:53 G	21008494.18	21008494.37	21008494.56	0.0144	0.0095
Moon	52807-03-15 22:05 G	21008494.23	21008494.42	21008494.63	0.0144	0.0094 *
Moon	52808-03-19 20:10 G	21008864.10	21008864.34	21008864.59	0.0144	0.0024
Earth	52808-03-19 22:34 G	21008864.19	21008864.44	21008864.70	0.0144	0.0018 *
Earth	52809-03-25 00:14 G	21009234.29	21009234.51	21009234.75	0.0144	0.0060
Moon	52809-03-25 02:53 G	21009234.40	21009234.62	21009234.86	0.0144	0.0068 *
Moon	52810-03-29 23:31 G	21009604.40	21009604.48	21009604.59	0.0144	0.0132
Earth	52810-03-30 02:24 G	21009604.55	21009604.60	21009604.69	0.0144	0.0139 *
Mars	52822-12-17 18:14 G	21014250.05	21014250.26	21014250.49	0.0143	0.0096
Mercury	52833-09-14 18:14 G	21018174.21	21018174.26	21018174.34	0.0139	0.0131
Mercury	52833-12-12 02:10 G	21018262.47	21018262.59	21018262.74	0.0139	0.0101
Mercury	52834-03-10 10:05 G	21018350.76	21018350.92	21018351.10	0.0139	0.0071
Mercury	52834-06-06 18:00 G	21018439.08	21018439.25	21018439.45	0.0139	0.0041
Mercury	52834-09-03 02:10 G	21018527.40	21018527.59	21018527.79	0.0138	0.0010

Mercury	52834-11-30 10:05 G	21018615.73	21018615.92	21018616.12	0.0138	0.0020
Mercury	52835-02-26 18:00 G	21018704.07	21018704.25	21018704.44	0.0138	0.0051
Mercury	52835-05-26 01:41 G	21018792.43	21018792.57	21018792.74	0.0138	0.0081
Mercury	52835-08-22 09:36 G	21018880.80	21018880.90	21018881.03	0.0138	0.0111
Venus	52840-08-12 10:19 G	21020697.81	21020697.93	21020698.06	0.0136	0.0111
Venus	52841-03-26 17:02 G	21020924.05	21020924.21	21020924.40	0.0136	0.0082
Venus	52841-11-08 00:14 G	21021150.32	21021150.51	21021150.72	0.0136	0.0053
Venus	52842-06-22 07:12 G	21021376.59	21021376.80	21021377.02	0.0136	0.0024
Venus	52843-02-03 13:55 G	21021602.86	21021603.08	21021603.30	0.0136	0.0004
Venus	52843-09-17 20:24 G	21021829.14	21021829.35	21021829.56	0.0135	0.0033
Venus	52844-05-01 02:38 G	21022055.42	21022055.61	21022055.81	0.0135	0.0061
Venus	52844-12-13 08:53 G	21022281.72	21022281.87	21022282.05	0.0135	0.0089
Venus	52845-07-27 15:07 G	21022508.04	21022508.13	21022508.25	0.0135	0.0117
Moon	52847-09-13 02:38 G	21023285.51	21023285.61	21023285.76	0.0135	0.0119
Earth	52847-09-13 04:05 G	21023285.58	21023285.67	21023285.79	0.0135	0.0122 *
Earth	52848-09-16 11:02 G	21023654.75	21023654.96	21023655.20	0.0134	0.0060
Moon	52848-09-16 12:00 G	21023654.80	21023655.00	21023655.23	0.0134	0.0066 *
Moon	52849-09-20 17:17 G	21024023.96	21024024.22	21024024.48	0.0134	0.0008
Earth	52849-09-20 18:00 G	21024024.00	21024024.25	21024024.50	0.0134	0.0002 *
Earth	52850-09-24 23:46 G	21024393.29	21024393.49	21024393.73	0.0134	0.0064
Moon	52850-09-25 01:12 G	21024393.33	21024393.55	21024393.78	0.0134	0.0056 *
Moon	52851-09-29 05:31 G	21024762.68	21024762.73	21024762.83	0.0134	0.0128
Earth	52851-09-29 06:14 G	21024762.68	21024762.76	21024762.87	0.0134	0.0123 *
Mercury	52877-03-09 14:10 G	21034056.06	21034056.09	21034056.13	0.0139	0.0132
Mercury	52877-06-05 17:31 G	21034144.15	21034144.23	21034144.31	0.0139	0.0112
Mercury	52877-09-01 20:38 G	21034232.27	21034232.36	21034232.47	0.0139	0.0091
Mercury	52877-11-29 00:00 G	21034320.39	21034320.50	21034320.62	0.0139	0.0070
Mercury	52878-02-25 03:22 G	21034408.52	21034408.64	21034408.76	0.0140	0.0050
Mercury	52878-05-24 06:43 G	21034496.65	21034496.78	21034496.91	0.0140	0.0029
Mercury	52878-08-20 09:50 G	21034584.78	21034584.91	21034585.04	0.0140	0.0009

Mercury	52878-11-16 13:12 G	21034672.92	21034673.05	21034673.18	0.0140	0.0013
Mercury	52879-02-12 16:34 G	21034761.06	21034761.19	21034761.31	0.0140	0.0034
Mercury	52879-05-11 19:41 G	21034849.20	21034849.32	21034849.44	0.0140	0.0055
Mercury	52879-08-07 23:02 G	21034937.35	21034937.46	21034937.57	0.0140	0.0075
Mercury	52879-11-04 02:10 G	21035025.50	21035025.59	21035025.69	0.0140	0.0096
Mercury	52880-01-31 05:31 G	21035113.66	21035113.73	21035113.80	0.0140	0.0117
Mercury	52880-04-28 08:38 G	21035201.85	21035201.86	21035201.89	0.0140	0.0138
Venus	52883-12-25 14:24 G	21036538.02	21036538.10	21036538.19	0.0142	0.0130
Venus	52884-08-08 00:29 G	21036764.38	21036764.52	21036764.70	0.0142	0.0098
Venus	52885-03-22 11:02 G	21036990.78	21036990.96	21036991.17	0.0142	0.0066
Venus	52885-11-03 21:50 G	21037217.20	21037217.41	21037217.62	0.0142	0.0032
Venus	52886-06-18 08:38 G	21037443.64	21037443.86	21037444.08	0.0143	0.0002
Venus	52887-01-30 19:12 G	21037670.09	21037670.30	21037670.52	0.0143	0.0035
Venus	52887-09-14 06:00 G	21037896.57	21037896.75	21037896.95	0.0143	0.0068
Venus	52888-04-27 17:02 G	21038123.06	21038123.21	21038123.37	0.0143	0.0101
Venus	52888-12-10 04:19 G	21038349.61	21038349.68	21038349.76	0.0143	0.0135
Earth	52891-03-16 07:26 G	21039175.62	21039175.81	21039176.02	0.0144	0.0090
Moon	52891-03-16 08:53 G	21039175.67	21039175.87	21039176.07	0.0144	0.0091 *
Moon	52892-03-20 08:10 G	21039545.59	21039545.84	21039546.09	0.0144	0.0008
Earth	52892-03-20 09:22 G	21039545.63	21039545.89	21039546.14	0.0144	0.0013 *
Earth	52893-03-25 11:17 G	21039915.75	21039915.97	21039916.20	0.0144	0.0065
Moon	52893-03-25 13:41 G	21039915.83	21039916.07	21039916.31	0.0144	0.0058 *
Earth	52894-03-30 13:26 G	21040286.05	21040286.06	21040286.11	0.0144	0.0143
Mercury	52917-10-06 01:41 G	21048875.48	21048875.57	21048875.66	0.0139	0.0123
Mercury	52918-01-02 09:36 G	21048963.76	21048963.90	21048964.04	0.0139	0.0093
Mercury	52918-03-31 17:31 G	21049052.06	21049052.23	21049052.40	0.0139	0.0063
Mercury	52918-06-28 01:26 G	21049140.37	21049140.56	21049140.75	0.0138	0.0033
Mercury	52918-09-24 09:22 G	21049228.69	21049228.89	21049229.09	0.0138	0.0002
Mercury	52918-12-21 17:17 G	21049317.03	21049317.22	21049317.41	0.0138	0.0028
Mercury	52919-03-20 01:12 G	21049405.38	21049405.55	21049405.73	0.0138	0.0058

Mercury	52919-06-16 09:07 G	21049493.73	21049493.88	21049494.03	0.0138	0.0088
Mercury	52919-09-12 17:02 G	21049582.12	21049582.21	21049582.31	0.0138	0.0118
Venus	52924-04-12 19:12 G	21051256.22	21051256.30	21051256.41	0.0136	0.0123
Venus	52924-11-25 02:10 G	21051482.45	21051482.59	21051482.76	0.0136	0.0094
Venus	52925-07-09 09:22 G	21051708.71	21051708.89	21051709.09	0.0136	0.0065
Venus	52926-02-20 16:19 G	21051934.97	21051935.18	21051935.39	0.0136	0.0036
Venus	52926-10-04 23:02 G	21052161.24	21052161.46	21052161.67	0.0136	0.0008
Venus	52927-05-19 05:31 G	21052387.52	21052387.73	21052387.95	0.0135	0.0021
Venus	52927-12-31 12:00 G	21052613.80	21052614.00	21052614.20	0.0135	0.0049
Venus	52928-08-13 18:14 G	21052840.09	21052840.26	21052840.44	0.0135	0.0078
Venus	52929-03-28 00:14 G	21053066.39	21053066.51	21053066.66	0.0135	0.0105
Venus	52929-11-09 06:14 G	21053292.74	21053292.76	21053292.82	0.0135	0.0133
Moon	52931-09-14 12:00 G	21053966.90	21053967.00	21053967.14	0.0134	0.0120
Earth	52931-09-14 13:55 G	21053966.98	21053967.08	21053967.21	0.0134	0.0118 *
Earth	52932-09-17 20:53 G	21054336.15	21054336.37	21054336.61	0.0134	0.0057
Moon	52932-09-17 22:19 G	21054336.22	21054336.43	21054336.67	0.0134	0.0052 *
Moon	52933-09-22 01:41 G	21054705.31	21054705.57	21054705.83	0.0134	0.0002
Earth	52933-09-22 03:36 G	21054705.40	21054705.65	21054705.91	0.0134	0.0006 *
Earth	52934-09-26 09:50 G	21055074.70	21055074.91	21055075.14	0.0134	0.0066
Moon	52934-09-26 11:02 G	21055074.77	21055074.96	21055075.18	0.0134	0.0073 *
Moon	52935-09-30 14:38 G	21055444.00	21055444.11	21055444.23	0.0134	0.0120
Earth	52935-09-30 16:05 G	21055444.11	21055444.17	21055444.26	0.0134	0.0127 *
Mars	52950-01-04 10:05 G	21060653.61	21060653.92	21060654.24	0.0135	0.0026
Mercury	52961-03-30 21:22 G	21064757.34	21064757.39	21064757.44	0.0139	0.0128
Mercury	52961-06-27 00:29 G	21064845.45	21064845.52	21064845.61	0.0139	0.0107
Mercury	52961-09-23 03:50 G	21064933.56	21064933.66	21064933.77	0.0139	0.0086
Mercury	52961-12-20 07:12 G	21065021.69	21065021.80	21065021.92	0.0140	0.0066
Mercury	52962-03-18 10:34 G	21065109.82	21065109.94	21065110.06	0.0140	0.0045
Mercury	52962-06-14 13:55 G	21065197.95	21065198.08	21065198.21	0.0140	0.0024
Mercury	52962-09-10 17:02 G	21065286.08	21065286.21	21065286.34	0.0140	0.0005

Mercury	52962-12-07 20:24 G	21065374.22	21065374.35	21065374.48	0.0140	0.0018
Mercury	52963-03-05 23:31 G	21065462.36	21065462.48	21065462.61	0.0140	0.0039
Mercury	52963-06-02 02:53 G	21065550.51	21065550.62	21065550.74	0.0140	0.0060
Mercury	52963-08-29 06:14 G	21065638.66	21065638.76	21065638.87	0.0140	0.0080
Mercury	52963-11-25 09:22 G	21065726.81	21065726.89	21065726.99	0.0140	0.0102
Mercury	52964-02-21 12:43 G	21065814.97	21065815.03	21065815.10	0.0140	0.0122
Venus	52968-04-08 07:55 G	21067322.71	21067322.83	21067322.97	0.0142	0.0111
Venus	52968-11-20 18:14 G	21067549.10	21067549.26	21067549.46	0.0142	0.0079
Venus	52969-07-05 05:02 G	21067775.51	21067775.71	21067775.92	0.0142	0.0046
Venus	52970-02-16 15:36 G	21068001.94	21068002.15	21068002.37	0.0143	0.0013
Venus	52970-10-01 02:24 G	21068228.39	21068228.60	21068228.82	0.0143	0.0020
Venus	52971-05-15 13:12 G	21068454.85	21068455.05	21068455.26	0.0143	0.0054
Venus	52971-12-28 00:14 G	21068681.35	21068681.51	21068681.69	0.0143	0.0088
Venus	52972-08-10 11:31 G	21068907.87	21068907.98	21068908.10	0.0143	0.0121
Moon	52975-03-17 18:00 G	21069857.06	21069857.25	21069857.48	0.0144	0.0086
Earth	52975-03-17 18:14 G	21069857.07	21069857.26	21069857.48	0.0144	0.0085 *
Moon	52976-03-21 19:26 G	21070227.07	21070227.31	21070227.56	0.0144	0.0012
Earth	52976-03-21 20:38 G	21070227.10	21070227.36	21070227.61	0.0144	0.0007 *
Earth	52977-03-26 22:34 G	21070597.23	21070597.44	21070597.68	0.0144	0.0071
Moon	52977-03-27 00:00 G	21070597.29	21070597.50	21070597.74	0.0144	0.0078 *
Moon	52978-03-31 22:48 G	21070967.44	21070967.45	21070967.51	0.0144	0.0143
Mars	52990-05-07 03:36 G	21075386.37	21075386.65	21075386.95	0.0143	0.0031

54TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 54th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	53001-10-27 09:36	G	21079576.79	21079576.90	21079577.01	0.0139	0.0113	
Mercury	53002-01-23 17:31	G	21079665.07	21079665.23	21079665.38	0.0139	0.0083	
Mercury	53002-04-22 01:26	G	21079753.38	21079753.56	21079753.74	0.0139	0.0053	
Mercury	53002-07-19 09:22	G	21079841.70	21079841.89	21079842.08	0.0138	0.0023	
Mercury	53002-10-15 17:17	G	21079930.02	21079930.22	21079930.41	0.0138	0.0008	
Mercury	53003-01-12 00:58	G	21080018.36	21080018.54	21080018.74	0.0138	0.0038	
Mercury	53003-04-10 08:53	G	21080106.71	21080106.87	21080107.05	0.0138	0.0068	
Mercury	53003-07-07 16:48	G	21080195.07	21080195.20	21080195.35	0.0138	0.0098	
Mercury	53003-10-04 00:43	G	21080283.47	21080283.53	21080283.61	0.0138	0.0128	
Venus	53007-12-13 05:17	G	21081814.69	21081814.72	21081814.77	0.0136	0.0134	
Venus	53008-07-26 12:29	G	21082040.89	21082041.02	21082041.16	0.0136	0.0105	
Venus	53009-03-09 19:12	G	21082267.13	21082267.30	21082267.49	0.0136	0.0076	
Venus	53009-10-22 02:10	G	21082493.39	21082493.59	21082493.80	0.0136	0.0047	
Venus	53010-06-05 08:53	G	21082719.66	21082719.87	21082720.10	0.0136	0.0019	
Venus	53011-01-17 15:36	G	21082945.94	21082946.15	21082946.37	0.0136	0.0010	
Venus	53011-08-31 22:05	G	21083172.21	21083172.42	21083172.63	0.0135	0.0039	
Venus	53012-04-14 04:19	G	21083398.49	21083398.68	21083398.87	0.0135	0.0067	
Venus	53012-11-26 10:34	G	21083624.79	21083624.94	21083625.10	0.0135	0.0094	
Venus	53013-07-10 16:34	G	21083851.12	21083851.19	21083851.30	0.0135	0.0122	
Moon	53015-09-15 22:34	G	21084648.32	21084648.44	21084648.61	0.0134	0.0112	
Earth	53015-09-16 00:58	G	21084648.43	21084648.54	21084648.70	0.0134	0.0114	*
Earth	53016-09-19 08:10	G	21085017.61	21085017.84	21085018.08	0.0134	0.0052	
Moon	53016-09-19 10:34	G	21085017.72	21085017.94	21085018.17	0.0134	0.0056	*
Moon	53017-09-23 12:58	G	21085386.78	21085387.04	21085387.30	0.0134	0.0016	
Earth	53017-09-23 14:53	G	21085386.87	21085387.12	21085387.38	0.0134	0.0010	*
Earth	53018-09-27 20:53	G	21085756.18	21085756.37	21085756.60	0.0134	0.0071	
Moon	53018-09-27 23:17	G	21085756.27	21085756.47	21085756.70	0.0134	0.0064	*

Earth	53019-10-02 03:22 G	21086125.61	21086125.64	21086125.71	0.0134	0.0131
Mercury	53045-04-21 04:34 G	21095458.64	21095458.69	21095458.76	0.0139	0.0122
Mercury	53045-07-18 07:55 G	21095546.75	21095546.83	21095546.92	0.0139	0.0102
Mercury	53045-10-14 11:17 G	21095634.86	21095634.97	21095635.08	0.0139	0.0081
Mercury	53046-01-10 14:24 G	21095722.99	21095723.10	21095723.23	0.0140	0.0061
Mercury	53046-04-08 17:46 G	21095811.12	21095811.24	21095811.37	0.0140	0.0040
Mercury	53046-07-05 21:07 G	21095899.25	21095899.38	21095899.51	0.0140	0.0019
Mercury	53046-10-02 00:29 G	21095987.39	21095987.52	21095987.65	0.0140	0.0003
Mercury	53046-12-29 03:36 G	21096075.53	21096075.65	21096075.78	0.0140	0.0024
Mercury	53047-03-27 06:58 G	21096163.67	21096163.79	21096163.92	0.0140	0.0044
Mercury	53047-06-23 10:05 G	21096251.81	21096251.92	21096252.04	0.0140	0.0065
Mercury	53047-09-19 13:26 G	21096339.96	21096340.06	21096340.17	0.0140	0.0086
Mercury	53047-12-16 16:48 G	21096428.12	21096428.20	21096428.29	0.0140	0.0107
Mercury	53048-03-13 19:55 G	21096516.29	21096516.33	21096516.39	0.0140	0.0128
Venus	53051-12-08 15:07 G	21097881.05	21097881.13	21097881.25	0.0142	0.0125
Venus	53052-07-22 01:41 G	21098107.41	21098107.57	21098107.74	0.0142	0.0092
Venus	53053-03-05 12:14 G	21098333.81	21098334.01	21098334.21	0.0142	0.0060
Venus	53053-10-17 22:48 G	21098560.24	21098560.45	21098560.67	0.0143	0.0027
Venus	53054-06-01 09:36 G	21098786.68	21098786.90	21098787.12	0.0143	0.0007
Venus	53055-01-13 20:24 G	21099013.14	21099013.35	21099013.56	0.0143	0.0040
Venus	53055-08-28 07:12 G	21099239.62	21099239.80	21099239.99	0.0143	0.0074
Venus	53056-04-10 18:14 G	21099466.13	21099466.26	21099466.41	0.0143	0.0107
Venus	53056-11-23 05:31 G	21099692.70	21099692.73	21099692.78	0.0143	0.0141
Moon	53059-03-19 04:48 G	21100538.49	21100538.70	21100538.94	0.0144	0.0080
Earth	53059-03-19 05:17 G	21100538.52	21100538.72	21100538.94	0.0144	0.0080 *
Earth	53060-03-23 07:26 G	21100908.56	21100908.81	21100909.07	0.0144	0.0003
Moon	53060-03-23 07:26 G	21100908.57	21100908.81	21100909.06	0.0144	0.0003 *
Earth	53061-03-28 09:50 G	21101278.70	21101278.91	21101279.13	0.0144	0.0075
Moon	53061-03-28 10:34 G	21101278.72	21101278.94	21101279.19	0.0144	0.0069 *
Mercury	53085-08-20 09:22 G	21110189.85	21110189.89	21110189.96	0.0139	0.0133

Mercury	53085-11-16 17:17 G	21110278.11	21110278.22	21110278.36	0.0139	0.0103
Mercury	53086-02-13 01:12 G	21110366.40	21110366.55	21110366.73	0.0139	0.0073
Mercury	53086-05-12 09:22 G	21110454.71	21110454.89	21110455.08	0.0138	0.0042
Mercury	53086-08-08 17:17 G	21110543.03	21110543.22	21110543.42	0.0138	0.0012
Mercury	53086-11-05 01:12 G	21110631.36	21110631.55	21110631.75	0.0138	0.0018
Mercury	53087-02-01 09:07 G	21110719.70	21110719.88	21110720.07	0.0138	0.0048
Mercury	53087-04-30 17:02 G	21110808.05	21110808.21	21110808.38	0.0138	0.0079
Mercury	53087-07-28 00:43 G	21110896.43	21110896.53	21110896.67	0.0138	0.0109
Venus	53092-03-25 22:34 G	21112599.34	21112599.44	21112599.57	0.0136	0.0116
Venus	53092-11-07 05:46 G	21112825.58	21112825.74	21112825.91	0.0136	0.0086
Venus	53093-06-21 12:29 G	21113051.84	21113052.02	21113052.23	0.0136	0.0058
Venus	53094-02-02 19:26 G	21113278.10	21113278.31	21113278.52	0.0136	0.0029
Venus	53094-09-17 01:55 G	21113504.37	21113504.58	21113504.80	0.0136	0.0002
Venus	53095-05-01 08:24 G	21113730.64	21113730.85	21113731.07	0.0135	0.0028
Venus	53095-12-13 14:38 G	21113956.92	21113957.11	21113957.32	0.0135	0.0057
Venus	53096-07-26 21:07 G	21114183.21	21114183.38	21114183.55	0.0135	0.0084
Venus	53097-03-10 03:07 G	21114409.52	21114409.63	21114409.76	0.0135	0.0112
Moon	53099-09-16 10:34 G	21115329.79	21115329.94	21115330.09	0.0134	0.0109
Earth	53099-09-16 12:58 G	21115329.91	21115330.04	21115330.21	0.0134	0.0109 *
Earth	53100-09-20 19:55 G	21115699.10	21115699.33	21115699.58	0.0134	0.0047
Moon	53100-09-20 22:48 G	21115699.22	21115699.45	21115699.68	0.0134	0.0042 *
Moon	53101-09-24 23:46 G	21116068.23	21116068.49	21116068.75	0.0134	0.0009
Earth	53101-09-25 02:38 G	21116068.36	21116068.61	21116068.86	0.0134	0.0014 *
Earth	53102-09-29 08:38 G	21116437.67	21116437.86	21116438.09	0.0134	0.0075
Moon	53102-09-29 11:02 G	21116437.78	21116437.96	21116438.17	0.0134	0.0082 *
Moon	53103-10-03 12:00 G	21116806.95	21116807.00	21116807.09	0.0134	0.0128
Mars	53117-05-24 20:24 G	21121789.15	21121789.35	21121789.59	0.0135	0.0098
Mercury	53129-02-13 08:24 G	21126071.85	21126071.85	21126071.85	0.0139	0.0139
Mercury	53129-05-12 11:31 G	21126159.92	21126159.98	21126160.06	0.0139	0.0119
Mercury	53129-08-08 14:53 G	21126248.03	21126248.12	21126248.22	0.0139	0.0098

Mercury	53129-11-04 18:14 G	21126336.15	21126336.26	21126336.37	0.0139	0.0077
Mercury	53130-01-31 21:36 G	21126424.28	21126424.40	21126424.52	0.0140	0.0056
Mercury	53130-04-30 00:58 G	21126512.41	21126512.54	21126512.66	0.0140	0.0036
Mercury	53130-07-27 04:05 G	21126600.54	21126600.67	21126600.80	0.0140	0.0015
Mercury	53130-10-23 07:26 G	21126688.68	21126688.81	21126688.94	0.0140	0.0006
Mercury	53131-01-19 10:48 G	21126776.82	21126776.95	21126777.08	0.0140	0.0027
Mercury	53131-04-17 13:55 G	21126864.96	21126865.08	21126865.21	0.0140	0.0048
Mercury	53131-07-14 17:17 G	21126953.11	21126953.22	21126953.33	0.0140	0.0069
Mercury	53131-10-10 20:38 G	21127041.26	21127041.36	21127041.46	0.0140	0.0090
Mercury	53132-01-06 23:46 G	21127129.42	21127129.49	21127129.57	0.0140	0.0111
Mercury	53132-04-04 02:53 G	21127217.59	21127217.62	21127217.67	0.0140	0.0132
Venus	53135-08-08 21:22 G	21128439.36	21128439.39	21128439.44	0.0142	0.0139
Venus	53136-03-22 07:26 G	21128665.69	21128665.81	21128665.97	0.0142	0.0107
Venus	53136-11-03 18:00 G	21128892.08	21128892.25	21128892.45	0.0142	0.0074
Venus	53137-06-18 04:34 G	21129118.49	21129118.69	21129118.91	0.0142	0.0042
Venus	53138-01-30 15:22 G	21129344.93	21129345.14	21129345.36	0.0143	0.0009
Venus	53138-09-14 02:10 G	21129571.38	21129571.59	21129571.81	0.0143	0.0026
Venus	53139-04-28 12:58 G	21129797.85	21129798.04	21129798.25	0.0143	0.0059
Venus	53139-12-11 00:00 G	21130024.35	21130024.50	21130024.68	0.0143	0.0093
Venus	53140-07-24 11:17 G	21130250.88	21130250.97	21130251.08	0.0143	0.0127
Moon	53143-03-20 12:14 G	21131219.81	21131220.01	21131220.25	0.0144	0.0080
Earth	53143-03-20 14:10 G	21131219.88	21131220.09	21131220.31	0.0144	0.0077 *
Earth	53144-03-24 16:34 G	21131589.93	21131590.19	21131590.45	0.0144	0.0001
Moon	53144-03-24 17:02 G	21131589.96	21131590.21	21131590.45	0.0144	0.0003 *
Moon	53145-03-29 18:58 G	21131960.08	21131960.29	21131960.51	0.0144	0.0085
Earth	53145-03-29 18:43 G	21131960.08	21131960.28	21131960.51	0.0144	0.0079 *
Mercury	53169-09-10 17:17 G	21140891.15	21140891.22	21140891.33	0.0139	0.0123
Mercury	53169-12-08 01:12 G	21140979.42	21140979.55	21140979.71	0.0139	0.0093
Mercury	53170-03-06 09:07 G	21141067.72	21141067.88	21141068.07	0.0139	0.0063
Mercury	53170-06-02 17:17 G	21141156.03	21141156.22	21141156.41	0.0138	0.0032

Mercury	53170-08-30 01:12 G	21141244.36	21141244.55	21141244.75	0.0138	0.0004
Mercury	53170-11-26 09:22 G	21141332.69	21141332.89	21141333.08	0.0138	0.0029
Mercury	53171-02-22 17:02 G	21141421.04	21141421.21	21141421.39	0.0138	0.0059
Mercury	53171-05-22 00:58 G	21141509.40	21141509.54	21141509.70	0.0138	0.0089
Mercury	53171-08-18 08:53 G	21141597.78	21141597.87	21141597.98	0.0138	0.0119
Venus	53175-11-25 08:53 G	21143157.81	21143157.87	21143157.97	0.0136	0.0127
Venus	53176-07-08 16:05 G	21143384.03	21143384.17	21143384.34	0.0136	0.0097
Venus	53177-02-19 23:02 G	21143610.28	21143610.46	21143610.66	0.0136	0.0068
Venus	53177-10-04 05:46 G	21143836.54	21143836.74	21143836.96	0.0136	0.0040
Venus	53178-05-18 12:43 G	21144062.81	21144063.03	21144063.25	0.0136	0.0011
Venus	53178-12-30 19:12 G	21144289.08	21144289.30	21144289.52	0.0136	0.0018
Venus	53179-08-14 01:26 G	21144515.36	21144515.56	21144515.77	0.0135	0.0046
Venus	53180-03-27 07:41 G	21144741.65	21144741.82	21144742.01	0.0135	0.0074
Venus	53180-11-08 13:55 G	21144967.95	21144968.08	21144968.23	0.0135	0.0102
Venus	53181-06-22 19:55 G	21145194.29	21145194.33	21145194.41	0.0135	0.0130
Moon	53183-09-17 22:34 G	21146011.28	21146011.44	21146011.61	0.0134	0.0103
Earth	53183-09-18 01:41 G	21146011.42	21146011.57	21146011.74	0.0134	0.0104 *
Earth	53184-09-21 08:24 G	21146380.62	21146380.85	21146381.10	0.0134	0.0043
Moon	53184-09-21 11:31 G	21146380.76	21146380.98	21146381.22	0.0134	0.0046 *
Moon	53185-09-25 12:14 G	21146749.76	21146750.01	21146750.27	0.0134	0.0025
Earth	53185-09-25 15:07 G	21146749.89	21146750.13	21146750.39	0.0134	0.0019 *
Earth	53186-09-29 21:22 G	21147119.19	21147119.39	21147119.60	0.0134	0.0079
Moon	53186-09-30 00:43 G	21147119.32	21147119.53	21147119.74	0.0134	0.0072 *
Jupiter	53198-09-10 21:22 G	21151482.94	21151483.39	21151483.88	0.0134	0.0047
Mars	53202-01-18 03:22 G	21152708.41	21152708.64	21152708.92	0.0135	0.0082
Mercury	53213-03-05 15:36 G	21156773.12	21156773.15	21156773.19	0.0139	0.0134
Mercury	53213-06-01 18:43 G	21156861.21	21156861.28	21156861.36	0.0139	0.0113
Mercury	53213-08-28 22:05 G	21156949.33	21156949.42	21156949.52	0.0139	0.0093
Mercury	53213-11-25 01:26 G	21157037.45	21157037.56	21157037.68	0.0139	0.0072
Mercury	53214-02-21 04:48 G	21157125.58	21157125.70	21157125.82	0.0140	0.0051

Mercury	53214-05-20 08:10 G	21157213.71	21157213.84	21157213.97	0.0140	0.0030
Mercury	53214-08-16 11:17 G	21157301.84	21157301.97	21157302.11	0.0140	0.0011
Mercury	53214-11-12 14:38 G	21157389.98	21157390.11	21157390.24	0.0140	0.0011
Mercury	53215-02-08 18:00 G	21157478.12	21157478.25	21157478.38	0.0140	0.0032
Mercury	53215-05-07 21:07 G	21157566.26	21157566.38	21157566.51	0.0140	0.0053
Mercury	53215-08-04 00:29 G	21157654.41	21157654.52	21157654.63	0.0140	0.0074
Mercury	53215-10-31 03:50 G	21157742.56	21157742.66	21157742.75	0.0140	0.0095
Mercury	53216-01-27 06:58 G	21157830.72	21157830.79	21157830.87	0.0140	0.0116
Mercury	53216-04-24 10:05 G	21157918.90	21157918.92	21157918.96	0.0140	0.0137
Venus	53219-11-20 14:24 G	21159224.00	21159224.10	21159224.22	0.0142	0.0121
Venus	53220-07-04 00:43 G	21159450.37	21159450.53	21159450.71	0.0142	0.0089
Venus	53221-02-15 11:17 G	21159676.77	21159676.97	21159677.17	0.0142	0.0056
Venus	53221-09-29 21:50 G	21159903.20	21159903.41	21159903.63	0.0142	0.0022
Venus	53222-05-14 08:38 G	21160129.64	21160129.86	21160130.07	0.0143	0.0011
Venus	53222-12-26 19:26 G	21160356.11	21160356.31	21160356.52	0.0143	0.0045
Venus	53223-08-10 06:29 G	21160582.59	21160582.77	21160582.96	0.0143	0.0078
Venus	53224-03-23 17:17 G	21160809.10	21160809.22	21160809.37	0.0143	0.0112
Moon	53227-03-20 21:07 G	21161901.16	21161901.38	21161901.62	0.0144	0.0072
Earth	53227-03-20 23:02 G	21161901.25	21161901.46	21161901.69	0.0144	0.0074 *
Earth	53228-03-25 01:12 G	21162271.30	21162271.55	21162271.81	0.0144	0.0004
Moon	53228-03-25 02:53 G	21162271.37	21162271.62	21162271.87	0.0144	0.0005 *
Moon	53229-03-30 03:07 G	21162641.41	21162641.63	21162641.86	0.0144	0.0076
Earth	53229-03-30 03:22 G	21162641.45	21162641.64	21162641.87	0.0144	0.0082 *
Jupiter	53240-05-05 23:17 G	21166696.26	21166696.47	21166696.74	0.0144	0.0128
Mars	53242-05-21 14:38 G	21167441.83	21167442.11	21167442.41	0.0143	0.0029
Mercury	53253-10-01 00:58 G	21171592.43	21171592.54	21171592.65	0.0139	0.0114
Mercury	53253-12-28 08:53 G	21171680.72	21171680.87	21171681.02	0.0139	0.0084
Mercury	53254-03-26 16:48 G	21171769.02	21171769.20	21171769.38	0.0139	0.0054
Mercury	53254-06-23 00:43 G	21171857.34	21171857.53	21171857.72	0.0138	0.0023
Mercury	53254-09-19 08:38 G	21171945.66	21171945.86	21171946.06	0.0138	0.0007

Mercury	53254-12-16 16:34 G	21172034.00	21172034.19	21172034.38	0.0138	0.0037
Mercury	53255-03-15 00:29 G	21172122.35	21172122.52	21172122.69	0.0138	0.0067
Mercury	53255-06-11 08:24 G	21172210.72	21172210.85	21172210.99	0.0138	0.0097
Mercury	53255-09-07 16:19 G	21172299.11	21172299.18	21172299.26	0.0138	0.0128
Venus	53260-03-08 01:55 G	21173942.45	21173942.58	21173942.71	0.0136	0.0109
Venus	53260-10-20 08:38 G	21174168.69	21174168.86	21174169.04	0.0136	0.0080
Venus	53261-06-03 15:36 G	21174394.96	21174395.15	21174395.36	0.0136	0.0051
Venus	53262-01-15 22:34 G	21174621.22	21174621.44	21174621.65	0.0136	0.0022
Venus	53262-08-30 05:02 G	21174847.50	21174847.71	21174847.93	0.0136	0.0007
Venus	53263-04-13 11:17 G	21175073.77	21175073.97	21175074.19	0.0135	0.0036
Venus	53263-11-25 17:46 G	21175300.06	21175300.24	21175300.44	0.0135	0.0063
Venus	53264-07-09 00:14 G	21175526.36	21175526.51	21175526.68	0.0135	0.0091
Venus	53265-02-20 06:29 G	21175752.68	21175752.77	21175752.88	0.0135	0.0119
Moon	53267-09-18 09:50 G	21176692.76	21176692.91	21176693.11	0.0134	0.0099
Earth	53267-09-18 13:26 G	21176692.91	21176693.06	21176693.25	0.0134	0.0099 *
Earth	53268-09-21 20:38 G	21177062.11	21177062.36	21177062.60	0.0134	0.0038
Moon	53268-09-21 23:46 G	21177062.26	21177062.49	21177062.74	0.0134	0.0034 *
Moon	53269-09-25 23:31 G	21177431.23	21177431.48	21177431.73	0.0134	0.0018
Earth	53269-09-26 03:07 G	21177431.38	21177431.63	21177431.88	0.0134	0.0023 *
Earth	53270-09-30 08:38 G	21177800.69	21177800.86	21177801.08	0.0134	0.0084
Moon	53270-09-30 11:46 G	21177800.83	21177800.99	21177801.19	0.0134	0.0091 *
Mercury	53297-03-25 22:34 G	21187474.40	21187474.44	21187474.50	0.0139	0.0129
Mercury	53297-06-22 01:55 G	21187562.51	21187562.58	21187562.67	0.0139	0.0108
Mercury	53297-09-18 05:17 G	21187650.62	21187650.72	21187650.82	0.0139	0.0088
Mercury	53297-12-15 08:24 G	21187738.75	21187738.85	21187738.97	0.0139	0.0068
Mercury	53298-03-13 11:46 G	21187826.87	21187826.99	21187827.12	0.0139	0.0047
Mercury	53298-06-09 15:07 G	21187915.00	21187915.13	21187915.26	0.0140	0.0026
Mercury	53298-09-05 18:29 G	21188003.14	21188003.27	21188003.40	0.0140	0.0005
Mercury	53298-12-02 21:50 G	21188091.28	21188091.41	21188091.54	0.0140	0.0016
Mercury	53299-03-01 00:58 G	21188179.42	21188179.54	21188179.67	0.0140	0.0037

Mercury	53299-05-28 04:19 G	21188267.56	21188267.68	21188267.80	0.0140	0.0057
Mercury	53299-08-24 07:41 G	21188355.71	21188355.82	21188355.92	0.0140	0.0078
Mercury	53299-11-20 10:48 G	21188443.86	21188443.95	21188444.04	0.0140	0.0099
Mercury	53300-02-16 13:55 G	21188532.02	21188532.08	21188532.15	0.0140	0.0120
Venus	53303-07-21 20:38 G	21189782.32	21189782.36	21189782.45	0.0142	0.0136
Venus	53304-03-04 07:12 G	21190008.66	21190008.80	21190008.95	0.0142	0.0103
Venus	53304-10-16 17:31 G	21190235.05	21190235.23	21190235.43	0.0142	0.0071
Venus	53305-05-31 04:05 G	21190461.46	21190461.67	21190461.88	0.0142	0.0038
Venus	53306-01-12 14:53 G	21190687.90	21190688.12	21190688.34	0.0143	0.0004
Venus	53306-08-27 01:41 G	21190914.36	21190914.57	21190914.79	0.0143	0.0030
Venus	53307-04-10 12:29 G	21191140.83	21191141.02	21191141.22	0.0143	0.0063
Venus	53307-11-22 23:31 G	21191367.33	21191367.48	21191367.65	0.0143	0.0097
Venus	53308-07-06 10:48 G	21191593.87	21191593.95	21191594.05	0.0143	0.0131
Moon	53310-03-17 08:38 G	21192212.84	21192212.86	21192212.94	0.0144	0.0141
Moon	53311-03-22 04:48 G	21192582.49	21192582.70	21192582.94	0.0144	0.0075
Earth	53311-03-22 08:10 G	21192582.61	21192582.84	21192583.06	0.0144	0.0070 *
Earth	53312-03-26 10:05 G	21192952.67	21192952.92	21192953.18	0.0144	0.0007
Moon	53312-03-26 12:00 G	21192952.75	21192953.00	21192953.25	0.0144	0.0006 *
Moon	53313-03-31 10:48 G	21193322.76	21193322.95	21193323.17	0.0144	0.0089
Earth	53313-03-31 12:14 G	21193322.82	21193323.01	21193323.23	0.0144	0.0085 *
Mercury	53337-07-26 00:14 G	21202205.48	21202205.51	21202205.55	0.0139	0.0136
Mercury	53337-10-22 08:10 G	21202293.72	21202293.84	21202293.97	0.0139	0.0106
Mercury	53338-01-18 16:05 G	21202382.01	21202382.17	21202382.34	0.0139	0.0076
Mercury	53338-04-17 00:00 G	21202470.32	21202470.50	21202470.69	0.0139	0.0045
Mercury	53338-07-14 07:55 G	21202558.64	21202558.83	21202559.03	0.0138	0.0015
Mercury	53338-10-10 15:50 G	21202646.97	21202647.16	21202647.36	0.0138	0.0016
Mercury	53339-01-06 23:46 G	21202735.31	21202735.49	21202735.68	0.0138	0.0046
Mercury	53339-04-05 07:55 G	21202823.66	21202823.83	21202823.99	0.0138	0.0076
Mercury	53339-07-02 15:22 G	21202912.04	21202912.14	21202912.28	0.0138	0.0107
Mercury	53339-09-28 23:31 G	21203000.46	21203000.48	21203000.52	0.0138	0.0136

Venus	53343-11-07 10:48 G	21204500.87	21204500.95	21204501.07	0.0137	0.0122
Venus	53344-06-20 18:00 G	21204727.11	21204727.25	21204727.43	0.0136	0.0093
Venus	53345-02-02 01:12 G	21204953.36	21204953.55	21204953.75	0.0136	0.0063
Venus	53345-09-16 08:10 G	21205179.63	21205179.84	21205180.05	0.0136	0.0034
Venus	53346-04-30 14:53 G	21205405.90	21205406.12	21205406.33	0.0136	0.0006
Venus	53346-12-12 21:22 G	21205632.18	21205632.39	21205632.61	0.0136	0.0023
Venus	53347-07-27 03:36 G	21205858.47	21205858.65	21205858.87	0.0135	0.0053
Venus	53348-03-09 10:05 G	21206084.76	21206084.92	21206085.11	0.0135	0.0081
Venus	53348-10-21 16:34 G	21206311.07	21206311.19	21206311.32	0.0135	0.0108
Moon	53351-09-19 21:22 G	21207374.24	21207374.39	21207374.59	0.0134	0.0095
Earth	53351-09-20 01:26 G	21207374.39	21207374.56	21207374.75	0.0134	0.0094 *
Earth	53352-09-23 08:24 G	21207743.60	21207743.85	21207744.09	0.0134	0.0033
Moon	53352-09-23 11:46 G	21207743.75	21207743.99	21207744.24	0.0134	0.0035 *
Moon	53353-09-27 11:17 G	21208112.73	21208112.97	21208113.22	0.0134	0.0034
Earth	53353-09-27 14:53 G	21208112.88	21208113.12	21208113.37	0.0134	0.0028 *
Earth	53354-10-01 20:53 G	21208482.19	21208482.37	21208482.56	0.0134	0.0088
Moon	53354-10-02 00:14 G	21208482.33	21208482.51	21208482.73	0.0134	0.0082 *
Mars	53369-06-06 17:31 G	21213843.93	21213844.23	21213844.56	0.0135	0.0036
Mercury	53381-04-16 06:14 G	21218175.70	21218175.76	21218175.82	0.0139	0.0122
Mercury	53381-07-13 09:36 G	21218263.81	21218263.90	21218263.99	0.0139	0.0102
Mercury	53381-10-09 12:43 G	21218351.93	21218352.03	21218352.14	0.0139	0.0081
Mercury	53382-01-05 16:05 G	21218440.05	21218440.17	21218440.29	0.0139	0.0060
Mercury	53382-04-03 19:26 G	21218528.18	21218528.31	21218528.43	0.0139	0.0040
Mercury	53382-06-30 22:34 G	21218616.31	21218616.44	21218616.57	0.0140	0.0020
Mercury	53382-09-27 01:55 G	21218704.45	21218704.58	21218704.71	0.0140	0.0003
Mercury	53382-12-24 05:17 G	21218792.59	21218792.72	21218792.85	0.0140	0.0023
Mercury	53383-03-22 08:24 G	21218880.73	21218880.85	21218880.98	0.0140	0.0044
Mercury	53383-06-18 11:46 G	21218968.88	21218968.99	21218969.11	0.0140	0.0064
Mercury	53383-09-14 14:53 G	21219057.02	21219057.12	21219057.23	0.0140	0.0085
Mercury	53383-12-11 18:00 G	21219145.18	21219145.25	21219145.35	0.0140	0.0107

Mercury	53384-03-08 21:36 G	21219233.35	21219233.40	21219233.45	0.0140	0.0126
Venus	53387-11-02 15:07 G	21220567.02	21220567.13	21220567.27	0.0142	0.0117
Venus	53388-06-16 01:41 G	21220793.40	21220793.57	21220793.75	0.0142	0.0084
Venus	53389-01-28 12:00 G	21221019.81	21221020.00	21221020.21	0.0142	0.0052
Venus	53389-09-11 22:48 G	21221246.24	21221246.45	21221246.67	0.0142	0.0018
Venus	53390-04-26 09:36 G	21221472.68	21221472.90	21221473.12	0.0143	0.0016
Venus	53390-12-08 20:24 G	21221699.15	21221699.35	21221699.56	0.0143	0.0050
Venus	53391-07-23 07:26 G	21221925.64	21221925.81	21221925.99	0.0143	0.0083
Venus	53392-03-05 18:14 G	21222152.16	21222152.26	21222152.40	0.0143	0.0118
Earth	53394-03-17 17:31 G	21222894.20	21222894.23	21222894.30	0.0144	0.0141
Moon	53395-03-22 16:19 G	21223263.96	21223264.18	21223264.44	0.0144	0.0061
Earth	53395-03-22 19:26 G	21223264.09	21223264.31	21223264.55	0.0144	0.0065 *
Earth	53396-03-26 21:36 G	21223634.14	21223634.40	21223634.66	0.0144	0.0012
Moon	53396-03-27 00:14 G	21223634.26	21223634.51	21223634.76	0.0144	0.0012 *
Moon	53397-03-31 21:36 G	21224004.20	21224004.40	21224004.62	0.0144	0.0086
Earth	53397-03-31 23:46 G	21224004.29	21224004.49	21224004.69	0.0144	0.0090 *
Mars	53409-10-09 18:00 G	21228578.07	21228578.25	21228578.45	0.0143	0.0108
Mercury	53421-08-16 07:41 G	21232906.75	21232906.82	21232906.90	0.0139	0.0127
Mercury	53421-11-12 15:36 G	21232995.02	21232995.15	21232995.29	0.0139	0.0097
Mercury	53422-02-08 23:31 G	21233083.31	21233083.48	21233083.65	0.0139	0.0067
Mercury	53422-05-08 07:26 G	21233171.63	21233171.81	21233172.00	0.0139	0.0037
Mercury	53422-08-04 15:22 G	21233259.95	21233260.14	21233260.34	0.0139	0.0007
Mercury	53422-10-31 23:17 G	21233348.28	21233348.47	21233348.67	0.0138	0.0024
Mercury	53423-01-28 07:12 G	21233436.63	21233436.80	21233436.99	0.0138	0.0054
Mercury	53423-04-26 15:07 G	21233524.98	21233525.13	21233525.29	0.0138	0.0084
Mercury	53423-07-23 23:02 G	21233613.36	21233613.46	21233613.58	0.0138	0.0115
Venus	53427-07-08 20:38 G	21235059.32	21235059.36	21235059.41	0.0137	0.0133
Venus	53428-02-20 03:22 G	21235285.52	21235285.64	21235285.80	0.0136	0.0105
Venus	53428-10-03 10:34 G	21235511.77	21235511.94	21235512.13	0.0136	0.0075
Venus	53429-05-17 17:31 G	21235738.04	21235738.23	21235738.45	0.0136	0.0046

Venus	53429-12-30 00:29 G	21235964.31	21235964.52	21235964.74	0.0136	0.0017
Venus	53430-08-13 07:12 G	21236190.59	21236190.80	21236191.02	0.0136	0.0012
Venus	53431-03-27 13:41 G	21236416.87	21236417.07	21236417.28	0.0135	0.0041
Venus	53431-11-08 19:55 G	21236643.16	21236643.33	21236643.53	0.0135	0.0070
Venus	53432-06-22 02:38 G	21236869.47	21236869.61	21236869.77	0.0135	0.0097
Venus	53433-02-03 08:53 G	21237095.80	21237095.87	21237095.96	0.0135	0.0125
Moon	53435-09-21 09:36 G	21238055.72	21238055.90	21238056.10	0.0134	0.0087
Earth	53435-09-21 12:58 G	21238055.86	21238056.04	21238056.24	0.0134	0.0088 *
Earth	53436-09-24 19:55 G	21238425.08	21238425.33	21238425.58	0.0134	0.0027
Moon	53436-09-24 23:31 G	21238425.24	21238425.48	21238425.73	0.0134	0.0025 *
Moon	53437-09-28 22:48 G	21238794.21	21238794.45	21238794.70	0.0134	0.0029
Earth	53437-09-29 02:24 G	21238794.36	21238794.60	21238794.85	0.0134	0.0033 *
Earth	53438-10-03 08:10 G	21239163.67	21239163.84	21239164.03	0.0134	0.0093
Moon	53438-10-03 11:46 G	21239163.83	21239163.99	21239164.16	0.0134	0.0100 *
Mercury	53465-02-08 10:19 G	21248788.91	21248788.93	21248788.95	0.0139	0.0137
Mercury	53465-05-07 13:41 G	21248877.00	21248877.07	21248877.14	0.0139	0.0117
Mercury	53465-08-03 16:48 G	21248965.11	21248965.20	21248965.30	0.0139	0.0096
Mercury	53465-10-30 20:10 G	21249053.23	21249053.34	21249053.45	0.0139	0.0075
Mercury	53466-01-26 23:31 G	21249141.36	21249141.48	21249141.60	0.0139	0.0055
Mercury	53466-04-25 02:38 G	21249229.49	21249229.61	21249229.74	0.0140	0.0034
Mercury	53466-07-22 06:00 G	21249317.62	21249317.75	21249317.88	0.0140	0.0013
Mercury	53466-10-18 09:22 G	21249405.76	21249405.89	21249406.02	0.0140	0.0008
Mercury	53467-01-14 12:29 G	21249493.90	21249494.02	21249494.15	0.0140	0.0028
Mercury	53467-04-12 15:50 G	21249582.04	21249582.16	21249582.28	0.0140	0.0049
Mercury	53467-07-09 18:58 G	21249670.18	21249670.29	21249670.41	0.0140	0.0070
Mercury	53467-10-05 22:19 G	21249758.33	21249758.43	21249758.53	0.0140	0.0091
Mercury	53468-01-02 01:26 G	21249846.49	21249846.56	21249846.65	0.0140	0.0112
Mercury	53468-03-30 04:48 G	21249934.67	21249934.70	21249934.75	0.0140	0.0132
Venus	53471-07-03 23:02 G	21251125.39	21251125.46	21251125.56	0.0142	0.0130
Venus	53472-02-15 09:07 G	21251351.74	21251351.88	21251352.06	0.0142	0.0098

Venus	53472-09-28 19:41 G	21251578.14	21251578.32	21251578.53	0.0142	0.0065
Venus	53473-05-13 06:29 G	21251804.56	21251804.77	21251804.99	0.0142	0.0032
Venus	53473-12-25 17:31 G	21252031.01	21252031.23	21252031.44	0.0142	0.0003
Venus	53474-08-09 04:05 G	21252257.47	21252257.67	21252257.89	0.0143	0.0036
Venus	53475-03-23 15:07 G	21252483.94	21252484.13	21252484.32	0.0143	0.0069
Venus	53475-11-05 01:55 G	21252710.44	21252710.58	21252710.74	0.0143	0.0103
Venus	53476-06-18 13:26 G	21252937.00	21252937.06	21252937.12	0.0143	0.0137
Earth	53478-03-19 05:17 G	21253575.64	21253575.72	21253575.80	0.0144	0.0135
Moon	53478-03-19 08:38 G	21253575.75	21253575.86	21253575.98	0.0144	0.0128 *
Moon	53479-03-24 03:07 G	21253945.41	21253945.63	21253945.87	0.0144	0.0065
Earth	53479-03-24 06:43 G	21253945.56	21253945.78	21253946.02	0.0144	0.0059 *
Earth	53480-03-28 08:53 G	21254315.62	21254315.87	21254316.13	0.0144	0.0018
Moon	53480-03-28 11:46 G	21254315.74	21254315.99	21254316.24	0.0144	0.0018 *
Moon	53481-04-02 08:10 G	21254685.67	21254685.84	21254686.05	0.0144	0.0099
Earth	53481-04-02 10:48 G	21254685.78	21254685.95	21254686.16	0.0144	0.0096 *
Mars	53494-06-05 01:12 G	21259497.34	21259497.55	21259497.79	0.0143	0.0091
Mercury	53505-09-06 15:36 G	21263608.06	21263608.15	21263608.27	0.0139	0.0117
Mercury	53505-12-03 23:31 G	21263696.34	21263696.48	21263696.64	0.0139	0.0087
Mercury	53506-03-02 07:26 G	21263784.64	21263784.81	21263785.00	0.0139	0.0057
Mercury	53506-05-29 15:36 G	21263872.96	21263873.15	21263873.34	0.0139	0.0026
Mercury	53506-08-25 23:31 G	21263961.29	21263961.48	21263961.68	0.0139	0.0004
Mercury	53506-11-22 07:26 G	21264049.62	21264049.81	21264050.00	0.0138	0.0034
Mercury	53507-02-18 15:22 G	21264137.97	21264138.14	21264138.31	0.0138	0.0065
Mercury	53507-05-17 23:02 G	21264226.33	21264226.46	21264226.61	0.0138	0.0095
Mercury	53507-08-14 06:58 G	21264314.72	21264314.79	21264314.88	0.0138	0.0125
Venus	53511-10-21 14:10 G	21265843.98	21265844.09	21265844.21	0.0137	0.0115
Venus	53512-06-03 21:07 G	21266070.23	21266070.38	21266070.56	0.0136	0.0086
Venus	53513-01-16 04:19 G	21266296.49	21266296.68	21266296.88	0.0136	0.0057
Venus	53513-08-30 11:17 G	21266522.76	21266522.97	21266523.18	0.0136	0.0028
Venus	53514-04-13 18:00 G	21266749.03	21266749.25	21266749.47	0.0136	0.0001

Venus	53514-11-26 00:43 G	21266975.32	21266975.53	21266975.74	0.0136	0.0030
Venus	53515-07-10 07:12 G	21267201.61	21267201.80	21267202.00	0.0135	0.0059
Venus	53516-02-21 13:26 G	21267427.91	21267428.06	21267428.24	0.0135	0.0087
Venus	53516-10-04 19:41 G	21267654.23	21267654.32	21267654.45	0.0135	0.0115
Moon	53519-09-22 22:05 G	21268737.24	21268737.42	21268737.62	0.0134	0.0085
Earth	53519-09-23 01:41 G	21268737.38	21268737.57	21268737.78	0.0134	0.0083 *
Earth	53520-09-26 08:24 G	21269106.61	21269106.85	21269107.10	0.0134	0.0022
Moon	53520-09-26 11:46 G	21269106.74	21269106.99	21269107.25	0.0134	0.0023 *
Moon	53521-09-30 11:17 G	21269475.74	21269475.97	21269476.21	0.0134	0.0043
Earth	53521-09-30 14:53 G	21269475.88	21269476.12	21269476.36	0.0134	0.0038 *
Earth	53522-10-04 20:53 G	21269845.20	21269845.37	21269845.54	0.0134	0.0098
Moon	53522-10-05 00:14 G	21269845.34	21269845.51	21269845.71	0.0134	0.0092 *
Mercury	53549-03-01 17:46 G	21279490.20	21279490.24	21279490.29	0.0139	0.0130
Mercury	53549-05-28 21:22 G	21279578.31	21279578.39	21279578.47	0.0139	0.0110
Mercury	53549-08-25 00:29 G	21279666.42	21279666.52	21279666.62	0.0139	0.0089
Mercury	53549-11-21 03:50 G	21279754.55	21279754.66	21279754.77	0.0139	0.0068
Mercury	53550-02-17 07:12 G	21279842.67	21279842.80	21279842.92	0.0140	0.0048
Mercury	53550-05-16 10:19 G	21279930.80	21279930.93	21279931.06	0.0140	0.0027
Mercury	53550-08-12 13:41 G	21280018.94	21280019.07	21280019.20	0.0140	0.0006
Mercury	53550-11-08 17:02 G	21280107.07	21280107.21	21280107.34	0.0140	0.0015
Mercury	53551-02-04 20:10 G	21280195.21	21280195.34	21280195.47	0.0140	0.0035
Mercury	53551-05-03 23:17 G	21280283.36	21280283.47	21280283.60	0.0140	0.0057
Mercury	53551-07-31 02:38 G	21280371.51	21280371.61	21280371.72	0.0140	0.0077
Mercury	53551-10-27 06:00 G	21280459.66	21280459.75	21280459.84	0.0140	0.0098
Mercury	53552-01-23 09:07 G	21280547.82	21280547.88	21280547.95	0.0140	0.0119
Mercury	53552-04-20 12:14 G	21280636.01	21280636.01	21280636.04	0.0140	0.0140
Venus	53555-10-16 18:14 G	21281910.14	21281910.26	21281910.41	0.0142	0.0110
Venus	53556-05-30 04:48 G	21282136.52	21282136.70	21282136.89	0.0142	0.0077
Venus	53557-01-11 15:22 G	21282362.94	21282363.14	21282363.35	0.0142	0.0044
Venus	53557-08-26 02:10 G	21282589.37	21282589.59	21282589.81	0.0142	0.0011

Venus	53558-04-09 12:58 G	21282815.82	21282816.04	21282816.26	0.0143	0.0023
Venus	53558-11-21 23:46 G	21283042.30	21283042.49	21283042.70	0.0143	0.0057
Venus	53559-07-06 11:02 G	21283268.79	21283268.96	21283269.13	0.0143	0.0090
Venus	53560-02-17 21:50 G	21283495.32	21283495.41	21283495.53	0.0143	0.0124
Earth	53562-03-20 17:46 G	21284257.15	21284257.24	21284257.38	0.0144	0.0129
Moon	53562-03-20 21:36 G	21284257.34	21284257.40	21284257.50	0.0144	0.0137 *
Moon	53563-03-25 16:19 G	21284626.95	21284627.18	21284627.44	0.0144	0.0048
Earth	53563-03-25 19:55 G	21284627.10	21284627.33	21284627.58	0.0144	0.0053 *
Earth	53564-03-29 21:50 G	21284997.17	21284997.41	21284997.67	0.0144	0.0025
Moon	53564-03-30 01:26 G	21284997.31	21284997.56	21284997.81	0.0144	0.0023 *
Moon	53565-04-03 21:07 G	21285367.20	21285367.38	21285367.58	0.0144	0.0099
Earth	53565-04-04 00:00 G	21285367.33	21285367.50	21285367.70	0.0144	0.0102 *
Mercury	53589-06-30 16:05 G	21294221.15	21294221.17	21294221.23	0.0139	0.0135
Mercury	53589-09-27 00:00 G	21294309.39	21294309.50	21294309.64	0.0139	0.0105
Mercury	53589-12-24 07:55 G	21294397.68	21294397.83	21294398.01	0.0139	0.0075
Mercury	53590-03-22 16:05 G	21294485.99	21294486.17	21294486.36	0.0139	0.0044
Mercury	53590-06-19 00:00 G	21294574.31	21294574.50	21294574.70	0.0139	0.0014
Mercury	53590-09-15 07:55 G	21294662.64	21294662.83	21294663.03	0.0139	0.0016
Mercury	53590-12-12 15:36 G	21294750.98	21294751.15	21294751.34	0.0138	0.0047
Mercury	53591-03-10 23:31 G	21294839.33	21294839.48	21294839.65	0.0138	0.0077
Mercury	53591-06-07 07:26 G	21294927.70	21294927.81	21294927.94	0.0138	0.0107
Mercury	53591-09-03 15:36 G	21295016.12	21295016.15	21295016.18	0.0138	0.0136
Venus	53595-06-21 00:58 G	21296402.47	21296402.54	21296402.64	0.0137	0.0126
Venus	53596-02-02 08:10 G	21296628.70	21296628.84	21296629.01	0.0136	0.0097
Venus	53596-09-15 15:22 G	21296854.96	21296855.14	21296855.34	0.0136	0.0067
Venus	53597-04-29 22:19 G	21297081.23	21297081.43	21297081.64	0.0136	0.0038
Venus	53597-12-12 05:17 G	21297307.50	21297307.72	21297307.94	0.0136	0.0009
Venus	53598-07-26 12:00 G	21297533.79	21297534.00	21297534.22	0.0136	0.0020
Venus	53599-03-09 18:29 G	21297760.07	21297760.27	21297760.48	0.0135	0.0049
Venus	53599-10-22 00:43 G	21297986.37	21297986.53	21297986.73	0.0135	0.0078

Venus	53600-06-04 07:26 G	21298212.68	21298212.81	21298212.95	0.0135	0.0105
Venus	53601-01-16 13:41 G	21298439.05	21298439.07	21298439.11	0.0135	0.0133
Moon	53603-09-23 12:00 G	21299418.80	21299419.00	21299419.21	0.0134	0.0074
Earth	53603-09-23 14:53 G	21299418.93	21299419.12	21299419.34	0.0134	0.0077 *
Earth	53604-09-26 21:50 G	21299788.16	21299788.41	21299788.66	0.0134	0.0016
Moon	53604-09-27 01:12 G	21299788.30	21299788.55	21299788.81	0.0134	0.0015 *
Moon	53605-10-01 00:43 G	21300157.30	21300157.53	21300157.77	0.0134	0.0041
Earth	53605-10-01 03:50 G	21300157.43	21300157.66	21300157.91	0.0134	0.0044 *
Earth	53606-10-05 09:22 G	21300526.76	21300526.89	21300527.07	0.0134	0.0104
Moon	53606-10-05 12:58 G	21300526.91	21300527.04	21300527.20	0.0134	0.0110 *
Mars	53621-06-20 17:17 G	21305898.91	21305899.22	21305899.54	0.0135	0.0032
Mercury	53633-03-22 00:58 G	21310191.50	21310191.54	21310191.61	0.0139	0.0125
Mercury	53633-06-18 04:19 G	21310279.60	21310279.68	21310279.77	0.0139	0.0105
Mercury	53633-09-14 07:41 G	21310367.72	21310367.82	21310367.93	0.0139	0.0084
Mercury	53633-12-11 11:02 G	21310455.85	21310455.96	21310456.08	0.0139	0.0063
Mercury	53634-03-09 14:24 G	21310543.97	21310544.10	21310544.22	0.0140	0.0043
Mercury	53634-06-05 17:31 G	21310632.11	21310632.23	21310632.37	0.0140	0.0023
Mercury	53634-09-01 20:53 G	21310720.24	21310720.37	21310720.50	0.0140	0.0003
Mercury	53634-11-29 00:14 G	21310808.38	21310808.51	21310808.64	0.0140	0.0020
Mercury	53635-02-25 03:22 G	21310896.52	21310896.64	21310896.77	0.0140	0.0041
Mercury	53635-05-24 06:43 G	21310984.66	21310984.78	21310984.90	0.0140	0.0061
Mercury	53635-08-20 09:50 G	21311072.81	21311072.91	21311073.02	0.0140	0.0082
Mercury	53635-11-16 13:12 G	21311160.97	21311161.05	21311161.14	0.0140	0.0103
Mercury	53636-02-12 16:34 G	21311249.13	21311249.19	21311249.25	0.0140	0.0124
Venus	53639-06-16 01:55 G	21312468.48	21312468.58	21312468.69	0.0142	0.0123
Venus	53640-01-28 12:00 G	21312694.85	21312695.00	21312695.18	0.0142	0.0091
Venus	53640-09-10 22:34 G	21312921.25	21312921.44	21312921.65	0.0142	0.0058
Venus	53641-04-25 09:22 G	21313147.68	21313147.89	21313148.11	0.0142	0.0024
Venus	53641-12-07 20:10 G	21313374.13	21313374.34	21313374.56	0.0143	0.0009
Venus	53642-07-22 06:58 G	21313600.59	21313600.79	21313601.00	0.0143	0.0043

Venus	53643-03-05 17:46 G	21313827.07	21313827.24	21313827.43	0.0143	0.0077
Venus	53643-10-18 05:02 G	21314053.57	21314053.71	21314053.85	0.0143	0.0111
Earth	53646-03-21 04:19 G	21314938.57	21314938.68	21314938.83	0.0144	0.0125
Moon	53646-03-21 08:10 G	21314938.70	21314938.84	21314939.00	0.0144	0.0117 *
Moon	53647-03-26 02:38 G	21315308.38	21315308.61	21315308.85	0.0144	0.0055
Earth	53647-03-26 06:29 G	21315308.53	21315308.77	21315309.02	0.0144	0.0048 *
Earth	53648-03-30 08:38 G	21315678.61	21315678.86	21315679.11	0.0144	0.0029
Moon	53648-03-30 11:46 G	21315678.75	21315678.99	21315679.25	0.0144	0.0031 *
Moon	53649-04-04 07:26 G	21316048.65	21316048.81	21316048.99	0.0144	0.0109
Earth	53649-04-04 10:48 G	21316048.79	21316048.95	21316049.14	0.0144	0.0106 *
Mars	53661-10-23 17:17 G	21320633.94	21320634.22	21320634.51	0.0143	0.0030
Mercury	53673-07-21 00:58 G	21324922.46	21324922.54	21324922.64	0.0139	0.0123
Mercury	53673-10-17 08:53 G	21325010.73	21325010.87	21325011.02	0.0139	0.0092
Mercury	53674-01-13 16:48 G	21325099.03	21325099.20	21325099.38	0.0139	0.0062
Mercury	53674-04-12 00:43 G	21325187.34	21325187.53	21325187.72	0.0139	0.0032
Mercury	53674-07-09 08:38 G	21325275.67	21325275.86	21325276.06	0.0139	0.0002
Mercury	53674-10-05 16:34 G	21325364.00	21325364.19	21325364.38	0.0139	0.0028
Mercury	53675-01-02 00:29 G	21325452.34	21325452.52	21325452.70	0.0138	0.0059
Mercury	53675-03-31 08:24 G	21325540.70	21325540.85	21325541.00	0.0138	0.0089
Mercury	53675-06-27 15:50 G	21325629.08	21325629.16	21325629.28	0.0138	0.0120
Venus	53679-02-18 12:58 G	21326961.01	21326961.04	21326961.07	0.0137	0.0135
Venus	53679-10-02 20:10 G	21327187.20	21327187.34	21327187.48	0.0137	0.0106
Venus	53680-05-16 03:22 G	21327413.46	21327413.64	21327413.82	0.0136	0.0077
Venus	53680-12-28 10:19 G	21327639.73	21327639.93	21327640.14	0.0136	0.0047
Venus	53681-08-11 17:17 G	21327866.00	21327866.22	21327866.43	0.0136	0.0018
Venus	53682-03-26 00:00 G	21328092.28	21328092.50	21328092.72	0.0136	0.0011
Venus	53682-11-07 06:29 G	21328318.57	21328318.77	21328318.98	0.0136	0.0040
Venus	53683-06-21 12:58 G	21328544.87	21328545.04	21328545.24	0.0135	0.0069
Venus	53684-02-02 19:26 G	21328771.17	21328771.31	21328771.47	0.0135	0.0097
Venus	53684-09-16 01:55 G	21328997.50	21328997.58	21328997.67	0.0135	0.0124

Earth	53686-09-19 22:05 G	21329731.39	21329731.42	21329731.49	0.0135	0.0132
Moon	53686-09-20 01:12 G	21329731.48	21329731.55	21329731.64	0.0135	0.0127 *
Moon	53687-09-24 02:10 G	21330100.39	21330100.59	21330100.80	0.0134	0.0074
Earth	53687-09-24 05:02 G	21330100.52	21330100.71	21330100.94	0.0134	0.0072 *
Earth	53688-09-27 11:46 G	21330469.74	21330469.99	21330470.25	0.0134	0.0011
Moon	53688-09-27 14:38 G	21330469.86	21330470.11	21330470.37	0.0134	0.0011 *
Moon	53689-10-01 14:53 G	21330838.89	21330839.12	21330839.35	0.0134	0.0053
Earth	53689-10-01 17:46 G	21330839.02	21330839.24	21330839.49	0.0134	0.0050 *
Earth	53690-10-05 23:46 G	21331208.35	21331208.49	21331208.64	0.0134	0.0109
Moon	53690-10-06 03:07 G	21331208.47	21331208.63	21331208.79	0.0134	0.0103 *
Mercury	53717-04-12 08:38 G	21340892.80	21340892.86	21340892.93	0.0139	0.0119
Mercury	53717-07-09 11:46 G	21340980.91	21340980.99	21340981.09	0.0139	0.0098
Mercury	53717-10-05 15:07 G	21341069.03	21341069.13	21341069.25	0.0139	0.0078
Mercury	53718-01-01 18:29 G	21341157.15	21341157.27	21341157.39	0.0139	0.0057
Mercury	53718-03-30 21:50 G	21341245.28	21341245.41	21341245.54	0.0140	0.0036
Mercury	53718-06-27 01:12 G	21341333.42	21341333.55	21341333.68	0.0140	0.0016
Mercury	53718-09-23 04:19 G	21341421.55	21341421.68	21341421.81	0.0140	0.0007
Mercury	53718-12-20 07:41 G	21341509.69	21341509.82	21341509.95	0.0140	0.0026
Mercury	53719-03-18 11:02 G	21341597.83	21341597.96	21341598.08	0.0140	0.0047
Mercury	53719-06-14 14:10 G	21341685.98	21341686.09	21341686.21	0.0140	0.0068
Mercury	53719-09-10 17:31 G	21341774.13	21341774.23	21341774.33	0.0140	0.0088
Mercury	53719-12-07 20:38 G	21341862.29	21341862.36	21341862.45	0.0140	0.0109
Mercury	53720-03-04 23:46 G	21341950.46	21341950.49	21341950.55	0.0140	0.0131
Venus	53723-02-14 10:05 G	21343026.87	21343026.92	21343026.99	0.0141	0.0136
Venus	53723-09-28 20:10 G	21343253.21	21343253.34	21343253.50	0.0142	0.0104
Venus	53724-05-12 06:29 G	21343479.60	21343479.77	21343479.97	0.0142	0.0071
Venus	53724-12-24 17:31 G	21343706.02	21343706.23	21343706.44	0.0142	0.0038
Venus	53725-08-08 04:05 G	21343932.45	21343932.67	21343932.89	0.0142	0.0004
Venus	53726-03-22 14:38 G	21344158.90	21344159.11	21344159.33	0.0143	0.0030
Venus	53726-11-04 01:26 G	21344385.37	21344385.56	21344385.76	0.0143	0.0064

Venus	53727-06-18 12:29 G	21344611.87	21344612.02	21344612.18	0.0143	0.0097
Venus	53728-01-30 23:31 G	21344838.41	21344838.48	21344838.58	0.0143	0.0131
Earth	53730-03-22 15:22 G	21345620.02	21345620.14	21345620.30	0.0144	0.0120
Moon	53730-03-22 18:43 G	21345620.19	21345620.28	21345620.42	0.0144	0.0128 *
Moon	53731-03-27 13:55 G	21345989.84	21345990.08	21345990.33	0.0144	0.0038
Earth	53731-03-27 17:31 G	21345989.99	21345990.23	21345990.48	0.0144	0.0044 *
Earth	53732-03-31 19:26 G	21346360.07	21346360.31	21346360.57	0.0144	0.0033
Moon	53732-03-31 23:17 G	21346360.23	21346360.47	21346360.73	0.0144	0.0031 *
Moon	53733-04-05 18:29 G	21346730.11	21346730.27	21346730.44	0.0144	0.0109
Earth	53733-04-05 21:36 G	21346730.26	21346730.40	21346730.58	0.0144	0.0111 *
Mercury	53757-08-11 09:07 G	21355623.77	21355623.88	21355624.00	0.0139	0.0111
Mercury	53757-11-07 17:02 G	21355712.06	21355712.21	21355712.37	0.0139	0.0081
Mercury	53758-02-04 00:58 G	21355800.36	21355800.54	21355800.72	0.0139	0.0051
Mercury	53758-05-03 08:53 G	21355888.68	21355888.87	21355889.06	0.0139	0.0021
Mercury	53758-07-30 16:48 G	21355977.01	21355977.20	21355977.39	0.0139	0.0009
Mercury	53758-10-27 00:43 G	21356065.34	21356065.53	21356065.72	0.0139	0.0040
Mercury	53759-01-23 08:38 G	21356153.69	21356153.86	21356154.03	0.0138	0.0070
Mercury	53759-04-21 16:19 G	21356242.06	21356242.18	21356242.32	0.0138	0.0100
Mercury	53759-07-19 00:14 G	21356330.46	21356330.51	21356330.58	0.0138	0.0130
Venus	53763-06-03 06:58 G	21357745.70	21357745.79	21357745.92	0.0137	0.0117
Venus	53764-01-15 14:24 G	21357971.94	21357972.10	21357972.28	0.0136	0.0087
Venus	53764-08-28 21:22 G	21358198.21	21358198.39	21358198.60	0.0136	0.0058
Venus	53765-04-12 04:19 G	21358424.48	21358424.68	21358424.91	0.0136	0.0030
Venus	53765-11-24 11:31 G	21358650.76	21358650.98	21358651.20	0.0136	0.0001
Venus	53766-07-08 18:14 G	21358877.05	21358877.26	21358877.48	0.0136	0.0030
Venus	53767-02-20 00:43 G	21359103.34	21359103.53	21359103.73	0.0135	0.0059
Venus	53767-10-04 06:58 G	21359329.64	21359329.79	21359329.97	0.0135	0.0087
Venus	53768-05-17 13:26 G	21359555.96	21359556.06	21359556.18	0.0135	0.0115
Earth	53770-09-21 12:14 G	21360412.94	21360413.01	21360413.11	0.0135	0.0126
Moon	53770-09-21 15:07 G	21360413.08	21360413.13	21360413.19	0.0135	0.0131 *

Moon	53771-09-25 16:34 G	21360781.99	21360782.19	21360782.42	0.0134	0.0063
Earth	53771-09-25 18:58 G	21360782.09	21360782.29	21360782.53	0.0134	0.0066 *
Earth	53772-09-29 01:41 G	21361151.32	21361151.57	21361151.83	0.0134	0.0005
Moon	53772-09-29 04:48 G	21361151.44	21361151.70	21361151.96	0.0134	0.0004 *
Moon	53773-10-03 05:17 G	21361520.50	21361520.72	21361520.96	0.0134	0.0053
Earth	53773-10-03 07:55 G	21361520.61	21361520.83	21361521.06	0.0134	0.0055 *
Earth	53774-10-07 13:12 G	21361889.95	21361890.05	21361890.20	0.0134	0.0115
Moon	53774-10-07 16:34 G	21361890.08	21361890.19	21361890.31	0.0134	0.0120 *
Mars	53788-11-07 11:17 G	21367034.73	21367034.97	21367035.25	0.0135	0.0079
Mercury	53801-02-04 12:29 G	21371506.00	21371506.02	21371506.06	0.0139	0.0134
Mercury	53801-05-03 15:50 G	21371594.09	21371594.16	21371594.24	0.0139	0.0113
Mercury	53801-07-30 19:12 G	21371682.21	21371682.30	21371682.40	0.0139	0.0092
Mercury	53801-10-26 22:19 G	21371770.33	21371770.43	21371770.55	0.0139	0.0073
Mercury	53802-01-23 01:41 G	21371858.45	21371858.57	21371858.70	0.0139	0.0052
Mercury	53802-04-21 05:02 G	21371946.59	21371946.71	21371946.84	0.0139	0.0031
Mercury	53802-07-18 08:24 G	21372034.72	21372034.85	21372034.98	0.0139	0.0010
Mercury	53802-10-14 11:46 G	21372122.86	21372122.99	21372123.12	0.0140	0.0011
Mercury	53803-01-10 14:53 G	21372210.99	21372211.12	21372211.25	0.0140	0.0032
Mercury	53803-04-08 18:14 G	21372299.14	21372299.26	21372299.38	0.0140	0.0052
Mercury	53803-07-05 21:22 G	21372387.29	21372387.39	21372387.51	0.0140	0.0073
Mercury	53803-10-02 00:43 G	21372475.44	21372475.53	21372475.63	0.0140	0.0094
Mercury	53803-12-29 04:05 G	21372563.60	21372563.67	21372563.74	0.0140	0.0114
Mercury	53804-03-26 07:12 G	21372651.77	21372651.80	21372651.84	0.0140	0.0135
Venus	53807-05-30 03:22 G	21373811.53	21373811.64	21373811.77	0.0141	0.0117
Venus	53808-01-11 13:41 G	21374037.91	21374038.07	21374038.25	0.0142	0.0085
Venus	53808-08-25 00:00 G	21374264.31	21374264.50	21374264.71	0.0142	0.0052
Venus	53809-04-08 10:48 G	21374490.73	21374490.95	21374491.16	0.0142	0.0019
Venus	53809-11-20 21:22 G	21374717.17	21374717.39	21374717.61	0.0142	0.0015
Venus	53810-07-05 08:10 G	21374943.63	21374943.84	21374944.04	0.0143	0.0049
Venus	53811-02-16 18:43 G	21375170.11	21375170.28	21375170.47	0.0143	0.0083

Venus	53811-10-01 05:31 G	21375396.62	21375396.73	21375396.87	0.0143	0.0117
Earth	53814-03-24 00:14 G	21376301.38	21376301.51	21376301.67	0.0144	0.0117
Moon	53814-03-24 03:50 G	21376301.49	21376301.66	21376301.83	0.0144	0.0109 *
Moon	53815-03-28 22:48 G	21376671.22	21376671.45	21376671.69	0.0144	0.0048
Earth	53815-03-29 02:10 G	21376671.35	21376671.59	21376671.84	0.0144	0.0041 *
Earth	53816-04-02 04:05 G	21377041.43	21377041.67	21377041.92	0.0144	0.0036
Moon	53816-04-02 07:26 G	21377041.57	21377041.81	21377042.07	0.0144	0.0039 *
Moon	53817-04-07 02:38 G	21377411.47	21377411.61	21377411.78	0.0144	0.0115
Earth	53817-04-07 06:43 G	21377411.63	21377411.78	21377411.94	0.0144	0.0113 *
Mercury	53841-06-05 08:53 G	21386236.82	21386236.87	21386236.93	0.0139	0.0132
Mercury	53841-09-01 16:34 G	21386325.07	21386325.19	21386325.33	0.0139	0.0103
Mercury	53841-11-29 00:29 G	21386413.37	21386413.52	21386413.70	0.0139	0.0072
Mercury	53842-02-25 08:24 G	21386501.68	21386501.85	21386502.05	0.0139	0.0042
Mercury	53842-05-24 16:34 G	21386590.00	21386590.19	21386590.38	0.0139	0.0011
Mercury	53842-08-21 00:29 G	21386678.33	21386678.52	21386678.71	0.0139	0.0019
Mercury	53842-11-17 08:10 G	21386766.67	21386766.84	21386767.03	0.0139	0.0050
Mercury	53843-02-13 16:05 G	21386855.02	21386855.17	21386855.34	0.0139	0.0080
Mercury	53843-05-13 00:14 G	21386943.40	21386943.51	21386943.63	0.0138	0.0110
Venus	53847-02-01 17:31 G	21388304.17	21388304.23	21388304.32	0.0137	0.0128
Venus	53847-09-16 00:43 G	21388530.40	21388530.53	21388530.70	0.0137	0.0099
Venus	53848-04-29 08:24 G	21388756.66	21388756.85	21388757.04	0.0136	0.0069
Venus	53848-12-11 15:22 G	21388982.94	21388983.14	21388983.35	0.0136	0.0040
Venus	53849-07-25 22:34 G	21389209.22	21389209.44	21389209.66	0.0136	0.0010
Venus	53850-03-09 05:17 G	21389435.51	21389435.72	21389435.94	0.0136	0.0019
Venus	53850-10-21 12:00 G	21389661.80	21389662.00	21389662.20	0.0136	0.0048
Venus	53851-06-04 18:29 G	21389888.10	21389888.27	21389888.46	0.0135	0.0077
Venus	53852-01-17 00:43 G	21390114.41	21390114.53	21390114.68	0.0135	0.0106
Venus	53852-08-30 07:12 G	21390340.78	21390340.80	21390340.84	0.0135	0.0133
Earth	53854-09-23 01:41 G	21391094.47	21391094.57	21391094.70	0.0135	0.0120
Moon	53854-09-23 03:36 G	21391094.54	21391094.65	21391094.81	0.0135	0.0115 *

Moon	53855-09-27 06:43 G	21391463.56	21391463.78	21391464.00	0.0134	0.0063
Earth	53855-09-27 08:53 G	21391463.65	21391463.87	21391464.10	0.0134	0.0059 *
Earth	53856-09-30 15:36 G	21391832.90	21391833.15	21391833.40	0.0134	0.0002
Moon	53856-09-30 17:31 G	21391832.97	21391833.23	21391833.49	0.0134	0.0003 *
Moon	53857-10-04 18:58 G	21392202.09	21392202.29	21392202.52	0.0134	0.0064
Earth	53857-10-04 21:22 G	21392202.18	21392202.39	21392202.63	0.0134	0.0061 *
Earth	53858-10-09 03:36 G	21392571.55	21392571.65	21392571.76	0.0134	0.0120
Moon	53858-10-09 05:46 G	21392571.62	21392571.74	21392571.88	0.0134	0.0115 *
Mars	53873-07-05 00:43 G	21397954.35	21397954.53	21397954.73	0.0135	0.0109
Mercury	53885-02-24 20:10 G	21402207.30	21402207.34	21402207.40	0.0139	0.0126
Mercury	53885-05-23 23:46 G	21402295.40	21402295.49	21402295.57	0.0139	0.0105
Mercury	53885-08-20 02:53 G	21402383.52	21402383.62	21402383.73	0.0139	0.0085
Mercury	53885-11-16 06:14 G	21402471.64	21402471.76	21402471.88	0.0139	0.0064
Mercury	53886-02-12 09:22 G	21402559.77	21402559.89	21402560.02	0.0139	0.0044
Mercury	53886-05-11 12:43 G	21402647.90	21402648.03	21402648.16	0.0139	0.0023
Mercury	53886-08-07 16:05 G	21402736.04	21402736.17	21402736.30	0.0139	0.0002
Mercury	53886-11-03 19:26 G	21402824.18	21402824.31	21402824.44	0.0140	0.0019
Mercury	53887-01-30 22:34 G	21402912.32	21402912.44	21402912.57	0.0140	0.0039
Mercury	53887-04-29 01:55 G	21403000.46	21403000.58	21403000.70	0.0140	0.0060
Mercury	53887-07-26 05:02 G	21403088.61	21403088.71	21403088.82	0.0140	0.0081
Mercury	53887-10-22 08:24 G	21403176.76	21403176.85	21403176.94	0.0140	0.0101
Mercury	53888-01-18 11:31 G	21403264.93	21403264.98	21403265.05	0.0140	0.0122
Venus	53891-01-27 12:14 G	21404369.95	21404370.01	21404370.11	0.0141	0.0130
Venus	53891-09-10 22:34 G	21404596.29	21404596.44	21404596.60	0.0142	0.0098
Venus	53892-04-24 08:53 G	21404822.68	21404822.87	21404823.07	0.0142	0.0065
Venus	53892-12-06 19:12 G	21405049.10	21405049.30	21405049.52	0.0142	0.0032
Venus	53893-07-21 06:00 G	21405275.53	21405275.75	21405275.97	0.0142	0.0002
Venus	53894-03-04 16:19 G	21405501.98	21405502.18	21405502.40	0.0143	0.0036
Venus	53894-10-17 02:53 G	21405728.44	21405728.62	21405728.82	0.0143	0.0070
Venus	53895-05-31 13:55 G	21405954.94	21405955.08	21405955.24	0.0143	0.0103

Venus	53896-01-13 00:43 G	21406181.49	21406181.53	21406181.61	0.0143	0.0137
Earth	53898-03-24 12:14 G	21406982.87	21406983.01	21406983.19	0.0144	0.0111
Moon	53898-03-24 15:07 G	21406982.99	21406983.13	21406983.28	0.0144	0.0118 *
Moon	53899-03-29 11:02 G	21407352.72	21407352.96	21407353.22	0.0144	0.0029
Earth	53899-03-29 14:10 G	21407352.85	21407353.09	21407353.34	0.0144	0.0035 *
Earth	53900-04-03 16:19 G	21407722.93	21407723.18	21407723.42	0.0144	0.0042
Moon	53900-04-03 19:55 G	21407723.08	21407723.33	21407723.58	0.0144	0.0038 *
Moon	53901-04-08 15:07 G	21408093.00	21408093.13	21408093.29	0.0144	0.0119
Earth	53901-04-08 18:29 G	21408093.14	21408093.27	21408093.43	0.0144	0.0119 *
Mars	53913-11-08 03:50 G	21412689.38	21412689.66	21412689.95	0.0144	0.0030
Mercury	53925-06-26 16:19 G	21416938.11	21416938.18	21416938.28	0.0139	0.0123
Mercury	53925-09-23 00:14 G	21417026.38	21417026.51	21417026.67	0.0139	0.0093
Mercury	53925-12-20 08:24 G	21417114.68	21417114.85	21417115.02	0.0139	0.0062
Mercury	53926-03-18 16:19 G	21417202.99	21417203.18	21417203.37	0.0139	0.0032
Mercury	53926-06-15 00:14 G	21417291.31	21417291.51	21417291.70	0.0139	0.0002
Mercury	53926-09-11 08:10 G	21417379.65	21417379.84	21417380.03	0.0139	0.0029
Mercury	53926-12-08 16:05 G	21417467.99	21417468.17	21417468.35	0.0139	0.0059
Mercury	53927-03-06 23:46 G	21417556.35	21417556.49	21417556.65	0.0139	0.0090
Mercury	53927-06-03 07:41 G	21417644.74	21417644.82	21417644.93	0.0138	0.0120
Venus	53931-05-17 11:17 G	21419088.84	21419088.97	21419089.10	0.0137	0.0110
Venus	53931-12-29 18:29 G	21419315.10	21419315.27	21419315.45	0.0137	0.0081
Venus	53932-08-12 01:41 G	21419541.38	21419541.57	21419541.78	0.0136	0.0051
Venus	53933-03-26 08:53 G	21419767.65	21419767.87	21419768.09	0.0136	0.0021
Venus	53933-11-07 15:50 G	21419993.94	21419994.16	21419994.37	0.0136	0.0008
Venus	53934-06-21 22:34 G	21420220.24	21420220.44	21420220.65	0.0136	0.0037
Venus	53935-02-03 05:17 G	21420446.53	21420446.72	21420446.91	0.0136	0.0066
Venus	53935-09-17 11:31 G	21420672.84	21420672.98	21420673.15	0.0135	0.0095
Venus	53936-04-30 18:00 G	21420899.17	21420899.25	21420899.34	0.0135	0.0123
Earth	53938-09-24 14:38 G	21421775.99	21421776.11	21421776.26	0.0135	0.0114
Moon	53938-09-24 16:19 G	21421776.08	21421776.18	21421776.31	0.0135	0.0120 *

Moon	53939-09-28 20:24 G	21422145.13	21422145.35	21422145.58	0.0134	0.0049
Earth	53939-09-28 21:50 G	21422145.18	21422145.41	21422145.65	0.0134	0.0053 *
Earth	53940-10-02 04:34 G	21422514.44	21422514.69	21422514.94	0.0134	0.0007
Moon	53940-10-02 06:43 G	21422514.52	21422514.78	21422515.04	0.0134	0.0007 *
Moon	53941-10-06 09:07 G	21422883.68	21422883.88	21422884.11	0.0134	0.0066
Earth	53941-10-06 10:34 G	21422883.74	21422883.94	21422884.17	0.0134	0.0068 *
Earth	53942-10-10 16:48 G	21423253.13	21423253.20	21423253.29	0.0134	0.0126
Moon	53942-10-10 18:29 G	21423253.24	21423253.27	21423253.35	0.0134	0.0131 *
Mercury	53969-03-18 03:50 G	21432908.60	21432908.66	21432908.73	0.0139	0.0119
Mercury	53969-06-14 07:12 G	21432996.71	21432996.80	21432996.90	0.0139	0.0098
Mercury	53969-09-10 10:19 G	21433084.83	21433084.93	21433085.05	0.0139	0.0078
Mercury	53969-12-07 13:41 G	21433172.96	21433173.07	21433173.20	0.0139	0.0058
Mercury	53970-03-05 17:02 G	21433261.09	21433261.21	21433261.34	0.0139	0.0037
Mercury	53970-06-01 20:24 G	21433349.22	21433349.35	21433349.48	0.0139	0.0016
Mercury	53970-08-28 23:46 G	21433437.36	21433437.49	21433437.62	0.0139	0.0006
Mercury	53970-11-25 02:53 G	21433525.49	21433525.62	21433525.75	0.0139	0.0026
Mercury	53971-02-21 06:14 G	21433613.64	21433613.76	21433613.88	0.0140	0.0046
Mercury	53971-05-20 09:36 G	21433701.78	21433701.90	21433702.01	0.0140	0.0067
Mercury	53971-08-16 12:43 G	21433789.93	21433790.03	21433790.13	0.0140	0.0088
Mercury	53971-11-12 15:50 G	21433878.09	21433878.16	21433878.25	0.0140	0.0109
Mercury	53972-02-08 19:12 G	21433966.26	21433966.30	21433966.35	0.0140	0.0129
Venus	53975-05-12 06:58 G	21435154.67	21435154.79	21435154.94	0.0141	0.0111
Venus	53975-12-24 17:31 G	21435381.05	21435381.23	21435381.41	0.0142	0.0078
Venus	53976-08-07 03:36 G	21435607.45	21435607.65	21435607.86	0.0142	0.0045
Venus	53977-03-21 13:55 G	21435833.87	21435834.08	21435834.30	0.0142	0.0012
Venus	53977-11-03 00:29 G	21436060.31	21436060.52	21436060.74	0.0142	0.0022
Venus	53978-06-17 11:02 G	21436286.76	21436286.96	21436287.16	0.0143	0.0056
Venus	53979-01-29 21:36 G	21436513.25	21436513.40	21436513.58	0.0143	0.0090
Venus	53979-09-13 08:38 G	21436739.76	21436739.86	21436739.98	0.0143	0.0123
Earth	53982-03-26 00:00 G	21437664.33	21437664.50	21437664.68	0.0144	0.0105

Moon	53982-03-26 02:10 G	21437664.40	21437664.59	21437664.79	0.0144	0.0098	*
Moon	53983-03-30 22:48 G	21438034.22	21438034.45	21438034.70	0.0144	0.0037	
Earth	53983-03-31 01:41 G	21438034.32	21438034.57	21438034.82	0.0144	0.0029	*
Earth	53984-04-04 03:22 G	21438404.41	21438404.64	21438404.89	0.0144	0.0047	
Moon	53984-04-04 06:29 G	21438404.53	21438404.77	21438405.02	0.0144	0.0051	*
Moon	53985-04-09 02:10 G	21438774.48	21438774.59	21438774.74	0.0144	0.0124	
Earth	53985-04-09 06:00 G	21438774.63	21438774.75	21438774.89	0.0144	0.0124	*

55TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 55th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	54009-07-17 00:14 G		21447639.41	21447639.51	21447639.63	0.0139	0.0114	
Mercury	54009-10-13 08:10 G		21447727.69	21447727.84	21447728.00	0.0139	0.0083	
Mercury	54010-01-09 16:05 G		21447816.00	21447816.17	21447816.36	0.0139	0.0053	
Mercury	54010-04-08 00:14 G		21447904.31	21447904.51	21447904.70	0.0139	0.0022	
Mercury	54010-07-05 07:55 G		21447992.64	21447992.83	21447993.03	0.0139	0.0009	
Mercury	54010-10-01 15:50 G		21448080.98	21448081.16	21448081.35	0.0139	0.0039	
Mercury	54010-12-28 23:46 G		21448169.33	21448169.49	21448169.67	0.0139	0.0069	
Mercury	54011-03-27 07:41 G		21448257.69	21448257.82	21448257.96	0.0139	0.0100	
Mercury	54011-06-23 15:36 G		21448346.10	21448346.15	21448346.23	0.0138	0.0130	
Venus	54015-01-14 21:36 G		21449647.31	21449647.40	21449647.51	0.0137	0.0121	
Venus	54015-08-29 04:48 G		21449873.56	21449873.70	21449873.88	0.0137	0.0092	
Venus	54016-04-11 12:29 G		21450099.82	21450100.02	21450100.21	0.0137	0.0062	

Venus	54016-11-23 19:26 G	21450326.10	21450326.31	21450326.53	0.0136	0.0032
Venus	54017-07-08 02:38 G	21450552.39	21450552.61	21450552.83	0.0136	0.0003
Venus	54018-02-19 09:22 G	21450778.68	21450778.89	21450779.11	0.0136	0.0026
Venus	54018-10-03 15:50 G	21451004.97	21451005.16	21451005.37	0.0136	0.0056
Venus	54019-05-17 22:19 G	21451231.28	21451231.43	21451231.62	0.0136	0.0085
Venus	54019-12-30 04:48 G	21451457.60	21451457.70	21451457.83	0.0135	0.0113
Earth	54022-09-25 03:50 G	21452457.52	21452457.66	21452457.82	0.0135	0.0108
Moon	54022-09-25 04:34 G	21452457.54	21452457.69	21452457.88	0.0135	0.0102 *
Moon	54023-09-29 09:50 G	21452826.69	21452826.91	21452827.14	0.0134	0.0052
Earth	54023-09-29 11:02 G	21452826.73	21452826.96	21452827.20	0.0134	0.0047 *
Earth	54024-10-02 18:00 G	21453196.00	21453196.25	21453196.50	0.0134	0.0013
Moon	54024-10-02 18:58 G	21453196.03	21453196.29	21453196.55	0.0134	0.0015 *
Moon	54025-10-06 22:34 G	21453565.25	21453565.44	21453565.66	0.0134	0.0075
Earth	54025-10-07 00:00 G	21453565.31	21453565.50	21453565.73	0.0134	0.0074 *
Earth	54026-10-11 06:29 G	21453934.74	21453934.77	21453934.82	0.0134	0.0132
Moon	54026-10-11 07:26 G	21453934.76	21453934.81	21453934.91	0.0134	0.0128 *
Mars	54040-11-21 23:17 G	21459090.15	21459090.47	21459090.80	0.0135	0.0006
Mercury	54053-01-09 08:24 G	21463521.82	21463521.85	21463521.90	0.0139	0.0131
Mercury	54053-04-07 11:46 G	21463609.92	21463609.99	21463610.08	0.0139	0.0110
Mercury	54053-07-04 15:07 G	21463698.03	21463698.13	21463698.23	0.0139	0.0090
Mercury	54053-09-30 18:29 G	21463786.16	21463786.27	21463786.38	0.0139	0.0069
Mercury	54053-12-27 21:50 G	21463874.28	21463874.41	21463874.53	0.0139	0.0048
Mercury	54054-03-26 00:58 G	21463962.42	21463962.54	21463962.67	0.0139	0.0028
Mercury	54054-06-22 04:19 G	21464050.55	21464050.68	21464050.81	0.0139	0.0007
Mercury	54054-09-18 07:41 G	21464138.69	21464138.82	21464138.95	0.0139	0.0014
Mercury	54054-12-15 10:48 G	21464226.83	21464226.95	21464227.08	0.0140	0.0035
Mercury	54055-03-13 14:10 G	21464314.97	21464315.09	21464315.21	0.0140	0.0055
Mercury	54055-06-09 17:17 G	21464403.12	21464403.22	21464403.34	0.0140	0.0076
Mercury	54055-09-05 20:38 G	21464491.27	21464491.36	21464491.46	0.0140	0.0097
Mercury	54055-12-03 00:00 G	21464579.43	21464579.50	21464579.57	0.0140	0.0117

Mercury	54056-02-29 03:07 G	21464667.62	21464667.63	21464667.65	0.0140	0.0138
Venus	54059-01-09 17:02 G	21465713.12	21465713.21	21465713.33	0.0141	0.0123
Venus	54059-08-24 03:22 G	21465939.48	21465939.64	21465939.81	0.0141	0.0090
Venus	54060-04-06 13:26 G	21466165.87	21466166.06	21466166.26	0.0142	0.0057
Venus	54060-11-18 23:46 G	21466392.28	21466392.49	21466392.71	0.0142	0.0024
Venus	54061-07-03 10:19 G	21466618.71	21466618.93	21466619.15	0.0142	0.0010
Venus	54062-02-14 20:38 G	21466845.16	21466845.36	21466845.58	0.0142	0.0044
Venus	54062-09-29 07:26 G	21467071.63	21467071.81	21467072.00	0.0143	0.0077
Venus	54063-05-13 18:00 G	21467298.13	21467298.25	21467298.40	0.0143	0.0111
Earth	54066-03-26 14:38 G	21468345.93	21468346.11	21468346.30	0.0144	0.0097
Moon	54066-03-26 16:05 G	21468346.00	21468346.17	21468346.36	0.0144	0.0104 *
Moon	54067-03-31 14:10 G	21468715.85	21468716.09	21468716.34	0.0144	0.0015
Earth	54067-03-31 16:19 G	21468715.93	21468716.18	21468716.44	0.0144	0.0022 *
Earth	54068-04-04 18:14 G	21469086.04	21469086.26	21469086.51	0.0144	0.0055
Moon	54068-04-04 21:22 G	21469086.15	21469086.39	21469086.64	0.0144	0.0050 *
Moon	54069-04-09 18:00 G	21469456.17	21469456.25	21469456.36	0.0144	0.0133
Earth	54069-04-09 20:53 G	21469456.28	21469456.37	21469456.49	0.0144	0.0131 *
Mars	54081-03-27 19:55 G	21473826.11	21473826.33	21473826.56	0.0144	0.0092
Mercury	54093-05-10 00:43 G	21478252.48	21478252.53	21478252.61	0.0139	0.0132
Mercury	54093-08-06 08:38 G	21478340.74	21478340.86	21478341.00	0.0139	0.0101
Mercury	54093-11-02 16:34 G	21478429.03	21478429.19	21478429.37	0.0139	0.0071
Mercury	54094-01-30 00:43 G	21478517.34	21478517.53	21478517.72	0.0139	0.0040
Mercury	54094-04-28 08:38 G	21478605.67	21478605.86	21478606.05	0.0139	0.0010
Mercury	54094-07-25 16:34 G	21478694.00	21478694.19	21478694.38	0.0139	0.0020
Mercury	54094-10-22 00:29 G	21478782.34	21478782.52	21478782.70	0.0139	0.0051
Mercury	54095-01-18 08:10 G	21478870.69	21478870.84	21478871.01	0.0139	0.0082
Mercury	54095-04-16 16:05 G	21478959.07	21478959.17	21478959.30	0.0139	0.0112
Venus	54098-09-14 08:24 G	21480205.81	21480205.85	21480205.92	0.0137	0.0132
Venus	54099-04-28 16:05 G	21480432.04	21480432.17	21480432.32	0.0137	0.0102
Venus	54099-12-10 23:17 G	21480658.30	21480658.47	21480658.67	0.0137	0.0073

Venus	54100-07-25 06:43 G	21480884.58	21480884.78	21480884.99	0.0137	0.0043
Venus	54101-03-08 13:55 G	21481110.86	21481111.08	21481111.29	0.0136	0.0013
Venus	54101-10-20 20:38 G	21481337.15	21481337.36	21481337.58	0.0136	0.0016
Venus	54102-06-04 03:36 G	21481563.44	21481563.65	21481563.85	0.0136	0.0045
Venus	54103-01-16 10:19 G	21481789.74	21481789.93	21481790.11	0.0136	0.0074
Venus	54103-08-30 16:34 G	21482016.06	21482016.19	21482016.34	0.0136	0.0103
Venus	54104-04-12 23:02 G	21482242.41	21482242.46	21482242.51	0.0135	0.0131
Earth	54106-09-26 17:31 G	21483139.09	21483139.23	21483139.42	0.0135	0.0102
Moon	54106-09-26 18:14 G	21483139.12	21483139.26	21483139.43	0.0135	0.0108 *
Moon	54107-10-01 00:43 G	21483508.31	21483508.53	21483508.78	0.0134	0.0037
Earth	54107-10-01 00:58 G	21483508.31	21483508.54	21483508.79	0.0134	0.0042 *
Earth	54108-10-04 07:55 G	21483877.58	21483877.83	21483878.08	0.0134	0.0019
Moon	54108-10-04 08:53 G	21483877.61	21483877.87	21483878.13	0.0134	0.0018 *
Moon	54109-10-08 13:55 G	21484246.89	21484247.08	21484247.29	0.0134	0.0079
Earth	54109-10-08 14:24 G	21484246.90	21484247.10	21484247.31	0.0134	0.0079 *
Mercury	54137-01-30 16:19 G	21494223.12	21494223.18	21494223.24	0.0139	0.0123
Mercury	54137-04-28 19:26 G	21494311.23	21494311.31	21494311.41	0.0139	0.0103
Mercury	54137-07-25 22:48 G	21494399.35	21494399.45	21494399.56	0.0139	0.0082
Mercury	54137-10-22 02:10 G	21494487.48	21494487.59	21494487.71	0.0139	0.0061
Mercury	54138-01-18 05:31 G	21494575.60	21494575.73	21494575.86	0.0139	0.0041
Mercury	54138-04-16 08:53 G	21494663.74	21494663.87	21494664.00	0.0139	0.0020
Mercury	54138-07-13 12:00 G	21494751.87	21494752.00	21494752.14	0.0139	0.0004
Mercury	54138-10-09 15:22 G	21494840.01	21494840.14	21494840.27	0.0139	0.0021
Mercury	54139-01-05 18:43 G	21494928.15	21494928.28	21494928.40	0.0140	0.0042
Mercury	54139-04-03 21:50 G	21495016.30	21495016.41	21495016.53	0.0140	0.0063
Mercury	54139-07-01 01:12 G	21495104.45	21495104.55	21495104.65	0.0140	0.0083
Mercury	54139-09-27 04:19 G	21495192.60	21495192.68	21495192.77	0.0140	0.0104
Mercury	54139-12-24 07:26 G	21495280.77	21495280.81	21495280.88	0.0140	0.0125
Venus	54142-09-10 02:10 G	21496271.54	21496271.59	21496271.67	0.0141	0.0134
Venus	54143-04-24 12:14 G	21496497.86	21496498.01	21496498.16	0.0141	0.0102

Venus	54143-12-06 22:05 G	21496724.25	21496724.42	21496724.63	0.0142	0.0070
Venus	54144-07-20 08:38 G	21496950.65	21496950.86	21496951.07	0.0142	0.0036
Venus	54145-03-03 18:58 G	21497177.07	21497177.29	21497177.51	0.0142	0.0003
Venus	54145-10-16 05:17 G	21497403.51	21497403.72	21497403.94	0.0142	0.0031
Venus	54146-05-30 15:50 G	21497629.97	21497630.16	21497630.36	0.0143	0.0064
Venus	54147-01-12 02:53 G	21497856.46	21497856.62	21497856.78	0.0143	0.0098
Venus	54147-08-26 13:26 G	21498082.99	21498083.06	21498083.16	0.0143	0.0132
Earth	54150-03-28 03:07 G	21499027.45	21499027.63	21499027.84	0.0144	0.0092
Moon	54150-03-28 04:19 G	21499027.48	21499027.68	21499027.90	0.0144	0.0085 *
Moon	54151-04-02 03:22 G	21499397.40	21499397.64	21499397.89	0.0144	0.0024
Earth	54151-04-02 05:02 G	21499397.46	21499397.71	21499397.97	0.0144	0.0016 *
Earth	54152-04-06 07:12 G	21499767.57	21499767.80	21499768.04	0.0144	0.0060
Moon	54152-04-06 09:22 G	21499767.66	21499767.89	21499768.13	0.0144	0.0065 *
Moon	54153-04-11 06:29 G	21500137.71	21500137.77	21500137.87	0.0144	0.0136
Earth	54153-04-11 09:50 G	21500137.84	21500137.91	21500137.99	0.0144	0.0137 *
Mars	54165-11-22 03:22 G	21504745.46	21504745.64	21504745.83	0.0144	0.0109
Mercury	54177-05-31 09:22 G	21508953.81	21508953.89	21508954.00	0.0139	0.0119
Mercury	54177-08-27 17:31 G	21509042.08	21509042.23	21509042.38	0.0139	0.0089
Mercury	54177-11-24 01:26 G	21509130.39	21509130.56	21509130.74	0.0139	0.0058
Mercury	54178-02-20 09:22 G	21509218.70	21509218.89	21509219.08	0.0139	0.0028
Mercury	54178-05-19 17:17 G	21509307.03	21509307.22	21509307.42	0.0139	0.0003
Mercury	54178-08-16 01:12 G	21509395.36	21509395.55	21509395.74	0.0139	0.0033
Mercury	54178-11-12 08:53 G	21509483.71	21509483.87	21509484.06	0.0139	0.0064
Mercury	54179-02-08 17:02 G	21509572.07	21509572.21	21509572.36	0.0139	0.0094
Mercury	54179-05-08 00:43 G	21509660.46	21509660.53	21509660.63	0.0139	0.0125
Venus	54182-12-28 03:36 G	21510990.54	21510990.65	21510990.79	0.0137	0.0112
Venus	54183-08-11 11:02 G	21511216.80	21511216.96	21511217.14	0.0137	0.0082
Venus	54184-03-24 18:14 G	21511443.07	21511443.26	21511443.47	0.0137	0.0053
Venus	54184-11-06 01:26 G	21511669.35	21511669.56	21511669.78	0.0136	0.0023
Venus	54185-06-20 08:38 G	21511895.64	21511895.86	21511896.08	0.0136	0.0007

Venus	54186-02-01 15:07 G	21512121.93	21512122.13	21512122.35	0.0136	0.0037
Venus	54186-09-15 21:50 G	21512348.23	21512348.41	21512348.61	0.0136	0.0065
Venus	54187-04-30 04:19 G	21512574.53	21512574.68	21512574.85	0.0136	0.0094
Venus	54187-12-12 10:48 G	21512800.87	21512800.95	21512801.05	0.0135	0.0122
Moon	54190-09-27 08:10 G	21513820.66	21513820.84	21513821.05	0.0135	0.0089
Earth	54190-09-27 08:10 G	21513820.69	21513820.84	21513821.04	0.0135	0.0096 *
Moon	54191-10-01 15:36 G	21514189.92	21514190.15	21514190.39	0.0134	0.0040
Earth	54191-10-01 15:50 G	21514189.92	21514190.16	21514190.41	0.0134	0.0035 *
Moon	54192-10-04 22:19 G	21514559.18	21514559.43	21514559.69	0.0134	0.0029
Earth	54192-10-04 22:48 G	21514559.20	21514559.45	21514559.70	0.0134	0.0025 *
Moon	54193-10-09 04:34 G	21514928.52	21514928.69	21514928.89	0.0134	0.0086
Earth	54193-10-09 05:02 G	21514928.53	21514928.71	21514928.92	0.0134	0.0085 *
Jupiter	54207-01-07 14:53 G	21519765.69	21519766.12	21519766.60	0.0134	0.0053
Mars	54208-04-11 22:19 G	21520226.22	21520226.43	21520226.67	0.0134	0.0098
Mercury	54220-11-24 20:38 G	21524836.34	21524836.36	21524836.39	0.0139	0.0136
Mercury	54221-02-21 00:00 G	21524924.43	21524924.50	21524924.58	0.0139	0.0115
Mercury	54221-05-20 03:22 G	21525012.55	21525012.64	21525012.74	0.0139	0.0094
Mercury	54221-08-16 06:43 G	21525100.67	21525100.78	21525100.89	0.0139	0.0074
Mercury	54221-11-12 10:05 G	21525188.80	21525188.92	21525189.04	0.0139	0.0053
Mercury	54222-02-08 13:12 G	21525276.93	21525277.05	21525277.18	0.0139	0.0033
Mercury	54222-05-07 16:34 G	21525365.06	21525365.19	21525365.32	0.0139	0.0012
Mercury	54222-08-03 19:55 G	21525453.20	21525453.33	21525453.46	0.0139	0.0009
Mercury	54222-10-30 23:02 G	21525541.34	21525541.46	21525541.59	0.0139	0.0030
Mercury	54223-01-27 02:24 G	21525629.48	21525629.60	21525629.72	0.0140	0.0050
Mercury	54223-04-25 05:31 G	21525717.63	21525717.73	21525717.85	0.0140	0.0071
Mercury	54223-07-22 08:53 G	21525805.78	21525805.87	21525805.97	0.0140	0.0091
Mercury	54223-10-18 12:00 G	21525893.93	21525894.00	21525894.09	0.0140	0.0112
Mercury	54224-01-14 15:22 G	21525982.11	21525982.14	21525982.19	0.0140	0.0133
Venus	54226-12-23 21:50 G	21527056.28	21527056.41	21527056.54	0.0141	0.0114
Venus	54227-08-07 07:26 G	21527282.65	21527282.81	21527283.00	0.0142	0.0082

Venus	54228-03-20 17:46 G	21527509.04	21527509.24	21527509.45	0.0142	0.0049
Venus	54228-11-02 04:05 G	21527735.45	21527735.67	21527735.89	0.0142	0.0015
Venus	54229-06-16 14:24 G	21527961.89	21527962.10	21527962.32	0.0142	0.0018
Venus	54230-01-29 00:58 G	21528188.34	21528188.54	21528188.75	0.0142	0.0052
Venus	54230-09-12 11:31 G	21528414.82	21528414.98	21528415.17	0.0143	0.0086
Venus	54231-04-26 22:19 G	21528641.33	21528641.43	21528641.56	0.0143	0.0120
Earth	54234-03-29 17:02 G	21529709.01	21529709.21	21529709.42	0.0144	0.0085
Moon	54234-03-29 17:17 G	21529709.02	21529709.22	21529709.43	0.0144	0.0091 *
Moon	54235-04-03 17:46 G	21530078.99	21530079.24	21530079.49	0.0144	0.0003
Earth	54235-04-03 18:43 G	21530079.02	21530079.28	21530079.54	0.0144	0.0010 *
Earth	54236-04-07 20:53 G	21530449.15	21530449.37	21530449.60	0.0144	0.0067
Moon	54236-04-07 22:34 G	21530449.22	21530449.44	21530449.70	0.0144	0.0061 *
Earth	54237-04-12 23:31 G	21530819.45	21530819.48	21530819.52	0.0144	0.0143
Jupiter	54248-08-29 04:05 G	21534975.35	21534975.67	21534976.07	0.0144	0.0107
Mercury	54261-03-25 10:34 G	21539566.90	21539566.94	21539566.99	0.0139	0.0136
Mercury	54261-06-21 18:14 G	21539655.15	21539655.26	21539655.40	0.0139	0.0106
Mercury	54261-09-18 02:10 G	21539743.44	21539743.59	21539743.76	0.0139	0.0075
Mercury	54261-12-15 10:19 G	21539831.75	21539831.93	21539832.11	0.0139	0.0045
Mercury	54262-03-13 18:14 G	21539920.07	21539920.26	21539920.45	0.0139	0.0014
Mercury	54262-06-10 02:10 G	21540008.40	21540008.59	21540008.78	0.0139	0.0016
Mercury	54262-09-06 10:05 G	21540096.74	21540096.92	21540097.11	0.0139	0.0047
Mercury	54262-12-03 17:46 G	21540185.09	21540185.24	21540185.42	0.0139	0.0078
Mercury	54263-03-02 01:55 G	21540273.46	21540273.58	21540273.71	0.0139	0.0108
Mercury	54263-05-29 10:05 G	21540361.90	21540361.92	21540361.93	0.0139	0.0138
Venus	54266-08-28 15:22 G	21541549.06	21541549.14	21541549.25	0.0137	0.0122
Venus	54267-04-11 22:48 G	21541775.30	21541775.45	21541775.62	0.0137	0.0092
Venus	54267-11-24 06:00 G	21542001.57	21542001.75	21542001.96	0.0137	0.0063
Venus	54268-07-07 13:26 G	21542227.85	21542228.06	21542228.28	0.0137	0.0033
Venus	54269-02-18 20:38 G	21542454.14	21542454.36	21542454.57	0.0136	0.0004
Venus	54269-10-03 03:22 G	21542680.43	21542680.64	21542680.86	0.0136	0.0026

Venus	54270-05-17 09:50 G	21542906.72	21542906.91	21542907.12	0.0136	0.0056
Venus	54270-12-29 16:19 G	21543133.03	21543133.18	21543133.37	0.0136	0.0085
Venus	54271-08-12 23:17 G	21543359.36	21543359.47	21543359.59	0.0136	0.0113
Moon	54274-09-28 22:48 G	21544502.28	21544502.45	21544502.65	0.0135	0.0096
Earth	54274-09-28 23:31 G	21544502.31	21544502.48	21544502.68	0.0135	0.0089 *
Earth	54275-10-03 06:58 G	21544871.55	21544871.79	21544872.04	0.0134	0.0029
Moon	54275-10-03 07:55 G	21544871.59	21544871.83	21544872.07	0.0134	0.0023 *
Moon	54276-10-06 13:26 G	21545240.82	21545241.06	21545241.33	0.0134	0.0030
Earth	54276-10-06 13:41 G	21545240.84	21545241.07	21545241.33	0.0134	0.0032 *
Earth	54277-10-10 20:10 G	21545610.17	21545610.34	21545610.54	0.0134	0.0091
Moon	54277-10-10 20:53 G	21545610.21	21545610.37	21545610.56	0.0134	0.0092 *
Mars	54292-12-06 12:58 G	21551145.83	21551146.04	21551146.31	0.0134	0.0093
Mercury	54304-12-16 04:19 G	21555537.64	21555537.68	21555537.73	0.0139	0.0128
Mercury	54305-03-14 07:41 G	21555625.74	21555625.82	21555625.91	0.0139	0.0108
Mercury	54305-06-10 11:02 G	21555713.86	21555713.96	21555714.06	0.0139	0.0087
Mercury	54305-09-06 14:10 G	21555801.98	21555802.09	21555802.21	0.0139	0.0067
Mercury	54305-12-03 17:31 G	21555890.11	21555890.23	21555890.36	0.0139	0.0046
Mercury	54306-03-01 20:53 G	21555978.24	21555978.37	21555978.50	0.0139	0.0026
Mercury	54306-05-29 00:14 G	21556066.38	21556066.51	21556066.64	0.0139	0.0006
Mercury	54306-08-25 03:22 G	21556154.51	21556154.64	21556154.77	0.0139	0.0016
Mercury	54306-11-21 06:43 G	21556242.65	21556242.78	21556242.91	0.0139	0.0036
Mercury	54307-02-17 09:50 G	21556330.80	21556330.91	21556331.04	0.0140	0.0057
Mercury	54307-05-16 13:12 G	21556418.94	21556419.05	21556419.16	0.0140	0.0077
Mercury	54307-08-12 16:19 G	21556507.10	21556507.18	21556507.28	0.0140	0.0098
Mercury	54307-11-08 19:26 G	21556595.26	21556595.31	21556595.39	0.0140	0.0119
Mercury	54308-02-04 22:48 G	21556683.45	21556683.45	21556683.47	0.0140	0.0139
Venus	54310-08-24 06:00 G	21557614.66	21557614.75	21557614.85	0.0141	0.0126
Venus	54311-04-07 15:36 G	21557841.00	21557841.15	21557841.32	0.0141	0.0094
Venus	54311-11-20 01:41 G	21558067.38	21558067.57	21558067.77	0.0142	0.0062
Venus	54312-07-03 11:46 G	21558293.79	21558293.99	21558294.21	0.0142	0.0029

Venus	54313-02-14 22:19 G	21558520.21	21558520.43	21558520.65	0.0142	0.0005
Venus	54313-09-29 08:38 G	21558746.65	21558746.86	21558747.07	0.0142	0.0039
Venus	54314-05-13 18:58 G	21558973.12	21558973.29	21558973.49	0.0142	0.0073
Venus	54314-12-26 06:14 G	21559199.61	21559199.76	21559199.90	0.0143	0.0106
Venus	54315-08-09 16:48 G	21559426.17	21559426.20	21559426.25	0.0143	0.0140
Moon	54318-03-31 02:53 G	21560390.41	21560390.62	21560390.86	0.0144	0.0076
Earth	54318-03-31 03:07 G	21560390.43	21560390.63	21560390.86	0.0144	0.0082 *
Moon	54319-04-05 04:34 G	21560760.45	21560760.69	21560760.94	0.0144	0.0014
Earth	54319-04-05 05:02 G	21560760.46	21560760.71	21560760.97	0.0144	0.0006 *
Earth	54320-04-09 06:58 G	21561130.58	21561130.79	21561131.02	0.0144	0.0070
Moon	54320-04-09 07:41 G	21561130.61	21561130.82	21561131.06	0.0144	0.0076 *
Moon	54321-04-14 07:26 G	21561500.81	21561500.81	21561500.82	0.0144	0.0144
Mars	54333-04-12 17:46 G	21565881.96	21565882.24	21565882.54	0.0144	0.0019
Mercury	54345-04-15 18:14 G	21570268.19	21570268.26	21570268.35	0.0140	0.0126
Mercury	54345-07-13 02:10 G	21570356.46	21570356.59	21570356.74	0.0139	0.0095
Mercury	54345-10-09 10:19 G	21570444.76	21570444.93	21570445.10	0.0139	0.0065
Mercury	54346-01-05 18:14 G	21570533.07	21570533.26	21570533.45	0.0139	0.0034
Mercury	54346-04-04 02:10 G	21570621.40	21570621.59	21570621.79	0.0139	0.0004
Mercury	54346-07-01 10:05 G	21570709.73	21570709.92	21570710.11	0.0139	0.0027
Mercury	54346-09-27 17:46 G	21570798.08	21570798.24	21570798.43	0.0139	0.0058
Mercury	54346-12-25 01:55 G	21570886.44	21570886.58	21570886.74	0.0139	0.0088
Mercury	54347-03-23 09:36 G	21570974.82	21570974.90	21570975.02	0.0139	0.0119
Venus	54350-04-29 01:41 G	21572107.54	21572107.57	21572107.64	0.0138	0.0134
Venus	54350-12-11 09:22 G	21572333.76	21572333.89	21572334.05	0.0137	0.0104
Venus	54351-07-25 17:02 G	21572560.03	21572560.21	21572560.40	0.0137	0.0073
Venus	54352-03-08 00:14 G	21572786.31	21572786.51	21572786.72	0.0137	0.0043
Venus	54352-10-20 07:26 G	21573012.59	21573012.81	21573013.03	0.0137	0.0014
Venus	54353-06-03 14:24 G	21573238.89	21573239.10	21573239.32	0.0136	0.0016
Venus	54354-01-15 21:22 G	21573465.19	21573465.39	21573465.60	0.0136	0.0045
Venus	54354-08-30 03:50 G	21573691.49	21573691.66	21573691.86	0.0136	0.0075

Venus	54355-04-13 10:19 G	21573917.81	21573917.93	21573918.09	0.0136	0.0104
Venus	54355-11-25 17:02 G	21574144.17	21574144.21	21574144.27	0.0136	0.0132
Moon	54358-09-30 12:43 G	21575183.82	21575184.03	21575184.25	0.0135	0.0076
Earth	54358-09-30 14:10 G	21575183.90	21575184.09	21575184.30	0.0135	0.0083 *
Earth	54359-10-04 21:22 G	21575553.15	21575553.39	21575553.65	0.0134	0.0023
Moon	54359-10-04 22:34 G	21575553.20	21575553.44	21575553.68	0.0134	0.0028 *
Moon	54360-10-08 03:07 G	21575922.38	21575922.63	21575922.88	0.0134	0.0042
Earth	54360-10-08 04:34 G	21575922.45	21575922.69	21575922.93	0.0134	0.0038 *
Earth	54361-10-12 10:34 G	21576291.79	21576291.94	21576292.13	0.0134	0.0098
Moon	54361-10-12 11:17 G	21576291.82	21576291.97	21576292.16	0.0134	0.0098 *
Mercury	54389-01-05 12:00 G	21586238.95	21586239.00	21586239.07	0.0139	0.0121
Mercury	54389-04-03 15:22 G	21586327.06	21586327.14	21586327.24	0.0139	0.0100
Mercury	54389-06-30 18:43 G	21586415.18	21586415.28	21586415.39	0.0139	0.0079
Mercury	54389-09-26 22:05 G	21586503.30	21586503.42	21586503.54	0.0139	0.0059
Mercury	54389-12-24 01:12 G	21586591.43	21586591.55	21586591.68	0.0139	0.0039
Mercury	54390-03-22 04:34 G	21586679.56	21586679.69	21586679.82	0.0139	0.0018
Mercury	54390-06-18 07:55 G	21586767.70	21586767.83	21586767.96	0.0139	0.0003
Mercury	54390-09-14 11:02 G	21586855.83	21586855.96	21586856.09	0.0139	0.0024
Mercury	54390-12-11 14:24 G	21586943.98	21586944.10	21586944.22	0.0139	0.0044
Mercury	54391-03-09 17:31 G	21587032.12	21587032.23	21587032.35	0.0139	0.0064
Mercury	54391-06-05 20:53 G	21587120.27	21587120.37	21587120.47	0.0140	0.0085
Mercury	54391-09-02 00:00 G	21587208.42	21587208.50	21587208.59	0.0140	0.0106
Mercury	54391-11-29 03:22 G	21587296.59	21587296.64	21587296.70	0.0140	0.0126
Venus	54394-04-23 14:53 G	21588173.10	21588173.12	21588173.16	0.0141	0.0139
Venus	54394-12-06 00:29 G	21588399.40	21588399.52	21588399.68	0.0141	0.0108
Venus	54395-07-20 10:34 G	21588625.76	21588625.94	21588626.13	0.0141	0.0075
Venus	54396-03-02 20:38 G	21588852.16	21588852.36	21588852.57	0.0142	0.0042
Venus	54396-10-15 06:43 G	21589078.57	21589078.78	21589079.00	0.0142	0.0009
Venus	54397-05-29 17:17 G	21589305.00	21589305.22	21589305.43	0.0142	0.0025
Venus	54398-01-11 03:36 G	21589531.46	21589531.65	21589531.86	0.0142	0.0059

Venus	54398-08-25 14:24 G	21589757.94	21589758.10	21589758.27	0.0142	0.0093
Venus	54399-04-09 00:58 G	21589984.46	21589984.54	21589984.65	0.0143	0.0127
Moon	54402-03-31 14:10 G	21591071.88	21591072.09	21591072.32	0.0144	0.0081
Earth	54402-03-31 15:22 G	21591071.93	21591072.14	21591072.37	0.0144	0.0076 *
Earth	54403-04-05 17:02 G	21591441.95	21591442.21	21591442.47	0.0144	0.0001
Moon	54403-04-05 17:17 G	21591441.98	21591442.22	21591442.47	0.0144	0.0007 *
Earth	54404-04-09 18:43 G	21591812.07	21591812.28	21591812.51	0.0144	0.0075
Moon	54404-04-09 19:26 G	21591812.09	21591812.31	21591812.55	0.0144	0.0068 *
Mercury	54429-05-06 02:10 G	21600969.49	21600969.59	21600969.71	0.0140	0.0116
Mercury	54429-08-02 10:19 G	21601057.78	21601057.93	21601058.08	0.0139	0.0085
Mercury	54429-10-29 18:00 G	21601146.08	21601146.25	21601146.44	0.0139	0.0055
Mercury	54430-01-26 01:55 G	21601234.40	21601234.58	21601234.78	0.0139	0.0025
Mercury	54430-04-24 10:05 G	21601322.72	21601322.92	21601323.11	0.0139	0.0007
Mercury	54430-07-21 18:00 G	21601411.06	21601411.25	21601411.44	0.0139	0.0037
Mercury	54430-10-18 01:41 G	21601499.41	21601499.57	21601499.75	0.0139	0.0068
Mercury	54431-01-14 09:50 G	21601587.78	21601587.91	21601588.05	0.0139	0.0098
Mercury	54431-04-12 17:31 G	21601676.18	21601676.23	21601676.32	0.0139	0.0129
Venus	54434-08-10 19:26 G	21602892.21	21602892.31	21602892.44	0.0137	0.0116
Venus	54435-03-25 03:07 G	21603118.47	21603118.63	21603118.81	0.0137	0.0085
Venus	54435-11-06 10:34 G	21603344.75	21603344.94	21603345.14	0.0137	0.0055
Venus	54436-06-19 18:00 G	21603571.04	21603571.25	21603571.47	0.0137	0.0025
Venus	54437-02-01 01:12 G	21603797.33	21603797.55	21603797.77	0.0137	0.0005
Venus	54437-09-15 07:55 G	21604023.63	21604023.83	21604024.05	0.0136	0.0034
Venus	54438-04-29 14:53 G	21604249.93	21604250.12	21604250.31	0.0136	0.0063
Venus	54438-12-11 21:22 G	21604476.25	21604476.39	21604476.56	0.0136	0.0093
Venus	54439-07-26 04:05 G	21604702.59	21604702.67	21604702.78	0.0136	0.0122
Moon	54441-09-26 21:36 G	21605496.36	21605496.40	21605496.47	0.0135	0.0131
Moon	54442-10-01 01:41 G	21605865.39	21605865.57	21605865.80	0.0135	0.0084
Earth	54442-10-01 04:05 G	21605865.46	21605865.67	21605865.88	0.0135	0.0076 *
Earth	54443-10-05 11:17 G	21606234.73	21606234.97	21606235.23	0.0135	0.0016

Moon	54443-10-05 13:12 G	21606234.81	21606235.05	21606235.30	0.0135	0.0011	*
Moon	54444-10-08 16:34 G	21606603.95	21606604.19	21606604.45	0.0134	0.0041	
Earth	54444-10-08 18:14 G	21606604.02	21606604.26	21606604.50	0.0134	0.0044	*
Earth	54445-10-13 00:14 G	21606973.37	21606973.51	21606973.69	0.0134	0.0104	
Moon	54445-10-13 02:10 G	21606973.46	21606973.59	21606973.76	0.0134	0.0105	*
Mars	54460-04-25 12:58 G	21612281.72	21612282.04	21612282.37	0.0134	0.0011	
Mercury	54472-10-29 16:34 G	21616852.16	21616852.19	21616852.23	0.0138	0.0133	
Mercury	54473-01-25 19:55 G	21616940.26	21616940.33	21616940.41	0.0138	0.0112	
Mercury	54473-04-23 23:17 G	21617028.37	21617028.47	21617028.57	0.0139	0.0092	
Mercury	54473-07-21 02:24 G	21617116.49	21617116.60	21617116.72	0.0139	0.0072	
Mercury	54473-10-17 05:46 G	21617204.62	21617204.74	21617204.86	0.0139	0.0051	
Mercury	54474-01-13 09:07 G	21617292.75	21617292.88	21617293.01	0.0139	0.0031	
Mercury	54474-04-11 12:14 G	21617380.88	21617381.01	21617381.14	0.0139	0.0011	
Mercury	54474-07-08 15:36 G	21617469.02	21617469.15	21617469.28	0.0139	0.0010	
Mercury	54474-10-04 18:43 G	21617557.16	21617557.28	21617557.41	0.0139	0.0031	
Mercury	54474-12-31 22:05 G	21617645.30	21617645.42	21617645.54	0.0139	0.0051	
Mercury	54475-03-30 01:26 G	21617733.44	21617733.56	21617733.67	0.0139	0.0072	
Mercury	54475-06-26 04:19 G	21617821.59	21617821.68	21617821.79	0.0139	0.0093	
Mercury	54475-09-22 07:41 G	21617909.75	21617909.82	21617909.90	0.0140	0.0113	
Mercury	54475-12-19 10:48 G	21617997.93	21617997.95	21617998.00	0.0140	0.0134	
Venus	54478-08-05 09:36 G	21618957.80	21618957.90	21618958.03	0.0141	0.0120	
Venus	54479-03-19 19:26 G	21619184.15	21619184.31	21619184.49	0.0141	0.0087	
Venus	54479-11-01 05:31 G	21619410.53	21619410.73	21619410.93	0.0141	0.0055	
Venus	54480-06-14 15:36 G	21619636.93	21619637.15	21619637.37	0.0141	0.0022	
Venus	54481-01-27 01:55 G	21619863.36	21619863.58	21619863.80	0.0142	0.0012	
Venus	54481-09-10 12:00 G	21620089.81	21620090.00	21620090.22	0.0142	0.0046	
Venus	54482-04-24 22:34 G	21620316.27	21620316.44	21620316.63	0.0142	0.0079	
Venus	54482-12-07 09:07 G	21620542.77	21620542.88	21620543.03	0.0142	0.0114	
Moon	54486-04-01 01:12 G	21621753.32	21621753.55	21621753.79	0.0143	0.0066	
Earth	54486-04-01 02:38 G	21621753.40	21621753.61	21621753.85	0.0143	0.0071	*

Earth	54487-04-06 04:05 G	21622123.42	21622123.67	21622123.93	0.0144	0.0005
Moon	54487-04-06 05:02 G	21622123.46	21622123.71	21622123.96	0.0144	0.0003 *
Moon	54488-04-10 05:02 G	21622493.51	21622493.71	21622493.94	0.0144	0.0086
Earth	54488-04-10 05:31 G	21622493.53	21622493.73	21622493.96	0.0144	0.0080 *
Mercury	54513-02-28 01:41 G	21631582.55	21631582.57	21631582.60	0.0140	0.0138
Mercury	54513-05-27 09:22 G	21631670.78	21631670.89	21631671.02	0.0140	0.0108
Mercury	54513-08-23 17:31 G	21631759.07	21631759.23	21631759.39	0.0139	0.0077
Mercury	54513-11-20 01:26 G	21631847.38	21631847.56	21631847.74	0.0139	0.0046
Mercury	54514-02-16 09:22 G	21631935.70	21631935.89	21631936.08	0.0139	0.0016
Mercury	54514-05-15 17:17 G	21632024.03	21632024.22	21632024.41	0.0139	0.0015
Mercury	54514-08-12 01:12 G	21632112.37	21632112.55	21632112.74	0.0139	0.0045
Mercury	54514-11-08 08:53 G	21632200.72	21632200.87	21632201.05	0.0139	0.0076
Mercury	54515-02-04 17:02 G	21632289.09	21632289.21	21632289.34	0.0139	0.0106
Mercury	54515-05-04 00:43 G	21632377.52	21632377.53	21632377.58	0.0139	0.0137
Venus	54518-04-11 04:34 G	21633450.62	21633450.69	21633450.77	0.0138	0.0128
Venus	54518-11-23 12:14 G	21633676.86	21633677.01	21633677.17	0.0137	0.0098
Venus	54519-07-07 19:55 G	21633903.14	21633903.33	21633903.52	0.0137	0.0068
Venus	54520-02-19 03:07 G	21634129.43	21634129.63	21634129.85	0.0137	0.0038
Venus	54520-10-02 10:34 G	21634355.72	21634355.94	21634356.16	0.0137	0.0008
Venus	54521-05-16 17:46 G	21634582.02	21634582.24	21634582.45	0.0136	0.0022
Venus	54521-12-29 00:29 G	21634808.33	21634808.52	21634808.73	0.0136	0.0052
Venus	54522-08-12 07:41 G	21635034.65	21635034.82	21635035.00	0.0136	0.0081
Venus	54523-03-26 14:24 G	21635260.98	21635261.10	21635261.23	0.0136	0.0110
Earth	54525-09-28 08:10 G	21636177.79	21636177.84	21636177.91	0.0135	0.0131
Moon	54526-10-02 13:55 G	21636546.85	21636547.08	21636547.31	0.0135	0.0064
Earth	54526-10-02 16:19 G	21636546.97	21636547.18	21636547.40	0.0135	0.0071 *
Earth	54527-10-06 23:46 G	21636916.24	21636916.49	21636916.74	0.0135	0.0011
Moon	54527-10-07 01:55 G	21636916.33	21636916.58	21636916.82	0.0135	0.0017 *
Moon	54528-10-10 04:05 G	21637285.45	21637285.67	21637285.92	0.0134	0.0055
Earth	54528-10-10 06:43 G	21637285.55	21637285.78	21637286.02	0.0134	0.0049 *

Earth	54529-10-14 13:12 G	21637654.92	21637655.05	21637655.21	0.0134	0.0108
Moon	54529-10-14 14:53 G	21637654.99	21637655.12	21637655.28	0.0134	0.0108 *
Mercury	54556-11-20 00:29 G	21647553.47	21647553.52	21647553.58	0.0138	0.0124
Mercury	54557-02-16 03:50 G	21647641.57	21647641.66	21647641.75	0.0138	0.0104
Mercury	54557-05-15 06:58 G	21647729.69	21647729.79	21647729.90	0.0139	0.0084
Mercury	54557-08-11 10:19 G	21647817.82	21647817.93	21647818.05	0.0139	0.0063
Mercury	54557-11-07 13:41 G	21647905.94	21647906.07	21647906.19	0.0139	0.0043
Mercury	54558-02-03 16:48 G	21647994.07	21647994.20	21647994.33	0.0139	0.0023
Mercury	54558-05-02 20:10 G	21648082.21	21648082.34	21648082.47	0.0139	0.0002
Mercury	54558-07-29 23:17 G	21648170.35	21648170.47	21648170.61	0.0139	0.0019
Mercury	54558-10-26 02:38 G	21648258.48	21648258.61	21648258.74	0.0139	0.0039
Mercury	54559-01-22 05:46 G	21648346.63	21648346.74	21648346.86	0.0139	0.0060
Mercury	54559-04-20 08:53 G	21648434.78	21648434.87	21648434.99	0.0139	0.0081
Mercury	54559-07-17 12:14 G	21648522.93	21648523.01	21648523.11	0.0139	0.0101
Mercury	54559-10-13 15:36 G	21648611.09	21648611.15	21648611.22	0.0140	0.0121
Venus	54562-04-05 19:26 G	21649516.25	21649516.31	21649516.40	0.0141	0.0132
Venus	54562-11-18 05:02 G	21649742.58	21649742.71	21649742.88	0.0141	0.0100
Venus	54563-07-02 15:07 G	21649968.95	21649969.13	21649969.33	0.0141	0.0067
Venus	54564-02-14 01:12 G	21650195.35	21650195.55	21650195.77	0.0141	0.0034
Venus	54564-09-27 11:31 G	21650421.76	21650421.98	21650422.20	0.0142	0.0001
Venus	54565-05-11 21:50 G	21650648.20	21650648.41	21650648.62	0.0142	0.0033
Venus	54565-12-24 08:10 G	21650874.66	21650874.84	21650875.04	0.0142	0.0067
Venus	54566-08-07 18:43 G	21651101.14	21651101.28	21651101.45	0.0142	0.0101
Venus	54567-03-22 05:17 G	21651327.67	21651327.72	21651327.81	0.0142	0.0134
Earth	54569-03-28 15:50 G	21652065.09	21652065.16	21652065.24	0.0143	0.0136
Moon	54569-03-28 18:14 G	21652065.20	21652065.26	21652065.35	0.0143	0.0136 *
Moon	54570-04-02 14:10 G	21652434.87	21652435.09	21652435.33	0.0143	0.0067
Earth	54570-04-02 16:48 G	21652434.97	21652435.20	21652435.43	0.0143	0.0063 *
Earth	54571-04-07 17:46 G	21652804.99	21652805.24	21652805.50	0.0144	0.0012
Moon	54571-04-07 19:26 G	21652805.06	21652805.31	21652805.56	0.0144	0.0018 *

Moon	54572-04-11 18:29 G	21653175.06	21653175.27	21653175.50	0.0144	0.0079
Earth	54572-04-11 18:58 G	21653175.11	21653175.29	21653175.51	0.0144	0.0087 *
Mars	54585-04-26 07:55 G	21657937.56	21657937.83	21657938.11	0.0144	0.0044
Mercury	54597-03-20 09:22 G	21662283.83	21662283.89	21662283.98	0.0140	0.0128
Mercury	54597-06-16 17:31 G	21662372.10	21662372.23	21662372.37	0.0140	0.0097
Mercury	54597-09-13 01:26 G	21662460.39	21662460.56	21662460.73	0.0140	0.0067
Mercury	54597-12-10 09:07 G	21662548.70	21662548.88	21662549.08	0.0139	0.0037
Mercury	54598-03-08 17:17 G	21662637.03	21662637.22	21662637.42	0.0139	0.0006
Mercury	54598-06-05 01:12 G	21662725.36	21662725.55	21662725.74	0.0139	0.0025
Mercury	54598-09-01 09:07 G	21662813.70	21662813.88	21662814.06	0.0139	0.0056
Mercury	54598-11-28 16:48 G	21662902.06	21662902.20	21662902.36	0.0139	0.0086
Mercury	54599-02-25 00:43 G	21662990.44	21662990.53	21662990.65	0.0139	0.0117
Venus	54602-07-24 22:19 G	21664235.31	21664235.43	21664235.57	0.0138	0.0110
Venus	54603-03-08 05:46 G	21664461.58	21664461.74	21664461.93	0.0137	0.0080
Venus	54603-10-20 13:26 G	21664687.86	21664688.06	21664688.27	0.0137	0.0049
Venus	54604-06-02 20:53 G	21664914.16	21664914.37	21664914.59	0.0137	0.0019
Venus	54605-01-15 04:05 G	21665140.46	21665140.67	21665140.89	0.0137	0.0012
Venus	54605-08-29 11:17 G	21665366.76	21665366.97	21665367.18	0.0136	0.0041
Venus	54606-04-12 18:00 G	21665593.08	21665593.25	21665593.45	0.0136	0.0071
Venus	54606-11-25 01:12 G	21665819.40	21665819.55	21665819.70	0.0136	0.0099
Venus	54607-07-09 07:55 G	21666045.77	21666045.83	21666045.91	0.0136	0.0128
Earth	54609-09-29 21:22 G	21666859.30	21666859.39	21666859.48	0.0135	0.0126
Moon	54609-09-29 23:46 G	21666859.39	21666859.49	21666859.62	0.0135	0.0120 *
Moon	54610-10-04 02:10 G	21667228.39	21667228.59	21667228.82	0.0135	0.0073
Earth	54610-10-04 05:02 G	21667228.50	21667228.71	21667228.94	0.0135	0.0065 *
Earth	54611-10-08 12:43 G	21667597.78	21667598.03	21667598.28	0.0135	0.0005
Moon	54611-10-08 15:36 G	21667597.90	21667598.15	21667598.40	0.0135	0.0002 *
Moon	54612-10-11 17:02 G	21667966.98	21667967.21	21667967.46	0.0134	0.0050
Earth	54612-10-11 19:41 G	21667967.09	21667967.32	21667967.55	0.0134	0.0055 *
Earth	54613-10-16 02:24 G	21668336.47	21668336.60	21668336.73	0.0134	0.0114

Moon	54613-10-16 05:02 G	21668336.59	21668336.71	21668336.83	0.0134	0.0117 *
Mars	54627-09-14 09:07 G	21673417.75	21673417.88	21673418.07	0.0134	0.0117
Mercury	54640-09-14 05:02 G	21678166.69	21678166.71	21678166.73	0.0138	0.0137
Mercury	54640-12-11 08:10 G	21678254.78	21678254.84	21678254.92	0.0138	0.0117
Mercury	54641-03-09 11:31 G	21678342.89	21678342.98	21678343.08	0.0139	0.0096
Mercury	54641-06-05 14:53 G	21678431.01	21678431.12	21678431.23	0.0139	0.0076
Mercury	54641-09-01 18:14 G	21678519.14	21678519.26	21678519.38	0.0139	0.0055
Mercury	54641-11-28 21:22 G	21678607.27	21678607.39	21678607.52	0.0139	0.0035
Mercury	54642-02-25 00:43 G	21678695.40	21678695.53	21678695.66	0.0139	0.0014
Mercury	54642-05-24 04:05 G	21678783.53	21678783.67	21678783.80	0.0139	0.0007
Mercury	54642-08-20 07:12 G	21678871.67	21678871.80	21678871.93	0.0139	0.0027
Mercury	54642-11-16 10:19 G	21678959.81	21678959.93	21678960.06	0.0139	0.0048
Mercury	54643-02-12 13:41 G	21679047.96	21679048.07	21679048.19	0.0139	0.0068
Mercury	54643-05-11 16:48 G	21679136.11	21679136.20	21679136.31	0.0139	0.0088
Mercury	54643-08-07 20:10 G	21679224.26	21679224.34	21679224.42	0.0140	0.0109
Mercury	54643-11-03 23:31 G	21679312.43	21679312.48	21679312.53	0.0140	0.0129
Venus	54646-07-19 15:22 G	21680301.01	21680301.14	21680301.28	0.0141	0.0111
Venus	54647-03-03 00:58 G	21680527.37	21680527.54	21680527.73	0.0141	0.0079
Venus	54647-10-15 10:48 G	21680753.75	21680753.95	21680754.17	0.0141	0.0046
Venus	54648-05-28 21:07 G	21680980.16	21680980.38	21680980.60	0.0141	0.0013
Venus	54649-01-10 07:26 G	21681206.60	21681206.81	21681207.03	0.0142	0.0021
Venus	54649-08-24 17:46 G	21681433.04	21681433.24	21681433.44	0.0142	0.0054
Venus	54650-04-08 04:05 G	21681659.51	21681659.67	21681659.85	0.0142	0.0088
Venus	54650-11-20 14:53 G	21681886.01	21681886.12	21681886.23	0.0142	0.0122
Earth	54653-03-30 04:48 G	21682746.62	21682746.70	21682746.83	0.0143	0.0131
Moon	54653-03-30 08:24 G	21682746.76	21682746.85	21682746.97	0.0143	0.0129 *
Moon	54654-04-04 02:53 G	21683116.39	21683116.62	21683116.88	0.0143	0.0054
Earth	54654-04-04 05:46 G	21683116.51	21683116.74	21683116.98	0.0143	0.0057 *
Earth	54655-04-09 06:58 G	21683486.53	21683486.79	21683487.04	0.0144	0.0018
Moon	54655-04-09 08:53 G	21683486.62	21683486.87	21683487.12	0.0144	0.0010 *

Moon	54656-04-13 06:14 G	21683856.59	21683856.76	21683856.97	0.0144	0.0100
Earth	54656-04-13 07:55 G	21683856.66	21683856.83	21683857.05	0.0144	0.0093 *
Mercury	54681-04-10 17:17 G	21692985.13	21692985.22	21692985.33	0.0140	0.0118
Mercury	54681-07-08 01:12 G	21693073.41	21693073.55	21693073.70	0.0140	0.0088
Mercury	54681-10-04 08:53 G	21693161.71	21693161.87	21693162.06	0.0140	0.0058
Mercury	54681-12-31 17:02 G	21693250.02	21693250.21	21693250.40	0.0139	0.0027
Mercury	54682-03-30 00:58 G	21693338.35	21693338.54	21693338.74	0.0139	0.0004
Mercury	54682-06-26 08:53 G	21693426.68	21693426.87	21693427.06	0.0139	0.0034
Mercury	54682-09-22 16:34 G	21693515.03	21693515.19	21693515.37	0.0139	0.0065
Mercury	54682-12-20 00:43 G	21693603.39	21693603.53	21693603.67	0.0139	0.0095
Mercury	54683-03-18 08:24 G	21693691.78	21693691.85	21693691.94	0.0139	0.0126
Venus	54686-03-24 07:41 G	21694793.73	21694793.82	21694793.94	0.0138	0.0122
Venus	54686-11-05 15:22 G	21695019.99	21695020.14	21695020.32	0.0137	0.0092
Venus	54687-06-19 23:31 G	21695246.28	21695246.48	21695246.67	0.0137	0.0061
Venus	54688-02-01 06:58 G	21695472.58	21695472.79	21695473.00	0.0137	0.0030
Venus	54688-09-14 14:10 G	21695698.88	21695699.09	21695699.31	0.0137	0.0002
Venus	54689-04-28 21:22 G	21695925.18	21695925.39	21695925.61	0.0137	0.0030
Venus	54689-12-11 04:19 G	21696151.49	21696151.68	21696151.89	0.0136	0.0060
Venus	54690-07-25 11:17 G	21696377.82	21696377.97	21696378.15	0.0136	0.0089
Venus	54691-03-08 18:00 G	21696604.16	21696604.25	21696604.38	0.0136	0.0118
Earth	54693-09-30 09:22 G	21697540.80	21697540.89	21697541.02	0.0135	0.0121
Moon	54693-09-30 12:29 G	21697540.96	21697541.02	21697541.13	0.0135	0.0127 *
Moon	54694-10-04 14:38 G	21697909.88	21697910.11	21697910.34	0.0135	0.0053
Earth	54694-10-04 17:46 G	21697910.02	21697910.24	21697910.47	0.0135	0.0060 *
Earth	54695-10-09 01:12 G	21698279.29	21698279.55	21698279.80	0.0135	0.0001
Moon	54695-10-09 04:05 G	21698279.42	21698279.67	21698279.91	0.0135	0.0007 *
Moon	54696-10-12 04:48 G	21698648.49	21698648.70	21698648.93	0.0135	0.0066
Earth	54696-10-12 08:10 G	21698648.62	21698648.84	21698649.07	0.0135	0.0060 *
Earth	54697-10-16 14:38 G	21699018.01	21699018.11	21699018.24	0.0134	0.0119
Moon	54697-10-16 17:17 G	21699018.11	21699018.22	21699018.35	0.0134	0.0117 *

Mars	54712-05-10 23:46 G	21704337.22	21704337.49	21704337.77	0.0134	0.0072
Mercury	54724-10-05 12:29 G	21708867.99	21708868.02	21708868.08	0.0138	0.0130
Mercury	54725-01-01 16:05 G	21708956.09	21708956.17	21708956.25	0.0138	0.0109
Mercury	54725-03-30 19:12 G	21709044.21	21709044.30	21709044.41	0.0139	0.0089
Mercury	54725-06-26 22:34 G	21709132.33	21709132.44	21709132.56	0.0139	0.0068
Mercury	54725-09-23 01:55 G	21709220.46	21709220.58	21709220.70	0.0139	0.0048
Mercury	54725-12-20 05:02 G	21709308.59	21709308.71	21709308.84	0.0139	0.0028
Mercury	54726-03-18 08:24 G	21709396.72	21709396.85	21709396.98	0.0139	0.0007
Mercury	54726-06-14 11:46 G	21709484.86	21709484.99	21709485.12	0.0139	0.0014
Mercury	54726-09-10 14:53 G	21709573.00	21709573.12	21709573.25	0.0139	0.0034
Mercury	54726-12-07 18:14 G	21709661.14	21709661.26	21709661.38	0.0139	0.0055
Mercury	54727-03-05 21:22 G	21709749.29	21709749.39	21709749.50	0.0139	0.0075
Mercury	54727-06-02 00:43 G	21709837.44	21709837.53	21709837.62	0.0139	0.0096
Mercury	54727-08-29 03:50 G	21709925.60	21709925.66	21709925.74	0.0140	0.0116
Mercury	54727-11-25 06:58 G	21710013.78	21710013.79	21710013.82	0.0140	0.0137
Venus	54730-03-20 00:58 G	21710859.44	21710859.54	21710859.65	0.0141	0.0123
Venus	54730-11-01 10:34 G	21711085.78	21711085.94	21711086.11	0.0141	0.0091
Venus	54731-06-15 20:24 G	21711312.16	21711312.35	21711312.56	0.0141	0.0058
Venus	54732-01-28 06:29 G	21711538.56	21711538.77	21711538.99	0.0141	0.0026
Venus	54732-09-10 16:48 G	21711764.98	21711765.20	21711765.42	0.0142	0.0008
Venus	54733-04-25 03:07 G	21711991.42	21711991.63	21711991.84	0.0142	0.0042
Venus	54733-12-07 13:12 G	21712217.88	21712218.05	21712218.25	0.0142	0.0076
Venus	54734-07-22 00:00 G	21712444.37	21712444.50	21712444.64	0.0142	0.0109
Earth	54737-03-31 18:43 G	21713428.16	21713428.28	21713428.41	0.0143	0.0123
Moon	54737-03-31 21:36 G	21713428.29	21713428.40	21713428.54	0.0143	0.0124 *
Moon	54738-04-05 16:05 G	21713797.93	21713798.17	21713798.42	0.0143	0.0054
Earth	54738-04-05 19:12 G	21713798.07	21713798.30	21713798.55	0.0143	0.0050 *
Earth	54739-04-10 20:24 G	21714168.09	21714168.35	21714168.60	0.0144	0.0024
Moon	54739-04-10 22:48 G	21714168.21	21714168.45	21714168.70	0.0144	0.0030 *
Moon	54740-04-14 19:41 G	21714538.13	21714538.32	21714538.53	0.0144	0.0091

Earth	54740-04-14 21:22 G	21714538.22	21714538.39	21714538.59	0.0144	0.0099	*
Mars	54752-09-15 01:55 G	21719074.36	21719074.58	21719074.84	0.0144	0.0080	
Mercury	54765-02-02 18:00 G	21723598.21	21723598.25	21723598.29	0.0140	0.0136	
Mercury	54765-05-02 01:41 G	21723686.46	21723686.57	21723686.70	0.0140	0.0106	
Mercury	54765-07-29 09:36 G	21723774.75	21723774.90	21723775.07	0.0140	0.0076	
Mercury	54765-10-25 17:31 G	21723863.05	21723863.23	21723863.42	0.0140	0.0045	
Mercury	54766-01-22 01:26 G	21723951.37	21723951.56	21723951.76	0.0139	0.0015	
Mercury	54766-04-20 09:22 G	21724039.70	21724039.89	21724040.09	0.0139	0.0016	
Mercury	54766-07-17 17:17 G	21724128.04	21724128.22	21724128.41	0.0139	0.0046	
Mercury	54766-10-14 00:58 G	21724216.39	21724216.54	21724216.72	0.0139	0.0077	
Mercury	54767-01-10 09:07 G	21724304.76	21724304.88	21724305.01	0.0139	0.0107	
Mercury	54767-04-08 16:48 G	21724393.19	21724393.20	21724393.24	0.0139	0.0138	
Venus	54769-11-22 18:43 G	21725352.23	21725352.28	21725352.35	0.0138	0.0132	
Venus	54770-07-07 02:38 G	21725578.47	21725578.61	21725578.76	0.0138	0.0102	
Venus	54771-02-18 10:19 G	21725804.75	21725804.93	21725805.12	0.0137	0.0071	
Venus	54771-10-02 17:46 G	21726031.04	21726031.24	21726031.46	0.0137	0.0041	
Venus	54772-05-16 01:26 G	21726257.34	21726257.56	21726257.78	0.0137	0.0011	
Venus	54772-12-28 08:38 G	21726483.65	21726483.86	21726484.08	0.0137	0.0019	
Venus	54773-08-11 15:36 G	21726709.96	21726710.15	21726710.37	0.0136	0.0050	
Venus	54774-03-25 22:34 G	21726936.28	21726936.44	21726936.63	0.0136	0.0079	
Venus	54774-11-07 05:31 G	21727162.61	21727162.73	21727162.87	0.0136	0.0108	
Earth	54777-10-01 23:02 G	21728222.35	21728222.46	21728222.61	0.0135	0.0115	
Moon	54777-10-02 02:24 G	21728222.47	21728222.60	21728222.76	0.0135	0.0110	*
Moon	54778-10-06 03:36 G	21728591.44	21728591.65	21728591.89	0.0135	0.0062	
Earth	54778-10-06 07:12 G	21728591.58	21728591.80	21728592.04	0.0135	0.0054	*
Earth	54779-10-10 14:38 G	21728960.86	21728961.11	21728961.36	0.0135	0.0006	
Moon	54779-10-10 18:00 G	21728961.00	21728961.25	21728961.50	0.0135	0.0013	*
Moon	54780-10-13 18:29 G	21729330.05	21729330.27	21729330.51	0.0134	0.0060	
Earth	54780-10-13 21:22 G	21729330.19	21729330.39	21729330.63	0.0134	0.0066	*
Earth	54781-10-18 03:36 G	21729699.58	21729699.65	21729699.77	0.0134	0.0125	

Moon	54781-10-18 07:41 G	21729699.75	21729699.82	21729699.89	0.0134	0.0128	*
Mercury	54808-10-25 20:24 G	21739569.29	21739569.35	21739569.41	0.0138	0.0122	
Mercury	54809-01-21 23:31 G	21739657.40	21739657.48	21739657.58	0.0138	0.0102	
Mercury	54809-04-20 02:53 G	21739745.52	21739745.62	21739745.73	0.0139	0.0081	
Mercury	54809-07-17 06:14 G	21739833.64	21739833.76	21739833.88	0.0139	0.0061	
Mercury	54809-10-13 09:22 G	21739921.77	21739921.89	21739922.02	0.0139	0.0041	
Mercury	54810-01-09 12:43 G	21740009.90	21740010.03	21740010.16	0.0139	0.0020	
Mercury	54810-04-07 16:05 G	21740098.04	21740098.17	21740098.30	0.0139	0.0001	
Mercury	54810-07-04 19:12 G	21740186.17	21740186.30	21740186.43	0.0139	0.0021	
Mercury	54810-09-30 22:34 G	21740274.31	21740274.44	21740274.57	0.0139	0.0041	
Mercury	54810-12-28 01:41 G	21740362.46	21740362.57	21740362.69	0.0139	0.0062	
Mercury	54811-03-26 05:02 G	21740450.61	21740450.71	21740450.82	0.0139	0.0082	
Mercury	54811-06-22 08:24 G	21740538.76	21740538.85	21740538.93	0.0139	0.0103	
Mercury	54811-09-18 11:17 G	21740626.92	21740626.97	21740627.04	0.0140	0.0124	
Venus	54813-11-17 09:50 G	21741417.87	21741417.91	21741417.99	0.0140	0.0135	
Venus	54814-07-01 19:41 G	21741644.18	21741644.32	21741644.48	0.0141	0.0103	
Venus	54815-02-13 05:17 G	21741870.55	21741870.72	21741870.92	0.0141	0.0071	
Venus	54815-09-27 15:22 G	21742096.93	21742097.14	21742097.35	0.0141	0.0038	
Venus	54816-05-11 01:26 G	21742323.34	21742323.56	21742323.78	0.0141	0.0004	
Venus	54816-12-23 11:31 G	21742549.78	21742549.98	21742550.20	0.0142	0.0030	
Venus	54817-08-06 21:50 G	21742776.22	21742776.41	21742776.61	0.0142	0.0063	
Venus	54818-03-21 08:24 G	21743002.69	21743002.85	21743003.01	0.0142	0.0096	
Venus	54818-11-02 18:29 G	21743229.20	21743229.27	21743229.37	0.0142	0.0131	
Earth	54821-04-01 05:46 G	21744109.62	21744109.74	21744109.90	0.0143	0.0119	
Moon	54821-04-01 09:36 G	21744109.77	21744109.90	21744110.06	0.0143	0.0118	*
Moon	54822-04-06 03:22 G	21744479.40	21744479.64	21744479.89	0.0143	0.0043	
Earth	54822-04-06 06:43 G	21744479.54	21744479.78	21744480.02	0.0143	0.0046	*
Earth	54823-04-11 07:26 G	21744849.56	21744849.81	21744850.07	0.0144	0.0029	
Moon	54823-04-11 10:19 G	21744849.69	21744849.93	21744850.18	0.0144	0.0022	*
Moon	54824-04-15 06:00 G	21745219.60	21745219.75	21745219.93	0.0144	0.0111	

Earth	54824-04-15 08:53 G	21745219.70	21745219.87	21745220.06	0.0144	0.0103	*
Mars	54837-05-11 04:19 G	21749993.53	21749993.68	21749993.88	0.0144	0.0114	
Mercury	54849-02-23 01:26 G	21754299.49	21754299.56	21754299.65	0.0140	0.0127	
Mercury	54849-05-22 09:22 G	21754387.76	21754387.89	21754388.03	0.0140	0.0097	
Mercury	54849-08-18 17:02 G	21754476.05	21754476.21	21754476.39	0.0140	0.0067	
Mercury	54849-11-15 01:12 G	21754564.36	21754564.55	21754564.74	0.0140	0.0036	
Mercury	54850-02-11 09:07 G	21754652.69	21754652.88	21754653.07	0.0139	0.0006	
Mercury	54850-05-10 16:48 G	21754741.02	21754741.20	21754741.40	0.0139	0.0026	
Mercury	54850-08-07 00:58 G	21754829.36	21754829.54	21754829.72	0.0139	0.0056	
Mercury	54850-11-03 08:38 G	21754917.72	21754917.86	21754918.02	0.0139	0.0086	
Mercury	54851-01-30 16:48 G	21755006.10	21755006.20	21755006.31	0.0139	0.0116	
Venus	54854-03-06 12:14 G	21756136.90	21756137.01	21756137.14	0.0138	0.0114	
Venus	54854-10-18 19:55 G	21756363.17	21756363.33	21756363.52	0.0138	0.0084	
Venus	54855-06-02 03:50 G	21756589.47	21756589.66	21756589.87	0.0137	0.0053	
Venus	54856-01-14 11:31 G	21756815.77	21756815.98	21756816.20	0.0137	0.0022	
Venus	54856-08-27 18:58 G	21757042.07	21757042.29	21757042.51	0.0137	0.0008	
Venus	54857-04-11 01:55 G	21757268.38	21757268.58	21757268.80	0.0137	0.0038	
Venus	54857-11-23 08:53 G	21757494.70	21757494.87	21757495.07	0.0136	0.0068	
Venus	54858-07-07 16:05 G	21757721.03	21757721.17	21757721.33	0.0136	0.0098	
Venus	54859-02-18 23:17 G	21757947.39	21757947.47	21757947.54	0.0136	0.0126	
Earth	54861-10-02 11:17 G	21758903.85	21758903.97	21758904.14	0.0135	0.0111	
Moon	54861-10-02 15:07 G	21758904.02	21758904.13	21758904.27	0.0135	0.0116	*
Moon	54862-10-06 16:19 G	21759272.94	21759273.18	21759273.42	0.0135	0.0043	
Earth	54862-10-06 19:41 G	21759273.09	21759273.32	21759273.56	0.0135	0.0050	*
Earth	54863-10-11 03:07 G	21759642.38	21759642.63	21759642.88	0.0135	0.0010	
Moon	54863-10-11 06:29 G	21759642.52	21759642.77	21759643.02	0.0135	0.0003	*
Moon	54864-10-14 06:14 G	21760011.57	21760011.76	21760011.98	0.0135	0.0077	
Earth	54864-10-14 10:05 G	21760011.71	21760011.92	21760012.14	0.0135	0.0070	*
Earth	54865-10-18 16:34 G	21760381.13	21760381.19	21760381.27	0.0134	0.0129	
Moon	54865-10-18 19:41 G	21760381.25	21760381.32	21760381.42	0.0134	0.0126	*

Mars	54879-09-27 16:05 G	21765472.86	21765473.17	21765473.49	0.0134	0.0040
Mercury	54892-08-19 00:43 G	21770182.50	21770182.53	21770182.55	0.0138	0.0136
Mercury	54892-11-15 03:50 G	21770270.59	21770270.66	21770270.73	0.0138	0.0115
Mercury	54893-02-11 06:58 G	21770358.70	21770358.79	21770358.89	0.0138	0.0095
Mercury	54893-05-10 10:19 G	21770446.83	21770446.93	21770447.05	0.0139	0.0075
Mercury	54893-08-06 13:41 G	21770534.95	21770535.07	21770535.19	0.0139	0.0054
Mercury	54893-11-02 17:02 G	21770623.08	21770623.21	21770623.34	0.0139	0.0034
Mercury	54894-01-29 20:10 G	21770711.21	21770711.34	21770711.47	0.0139	0.0014
Mercury	54894-04-27 23:31 G	21770799.35	21770799.48	21770799.61	0.0139	0.0007
Mercury	54894-07-25 02:38 G	21770887.49	21770887.61	21770887.74	0.0139	0.0028
Mercury	54894-10-21 06:00 G	21770975.63	21770975.75	21770975.87	0.0139	0.0048
Mercury	54895-01-17 09:07 G	21771063.77	21771063.88	21771064.00	0.0139	0.0069
Mercury	54895-04-15 12:29 G	21771151.92	21771152.02	21771152.12	0.0139	0.0089
Mercury	54895-07-12 15:36 G	21771240.08	21771240.15	21771240.24	0.0139	0.0109
Mercury	54895-10-08 18:58 G	21771328.25	21771328.29	21771328.34	0.0139	0.0130
Venus	54898-03-01 04:19 G	21772202.56	21772202.68	21772202.80	0.0140	0.0116
Venus	54898-10-13 13:41 G	21772428.91	21772429.07	21772429.25	0.0141	0.0084
Venus	54899-05-27 23:31 G	21772655.28	21772655.48	21772655.69	0.0141	0.0051
Venus	54900-01-09 09:36 G	21772881.69	21772881.90	21772882.12	0.0141	0.0018
Venus	54900-08-23 19:41 G	21773108.10	21773108.32	21773108.54	0.0141	0.0016
Venus	54901-04-07 05:46 G	21773334.54	21773334.74	21773334.95	0.0142	0.0049
Venus	54901-11-19 15:50 G	21773560.99	21773561.16	21773561.35	0.0142	0.0083
Venus	54902-07-04 02:24 G	21773787.48	21773787.60	21773787.73	0.0142	0.0117
Earth	54905-04-02 16:34 G	21774791.05	21774791.19	21774791.35	0.0143	0.0115
Moon	54905-04-02 19:55 G	21774791.20	21774791.33	21774791.50	0.0143	0.0116 *
Moon	54906-04-07 13:26 G	21775160.82	21775161.06	21775161.31	0.0143	0.0044
Earth	54906-04-07 17:02 G	21775160.97	21775161.21	21775161.47	0.0143	0.0042 *
Earth	54907-04-12 18:00 G	21775531.00	21775531.25	21775531.50	0.0144	0.0033
Moon	54907-04-12 21:07 G	21775531.14	21775531.38	21775531.63	0.0144	0.0039 *
Moon	54908-04-16 16:19 G	21775901.00	21775901.18	21775901.38	0.0144	0.0099

Earth	54908-04-16 19:26 G	21775901.14	21775901.31	21775901.48	0.0144	0.0107	*
Mercury	54933-03-16 09:07 G	21785000.78	21785000.88	21785000.98	0.0140	0.0118	
Mercury	54933-06-12 16:48 G	21785089.06	21785089.20	21785089.36	0.0140	0.0088	
Mercury	54933-09-09 00:43 G	21785177.36	21785177.53	21785177.71	0.0140	0.0057	
Mercury	54933-12-06 08:38 G	21785265.67	21785265.86	21785266.05	0.0140	0.0027	
Mercury	54934-03-04 16:34 G	21785354.00	21785354.19	21785354.39	0.0139	0.0004	
Mercury	54934-06-01 00:29 G	21785442.33	21785442.52	21785442.71	0.0139	0.0034	
Mercury	54934-08-28 08:10 G	21785530.68	21785530.84	21785531.02	0.0139	0.0065	
Mercury	54934-11-24 16:19 G	21785619.04	21785619.18	21785619.32	0.0139	0.0095	
Mercury	54935-02-21 00:00 G	21785707.44	21785707.50	21785707.60	0.0139	0.0126	
Venus	54937-11-04 21:50 G	21786695.33	21786695.41	21786695.50	0.0138	0.0126	
Venus	54938-06-19 05:46 G	21786921.60	21786921.74	21786921.91	0.0138	0.0096	
Venus	54939-01-31 13:55 G	21787147.89	21787148.08	21787148.27	0.0137	0.0065	
Venus	54939-09-14 21:22 G	21787374.18	21787374.39	21787374.61	0.0137	0.0034	
Venus	54940-04-28 05:02 G	21787600.49	21787600.71	21787600.92	0.0137	0.0004	
Venus	54940-12-10 12:14 G	21787826.80	21787827.01	21787827.23	0.0137	0.0027	
Venus	54941-07-24 19:26 G	21788053.12	21788053.31	21788053.52	0.0137	0.0057	
Venus	54942-03-08 02:24 G	21788279.44	21788279.60	21788279.78	0.0136	0.0086	
Venus	54942-10-20 09:22 G	21788505.79	21788505.89	21788506.01	0.0136	0.0116	
Earth	54945-10-04 00:14 G	21789585.36	21789585.51	21789585.67	0.0135	0.0105	
Moon	54945-10-04 03:50 G	21789585.49	21789585.66	21789585.83	0.0135	0.0100	*
Moon	54946-10-08 04:19 G	21789954.46	21789954.68	21789954.92	0.0135	0.0052	
Earth	54946-10-08 08:24 G	21789954.61	21789954.85	21789955.08	0.0135	0.0045	*
Earth	54947-10-12 15:36 G	21790323.90	21790324.15	21790324.41	0.0135	0.0015	
Moon	54947-10-12 19:12 G	21790324.06	21790324.30	21790324.55	0.0135	0.0023	*
Moon	54948-10-15 19:12 G	21790693.09	21790693.30	21790693.53	0.0135	0.0069	
Earth	54948-10-15 22:48 G	21790693.25	21790693.45	21790693.66	0.0135	0.0075	*
Earth	54949-10-20 05:02 G	21791062.70	21791062.71	21791062.76	0.0134	0.0134	
Mercury	54976-09-09 08:10 G	21800883.80	21800883.84	21800883.89	0.0138	0.0129	
Mercury	54976-12-06 11:17 G	21800971.90	21800971.97	21800972.06	0.0138	0.0109	

Mercury	54977-03-04 14:38 G	21801060.01	21801060.11	21801060.21	0.0138	0.0088
Mercury	54977-05-31 18:00 G	21801148.14	21801148.25	21801148.36	0.0138	0.0068
Mercury	54977-08-27 21:07 G	21801236.26	21801236.38	21801236.51	0.0139	0.0048
Mercury	54977-11-24 00:29 G	21801324.39	21801324.52	21801324.65	0.0139	0.0027
Mercury	54978-02-20 03:50 G	21801412.53	21801412.66	21801412.79	0.0139	0.0007
Mercury	54978-05-19 06:58 G	21801500.66	21801500.79	21801500.92	0.0139	0.0014
Mercury	54978-08-15 10:19 G	21801588.80	21801588.93	21801589.06	0.0139	0.0034
Mercury	54978-11-11 13:26 G	21801676.94	21801677.06	21801677.19	0.0139	0.0055
Mercury	54979-02-07 16:48 G	21801765.09	21801765.20	21801765.31	0.0139	0.0075
Mercury	54979-05-06 20:10 G	21801853.24	21801853.34	21801853.43	0.0139	0.0096
Mercury	54979-08-02 23:02 G	21801941.40	21801941.46	21801941.54	0.0139	0.0117
Mercury	54979-10-30 02:24 G	21802029.59	21802029.60	21802029.63	0.0139	0.0137
Venus	54981-10-30 12:43 G	21802760.96	21802761.03	21802761.13	0.0140	0.0129
Venus	54982-06-13 22:34 G	21802987.28	21802987.44	21802987.60	0.0140	0.0097
Venus	54983-01-26 07:55 G	21803213.65	21803213.83	21803214.04	0.0141	0.0065
Venus	54983-09-09 17:46 G	21803440.04	21803440.24	21803440.46	0.0141	0.0032
Venus	54984-04-23 03:50 G	21803666.44	21803666.66	21803666.88	0.0141	0.0002
Venus	54984-12-05 13:41 G	21803892.87	21803893.07	21803893.29	0.0141	0.0036
Venus	54985-07-20 00:00 G	21804119.31	21804119.50	21804119.69	0.0142	0.0069
Venus	54986-03-03 09:50 G	21804345.78	21804345.91	21804346.08	0.0142	0.0103
Venus	54986-10-15 20:10 G	21804572.30	21804572.34	21804572.42	0.0142	0.0137
Earth	54989-04-03 02:53 G	21805472.47	21805472.62	21805472.80	0.0143	0.0110
Moon	54989-04-03 06:29 G	21805472.63	21805472.77	21805472.97	0.0143	0.0107 *
Moon	54990-04-08 00:00 G	21805842.25	21805842.50	21805842.75	0.0143	0.0036
Earth	54990-04-08 03:22 G	21805842.40	21805842.64	21805842.90	0.0143	0.0037 *
Earth	54991-04-13 03:50 G	21806212.42	21806212.66	21806212.92	0.0143	0.0037
Moon	54991-04-13 07:26 G	21806212.57	21806212.81	21806213.07	0.0143	0.0031 *
Moon	54992-04-17 01:26 G	21806582.44	21806582.56	21806582.73	0.0144	0.0119
Earth	54992-04-17 05:17 G	21806582.57	21806582.72	21806582.89	0.0144	0.0111 *

56TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 56th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	55004-09-29 09:22	G	21811129.62	21811129.89	21811130.18	0.0144	0.0030	
Mercury	55017-04-06 15:22	G	21815702.04	21815702.14	21815702.26	0.0140	0.0113	
Mercury	55017-07-03 23:17	G	21815790.32	21815790.47	21815790.63	0.0140	0.0082	
Mercury	55017-09-30 07:12	G	21815878.63	21815878.80	21815878.98	0.0140	0.0052	
Mercury	55017-12-27 15:07	G	21815966.94	21815967.13	21815967.33	0.0140	0.0021	
Mercury	55018-03-25 23:02	G	21816055.27	21816055.46	21816055.66	0.0139	0.0010	
Mercury	55018-06-22 06:58	G	21816143.61	21816143.79	21816143.98	0.0139	0.0040	
Mercury	55018-09-18 14:53	G	21816231.96	21816232.12	21816232.29	0.0139	0.0071	
Mercury	55018-12-15 22:48	G	21816320.32	21816320.45	21816320.59	0.0139	0.0101	
Mercury	55019-03-14 06:29	G	21816408.73	21816408.77	21816408.85	0.0139	0.0132	
Venus	55022-02-17 13:26	G	21817479.95	21817480.06	21817480.21	0.0138	0.0110	
Venus	55022-10-01 21:36	G	21817706.23	21817706.40	21817706.58	0.0138	0.0079	
Venus	55023-05-16 05:17	G	21817932.52	21817932.72	21817932.93	0.0137	0.0048	
Venus	55023-12-28 13:12	G	21818158.83	21818159.05	21818159.26	0.0137	0.0017	
Venus	55024-08-10 20:38	G	21818385.14	21818385.36	21818385.58	0.0137	0.0013	
Venus	55025-03-25 03:36	G	21818611.46	21818611.65	21818611.87	0.0137	0.0044	
Venus	55025-11-06 10:48	G	21818837.78	21818837.95	21818838.14	0.0137	0.0074	
Venus	55026-06-20 17:46	G	21819064.12	21819064.24	21819064.40	0.0136	0.0104	
Venus	55027-02-02 00:43	G	21819290.50	21819290.53	21819290.60	0.0136	0.0133	
Earth	55029-10-05 10:05	G	21820266.76	21820266.92	21820267.10	0.0135	0.0101	

Moon	55029-10-05 13:41 G	21820266.93	21820267.07	21820267.24	0.0135	0.0106 *
Moon	55030-10-09 15:07 G	21820635.89	21820636.13	21820636.37	0.0135	0.0034
Earth	55030-10-09 18:29 G	21820636.03	21820636.27	21820636.51	0.0135	0.0040 *
Earth	55031-10-14 01:55 G	21821005.34	21821005.58	21821005.84	0.0135	0.0020
Moon	55031-10-14 05:46 G	21821005.49	21821005.74	21821005.99	0.0135	0.0012 *
Moon	55032-10-17 05:17 G	21821374.55	21821374.72	21821374.93	0.0135	0.0087
Earth	55032-10-17 09:07 G	21821374.69	21821374.88	21821375.10	0.0135	0.0079 *
Moon	55033-10-21 19:26 G	21821744.30	21821744.31	21821744.35	0.0134	0.0134
Mercury	55060-09-30 15:22 G	21831585.09	21831585.14	21831585.21	0.0138	0.0122
Mercury	55060-12-27 18:58 G	21831673.20	21831673.29	21831673.38	0.0138	0.0101
Mercury	55061-03-25 22:05 G	21831761.32	21831761.42	21831761.53	0.0138	0.0081
Mercury	55061-06-22 01:26 G	21831849.45	21831849.56	21831849.68	0.0138	0.0061
Mercury	55061-09-18 04:48 G	21831937.57	21831937.70	21831937.83	0.0138	0.0040
Mercury	55061-12-15 07:55 G	21832025.71	21832025.83	21832025.97	0.0139	0.0021
Mercury	55062-03-13 11:17 G	21832113.84	21832113.97	21832114.10	0.0139	0.0003
Mercury	55062-06-09 14:38 G	21832201.98	21832202.11	21832202.24	0.0139	0.0021
Mercury	55062-09-05 17:46 G	21832290.12	21832290.24	21832290.37	0.0139	0.0041
Mercury	55062-12-02 20:53 G	21832378.26	21832378.37	21832378.50	0.0139	0.0062
Mercury	55063-03-01 00:14 G	21832466.41	21832466.51	21832466.62	0.0139	0.0082
Mercury	55063-05-28 03:36 G	21832554.56	21832554.65	21832554.74	0.0139	0.0102
Mercury	55063-08-24 06:43 G	21832642.73	21832642.78	21832642.85	0.0139	0.0123
Venus	55066-02-12 06:58 G	21833545.67	21833545.79	21833545.94	0.0140	0.0110
Venus	55066-09-26 16:34 G	21833772.02	21833772.19	21833772.38	0.0140	0.0078
Venus	55067-05-11 02:24 G	21833998.39	21833998.60	21833998.80	0.0141	0.0045
Venus	55067-12-23 12:14 G	21834224.79	21834225.01	21834225.23	0.0141	0.0012
Venus	55068-08-05 22:05 G	21834451.20	21834451.42	21834451.64	0.0141	0.0021
Venus	55069-03-20 07:55 G	21834677.63	21834677.83	21834678.04	0.0141	0.0055
Venus	55069-11-01 17:46 G	21834904.09	21834904.24	21834904.43	0.0142	0.0089
Venus	55070-06-16 04:05 G	21835130.58	21835130.67	21835130.79	0.0142	0.0122
Earth	55073-04-04 13:55 G	21836153.92	21836154.08	21836154.27	0.0143	0.0104

Moon	55073-04-04 17:17 G	21836154.07	21836154.22	21836154.41	0.0143	0.0107 *
Moon	55074-04-09 10:34 G	21836523.70	21836523.94	21836524.19	0.0143	0.0032
Earth	55074-04-09 14:24 G	21836523.85	21836524.10	21836524.35	0.0143	0.0031 *
Earth	55075-04-14 14:53 G	21836893.89	21836894.12	21836894.38	0.0143	0.0043
Moon	55075-04-14 18:29 G	21836894.04	21836894.27	21836894.52	0.0143	0.0047 *
Moon	55076-04-18 12:43 G	21837263.87	21837264.03	21837264.21	0.0144	0.0108
Earth	55076-04-18 15:50 G	21837264.04	21837264.16	21837264.33	0.0144	0.0117 *
Mercury	55101-01-29 14:24 G	21846315.07	21846315.10	21846315.16	0.0140	0.0136
Mercury	55101-04-27 22:19 G	21846403.32	21846403.43	21846403.56	0.0140	0.0106
Mercury	55101-07-25 06:29 G	21846491.61	21846491.77	21846491.93	0.0140	0.0075
Mercury	55101-10-21 14:10 G	21846579.91	21846580.09	21846580.28	0.0140	0.0045
Mercury	55102-01-17 22:05 G	21846668.23	21846668.42	21846668.62	0.0140	0.0015
Mercury	55102-04-16 06:14 G	21846756.56	21846756.76	21846756.95	0.0139	0.0017
Mercury	55102-07-13 13:55 G	21846844.90	21846845.08	21846845.27	0.0139	0.0047
Mercury	55102-10-09 21:36 G	21846933.26	21846933.40	21846933.58	0.0139	0.0079
Mercury	55103-01-06 05:46 G	21847021.63	21847021.74	21847021.87	0.0139	0.0109
Mercury	55103-04-04 13:55 G	21847110.08	21847110.08	21847110.08	0.0139	0.0139
Venus	55105-10-18 21:50 G	21848038.32	21848038.41	21848038.52	0.0138	0.0123
Venus	55106-06-02 06:00 G	21848264.60	21848264.75	21848264.92	0.0138	0.0092
Venus	55107-01-14 13:41 G	21848490.89	21848491.07	21848491.28	0.0138	0.0062
Venus	55107-08-28 21:36 G	21848717.19	21848717.40	21848717.62	0.0137	0.0031
Venus	55108-04-11 05:17 G	21848943.50	21848943.72	21848943.94	0.0137	0.0001
Venus	55108-11-23 12:29 G	21849169.81	21849170.02	21849170.24	0.0137	0.0031
Venus	55109-07-07 19:41 G	21849396.14	21849396.32	21849396.53	0.0137	0.0061
Venus	55110-02-19 02:53 G	21849622.47	21849622.62	21849622.79	0.0137	0.0091
Venus	55110-10-03 09:36 G	21849848.82	21849848.90	21849849.02	0.0136	0.0120
Earth	55113-10-06 20:10 G	21850948.18	21850948.34	21850948.54	0.0135	0.0097
Moon	55113-10-06 23:31 G	21850948.31	21850948.48	21850948.68	0.0135	0.0092 *
Moon	55114-10-11 01:12 G	21851317.32	21851317.55	21851317.80	0.0135	0.0043
Earth	55114-10-11 04:34 G	21851317.46	21851317.69	21851317.95	0.0135	0.0037 *

Earth	55115-10-15 12:43 G	21851686.78	21851687.03	21851687.28	0.0135	0.0024
Moon	55115-10-15 15:50 G	21851686.92	21851687.16	21851687.41	0.0135	0.0032 *
Moon	55116-10-18 16:34 G	21852056.00	21852056.19	21852056.40	0.0135	0.0077
Earth	55116-10-18 19:55 G	21852056.15	21852056.33	21852056.54	0.0135	0.0084 *
Mars	55131-10-12 17:02 G	21857527.90	21857528.21	21857528.54	0.0134	0.0033
Mercury	55144-07-25 19:41 G	21862198.31	21862198.32	21862198.36	0.0138	0.0135
Mercury	55144-10-21 23:17 G	21862286.40	21862286.47	21862286.54	0.0138	0.0115
Mercury	55145-01-18 02:24 G	21862374.51	21862374.60	21862374.70	0.0138	0.0094
Mercury	55145-04-16 05:46 G	21862462.63	21862462.74	21862462.86	0.0138	0.0074
Mercury	55145-07-13 09:07 G	21862550.76	21862550.88	21862551.00	0.0138	0.0054
Mercury	55145-10-09 12:29 G	21862638.89	21862639.02	21862639.15	0.0138	0.0033
Mercury	55146-01-05 15:36 G	21862727.02	21862727.15	21862727.29	0.0139	0.0013
Mercury	55146-04-03 18:58 G	21862815.16	21862815.29	21862815.42	0.0139	0.0008
Mercury	55146-06-30 22:19 G	21862903.30	21862903.43	21862903.56	0.0139	0.0028
Mercury	55146-09-27 01:26 G	21862991.44	21862991.56	21862991.69	0.0139	0.0049
Mercury	55146-12-24 04:34 G	21863079.59	21863079.69	21863079.81	0.0139	0.0069
Mercury	55147-03-22 07:55 G	21863167.73	21863167.83	21863167.93	0.0139	0.0089
Mercury	55147-06-18 11:02 G	21863255.89	21863255.96	21863256.05	0.0139	0.0110
Mercury	55147-09-14 14:24 G	21863344.06	21863344.10	21863344.15	0.0139	0.0130
Venus	55149-10-13 16:05 G	21864104.08	21864104.17	21864104.29	0.0140	0.0123
Venus	55150-05-28 01:41 G	21864330.41	21864330.57	21864330.74	0.0140	0.0091
Venus	55151-01-09 11:31 G	21864556.78	21864556.98	21864557.18	0.0141	0.0058
Venus	55151-08-23 21:07 G	21864783.17	21864783.38	21864783.59	0.0141	0.0025
Venus	55152-04-06 06:58 G	21865009.57	21865009.79	21865010.00	0.0141	0.0009
Venus	55152-11-18 16:34 G	21865235.99	21865236.19	21865236.41	0.0141	0.0042
Venus	55153-07-03 02:38 G	21865462.43	21865462.61	21865462.80	0.0142	0.0075
Venus	55154-02-14 12:43 G	21865688.91	21865689.03	21865689.18	0.0142	0.0109
Venus	55154-09-28 23:17 G	21865915.47	21865915.47	21865915.47	0.0142	0.0142
Earth	55157-04-06 01:55 G	21866835.42	21866835.58	21866835.79	0.0143	0.0098
Moon	55157-04-06 05:46 G	21866835.55	21866835.74	21866835.94	0.0143	0.0093 *

Moon	55158-04-10 23:17 G	21867205.22	21867205.47	21867205.72	0.0143	0.0025
Earth	55158-04-11 02:38 G	21867205.36	21867205.61	21867205.86	0.0143	0.0025 *
Earth	55159-04-16 03:07 G	21867575.39	21867575.63	21867575.87	0.0143	0.0048
Moon	55159-04-16 06:58 G	21867575.55	21867575.79	21867576.04	0.0143	0.0043 *
Moon	55160-04-20 00:43 G	21867945.43	21867945.53	21867945.65	0.0143	0.0129
Earth	55160-04-20 04:19 G	21867945.55	21867945.68	21867945.82	0.0143	0.0122 *
Mercury	55185-02-18 21:07 G	21877016.33	21877016.38	21877016.46	0.0140	0.0130
Mercury	55185-05-18 05:02 G	21877104.59	21877104.71	21877104.85	0.0140	0.0100
Mercury	55185-08-14 13:12 G	21877192.88	21877193.05	21877193.22	0.0140	0.0069
Mercury	55185-11-10 20:53 G	21877281.19	21877281.37	21877281.56	0.0140	0.0039
Mercury	55186-02-07 04:48 G	21877369.51	21877369.70	21877369.90	0.0139	0.0009
Mercury	55186-05-06 12:58 G	21877457.84	21877458.04	21877458.23	0.0139	0.0023
Mercury	55186-08-02 20:38 G	21877546.19	21877546.36	21877546.55	0.0139	0.0053
Mercury	55186-10-30 04:34 G	21877634.54	21877634.69	21877634.85	0.0139	0.0084
Mercury	55187-01-26 12:43 G	21877722.92	21877723.03	21877723.14	0.0139	0.0114
Venus	55189-06-18 05:17 G	21878596.72	21878596.72	21878596.77	0.0138	0.0138
Venus	55190-01-30 13:41 G	21878822.94	21878823.07	21878823.22	0.0138	0.0106
Venus	55190-09-13 21:36 G	21879049.23	21879049.40	21879049.59	0.0138	0.0075
Venus	55191-04-28 05:17 G	21879275.53	21879275.72	21879275.94	0.0137	0.0045
Venus	55191-12-10 13:12 G	21879501.83	21879502.05	21879502.27	0.0137	0.0013
Venus	55192-07-23 20:38 G	21879728.15	21879728.36	21879728.58	0.0137	0.0017
Venus	55193-03-07 03:50 G	21879954.46	21879954.66	21879954.87	0.0137	0.0048
Venus	55193-10-19 10:48 G	21880180.79	21880180.95	21880181.14	0.0137	0.0078
Venus	55194-06-02 17:46 G	21880407.13	21880407.24	21880407.39	0.0136	0.0108
Earth	55197-10-07 05:31 G	21881629.56	21881629.73	21881629.93	0.0135	0.0093
Moon	55197-10-07 08:53 G	21881629.70	21881629.87	21881630.06	0.0135	0.0096 *
Moon	55198-10-11 11:17 G	21881998.74	21881998.97	21881999.22	0.0135	0.0027
Earth	55198-10-11 14:10 G	21881998.85	21881999.09	21881999.34	0.0135	0.0032 *
Earth	55199-10-15 22:05 G	21882368.18	21882368.42	21882368.67	0.0135	0.0028
Moon	55199-10-16 01:26 G	21882368.32	21882368.56	21882368.82	0.0135	0.0021 *

Moon	55200-10-19 02:24 G	21882737.44	21882737.60	21882737.79	0.0135	0.0095
Earth	55200-10-19 05:46 G	21882737.55	21882737.74	21882737.94	0.0135	0.0087 *
Jupiter	55215-05-07 13:26 G	21888050.68	21888051.06	21888051.51	0.0134	0.0074
Mercury	55228-08-15 03:22 G	21892899.60	21892899.64	21892899.69	0.0138	0.0128
Mercury	55228-11-11 06:43 G	21892987.70	21892987.78	21892987.86	0.0138	0.0108
Mercury	55229-02-07 10:05 G	21893075.82	21893075.92	21893076.02	0.0138	0.0088
Mercury	55229-05-06 13:12 G	21893163.94	21893164.05	21893164.17	0.0138	0.0068
Mercury	55229-08-02 16:34 G	21893252.07	21893252.19	21893252.32	0.0138	0.0047
Mercury	55229-10-29 19:55 G	21893340.20	21893340.33	21893340.46	0.0139	0.0027
Mercury	55230-01-25 23:17 G	21893428.34	21893428.47	21893428.60	0.0139	0.0006
Mercury	55230-04-24 02:24 G	21893516.47	21893516.60	21893516.73	0.0139	0.0015
Mercury	55230-07-21 05:46 G	21893604.61	21893604.74	21893604.87	0.0139	0.0035
Mercury	55230-10-17 09:07 G	21893692.76	21893692.88	21893693.00	0.0139	0.0055
Mercury	55231-01-13 12:14 G	21893780.90	21893781.01	21893781.12	0.0139	0.0076
Mercury	55231-04-11 15:22 G	21893869.05	21893869.14	21893869.24	0.0139	0.0096
Mercury	55231-07-08 18:43 G	21893957.21	21893957.28	21893957.35	0.0139	0.0116
Mercury	55231-10-04 22:05 G	21894045.40	21894045.42	21894045.44	0.0139	0.0137
Venus	55233-06-13 01:12 G	21894662.50	21894662.55	21894662.61	0.0140	0.0135
Venus	55234-01-25 10:34 G	21894888.80	21894888.94	21894889.09	0.0140	0.0103
Venus	55234-09-08 20:10 G	21895115.15	21895115.34	21895115.53	0.0140	0.0071
Venus	55235-04-23 05:31 G	21895341.53	21895341.73	21895341.95	0.0141	0.0038
Venus	55235-12-05 15:22 G	21895567.92	21895568.14	21895568.36	0.0141	0.0005
Venus	55236-07-19 01:12 G	21895794.34	21895794.55	21895794.77	0.0141	0.0028
Venus	55237-03-02 11:02 G	21896020.77	21896020.96	21896021.16	0.0141	0.0062
Venus	55237-10-14 20:53 G	21896247.23	21896247.37	21896247.55	0.0142	0.0096
Venus	55238-05-29 07:12 G	21896473.73	21896473.80	21896473.91	0.0142	0.0129
Earth	55241-04-06 14:10 G	21897516.91	21897517.09	21897517.30	0.0143	0.0092
Moon	55241-04-06 17:31 G	21897517.04	21897517.23	21897517.43	0.0143	0.0095 *
Moon	55242-04-11 11:17 G	21897886.72	21897886.97	21897887.22	0.0143	0.0019
Earth	55242-04-11 14:38 G	21897886.86	21897887.11	21897887.37	0.0143	0.0019 *

Earth	55243-04-16 14:53 G	21898256.90	21898257.12	21898257.38	0.0143	0.0055
Moon	55243-04-16 18:29 G	21898257.04	21898257.27	21898257.52	0.0143	0.0058 *
Moon	55244-04-20 12:29 G	21898626.90	21898627.02	21898627.18	0.0143	0.0120
Earth	55244-04-20 16:05 G	21898627.08	21898627.17	21898627.31	0.0143	0.0128 *
Mars	55256-10-12 21:50 G	21903185.13	21903185.41	21903185.70	0.0144	0.0029
Jupiter	55256-12-12 08:24 G	21903245.32	21903245.85	21903246.40	0.0144	0.0018
Mercury	55269-03-11 04:48 G	21907717.62	21907717.70	21907717.81	0.0140	0.0121
Mercury	55269-06-07 12:29 G	21907805.89	21907806.02	21907806.18	0.0140	0.0091
Mercury	55269-09-03 20:38 G	21907894.19	21907894.36	21907894.54	0.0140	0.0060
Mercury	55269-12-01 04:34 G	21907982.50	21907982.69	21907982.88	0.0140	0.0029
Mercury	55270-02-27 12:29 G	21908070.83	21908071.02	21908071.22	0.0139	0.0002
Mercury	55270-05-26 20:24 G	21908159.16	21908159.35	21908159.54	0.0139	0.0032
Mercury	55270-08-23 04:19 G	21908247.51	21908247.68	21908247.86	0.0139	0.0062
Mercury	55270-11-19 12:00 G	21908335.87	21908336.00	21908336.16	0.0139	0.0093
Mercury	55271-02-15 20:10 G	21908424.26	21908424.34	21908424.43	0.0139	0.0124
Venus	55273-09-29 22:48 G	21909381.35	21909381.45	21909381.57	0.0138	0.0118
Venus	55274-05-14 06:58 G	21909607.62	21909607.79	21909607.96	0.0138	0.0087
Venus	55274-12-26 14:24 G	21909833.92	21909834.10	21909834.31	0.0138	0.0057
Venus	55275-08-09 22:19 G	21910060.22	21910060.43	21910060.65	0.0137	0.0026
Venus	55276-03-23 05:46 G	21910286.53	21910286.74	21910286.96	0.0137	0.0006
Venus	55276-11-04 13:12 G	21910512.84	21910513.05	21910513.26	0.0137	0.0035
Venus	55277-06-18 20:10 G	21910739.16	21910739.34	21910739.55	0.0137	0.0066
Venus	55278-01-31 03:22 G	21910965.50	21910965.64	21910965.81	0.0137	0.0096
Venus	55278-09-14 10:34 G	21911191.86	21911191.94	21911192.03	0.0136	0.0125
Earth	55281-10-07 16:19 G	21912311.01	21912311.18	21912311.39	0.0135	0.0089
Moon	55281-10-07 18:58 G	21912311.11	21912311.29	21912311.51	0.0135	0.0086 *
Moon	55282-10-11 22:34 G	21912680.20	21912680.44	21912680.68	0.0135	0.0033
Earth	55282-10-12 01:26 G	21912680.31	21912680.56	21912680.81	0.0135	0.0028 *
Earth	55283-10-16 09:07 G	21913049.64	21913049.88	21913050.13	0.0135	0.0032
Moon	55283-10-16 11:46 G	21913049.75	21913049.99	21913050.24	0.0135	0.0039 *

Moon	55284-10-19 13:55 G	21913418.90	21913419.08	21913419.28	0.0135	0.0085
Earth	55284-10-19 16:34 G	21913419.03	21913419.19	21913419.40	0.0135	0.0092 *
Mars	55299-02-27 23:31 G	21918663.25	21918663.48	21918663.75	0.0134	0.0088
Mercury	55312-09-05 10:48 G	21923600.90	21923600.95	21923601.02	0.0138	0.0122
Mercury	55312-12-02 13:55 G	21923689.01	21923689.08	21923689.18	0.0138	0.0103
Mercury	55313-02-28 17:31 G	21923777.13	21923777.23	21923777.34	0.0138	0.0081
Mercury	55313-05-27 20:38 G	21923865.25	21923865.36	21923865.49	0.0138	0.0062
Mercury	55313-08-24 00:00 G	21923953.38	21923953.50	21923953.63	0.0139	0.0041
Mercury	55313-11-20 03:22 G	21924041.51	21924041.64	21924041.77	0.0139	0.0020
Mercury	55314-02-16 06:43 G	21924129.65	21924129.78	21924129.91	0.0139	0.0001
Mercury	55314-05-15 09:50 G	21924217.78	21924217.91	21924218.04	0.0139	0.0021
Mercury	55314-08-11 13:12 G	21924305.92	21924306.05	21924306.18	0.0139	0.0041
Mercury	55314-11-07 16:19 G	21924394.07	21924394.18	21924394.30	0.0139	0.0062
Mercury	55315-02-03 19:41 G	21924482.22	21924482.32	21924482.43	0.0139	0.0082
Mercury	55315-05-02 22:48 G	21924570.37	21924570.45	21924570.55	0.0139	0.0103
Mercury	55315-07-30 02:10 G	21924658.53	21924658.59	21924658.65	0.0139	0.0123
Venus	55317-09-25 18:58 G	21925447.18	21925447.29	21925447.42	0.0140	0.0116
Venus	55318-05-10 04:05 G	21925673.52	21925673.67	21925673.86	0.0140	0.0085
Venus	55318-12-22 13:55 G	21925899.89	21925900.08	21925900.29	0.0141	0.0052
Venus	55319-08-05 23:46 G	21926126.27	21926126.49	21926126.71	0.0141	0.0018
Venus	55320-03-19 09:22 G	21926352.68	21926352.89	21926353.11	0.0141	0.0015
Venus	55320-10-31 19:12 G	21926579.10	21926579.30	21926579.51	0.0141	0.0048
Venus	55321-06-15 05:17 G	21926805.55	21926805.72	21926805.90	0.0142	0.0082
Venus	55322-01-27 15:22 G	21927032.04	21927032.14	21927032.28	0.0142	0.0116
Earth	55325-04-08 01:55 G	21928198.39	21928198.58	21928198.80	0.0143	0.0087
Moon	55325-04-08 04:48 G	21928198.49	21928198.70	21928198.92	0.0143	0.0081 *
Moon	55326-04-12 23:31 G	21928568.24	21928568.48	21928568.74	0.0143	0.0015
Earth	55326-04-13 02:24 G	21928568.35	21928568.60	21928568.86	0.0143	0.0014 *
Earth	55327-04-18 02:38 G	21928938.39	21928938.61	21928938.86	0.0143	0.0060
Moon	55327-04-18 06:29 G	21928938.53	21928938.77	21928939.01	0.0143	0.0054 *

Moon	55328-04-22 00:29 G	21929308.47	21929308.52	21929308.60	0.0143	0.0139
Earth	55328-04-22 03:36 G	21929308.58	21929308.65	21929308.77	0.0143	0.0133 *
Mercury	55353-04-01 12:00 G	21938418.90	21938419.00	21938419.13	0.0140	0.0113
Mercury	55353-06-28 20:10 G	21938507.19	21938507.34	21938507.50	0.0140	0.0082
Mercury	55353-09-25 03:50 G	21938595.49	21938595.66	21938595.85	0.0140	0.0052
Mercury	55353-12-22 11:46 G	21938683.81	21938683.99	21938684.19	0.0139	0.0022
Mercury	55354-03-20 19:55 G	21938772.13	21938772.33	21938772.52	0.0139	0.0010
Mercury	55354-06-17 03:36 G	21938860.47	21938860.65	21938860.84	0.0139	0.0040
Mercury	55354-09-13 11:31 G	21938948.82	21938948.98	21938949.15	0.0139	0.0071
Mercury	55354-12-10 19:26 G	21939037.19	21939037.31	21939037.45	0.0139	0.0101
Mercury	55355-03-09 03:07 G	21939125.59	21939125.63	21939125.71	0.0139	0.0132
Venus	55357-05-31 07:12 G	21939939.75	21939939.80	21939939.88	0.0138	0.0131
Venus	55358-01-12 15:22 G	21940166.00	21940166.14	21940166.30	0.0138	0.0100
Venus	55358-08-26 23:17 G	21940392.29	21940392.47	21940392.66	0.0138	0.0069
Venus	55359-04-10 06:43 G	21940618.58	21940618.78	21940619.00	0.0138	0.0039
Venus	55359-11-22 14:24 G	21940844.89	21940845.10	21940845.32	0.0137	0.0008
Venus	55360-07-05 22:05 G	21941071.21	21941071.42	21941071.63	0.0137	0.0023
Venus	55361-02-17 05:17 G	21941297.52	21941297.72	21941297.92	0.0137	0.0053
Venus	55361-10-01 12:00 G	21941523.85	21941524.00	21941524.19	0.0137	0.0084
Venus	55362-05-15 19:26 G	21941750.19	21941750.31	21941750.43	0.0136	0.0113
Earth	55365-10-09 02:38 G	21942992.43	21942992.61	21942992.83	0.0135	0.0085
Moon	55365-10-09 05:02 G	21942992.53	21942992.71	21942992.93	0.0135	0.0087 *
Moon	55366-10-13 09:36 G	21943361.67	21943361.90	21943362.15	0.0135	0.0020
Earth	55366-10-13 11:31 G	21943361.74	21943361.98	21943362.23	0.0135	0.0024 *
Earth	55367-10-17 19:26 G	21943731.08	21943731.31	21943731.56	0.0135	0.0036
Moon	55367-10-17 22:05 G	21943731.18	21943731.42	21943731.68	0.0135	0.0029 *
Moon	55368-10-21 00:43 G	21944100.39	21944100.53	21944100.71	0.0135	0.0103
Earth	55368-10-21 03:07 G	21944100.46	21944100.63	21944100.82	0.0135	0.0095 *
Mars	55383-10-25 08:53 G	21949582.66	21949582.87	21949583.12	0.0134	0.0096
Mercury	55396-06-29 14:38 G	21954214.11	21954214.11	21954214.14	0.0138	0.0138

Mercury	55396-09-25 18:14 G	21954302.19	21954302.26	21954302.33	0.0138	0.0117
Mercury	55396-12-22 21:22 G	21954390.30	21954390.39	21954390.49	0.0138	0.0097
Mercury	55397-03-21 00:43 G	21954478.43	21954478.53	21954478.65	0.0138	0.0076
Mercury	55397-06-17 04:05 G	21954566.55	21954566.67	21954566.79	0.0138	0.0056
Mercury	55397-09-13 07:26 G	21954654.68	21954654.81	21954654.94	0.0139	0.0035
Mercury	55397-12-10 10:34 G	21954742.81	21954742.94	21954743.08	0.0139	0.0015
Mercury	55398-03-08 13:55 G	21954830.95	21954831.08	21954831.21	0.0139	0.0006
Mercury	55398-06-04 17:17 G	21954919.09	21954919.22	21954919.35	0.0139	0.0026
Mercury	55398-08-31 20:24 G	21955007.23	21955007.35	21955007.48	0.0139	0.0046
Mercury	55398-11-27 23:31 G	21955095.37	21955095.48	21955095.60	0.0139	0.0067
Mercury	55399-02-24 02:53 G	21955183.52	21955183.62	21955183.72	0.0139	0.0087
Mercury	55399-05-23 06:14 G	21955271.68	21955271.76	21955271.84	0.0139	0.0108
Mercury	55399-08-19 09:07 G	21955359.85	21955359.88	21955359.94	0.0139	0.0129
Venus	55401-05-27 02:24 G	21956005.54	21956005.60	21956005.70	0.0140	0.0130
Venus	55402-01-08 12:14 G	21956231.86	21956232.01	21956232.17	0.0140	0.0098
Venus	55402-08-22 21:22 G	21956458.21	21956458.39	21956458.60	0.0141	0.0066
Venus	55403-04-06 06:58 G	21956684.59	21956684.79	21956685.01	0.0141	0.0033
Venus	55403-11-18 16:48 G	21956910.99	21956911.20	21956911.42	0.0141	0.0002
Venus	55404-07-02 02:38 G	21957137.40	21957137.61	21957137.83	0.0141	0.0034
Venus	55405-02-13 12:43 G	21957363.84	21957364.03	21957364.22	0.0141	0.0068
Venus	55405-09-27 22:34 G	21957590.31	21957590.44	21957590.61	0.0142	0.0102
Venus	55406-05-12 09:07 G	21957816.82	21957816.88	21957816.95	0.0142	0.0135
Earth	55409-04-09 11:46 G	21958879.80	21958879.99	21958880.22	0.0143	0.0083
Moon	55409-04-09 14:10 G	21958879.88	21958880.09	21958880.30	0.0143	0.0087 *
Moon	55410-04-14 09:36 G	21959249.65	21959249.90	21959250.15	0.0143	0.0009
Earth	55410-04-14 12:14 G	21959249.75	21959250.01	21959250.27	0.0143	0.0010 *
Earth	55411-04-19 12:29 G	21959619.80	21959620.02	21959620.26	0.0143	0.0063
Moon	55411-04-19 15:22 G	21959619.92	21959620.14	21959620.38	0.0143	0.0065 *
Moon	55412-04-23 10:05 G	21959989.83	21959989.92	21959990.05	0.0144	0.0129
Earth	55412-04-23 13:26 G	21959990.00	21959990.06	21959990.16	0.0144	0.0136 *

Mars	55424-03-03 09:22 G	21964321.71	21964321.89	21964322.09	0.0144	0.0107
Mercury	55437-01-24 11:46 G	21969031.95	21969031.99	21969032.05	0.0140	0.0134
Mercury	55437-04-22 19:41 G	21969120.20	21969120.32	21969120.45	0.0140	0.0104
Mercury	55437-07-20 03:22 G	21969208.49	21969208.64	21969208.81	0.0140	0.0074
Mercury	55437-10-16 11:31 G	21969296.79	21969296.98	21969297.16	0.0140	0.0043
Mercury	55438-01-12 19:26 G	21969385.11	21969385.31	21969385.50	0.0139	0.0013
Mercury	55438-04-11 03:07 G	21969473.44	21969473.63	21969473.83	0.0139	0.0018
Mercury	55438-07-08 11:02 G	21969561.78	21969561.96	21969562.15	0.0139	0.0049
Mercury	55438-10-04 18:58 G	21969650.14	21969650.29	21969650.45	0.0139	0.0079
Mercury	55439-01-01 02:38 G	21969738.51	21969738.61	21969738.74	0.0139	0.0110
Venus	55441-09-13 00:14 G	21970724.40	21970724.51	21970724.64	0.0138	0.0113
Venus	55442-04-27 08:10 G	21970950.67	21970950.84	21970951.02	0.0138	0.0082
Venus	55442-12-09 16:05 G	21971176.97	21971177.17	21971177.37	0.0138	0.0051
Venus	55443-07-23 23:46 G	21971403.28	21971403.49	21971403.71	0.0137	0.0020
Venus	55444-03-06 07:12 G	21971629.59	21971629.80	21971630.02	0.0137	0.0011
Venus	55444-10-18 14:24 G	21971855.90	21971856.10	21971856.32	0.0137	0.0041
Venus	55445-06-01 21:50 G	21972082.23	21972082.41	21972082.60	0.0137	0.0071
Venus	55446-01-14 04:34 G	21972308.56	21972308.69	21972308.85	0.0137	0.0102
Venus	55446-08-28 11:46 G	21972534.94	21972534.99	21972535.06	0.0136	0.0131
Earth	55449-10-10 14:24 G	21973673.90	21973674.10	21973674.30	0.0135	0.0080
Moon	55449-10-10 15:36 G	21973673.95	21973674.15	21973674.37	0.0135	0.0079 *
Moon	55450-10-14 21:07 G	21974043.14	21974043.38	21974043.62	0.0135	0.0025
Earth	55450-10-14 23:02 G	21974043.21	21974043.46	21974043.71	0.0135	0.0020 *
Earth	55451-10-19 06:43 G	21974412.55	21974412.78	21974413.03	0.0135	0.0040
Moon	55451-10-19 08:10 G	21974412.61	21974412.84	21974413.10	0.0135	0.0046 *
Moon	55452-10-22 12:29 G	21974781.85	21974782.02	21974782.20	0.0135	0.0092
Earth	55452-10-22 14:10 G	21974781.94	21974782.09	21974782.28	0.0135	0.0099 *
Mercury	55480-07-20 22:05 G	21984915.39	21984915.42	21984915.46	0.0138	0.0132
Mercury	55480-10-17 01:26 G	21985003.49	21985003.56	21985003.64	0.0138	0.0111
Mercury	55481-01-13 04:34 G	21985091.60	21985091.69	21985091.80	0.0138	0.0091

Mercury	55481-04-11 07:55 G	21985179.72	21985179.83	21985179.95	0.0138	0.0071
Mercury	55481-07-08 11:17 G	21985267.85	21985267.97	21985268.10	0.0138	0.0050
Mercury	55481-10-04 14:38 G	21985355.98	21985356.11	21985356.24	0.0139	0.0030
Mercury	55481-12-31 17:46 G	21985444.11	21985444.24	21985444.38	0.0139	0.0011
Mercury	55482-03-29 21:07 G	21985532.25	21985532.38	21985532.51	0.0139	0.0011
Mercury	55482-06-26 00:14 G	21985620.39	21985620.51	21985620.65	0.0139	0.0032
Mercury	55482-09-22 03:36 G	21985708.53	21985708.65	21985708.77	0.0139	0.0052
Mercury	55482-12-19 06:43 G	21985796.68	21985796.78	21985796.90	0.0139	0.0072
Mercury	55483-03-17 10:05 G	21985884.83	21985884.92	21985885.02	0.0139	0.0092
Mercury	55483-06-13 13:26 G	21985972.98	21985973.06	21985973.13	0.0139	0.0113
Mercury	55483-09-09 16:19 G	21986061.16	21986061.18	21986061.23	0.0139	0.0134
Venus	55485-09-07 19:26 G	21986790.20	21986790.31	21986790.46	0.0140	0.0112
Venus	55486-04-22 04:48 G	21987016.53	21987016.70	21987016.89	0.0140	0.0080
Venus	55486-12-04 14:24 G	21987242.90	21987243.10	21987243.31	0.0141	0.0047
Venus	55487-07-19 00:14 G	21987469.29	21987469.51	21987469.73	0.0141	0.0014
Venus	55488-03-01 09:50 G	21987695.70	21987695.91	21987696.13	0.0141	0.0020
Venus	55488-10-13 19:41 G	21987922.13	21987922.32	21987922.53	0.0141	0.0053
Venus	55489-05-28 06:00 G	21988148.58	21988148.75	21988148.92	0.0141	0.0087
Venus	55490-01-09 16:05 G	21988375.07	21988375.17	21988375.29	0.0142	0.0121
Earth	55493-04-09 21:22 G	21989561.19	21989561.39	21989561.61	0.0143	0.0079
Moon	55493-04-09 22:34 G	21989561.23	21989561.44	21989561.69	0.0143	0.0073 *
Moon	55494-04-14 19:41 G	21989931.08	21989931.32	21989931.57	0.0143	0.0010
Earth	55494-04-14 21:36 G	21989931.14	21989931.40	21989931.65	0.0143	0.0007 *
Earth	55495-04-19 21:50 G	21990301.19	21990301.41	21990301.64	0.0143	0.0066
Moon	55495-04-20 00:29 G	21990301.30	21990301.52	21990301.77	0.0143	0.0063 *
Earth	55496-04-23 22:19 G	21990671.39	21990671.43	21990671.52	0.0143	0.0139
Mars	55508-10-28 04:48 G	21995240.47	21995240.70	21995240.95	0.0144	0.0080
Mercury	55521-02-14 18:14 G	21999733.20	21999733.26	21999733.34	0.0140	0.0129
Mercury	55521-05-14 02:24 G	21999821.46	21999821.60	21999821.73	0.0140	0.0098
Mercury	55521-08-10 10:05 G	21999909.76	21999909.92	21999910.09	0.0140	0.0068

Mercury	55521-11-06 17:46 G	21999998.06	21999998.24	21999998.44	0.0140	0.0038
Mercury	55522-02-03 01:55 G	22000086.38	22000086.58	22000086.77	0.0139	0.0007
Mercury	55522-05-02 09:50 G	22000174.71	22000174.91	22000175.10	0.0139	0.0024
Mercury	55522-07-29 17:31 G	22000263.06	22000263.23	22000263.41	0.0139	0.0054
Mercury	55522-10-26 01:12 G	22000351.41	22000351.55	22000351.72	0.0139	0.0085
Mercury	55523-01-22 09:22 G	22000439.79	22000439.89	22000440.00	0.0139	0.0115
Venus	55525-05-14 07:26 G	22001282.74	22001282.81	22001282.90	0.0138	0.0128
Venus	55525-12-26 15:36 G	22001509.00	22001509.15	22001509.31	0.0138	0.0096
Venus	55526-08-09 23:31 G	22001735.29	22001735.48	22001735.67	0.0138	0.0065
Venus	55527-03-24 07:12 G	22001961.59	22001961.80	22001962.01	0.0138	0.0034
Venus	55527-11-05 14:53 G	22002187.90	22002188.12	22002188.34	0.0137	0.0004
Venus	55528-06-18 22:19 G	22002414.22	22002414.43	22002414.65	0.0137	0.0027
Venus	55529-01-31 05:31 G	22002640.54	22002640.73	22002640.94	0.0137	0.0058
Venus	55529-09-14 12:43 G	22002866.88	22002867.03	22002867.21	0.0137	0.0088
Venus	55530-04-28 19:55 G	22003093.23	22003093.33	22003093.44	0.0137	0.0118
Earth	55533-10-11 23:31 G	22004355.29	22004355.48	22004355.70	0.0135	0.0077
Moon	55533-10-12 00:58 G	22004355.33	22004355.54	22004355.75	0.0135	0.0077 *
Moon	55534-10-16 07:41 G	22004724.58	22004724.82	22004725.07	0.0135	0.0014
Earth	55534-10-16 08:24 G	22004724.60	22004724.85	22004725.10	0.0135	0.0017 *
Earth	55535-10-20 16:19 G	22005093.95	22005094.18	22005094.43	0.0135	0.0043
Moon	55535-10-20 17:46 G	22005094.00	22005094.24	22005094.50	0.0135	0.0037 *
Moon	55536-10-23 22:48 G	22005463.32	22005463.45	22005463.60	0.0135	0.0109
Earth	55536-10-23 23:31 G	22005463.34	22005463.48	22005463.67	0.0135	0.0102 *
Mars	55551-03-14 11:02 G	22010717.65	22010717.96	22010718.29	0.0134	0.0031
Mercury	55564-08-11 05:17 G	22015616.67	22015616.72	22015616.77	0.0138	0.0126
Mercury	55564-11-07 08:24 G	22015704.78	22015704.85	22015704.94	0.0138	0.0107
Mercury	55565-02-03 11:46 G	22015792.90	22015792.99	22015793.10	0.0138	0.0086
Mercury	55565-05-02 15:07 G	22015881.02	22015881.13	22015881.25	0.0138	0.0066
Mercury	55565-07-29 18:29 G	22015969.15	22015969.27	22015969.40	0.0138	0.0045
Mercury	55565-10-25 21:50 G	22016057.28	22016057.41	22016057.54	0.0139	0.0025

Mercury	55566-01-22 00:58 G	22016145.41	22016145.54	22016145.68	0.0139	0.0006
Mercury	55566-04-20 04:19 G	22016233.55	22016233.68	22016233.81	0.0139	0.0016
Mercury	55566-07-17 07:26 G	22016321.69	22016321.81	22016321.94	0.0139	0.0037
Mercury	55566-10-13 10:48 G	22016409.83	22016409.95	22016410.07	0.0139	0.0057
Mercury	55567-01-09 13:55 G	22016497.98	22016498.08	22016498.20	0.0139	0.0077
Mercury	55567-04-07 17:17 G	22016586.13	22016586.22	22016586.31	0.0139	0.0097
Mercury	55567-07-04 20:24 G	22016674.29	22016674.35	22016674.43	0.0139	0.0118
Mercury	55567-09-30 23:46 G	22016762.48	22016762.49	22016762.51	0.0139	0.0138
Venus	55569-05-09 02:53 G	22017348.54	22017348.62	22017348.73	0.0140	0.0126
Venus	55569-12-21 12:14 G	22017574.86	22017575.01	22017575.19	0.0140	0.0094
Venus	55570-08-04 21:50 G	22017801.22	22017801.41	22017801.61	0.0140	0.0061
Venus	55571-03-19 07:12 G	22018027.59	22018027.80	22018028.02	0.0141	0.0029
Venus	55571-10-31 17:02 G	22018253.99	22018254.21	22018254.43	0.0141	0.0005
Venus	55572-06-14 02:53 G	22018480.41	22018480.62	22018480.83	0.0141	0.0038
Venus	55573-01-26 12:43 G	22018706.86	22018707.03	22018707.23	0.0141	0.0072
Venus	55573-09-09 23:02 G	22018933.32	22018933.46	22018933.61	0.0141	0.0106
Venus	55574-04-24 08:53 G	22019159.86	22019159.87	22019159.93	0.0142	0.0140
Moon	55576-04-06 06:58 G	22019872.76	22019872.79	22019872.87	0.0142	0.0139
Earth	55577-04-11 06:14 G	22020242.56	22020242.76	22020242.99	0.0143	0.0075
Moon	55577-04-11 06:43 G	22020242.58	22020242.78	22020243.02	0.0143	0.0081 *
Moon	55578-04-16 04:48 G	22020612.45	22020612.70	22020612.95	0.0143	0.0001
Earth	55578-04-16 06:14 G	22020612.50	22020612.76	22020613.02	0.0143	0.0003 *
Earth	55579-04-21 06:14 G	22020982.55	22020982.76	22020983.00	0.0143	0.0069
Moon	55579-04-21 07:55 G	22020982.61	22020982.83	22020983.07	0.0143	0.0070 *
Moon	55580-04-25 04:19 G	22021352.62	22021352.68	22021352.77	0.0143	0.0136
Earth	55580-04-25 06:58 G	22021352.77	22021352.79	22021352.85	0.0143	0.0142 *
Mercury	55605-03-07 00:43 G	22030434.45	22030434.53	22030434.63	0.0140	0.0123
Mercury	55605-06-03 08:38 G	22030522.72	22030522.86	22030523.01	0.0140	0.0093
Mercury	55605-08-30 16:19 G	22030611.02	22030611.18	22030611.36	0.0140	0.0063
Mercury	55605-11-27 00:29 G	22030699.33	22030699.52	22030699.71	0.0140	0.0032

Mercury	55606-02-23 08:24 G	22030787.65	22030787.85	22030788.04	0.0139	0.0003
Mercury	55606-05-22 16:05 G	22030875.99	22030876.17	22030876.36	0.0139	0.0029
Mercury	55606-08-19 00:00 G	22030964.33	22030964.50	22030964.68	0.0139	0.0059
Mercury	55606-11-15 07:41 G	22031052.69	22031052.82	22031052.98	0.0139	0.0090
Mercury	55607-02-11 15:50 G	22031141.07	22031141.16	22031141.26	0.0139	0.0120
Venus	55609-08-25 22:34 G	22032067.33	22032067.44	22032067.58	0.0138	0.0111
Venus	55610-04-09 06:29 G	22032293.61	22032293.77	22032293.96	0.0138	0.0080
Venus	55610-11-21 14:24 G	22032519.91	22032520.10	22032520.31	0.0138	0.0049
Venus	55611-07-05 22:34 G	22032746.22	22032746.44	22032746.65	0.0138	0.0018
Venus	55612-02-17 06:00 G	22032972.54	22032972.75	22032972.97	0.0137	0.0013
Venus	55612-09-30 13:12 G	22033198.86	22033199.05	22033199.27	0.0137	0.0044
Venus	55613-05-14 20:38 G	22033425.19	22033425.36	22033425.55	0.0137	0.0074
Venus	55613-12-27 04:05 G	22033651.53	22033651.67	22033651.81	0.0137	0.0104
Venus	55614-08-10 11:17 G	22033877.93	22033877.97	22033878.01	0.0136	0.0134
Moon	55616-10-07 23:46 G	22034667.42	22034667.49	22034667.57	0.0136	0.0129
Earth	55616-10-07 23:31 G	22034667.45	22034667.48	22034667.55	0.0136	0.0133 *
Moon	55617-10-12 08:38 G	22035036.66	22035036.86	22035037.10	0.0136	0.0074
Earth	55617-10-12 08:53 G	22035036.67	22035036.87	22035037.09	0.0136	0.0073 *
Moon	55618-10-16 17:02 G	22035405.97	22035406.21	22035406.46	0.0135	0.0016
Earth	55618-10-16 17:46 G	22035405.99	22035406.24	22035406.49	0.0135	0.0013 *
Moon	55619-10-21 01:55 G	22035775.34	22035775.58	22035775.82	0.0135	0.0051
Earth	55619-10-21 01:26 G	22035775.34	22035775.56	22035775.81	0.0135	0.0047 *
Moon	55620-10-24 08:24 G	22036144.70	22036144.85	22036145.03	0.0135	0.0099
Earth	55620-10-24 09:22 G	22036144.74	22036144.89	22036145.05	0.0135	0.0105 *
Mercury	55648-08-31 12:29 G	22046317.96	22046318.02	22046318.08	0.0138	0.0121
Mercury	55648-11-27 15:36 G	22046406.07	22046406.15	22046406.25	0.0138	0.0101
Mercury	55649-02-23 19:12 G	22046494.19	22046494.30	22046494.41	0.0138	0.0080
Mercury	55649-05-22 22:19 G	22046582.32	22046582.43	22046582.55	0.0138	0.0060
Mercury	55649-08-19 01:41 G	22046670.45	22046670.57	22046670.70	0.0138	0.0040
Mercury	55649-11-15 05:02 G	22046758.58	22046758.71	22046758.84	0.0139	0.0020

Mercury	55650-02-11 08:10 G	22046846.71	22046846.84	22046846.98	0.0139	0.0005
Mercury	55650-05-10 11:31 G	22046934.85	22046934.98	22046935.11	0.0139	0.0021
Mercury	55650-08-06 14:38 G	22047022.99	22047023.11	22047023.24	0.0139	0.0042
Mercury	55650-11-02 18:00 G	22047111.14	22047111.25	22047111.37	0.0139	0.0062
Mercury	55651-01-29 21:22 G	22047199.28	22047199.39	22047199.49	0.0139	0.0082
Mercury	55651-04-28 00:29 G	22047287.44	22047287.52	22047287.61	0.0139	0.0103
Mercury	55651-07-25 03:36 G	22047375.60	22047375.65	22047375.72	0.0139	0.0123
Venus	55653-08-20 20:10 G	22048133.22	22048133.34	22048133.49	0.0140	0.0108
Venus	55654-04-04 05:46 G	22048359.55	22048359.74	22048359.92	0.0140	0.0076
Venus	55654-11-16 15:07 G	22048585.92	22048586.13	22048586.34	0.0140	0.0043
Venus	55655-07-01 00:43 G	22048812.32	22048812.53	22048812.75	0.0141	0.0010
Venus	55656-02-12 10:34 G	22049038.73	22049038.94	22049039.16	0.0141	0.0024
Venus	55656-09-25 20:24 G	22049265.16	22049265.35	22049265.56	0.0141	0.0057
Venus	55657-05-10 06:14 G	22049491.61	22049491.76	22049491.94	0.0141	0.0091
Venus	55657-12-22 16:34 G	22049718.10	22049718.19	22049718.30	0.0141	0.0125
Earth	55660-04-06 17:02 G	22050554.19	22050554.21	22050554.28	0.0142	0.0140
Moon	55661-04-11 16:19 G	22050923.95	22050924.18	22050924.43	0.0143	0.0063
Earth	55661-04-11 16:19 G	22050923.97	22050924.18	22050924.41	0.0143	0.0070 *
Moon	55662-04-16 15:50 G	22051293.91	22051294.16	22051294.41	0.0143	0.0002
Earth	55662-04-16 16:19 G	22051293.92	22051294.18	22051294.43	0.0143	0.0002 *
Earth	55663-04-21 16:19 G	22051663.96	22051664.18	22051664.40	0.0143	0.0074
Moon	55663-04-21 17:46 G	22051664.02	22051664.24	22051664.48	0.0143	0.0072 *
Mars	55676-03-16 08:10 G	22056376.60	22056376.84	22056377.11	0.0144	0.0068
Mercury	55689-03-27 06:58 G	22061135.70	22061135.79	22061135.90	0.0140	0.0119
Mercury	55689-06-23 14:38 G	22061223.98	22061224.11	22061224.27	0.0140	0.0089
Mercury	55689-09-19 22:48 G	22061312.28	22061312.45	22061312.63	0.0140	0.0058
Mercury	55689-12-17 06:43 G	22061400.59	22061400.78	22061400.97	0.0140	0.0028
Mercury	55690-03-15 14:24 G	22061488.91	22061489.10	22061489.30	0.0139	0.0004
Mercury	55690-06-11 22:19 G	22061577.24	22061577.43	22061577.62	0.0139	0.0033
Mercury	55690-09-08 06:14 G	22061665.59	22061665.76	22061665.93	0.0139	0.0064

Mercury	55690-12-05 13:55 G	22061753.95	22061754.08	22061754.23	0.0139	0.0094
Mercury	55691-03-03 21:50 G	22061842.33	22061842.41	22061842.50	0.0139	0.0125
Venus	55693-04-25 05:02 G	22062625.64	22062625.71	22062625.81	0.0138	0.0126
Venus	55693-12-07 13:12 G	22062851.91	22062852.05	22062852.22	0.0138	0.0095
Venus	55694-07-21 21:22 G	22063078.20	22063078.39	22063078.59	0.0138	0.0064
Venus	55695-03-05 05:02 G	22063304.51	22063304.71	22063304.93	0.0138	0.0033
Venus	55695-10-17 12:58 G	22063530.82	22063531.04	22063531.26	0.0137	0.0002
Venus	55696-05-30 20:24 G	22063757.14	22063757.35	22063757.57	0.0137	0.0030
Venus	55697-01-12 03:50 G	22063983.47	22063983.66	22063983.86	0.0137	0.0060
Venus	55697-08-26 11:17 G	22064209.81	22064209.97	22064210.14	0.0137	0.0090
Venus	55698-04-09 18:00 G	22064436.17	22064436.25	22064436.37	0.0137	0.0121
Earth	55700-10-09 07:12 G	22065348.75	22065348.80	22065348.89	0.0136	0.0130
Moon	55700-10-09 08:24 G	22065348.82	22065348.85	22065348.89	0.0136	0.0134 *
Moon	55701-10-13 16:05 G	22065717.96	22065718.17	22065718.41	0.0136	0.0069
Earth	55701-10-13 16:48 G	22065717.99	22065718.20	22065718.42	0.0136	0.0070 *
Earth	55702-10-18 01:26 G	22066087.31	22066087.56	22066087.81	0.0135	0.0010
Moon	55702-10-18 02:10 G	22066087.35	22066087.59	22066087.83	0.0135	0.0009 *
Moon	55703-10-22 09:36 G	22066456.65	22066456.90	22066457.15	0.0135	0.0044
Earth	55703-10-22 09:36 G	22066456.67	22066456.90	22066457.13	0.0135	0.0049 *
Earth	55704-10-25 16:48 G	22066826.07	22066826.20	22066826.37	0.0135	0.0108
Moon	55704-10-25 17:02 G	22066826.11	22066826.21	22066826.36	0.0135	0.0115 *
Mercury	55732-06-25 16:19 G	22076931.17	22076931.18	22076931.20	0.0138	0.0136
Mercury	55732-09-21 19:41 G	22077019.25	22077019.32	22077019.39	0.0138	0.0116
Mercury	55732-12-18 23:02 G	22077107.37	22077107.46	22077107.56	0.0138	0.0096
Mercury	55733-03-17 02:10 G	22077195.49	22077195.59	22077195.71	0.0138	0.0076
Mercury	55733-06-13 05:31 G	22077283.61	22077283.73	22077283.86	0.0138	0.0055
Mercury	55733-09-09 08:53 G	22077371.74	22077371.87	22077372.00	0.0139	0.0035
Mercury	55733-12-06 12:14 G	22077459.88	22077460.01	22077460.14	0.0139	0.0014
Mercury	55734-03-04 15:36 G	22077548.01	22077548.15	22077548.28	0.0139	0.0007
Mercury	55734-05-31 18:43 G	22077636.15	22077636.28	22077636.41	0.0139	0.0026

Mercury	55734-08-27 22:05 G	22077724.30	22077724.42	22077724.54	0.0139	0.0047
Mercury	55734-11-24 01:12 G	22077812.44	22077812.55	22077812.67	0.0139	0.0067
Mercury	55735-02-20 04:34 G	22077900.59	22077900.69	22077900.79	0.0139	0.0087
Mercury	55735-05-19 07:41 G	22077988.74	22077988.82	22077988.91	0.0139	0.0108
Mercury	55735-08-15 10:48 G	22078076.91	22078076.95	22078077.01	0.0139	0.0129
Venus	55737-04-21 04:05 G	22078691.58	22078691.67	22078691.79	0.0140	0.0122
Venus	55737-12-03 13:41 G	22078917.91	22078918.07	22078918.24	0.0140	0.0089
Venus	55738-07-17 23:02 G	22079144.27	22079144.46	22079144.66	0.0140	0.0057
Venus	55739-03-01 08:38 G	22079370.65	22079370.86	22079371.08	0.0140	0.0024
Venus	55739-10-13 18:29 G	22079597.05	22079597.27	22079597.48	0.0141	0.0010
Venus	55740-05-27 04:19 G	22079823.47	22079823.68	22079823.88	0.0141	0.0043
Venus	55741-01-08 14:10 G	22080049.92	22080050.09	22080050.28	0.0141	0.0077
Venus	55741-08-23 00:14 G	22080276.39	22080276.51	22080276.66	0.0141	0.0111
Earth	55744-04-08 03:22 G	22081235.58	22081235.64	22081235.74	0.0142	0.0136
Moon	55744-04-08 04:48 G	22081235.62	22081235.70	22081235.83	0.0142	0.0129 *
Moon	55745-04-13 01:41 G	22081605.36	22081605.57	22081605.82	0.0143	0.0072
Earth	55745-04-13 02:53 G	22081605.39	22081605.62	22081605.85	0.0143	0.0065 *
Moon	55746-04-18 02:24 G	22081975.35	22081975.60	22081975.85	0.0143	0.0011
Earth	55746-04-18 02:24 G	22081975.35	22081975.60	22081975.86	0.0143	0.0007 *
Earth	55747-04-23 02:24 G	22082345.39	22082345.60	22082345.82	0.0143	0.0078
Moon	55747-04-23 02:38 G	22082345.39	22082345.61	22082345.84	0.0143	0.0077 *
Mars	55760-11-10 06:58 G	22087295.64	22087295.79	22087295.94	0.0144	0.0122
Mercury	55773-04-17 13:41 G	22091836.97	22091837.07	22091837.19	0.0140	0.0113
Mercury	55773-07-14 21:22 G	22091925.25	22091925.39	22091925.56	0.0140	0.0083
Mercury	55773-10-11 05:31 G	22092013.55	22092013.73	22092013.91	0.0140	0.0052
Mercury	55774-01-07 13:12 G	22092101.86	22092102.05	22092102.24	0.0140	0.0022
Mercury	55774-04-05 21:07 G	22092190.19	22092190.38	22092190.57	0.0139	0.0009
Mercury	55774-07-03 04:48 G	22092278.52	22092278.70	22092278.89	0.0139	0.0039
Mercury	55774-09-29 12:43 G	22092366.87	22092367.03	22092367.20	0.0139	0.0069
Mercury	55774-12-26 20:24 G	22092455.23	22092455.35	22092455.50	0.0139	0.0100

Mercury	55775-03-25 04:19 G	22092543.63	22092543.68	22092543.76	0.0139	0.0130
Venus	55777-08-07 20:38 G	22093410.25	22093410.36	22093410.51	0.0138	0.0109
Venus	55778-03-22 04:48 G	22093636.53	22093636.70	22093636.89	0.0138	0.0078
Venus	55778-11-03 12:43 G	22093862.83	22093863.03	22093863.24	0.0138	0.0047
Venus	55779-06-17 20:38 G	22094089.15	22094089.36	22094089.58	0.0138	0.0016
Venus	55780-01-30 04:19 G	22094315.47	22094315.68	22094315.90	0.0137	0.0016
Venus	55780-09-12 12:00 G	22094541.79	22094542.00	22094542.20	0.0137	0.0047
Venus	55781-04-26 19:12 G	22094768.13	22094768.30	22094768.48	0.0137	0.0077
Venus	55781-12-09 02:38 G	22094994.48	22094994.61	22094994.74	0.0137	0.0107
Earth	55784-10-09 16:34 G	22096030.11	22096030.19	22096030.29	0.0136	0.0126
Moon	55784-10-09 17:31 G	22096030.15	22096030.23	22096030.36	0.0136	0.0122 *
Moon	55785-10-14 00:14 G	22096399.29	22096399.51	22096399.73	0.0136	0.0069
Earth	55785-10-14 01:26 G	22096399.36	22096399.56	22096399.80	0.0136	0.0067 *
Earth	55786-10-18 10:19 G	22096768.68	22096768.93	22096769.18	0.0135	0.0007
Moon	55786-10-18 11:17 G	22096768.72	22096768.97	22096769.21	0.0135	0.0008 *
Moon	55787-10-22 16:48 G	22097137.97	22097138.20	22097138.45	0.0135	0.0056
Earth	55787-10-22 18:14 G	22097138.04	22097138.26	22097138.50	0.0135	0.0053 *
Earth	55788-10-26 01:41 G	22097507.45	22097507.57	22097507.73	0.0135	0.0111
Moon	55788-10-26 02:24 G	22097507.47	22097507.60	22097507.77	0.0135	0.0106 *
Mars	55803-03-27 16:34 G	22102771.87	22102772.19	22102772.52	0.0135	0.0021
Mercury	55816-07-16 23:31 G	22107632.45	22107632.48	22107632.52	0.0138	0.0132
Mercury	55816-10-13 02:53 G	22107720.55	22107720.62	22107720.70	0.0138	0.0111
Mercury	55817-01-09 06:14 G	22107808.66	22107808.76	22107808.86	0.0138	0.0091
Mercury	55817-04-07 09:36 G	22107896.79	22107896.90	22107897.01	0.0138	0.0070
Mercury	55817-07-04 12:43 G	22107984.91	22107985.03	22107985.16	0.0139	0.0050
Mercury	55817-09-30 16:05 G	22108073.04	22108073.17	22108073.30	0.0139	0.0030
Mercury	55817-12-27 19:26 G	22108161.18	22108161.31	22108161.44	0.0139	0.0009
Mercury	55818-03-25 22:48 G	22108249.31	22108249.45	22108249.58	0.0139	0.0012
Mercury	55818-06-22 01:55 G	22108337.45	22108337.58	22108337.71	0.0139	0.0032
Mercury	55818-09-18 05:17 G	22108425.60	22108425.72	22108425.84	0.0139	0.0052

Mercury	55818-12-15 08:24 G	22108513.74	22108513.85	22108513.97	0.0139	0.0073
Mercury	55819-03-13 11:31 G	22108601.89	22108601.98	22108602.09	0.0139	0.0093
Mercury	55819-06-09 14:53 G	22108690.05	22108690.12	22108690.20	0.0139	0.0113
Mercury	55819-09-05 18:14 G	22108778.23	22108778.26	22108778.30	0.0139	0.0133
Venus	55820-12-20 12:14 G	22109249.97	22109250.01	22109250.08	0.0140	0.0135
Venus	55821-08-03 21:22 G	22109476.26	22109476.39	22109476.55	0.0140	0.0103
Venus	55822-03-18 06:58 G	22109702.61	22109702.79	22109702.98	0.0140	0.0070
Venus	55822-10-30 16:34 G	22109928.98	22109929.19	22109929.40	0.0140	0.0037
Venus	55823-06-14 02:10 G	22110155.38	22110155.59	22110155.81	0.0141	0.0005
Venus	55824-01-26 12:14 G	22110381.79	22110382.01	22110382.22	0.0141	0.0029
Venus	55824-09-08 21:50 G	22110608.23	22110608.41	22110608.62	0.0141	0.0063
Venus	55825-04-23 07:55 G	22110834.68	22110834.83	22110835.00	0.0141	0.0097
Venus	55825-12-05 18:00 G	22111061.18	22111061.25	22111061.34	0.0142	0.0131
Earth	55828-04-09 14:10 G	22111917.00	22111917.09	22111917.21	0.0142	0.0130
Moon	55828-04-09 15:50 G	22111917.12	22111917.16	22111917.25	0.0142	0.0138 *
Moon	55829-04-14 11:46 G	22112286.76	22112286.99	22112287.25	0.0143	0.0053
Earth	55829-04-14 13:12 G	22112286.83	22112287.05	22112287.29	0.0143	0.0061 *
Earth	55830-04-19 12:58 G	22112656.79	22112657.04	22112657.30	0.0143	0.0011
Moon	55830-04-19 13:55 G	22112656.84	22112657.08	22112657.33	0.0143	0.0006 *
Moon	55831-04-24 12:58 G	22113026.84	22113027.04	22113027.27	0.0143	0.0083
Earth	55831-04-24 12:43 G	22113026.84	22113027.03	22113027.26	0.0143	0.0083 *
Mercury	55857-02-09 12:58 G	22122450.01	22122450.04	22122450.09	0.0140	0.0136
Mercury	55857-05-08 20:38 G	22122538.25	22122538.36	22122538.49	0.0140	0.0106
Mercury	55857-08-05 04:34 G	22122626.53	22122626.69	22122626.85	0.0140	0.0076
Mercury	55857-11-01 12:14 G	22122714.83	22122715.01	22122715.20	0.0140	0.0046
Mercury	55858-01-28 20:10 G	22122803.15	22122803.34	22122803.53	0.0139	0.0015
Mercury	55858-04-27 03:50 G	22122891.47	22122891.66	22122891.86	0.0139	0.0016
Mercury	55858-07-24 11:46 G	22122979.81	22122979.99	22122980.18	0.0139	0.0045
Mercury	55858-10-20 19:26 G	22123068.16	22123068.31	22123068.48	0.0139	0.0076
Mercury	55859-01-17 03:22 G	22123156.52	22123156.64	22123156.77	0.0139	0.0106

Mercury	55859-04-15 11:17 G	22123244.94	22123244.97	22123245.01	0.0139	0.0137
Venus	55861-04-08 04:34 G	22123968.60	22123968.69	22123968.80	0.0138	0.0122
Venus	55861-11-20 12:29 G	22124194.87	22124195.02	22124195.20	0.0138	0.0092
Venus	55862-07-04 20:38 G	22124421.18	22124421.36	22124421.57	0.0138	0.0060
Venus	55863-02-16 04:34 G	22124647.49	22124647.69	22124647.91	0.0138	0.0029
Venus	55863-09-30 12:29 G	22124873.80	22124874.02	22124874.23	0.0137	0.0003
Venus	55864-05-13 19:55 G	22125100.12	22125100.33	22125100.54	0.0137	0.0033
Venus	55864-12-26 03:07 G	22125326.45	22125326.63	22125326.83	0.0137	0.0064
Venus	55865-08-09 10:19 G	22125552.80	22125552.93	22125553.11	0.0137	0.0095
Venus	55866-03-23 17:31 G	22125779.16	22125779.23	22125779.34	0.0137	0.0125
Earth	55868-10-11 01:12 G	22126711.46	22126711.55	22126711.66	0.0136	0.0123
Moon	55868-10-11 03:07 G	22126711.57	22126711.63	22126711.72	0.0136	0.0129 *
Moon	55869-10-15 08:24 G	22127080.63	22127080.85	22127081.09	0.0136	0.0061
Earth	55869-10-15 10:19 G	22127080.71	22127080.93	22127081.16	0.0136	0.0064 *
Earth	55870-10-19 18:43 G	22127450.03	22127450.28	22127450.54	0.0135	0.0005
Moon	55870-10-19 20:53 G	22127450.13	22127450.37	22127450.62	0.0135	0.0005 *
Moon	55871-10-24 01:26 G	22127819.32	22127819.56	22127819.80	0.0135	0.0052
Earth	55871-10-24 02:38 G	22127819.39	22127819.61	22127819.85	0.0135	0.0056 *
Earth	55872-10-27 10:34 G	22128188.81	22128188.94	22128189.08	0.0135	0.0113
Moon	55872-10-27 12:14 G	22128188.90	22128189.01	22128189.12	0.0135	0.0119 *
Mercury	55900-08-07 06:29 G	22138333.73	22138333.77	22138333.83	0.0138	0.0128
Mercury	55900-11-03 10:05 G	22138421.84	22138421.92	22138422.00	0.0138	0.0107
Mercury	55901-01-30 13:12 G	22138509.95	22138510.05	22138510.16	0.0138	0.0087
Mercury	55901-04-28 16:34 G	22138598.08	22138598.19	22138598.31	0.0138	0.0066
Mercury	55901-07-25 19:55 G	22138686.21	22138686.33	22138686.46	0.0139	0.0046
Mercury	55901-10-21 23:17 G	22138774.34	22138774.47	22138774.60	0.0139	0.0025
Mercury	55902-01-18 02:38 G	22138862.47	22138862.61	22138862.74	0.0139	0.0007
Mercury	55902-04-16 05:46 G	22138950.61	22138950.74	22138950.87	0.0139	0.0016
Mercury	55902-07-13 09:07 G	22139038.75	22139038.88	22139039.01	0.0139	0.0036
Mercury	55902-10-09 12:14 G	22139126.90	22139127.01	22139127.14	0.0139	0.0057

Mercury	55903-01-05 15:36 G	22139215.04	22139215.15	22139215.26	0.0139	0.0077
Mercury	55903-04-03 18:43 G	22139303.20	22139303.28	22139303.38	0.0139	0.0098
Mercury	55903-06-30 21:50 G	22139391.36	22139391.41	22139391.49	0.0139	0.0119
Mercury	55903-09-27 01:12 G	22139479.55	22139479.55	22139479.57	0.0139	0.0138
Venus	55905-04-04 04:48 G	22140034.60	22140034.70	22140034.84	0.0140	0.0117
Venus	55905-11-16 14:24 G	22140260.93	22140261.10	22140261.28	0.0140	0.0084
Venus	55906-07-01 00:00 G	22140487.30	22140487.50	22140487.70	0.0140	0.0051
Venus	55907-02-12 09:36 G	22140713.69	22140713.90	22140714.12	0.0141	0.0018
Venus	55907-09-26 19:12 G	22140940.09	22140940.30	22140940.53	0.0141	0.0016
Venus	55908-05-10 05:02 G	22141166.51	22141166.71	22141166.92	0.0141	0.0049
Venus	55908-12-22 15:22 G	22141392.96	22141393.14	22141393.31	0.0141	0.0083
Venus	55909-08-06 00:58 G	22141619.44	22141619.54	22141619.68	0.0141	0.0117
Earth	55912-04-11 00:00 G	22142598.38	22142598.50	22142598.61	0.0142	0.0127
Moon	55912-04-11 02:10 G	22142598.48	22142598.59	22142598.74	0.0142	0.0120 *
Moon	55913-04-15 20:38 G	22142968.13	22142968.36	22142968.61	0.0143	0.0064
Earth	55913-04-15 22:48 G	22142968.23	22142968.45	22142968.70	0.0143	0.0057 *
Earth	55914-04-20 22:34 G	22143338.19	22143338.44	22143338.70	0.0143	0.0015
Moon	55914-04-21 00:00 G	22143338.25	22143338.50	22143338.74	0.0143	0.0020 *
Moon	55915-04-25 21:22 G	22143708.18	22143708.39	22143708.61	0.0143	0.0084
Earth	55915-04-25 22:34 G	22143708.25	22143708.44	22143708.65	0.0143	0.0087 *
Mars	55928-03-31 19:41 G	22148432.03	22148432.32	22148432.60	0.0144	0.0014
Mercury	55941-03-02 20:10 G	22153151.27	22153151.34	22153151.42	0.0140	0.0128
Mercury	55941-05-30 04:05 G	22153239.53	22153239.67	22153239.80	0.0140	0.0098
Mercury	55941-08-26 11:46 G	22153327.82	22153327.99	22153328.16	0.0140	0.0068
Mercury	55941-11-22 19:26 G	22153416.13	22153416.31	22153416.50	0.0140	0.0038
Mercury	55942-02-19 03:22 G	22153504.45	22153504.64	22153504.83	0.0139	0.0008
Mercury	55942-05-18 11:02 G	22153592.77	22153592.96	22153593.16	0.0139	0.0023
Mercury	55942-08-14 18:43 G	22153681.11	22153681.28	22153681.47	0.0139	0.0054
Mercury	55942-11-11 02:38 G	22153769.46	22153769.61	22153769.77	0.0139	0.0084
Mercury	55943-02-07 10:19 G	22153857.84	22153857.93	22153858.06	0.0139	0.0114

Venus	55944-12-07 12:58 G	22154527.02	22154527.04	22154527.10	0.0138	0.0136
Venus	55945-07-21 21:22 G	22154753.26	22154753.39	22154753.54	0.0138	0.0104
Venus	55946-03-05 05:17 G	22154979.55	22154979.72	22154979.92	0.0138	0.0073
Venus	55946-10-17 13:12 G	22155205.85	22155206.05	22155206.27	0.0138	0.0042
Venus	55947-05-31 21:07 G	22155432.17	22155432.38	22155432.60	0.0137	0.0010
Venus	55948-01-13 04:48 G	22155658.49	22155658.70	22155658.92	0.0137	0.0021
Venus	55948-08-26 12:00 G	22155884.81	22155885.00	22155885.22	0.0137	0.0052
Venus	55949-04-09 19:26 G	22156111.15	22156111.31	22156111.49	0.0137	0.0082
Venus	55949-11-22 02:24 G	22156337.50	22156337.60	22156337.74	0.0137	0.0113
Earth	55952-10-12 11:02 G	22157392.86	22157392.96	22157393.09	0.0136	0.0120
Moon	55952-10-12 13:41 G	22157392.95	22157393.07	22157393.22	0.0136	0.0114 *
Moon	55953-10-16 17:31 G	22157762.01	22157762.23	22157762.46	0.0136	0.0065
Earth	55953-10-16 19:55 G	22157762.12	22157762.33	22157762.57	0.0136	0.0061 *
Earth	55954-10-21 04:48 G	22158131.45	22158131.70	22158131.95	0.0135	0.0001
Moon	55954-10-21 06:43 G	22158131.54	22158131.78	22158132.03	0.0135	0.0003 *
Moon	55955-10-25 09:50 G	22158500.69	22158500.91	22158501.16	0.0135	0.0060
Earth	55955-10-25 12:29 G	22158500.81	22158501.02	22158501.26	0.0135	0.0059 *
Earth	55956-10-28 19:41 G	22158870.22	22158870.32	22158870.47	0.0135	0.0117
Moon	55956-10-28 22:05 G	22158870.30	22158870.42	22158870.57	0.0135	0.0112 *
Mars	55970-08-13 10:05 G	22163906.76	22163906.92	22163907.11	0.0134	0.0115
Mercury	55984-08-27 13:26 G	22169035.01	22169035.06	22169035.13	0.0138	0.0124
Mercury	55984-11-23 17:02 G	22169123.12	22169123.21	22169123.30	0.0138	0.0103
Mercury	55985-02-19 20:10 G	22169211.24	22169211.34	22169211.45	0.0138	0.0083
Mercury	55985-05-18 23:46 G	22169299.37	22169299.49	22169299.61	0.0138	0.0062
Mercury	55985-08-15 02:53 G	22169387.50	22169387.62	22169387.75	0.0139	0.0042
Mercury	55985-11-11 06:14 G	22169475.63	22169475.76	22169475.89	0.0139	0.0021
Mercury	55986-02-07 09:36 G	22169563.77	22169563.90	22169564.03	0.0139	0.0002
Mercury	55986-05-06 12:43 G	22169651.90	22169652.03	22169652.17	0.0139	0.0021
Mercury	55986-08-02 16:05 G	22169740.05	22169740.17	22169740.30	0.0139	0.0040
Mercury	55986-10-29 19:12 G	22169828.19	22169828.30	22169828.43	0.0139	0.0061

Mercury	55987-01-25 22:34 G	22169916.34	22169916.44	22169916.55	0.0139	0.0081
Mercury	55987-04-24 01:55 G	22170004.49	22170004.58	22170004.67	0.0139	0.0102
Mercury	55987-07-21 05:02 G	22170092.66	22170092.71	22170092.78	0.0139	0.0122
Venus	55988-12-02 12:00 G	22170592.94	22170593.00	22170593.09	0.0140	0.0131
Venus	55989-07-16 21:07 G	22170819.25	22170819.38	22170819.56	0.0140	0.0099
Venus	55990-02-28 06:43 G	22171045.60	22171045.78	22171045.98	0.0140	0.0066
Venus	55990-10-12 16:34 G	22171271.97	22171272.19	22171272.40	0.0140	0.0033
Venus	55991-05-27 02:10 G	22171498.37	22171498.59	22171498.81	0.0141	0.0002
Venus	55992-01-08 12:00 G	22171724.79	22171725.00	22171725.21	0.0141	0.0034
Venus	55992-08-21 21:36 G	22171951.22	22171951.40	22171951.60	0.0141	0.0068
Venus	55993-04-05 07:41 G	22172177.68	22172177.82	22172177.98	0.0141	0.0102
Venus	55993-11-17 17:31 G	22172404.18	22172404.23	22172404.31	0.0142	0.0136
Earth	55996-04-11 08:24 G	22173279.73	22173279.85	22173279.98	0.0142	0.0124
Moon	55996-04-11 11:17 G	22173279.87	22173279.97	22173280.07	0.0142	0.0130 *
Moon	55997-04-16 04:48 G	22173649.46	22173649.70	22173649.95	0.0143	0.0046
Earth	55997-04-16 07:26 G	22173649.58	22173649.81	22173650.05	0.0143	0.0054 *
Earth	55998-04-21 06:58 G	22174019.54	22174019.79	22174020.05	0.0143	0.0018
Moon	55998-04-21 09:22 G	22174019.65	22174019.89	22174020.14	0.0143	0.0011 *
Moon	55999-04-26 06:00 G	22174389.55	22174389.75	22174389.96	0.0143	0.0091
Earth	55999-04-26 07:12 G	22174389.61	22174389.80	22174390.01	0.0143	0.0089 *

57TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 57th millennium CE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
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TIME

Mercury	56025-03-23 02:53 G	22183852.54	22183852.62	22183852.72	0.0140	0.0122
Mercury	56025-06-19 10:34 G	22183940.81	22183940.94	22183941.10	0.0140	0.0092
Mercury	56025-09-15 18:29 G	22184029.10	22184029.27	22184029.45	0.0140	0.0062
Mercury	56025-12-13 02:10 G	22184117.41	22184117.59	22184117.79	0.0139	0.0032
Mercury	56026-03-11 10:05 G	22184205.73	22184205.92	22184206.12	0.0139	0.0003
Mercury	56026-06-07 18:00 G	22184294.06	22184294.25	22184294.44	0.0139	0.0029
Mercury	56026-09-04 01:55 G	22184382.40	22184382.58	22184382.75	0.0139	0.0060
Mercury	56026-12-01 09:22 G	22184470.76	22184470.89	22184471.05	0.0139	0.0090
Mercury	56027-02-27 17:31 G	22184559.14	22184559.23	22184559.33	0.0139	0.0120
Venus	56029-03-21 05:02 G	22185311.61	22185311.71	22185311.84	0.0138	0.0118
Venus	56029-11-02 13:12 G	22185537.89	22185538.05	22185538.23	0.0138	0.0087
Venus	56030-06-16 21:36 G	22185764.20	22185764.40	22185764.60	0.0138	0.0055
Venus	56031-01-29 05:17 G	22185990.51	22185990.72	22185990.94	0.0138	0.0024
Venus	56031-09-12 13:12 G	22186216.83	22186217.05	22186217.26	0.0137	0.0008
Venus	56032-04-25 20:38 G	22186443.15	22186443.36	22186443.57	0.0137	0.0038
Venus	56032-12-08 03:50 G	22186669.48	22186669.66	22186669.85	0.0137	0.0069
Venus	56033-07-22 11:02 G	22186895.83	22186895.96	22186896.12	0.0137	0.0100
Venus	56034-03-05 18:14 G	22187122.21	22187122.26	22187122.34	0.0137	0.0130
Earth	56036-10-12 20:10 G	22188074.23	22188074.34	22188074.49	0.0136	0.0117
Moon	56036-10-12 23:31 G	22188074.38	22188074.48	22188074.59	0.0136	0.0123 *
Moon	56037-10-17 02:38 G	22188443.37	22188443.61	22188443.85	0.0136	0.0053
Earth	56037-10-17 05:17 G	22188443.50	22188443.72	22188443.96	0.0136	0.0058 *
Earth	56038-10-21 13:55 G	22188812.82	22188813.08	22188813.33	0.0135	0.0003
Moon	56038-10-21 16:48 G	22188812.96	22188813.20	22188813.45	0.0135	0.0002 *
Moon	56039-10-25 18:58 G	22189182.07	22189182.29	22189182.54	0.0135	0.0059
Earth	56039-10-25 21:36 G	22189182.19	22189182.40	22189182.64	0.0135	0.0061 *
Earth	56040-10-29 05:02 G	22189551.61	22189551.71	22189551.85	0.0135	0.0119
Moon	56040-10-29 07:55 G	22189551.75	22189551.83	22189551.94	0.0135	0.0124 *
Mars	56055-04-08 18:00 G	22194825.97	22194826.25	22194826.54	0.0134	0.0066

Mercury	56068-09-16 20:24 G	22199736.30	22199736.35	22199736.43	0.0138	0.0120
Mercury	56068-12-14 00:00 G	22199824.41	22199824.50	22199824.59	0.0138	0.0099
Mercury	56069-03-12 03:07 G	22199912.53	22199912.63	22199912.75	0.0138	0.0079
Mercury	56069-06-08 06:43 G	22200000.66	22200000.78	22200000.90	0.0138	0.0058
Mercury	56069-09-04 09:50 G	22200088.79	22200088.91	22200089.04	0.0139	0.0038
Mercury	56069-12-01 13:12 G	22200176.92	22200177.05	22200177.18	0.0139	0.0017
Mercury	56070-02-27 16:34 G	22200265.06	22200265.19	22200265.32	0.0139	0.0004
Mercury	56070-05-26 19:41 G	22200353.20	22200353.32	22200353.46	0.0139	0.0025
Mercury	56070-08-22 23:02 G	22200441.34	22200441.46	22200441.59	0.0139	0.0045
Mercury	56070-11-19 02:24 G	22200529.48	22200529.60	22200529.72	0.0139	0.0065
Mercury	56071-02-15 05:46 G	22200617.63	22200617.74	22200617.84	0.0139	0.0085
Mercury	56071-05-14 08:38 G	22200705.79	22200705.86	22200705.96	0.0139	0.0107
Mercury	56071-08-10 12:00 G	22200793.96	22200794.00	22200794.06	0.0139	0.0126
Venus	56073-03-16 04:19 G	22201377.56	22201377.68	22201377.81	0.0140	0.0113
Venus	56073-10-28 13:26 G	22201603.89	22201604.06	22201604.25	0.0140	0.0081
Venus	56074-06-11 22:48 G	22201830.26	22201830.45	22201830.67	0.0140	0.0048
Venus	56075-01-24 08:38 G	22202056.65	22202056.86	22202057.08	0.0141	0.0015
Venus	56075-09-07 18:14 G	22202283.05	22202283.26	22202283.48	0.0141	0.0019
Venus	56076-04-21 03:50 G	22202509.47	22202509.66	22202509.87	0.0141	0.0053
Venus	56076-12-03 13:41 G	22202735.91	22202736.07	22202736.25	0.0141	0.0087
Venus	56077-07-17 23:31 G	22202962.39	22202962.48	22202962.61	0.0141	0.0121
Earth	56080-04-11 16:19 G	22203961.05	22203961.18	22203961.31	0.0142	0.0121
Moon	56080-04-11 19:41 G	22203961.18	22203961.32	22203961.47	0.0142	0.0115 *
Moon	56081-04-16 12:14 G	22204330.77	22204331.01	22204331.25	0.0143	0.0058
Earth	56081-04-16 15:22 G	22204330.90	22204331.14	22204331.38	0.0143	0.0051 *
Earth	56082-04-21 15:07 G	22204700.87	22204701.13	22204701.38	0.0143	0.0020
Moon	56082-04-21 17:31 G	22204700.98	22204701.23	22204701.48	0.0143	0.0027 *
Moon	56083-04-26 12:14 G	22205070.82	22205071.01	22205071.24	0.0143	0.0087
Earth	56083-04-26 14:38 G	22205070.94	22205071.11	22205071.33	0.0143	0.0093 *
Mercury	56109-04-13 09:07 G	22214553.79	22214553.88	22214554.00	0.0140	0.0117

Mercury	56109-07-10 17:02 G	22214642.07	22214642.21	22214642.37	0.0140	0.0087
Mercury	56109-10-07 00:43 G	22214730.37	22214730.53	22214730.72	0.0140	0.0057
Mercury	56110-01-03 08:53 G	22214818.68	22214818.87	22214819.06	0.0139	0.0026
Mercury	56110-04-01 16:34 G	22214907.00	22214907.19	22214907.39	0.0139	0.0005
Mercury	56110-06-29 00:14 G	22214995.33	22214995.51	22214995.71	0.0139	0.0035
Mercury	56110-09-25 08:10 G	22215083.68	22215083.84	22215084.02	0.0139	0.0065
Mercury	56110-12-22 15:50 G	22215172.03	22215172.16	22215172.31	0.0139	0.0096
Mercury	56111-03-20 23:46 G	22215260.42	22215260.49	22215260.58	0.0139	0.0126
Venus	56112-11-19 12:29 G	22215869.97	22215870.02	22215870.09	0.0138	0.0133
Venus	56113-07-03 20:53 G	22216096.23	22216096.37	22216096.52	0.0138	0.0101
Venus	56114-02-15 04:48 G	22216322.53	22216322.70	22216322.90	0.0138	0.0070
Venus	56114-09-29 12:43 G	22216548.83	22216549.03	22216549.25	0.0138	0.0039
Venus	56115-05-13 20:38 G	22216775.15	22216775.36	22216775.58	0.0138	0.0008
Venus	56115-12-26 04:19 G	22217001.47	22217001.68	22217001.90	0.0137	0.0024
Venus	56116-08-08 11:46 G	22217227.80	22217227.99	22217228.20	0.0137	0.0056
Venus	56117-03-22 18:58 G	22217454.14	22217454.29	22217454.47	0.0137	0.0086
Venus	56117-11-04 02:24 G	22217680.49	22217680.60	22217680.72	0.0137	0.0116
Earth	56120-10-14 05:17 G	22218755.59	22218755.72	22218755.87	0.0136	0.0113
Moon	56120-10-14 08:53 G	22218755.72	22218755.87	22218756.03	0.0136	0.0106 *
Moon	56121-10-18 10:48 G	22219124.73	22219124.95	22219125.19	0.0136	0.0060
Earth	56121-10-18 14:24 G	22219124.87	22219125.10	22219125.34	0.0136	0.0054 *
Earth	56122-10-22 23:02 G	22219494.20	22219494.46	22219494.71	0.0135	0.0006
Moon	56122-10-23 01:55 G	22219494.33	22219494.58	22219494.83	0.0135	0.0007 *
Moon	56123-10-27 03:36 G	22219863.43	22219863.65	22219863.88	0.0135	0.0064
Earth	56123-10-27 06:58 G	22219863.58	22219863.79	22219864.02	0.0135	0.0064 *
Earth	56124-10-30 14:38 G	22220233.01	22220233.11	22220233.22	0.0135	0.0122
Moon	56124-10-30 17:17 G	22220233.12	22220233.22	22220233.35	0.0135	0.0119 *
Jupiter	56140-09-22 17:31 G	22226038.77	22226039.23	22226039.73	0.0135	0.0034
Mercury	56152-07-12 00:14 G	22230349.49	22230349.51	22230349.54	0.0138	0.0135
Mercury	56152-10-08 03:36 G	22230437.58	22230437.65	22230437.73	0.0138	0.0115

Mercury	56153-01-04 06:58 G	22230525.70	22230525.79	22230525.89	0.0138	0.0094
Mercury	56153-04-02 10:19 G	22230613.82	22230613.93	22230614.04	0.0138	0.0074
Mercury	56153-06-29 13:41 G	22230701.95	22230702.07	22230702.19	0.0138	0.0053
Mercury	56153-09-25 17:02 G	22230790.08	22230790.21	22230790.34	0.0138	0.0033
Mercury	56153-12-22 20:10 G	22230878.21	22230878.34	22230878.48	0.0139	0.0013
Mercury	56154-03-20 23:31 G	22230966.35	22230966.48	22230966.61	0.0139	0.0009
Mercury	56154-06-17 02:53 G	22231054.49	22231054.62	22231054.75	0.0139	0.0028
Mercury	56154-09-13 06:14 G	22231142.63	22231142.76	22231142.88	0.0139	0.0049
Mercury	56154-12-10 09:22 G	22231230.78	22231230.89	22231231.01	0.0139	0.0069
Mercury	56155-03-08 12:29 G	22231318.93	22231319.02	22231319.13	0.0139	0.0090
Mercury	56155-06-04 15:50 G	22231407.09	22231407.16	22231407.25	0.0139	0.0110
Mercury	56155-08-31 19:12 G	22231495.26	22231495.30	22231495.35	0.0139	0.0130
Venus	56156-11-14 11:02 G	22231935.89	22231935.96	22231936.06	0.0140	0.0129
Venus	56157-06-28 20:24 G	22232162.20	22232162.35	22232162.52	0.0140	0.0096
Venus	56158-02-10 05:46 G	22232388.55	22232388.74	22232388.94	0.0140	0.0063
Venus	56158-09-24 15:07 G	22232614.93	22232615.13	22232615.35	0.0140	0.0031
Venus	56159-05-09 00:58 G	22232841.32	22232841.54	22232841.75	0.0141	0.0004
Venus	56159-12-21 10:34 G	22233067.73	22233067.94	22233068.15	0.0141	0.0037
Venus	56160-08-03 20:10 G	22233294.16	22233294.34	22233294.54	0.0141	0.0071
Venus	56161-03-18 06:14 G	22233520.62	22233520.76	22233520.91	0.0141	0.0105
Venus	56161-10-30 15:50 G	22233747.14	22233747.16	22233747.22	0.0142	0.0139
Earth	56164-04-13 00:00 G	22234642.38	22234642.50	22234642.67	0.0142	0.0117
Moon	56164-04-13 03:50 G	22234642.54	22234642.66	22234642.80	0.0142	0.0122 *
Moon	56165-04-17 19:55 G	22235012.09	22235012.33	22235012.59	0.0143	0.0040
Earth	56165-04-17 23:31 G	22235012.25	22235012.48	22235012.73	0.0143	0.0047 *
Earth	56166-04-22 23:02 G	22235382.21	22235382.46	22235382.72	0.0143	0.0024
Moon	56166-04-23 02:24 G	22235382.35	22235382.60	22235382.85	0.0143	0.0016 *
Moon	56167-04-27 20:38 G	22235752.18	22235752.36	22235752.56	0.0143	0.0099
Earth	56167-04-27 23:02 G	22235752.29	22235752.46	22235752.67	0.0143	0.0095 *
Mars	56180-04-13 18:58 G	22240487.01	22240487.29	22240487.58	0.0144	0.0024

Mercury	56193-05-03 15:36 G	22245255.05	22245255.15	22245255.27	0.0140	0.0112
Mercury	56193-07-30 23:17 G	22245343.33	22245343.47	22245343.64	0.0140	0.0082
Mercury	56193-10-27 07:12 G	22245431.63	22245431.80	22245431.98	0.0140	0.0052
Mercury	56194-01-23 15:07 G	22245519.94	22245520.13	22245520.32	0.0139	0.0021
Mercury	56194-04-21 22:48 G	22245608.26	22245608.45	22245608.65	0.0139	0.0009
Mercury	56194-07-19 06:43 G	22245696.59	22245696.78	22245696.96	0.0139	0.0039
Mercury	56194-10-15 14:10 G	22245784.94	22245785.09	22245785.27	0.0139	0.0071
Mercury	56195-01-11 22:19 G	22245873.30	22245873.43	22245873.57	0.0139	0.0100
Mercury	56195-04-10 06:14 G	22245961.70	22245961.76	22245961.83	0.0139	0.0130
Venus	56197-03-03 03:22 G	22246654.54	22246654.64	22246654.77	0.0138	0.0117
Venus	56197-10-15 11:31 G	22246880.82	22246880.98	22246881.17	0.0138	0.0085
Venus	56198-05-29 19:55 G	22247107.13	22247107.33	22247107.53	0.0138	0.0053
Venus	56199-01-11 03:36 G	22247333.44	22247333.65	22247333.87	0.0138	0.0022
Venus	56199-08-25 11:31 G	22247559.76	22247559.98	22247560.20	0.0137	0.0010
Venus	56200-04-08 18:43 G	22247786.08	22247786.28	22247786.50	0.0137	0.0041
Venus	56200-11-21 02:24 G	22248012.41	22248012.60	22248012.78	0.0137	0.0071
Venus	56201-07-05 09:36 G	22248238.76	22248238.90	22248239.05	0.0137	0.0102
Venus	56202-02-16 16:48 G	22248465.15	22248465.20	22248465.26	0.0137	0.0132
Earth	56204-10-15 12:43 G	22249436.90	22249437.03	22249437.19	0.0136	0.0110
Moon	56204-10-15 16:19 G	22249437.06	22249437.18	22249437.31	0.0136	0.0117 *
Moon	56205-10-19 18:29 G	22249806.04	22249806.27	22249806.52	0.0136	0.0045
Earth	56205-10-19 22:05 G	22249806.19	22249806.42	22249806.66	0.0136	0.0051 *
Earth	56206-10-24 06:43 G	22250175.53	22250175.78	22250176.03	0.0135	0.0009
Moon	56206-10-24 10:19 G	22250175.68	22250175.93	22250176.18	0.0135	0.0005 *
Moon	56207-10-28 11:17 G	22250544.77	22250544.97	22250545.21	0.0135	0.0067
Earth	56207-10-28 14:53 G	22250544.91	22250545.12	22250545.34	0.0135	0.0067 *
Earth	56208-10-31 22:19 G	22250914.36	22250914.43	22250914.54	0.0135	0.0125
Moon	56208-11-01 01:55 G	22250914.53	22250914.58	22250914.67	0.0135	0.0129 *
Mars	56222-08-26 10:48 G	22255960.69	22255960.95	22255961.25	0.0134	0.0070
Mercury	56236-08-02 07:26 G	22261050.77	22261050.81	22261050.85	0.0138	0.0130

Mercury	56236-10-29 10:34 G	22261138.87	22261138.94	22261139.03	0.0138	0.0110
Mercury	56237-01-25 14:10 G	22261226.99	22261227.09	22261227.19	0.0138	0.0090
Mercury	56237-04-23 17:17 G	22261315.11	22261315.22	22261315.34	0.0138	0.0069
Mercury	56237-07-20 20:38 G	22261403.24	22261403.36	22261403.49	0.0138	0.0049
Mercury	56237-10-17 00:00 G	22261491.37	22261491.50	22261491.63	0.0139	0.0028
Mercury	56238-01-13 03:22 G	22261579.51	22261579.64	22261579.77	0.0139	0.0008
Mercury	56238-04-11 06:43 G	22261667.65	22261667.78	22261667.91	0.0139	0.0013
Mercury	56238-07-08 09:50 G	22261755.79	22261755.91	22261756.04	0.0139	0.0033
Mercury	56238-10-04 13:12 G	22261843.93	22261844.05	22261844.17	0.0139	0.0054
Mercury	56238-12-31 16:34 G	22261932.08	22261932.19	22261932.30	0.0139	0.0074
Mercury	56239-03-29 19:41 G	22262020.23	22262020.32	22262020.42	0.0139	0.0094
Mercury	56239-06-25 22:48 G	22262108.39	22262108.45	22262108.53	0.0139	0.0115
Mercury	56239-09-22 02:10 G	22262196.57	22262196.59	22262196.63	0.0139	0.0135
Venus	56241-02-27 03:22 G	22262720.53	22262720.64	22262720.79	0.0140	0.0111
Venus	56241-10-11 12:43 G	22262946.86	22262947.03	22262947.22	0.0140	0.0078
Venus	56242-05-25 22:05 G	22263173.22	22263173.42	22263173.64	0.0140	0.0045
Venus	56243-01-07 07:55 G	22263399.61	22263399.83	22263400.05	0.0140	0.0012
Venus	56243-08-21 17:31 G	22263626.01	22263626.23	22263626.45	0.0141	0.0022
Venus	56244-04-04 02:53 G	22263852.43	22263852.62	22263852.83	0.0141	0.0056
Venus	56244-11-16 12:43 G	22264078.87	22264079.03	22264079.21	0.0141	0.0089
Venus	56245-06-30 22:34 G	22264305.35	22264305.44	22264305.56	0.0141	0.0123
Earth	56248-04-14 09:22 G	22265323.75	22265323.89	22265324.06	0.0142	0.0113
Moon	56248-04-14 13:12 G	22265323.90	22265324.05	22265324.23	0.0142	0.0108 *
Moon	56249-04-19 05:02 G	22265693.48	22265693.71	22265693.96	0.0142	0.0050
Earth	56249-04-19 08:38 G	22265693.62	22265693.86	22265694.11	0.0142	0.0043 *
Earth	56250-04-24 08:24 G	22266063.60	22266063.85	22266064.10	0.0143	0.0028
Moon	56250-04-24 11:31 G	22266063.75	22266063.98	22266064.24	0.0143	0.0036 *
Moon	56251-04-29 04:48 G	22266433.52	22266433.70	22266433.92	0.0143	0.0093
Earth	56251-04-29 08:24 G	22266433.68	22266433.85	22266434.05	0.0143	0.0099 *
Jupiter	56265-03-16 00:14 G	22271503.34	22271503.51	22271503.73	0.0143	0.0134

Mercury	56277-02-25 14:10 G	22275868.07	22275868.09	22275868.14	0.0140	0.0137
Mercury	56277-05-24 22:05 G	22275956.30	22275956.42	22275956.55	0.0140	0.0107
Mercury	56277-08-21 05:46 G	22276044.59	22276044.74	22276044.91	0.0140	0.0077
Mercury	56277-11-17 13:26 G	22276132.89	22276133.06	22276133.25	0.0139	0.0047
Mercury	56278-02-13 21:22 G	22276221.20	22276221.39	22276221.59	0.0139	0.0016
Mercury	56278-05-13 05:17 G	22276309.53	22276309.72	22276309.91	0.0139	0.0014
Mercury	56278-08-09 12:58 G	22276397.86	22276398.04	22276398.23	0.0139	0.0045
Mercury	56278-11-05 20:38 G	22276486.21	22276486.36	22276486.53	0.0139	0.0075
Mercury	56279-02-02 04:34 G	22276574.57	22276574.69	22276574.82	0.0139	0.0105
Mercury	56279-05-01 12:14 G	22276662.99	22276663.01	22276663.07	0.0139	0.0136
Venus	56280-11-01 10:05 G	22277212.88	22277212.92	22277213.01	0.0138	0.0132
Venus	56281-06-15 18:43 G	22277439.14	22277439.28	22277439.44	0.0138	0.0100
Venus	56282-01-28 02:53 G	22277665.44	22277665.62	22277665.82	0.0138	0.0068
Venus	56282-09-11 10:48 G	22277891.74	22277891.95	22277892.16	0.0138	0.0036
Venus	56283-04-25 18:29 G	22278118.06	22278118.27	22278118.49	0.0138	0.0006
Venus	56283-12-08 02:10 G	22278344.38	22278344.59	22278344.81	0.0137	0.0026
Venus	56284-07-21 09:36 G	22278570.71	22278570.90	22278571.11	0.0137	0.0057
Venus	56285-03-04 16:48 G	22278797.05	22278797.20	22278797.38	0.0137	0.0088
Venus	56285-10-17 00:14 G	22279023.40	22279023.51	22279023.62	0.0137	0.0118
Earth	56288-10-15 20:53 G	22280118.22	22280118.37	22280118.53	0.0136	0.0107
Moon	56288-10-16 00:14 G	22280118.36	22280118.51	22280118.70	0.0136	0.0100 *
Moon	56289-10-20 02:24 G	22280487.38	22280487.60	22280487.84	0.0136	0.0055
Earth	56289-10-20 06:00 G	22280487.52	22280487.75	22280488.00	0.0136	0.0048 *
Earth	56290-10-24 14:53 G	22280856.87	22280857.12	22280857.37	0.0135	0.0012
Moon	56290-10-24 18:29 G	22280857.02	22280857.27	22280857.52	0.0135	0.0015 *
Moon	56291-10-28 19:12 G	22281226.10	22281226.30	22281226.53	0.0135	0.0069
Earth	56291-10-28 23:02 G	22281226.26	22281226.46	22281226.69	0.0135	0.0070 *
Earth	56292-11-01 06:43 G	22281595.72	22281595.78	22281595.88	0.0135	0.0128
Moon	56292-11-01 10:34 G	22281595.85	22281595.94	22281596.03	0.0135	0.0125 *
Mars	56307-04-22 19:41 G	22286880.16	22286880.32	22286880.51	0.0135	0.0113

Mercury	56320-08-23 14:24 G	22291752.05	22291752.10	22291752.16	0.0138	0.0126
Mercury	56320-11-19 17:46 G	22291840.16	22291840.24	22291840.33	0.0138	0.0105
Mercury	56321-02-15 21:07 G	22291928.28	22291928.38	22291928.49	0.0138	0.0085
Mercury	56321-05-15 00:29 G	22292016.40	22292016.52	22292016.64	0.0138	0.0064
Mercury	56321-08-11 03:50 G	22292104.53	22292104.66	22292104.79	0.0138	0.0044
Mercury	56321-11-07 07:12 G	22292192.67	22292192.80	22292192.93	0.0139	0.0024
Mercury	56322-02-03 10:34 G	22292280.80	22292280.94	22292281.07	0.0139	0.0005
Mercury	56322-05-02 13:41 G	22292368.94	22292369.07	22292369.20	0.0139	0.0018
Mercury	56322-07-29 17:02 G	22292457.08	22292457.21	22292457.34	0.0139	0.0038
Mercury	56322-10-25 20:24 G	22292545.23	22292545.35	22292545.47	0.0139	0.0058
Mercury	56323-01-21 23:31 G	22292633.38	22292633.48	22292633.59	0.0139	0.0079
Mercury	56323-04-20 02:53 G	22292721.53	22292721.62	22292721.71	0.0139	0.0099
Mercury	56323-07-17 06:14 G	22292809.69	22292809.76	22292809.82	0.0139	0.0119
Venus	56324-10-28 10:48 G	22293278.87	22293278.95	22293279.06	0.0140	0.0125
Venus	56325-06-11 20:10 G	22293505.19	22293505.34	22293505.51	0.0140	0.0092
Venus	56326-01-24 05:46 G	22293731.54	22293731.74	22293731.94	0.0140	0.0059
Venus	56326-09-07 15:07 G	22293957.92	22293958.13	22293958.34	0.0140	0.0026
Venus	56327-04-22 00:29 G	22294184.31	22294184.52	22294184.74	0.0141	0.0008
Venus	56327-12-04 10:05 G	22294410.72	22294410.92	22294411.14	0.0141	0.0041
Venus	56328-07-17 19:55 G	22294637.15	22294637.33	22294637.52	0.0141	0.0074
Venus	56329-03-01 05:46 G	22294863.61	22294863.74	22294863.89	0.0141	0.0108
Earth	56332-04-15 18:43 G	22296005.14	22296005.28	22296005.47	0.0142	0.0109
Moon	56332-04-15 22:34 G	22296005.29	22296005.44	22296005.61	0.0142	0.0111 *
Moon	56333-04-20 14:53 G	22296374.87	22296375.12	22296375.37	0.0142	0.0031
Earth	56333-04-20 18:29 G	22296375.03	22296375.27	22296375.52	0.0142	0.0038 *
Earth	56334-04-25 18:00 G	22296745.00	22296745.25	22296745.50	0.0143	0.0032
Moon	56334-04-25 21:36 G	22296745.15	22296745.40	22296745.66	0.0143	0.0025 *
Moon	56335-04-30 15:07 G	22297114.96	22297115.13	22297115.30	0.0143	0.0108
Earth	56335-04-30 18:14 G	22297115.09	22297115.26	22297115.45	0.0143	0.0103 *
Mars	56347-09-03 04:19 G	22301623.53	22301623.68	22301623.86	0.0144	0.0117

Mercury	56361-03-18 20:53 G	22306569.32	22306569.37	22306569.45	0.0140	0.0131
Mercury	56361-06-15 04:48 G	22306657.58	22306657.70	22306657.84	0.0140	0.0101
Mercury	56361-09-11 12:29 G	22306745.86	22306746.02	22306746.19	0.0140	0.0071
Mercury	56361-12-08 20:24 G	22306834.17	22306834.35	22306834.53	0.0139	0.0040
Mercury	56362-03-07 04:05 G	22306922.48	22306922.67	22306922.87	0.0139	0.0011
Mercury	56362-06-03 12:00 G	22307010.81	22307011.00	22307011.19	0.0139	0.0020
Mercury	56362-08-30 19:41 G	22307099.15	22307099.32	22307099.50	0.0139	0.0051
Mercury	56362-11-27 03:22 G	22307187.49	22307187.64	22307187.81	0.0139	0.0081
Mercury	56363-02-23 11:17 G	22307275.86	22307275.97	22307276.09	0.0139	0.0111
Venus	56365-02-14 02:10 G	22307997.48	22307997.59	22307997.72	0.0138	0.0114
Venus	56365-09-28 10:05 G	22308223.76	22308223.92	22308224.11	0.0138	0.0082
Venus	56366-05-12 18:14 G	22308450.06	22308450.26	22308450.47	0.0138	0.0050
Venus	56366-12-25 02:10 G	22308676.37	22308676.59	22308676.80	0.0138	0.0019
Venus	56367-08-08 09:50 G	22308902.69	22308902.91	22308903.13	0.0137	0.0013
Venus	56368-03-21 17:17 G	22309129.01	22309129.22	22309129.43	0.0137	0.0043
Venus	56368-11-03 00:29 G	22309355.34	22309355.52	22309355.71	0.0137	0.0074
Venus	56369-06-17 07:41 G	22309581.69	22309581.82	22309581.97	0.0137	0.0105
Venus	56370-01-29 14:38 G	22309808.10	22309808.11	22309808.16	0.0137	0.0135
Earth	56372-10-17 04:48 G	22310799.55	22310799.70	22310799.87	0.0136	0.0104
Moon	56372-10-17 08:10 G	22310799.71	22310799.84	22310800.00	0.0136	0.0111 *
Moon	56373-10-21 10:34 G	22311168.71	22311168.94	22311169.19	0.0136	0.0039
Earth	56373-10-21 14:24 G	22311168.86	22311169.10	22311169.34	0.0136	0.0045 *
Earth	56374-10-25 23:02 G	22311538.21	22311538.46	22311538.72	0.0135	0.0014
Moon	56374-10-26 02:38 G	22311538.36	22311538.61	22311538.87	0.0135	0.0009 *
Moon	56375-10-30 03:36 G	22311907.46	22311907.65	22311907.88	0.0135	0.0075
Earth	56375-10-30 07:12 G	22311907.60	22311907.80	22311908.03	0.0135	0.0073 *
Earth	56376-11-02 15:07 G	22312277.08	22312277.13	22312277.21	0.0135	0.0130
Moon	56376-11-02 19:12 G	22312277.25	22312277.30	22312277.34	0.0135	0.0132
Mercury	56404-09-12 21:36 G	22322453.34	22322453.40	22322453.46	0.0138	0.0122
Mercury	56404-12-10 00:43 G	22322541.45	22322541.53	22322541.63	0.0138	0.0102

Mercury	56405-03-08 04:19 G	22322629.57	22322629.68	22322629.78	0.0138	0.0081
Mercury	56405-06-04 07:26 G	22322717.70	22322717.81	22322717.94	0.0139	0.0061
Mercury	56405-08-31 10:48 G	22322805.83	22322805.95	22322806.08	0.0139	0.0040
Mercury	56405-11-27 14:10 G	22322893.96	22322894.09	22322894.22	0.0139	0.0019
Mercury	56406-02-23 17:31 G	22322982.10	22322982.23	22322982.36	0.0139	0.0001
Mercury	56406-05-22 20:53 G	22323070.24	22323070.37	22323070.50	0.0139	0.0022
Mercury	56406-08-19 00:00 G	22323158.38	22323158.50	22323158.63	0.0139	0.0042
Mercury	56406-11-15 03:22 G	22323246.52	22323246.64	22323246.76	0.0139	0.0063
Mercury	56407-02-11 06:29 G	22323334.67	22323334.77	22323334.88	0.0139	0.0083
Mercury	56407-05-10 09:50 G	22323422.83	22323422.91	22323423.00	0.0139	0.0104
Mercury	56407-08-06 13:12 G	22323510.99	22323511.05	22323511.11	0.0139	0.0124
Venus	56408-06-27 18:14 G	22323837.25	22323837.26	22323837.29	0.0140	0.0139
Venus	56409-02-09 03:36 G	22324063.51	22324063.65	22324063.79	0.0140	0.0106
Venus	56409-09-23 12:29 G	22324289.85	22324290.02	22324290.22	0.0140	0.0074
Venus	56410-05-07 22:05 G	22324516.21	22324516.42	22324516.63	0.0140	0.0041
Venus	56410-12-20 07:41 G	22324742.60	22324742.82	22324743.04	0.0141	0.0007
Venus	56411-08-03 17:17 G	22324969.01	22324969.22	22324969.44	0.0141	0.0026
Venus	56412-03-17 02:53 G	22325195.43	22325195.62	22325195.82	0.0141	0.0060
Venus	56412-10-29 12:29 G	22325421.88	22325422.02	22325422.20	0.0141	0.0095
Venus	56413-06-12 22:48 G	22325648.37	22325648.45	22325648.55	0.0141	0.0128
Earth	56416-04-16 04:48 G	22326686.54	22326686.70	22326686.89	0.0142	0.0104
Moon	56416-04-16 08:24 G	22326686.68	22326686.85	22326687.05	0.0142	0.0100 *
Moon	56417-04-21 00:43 G	22327056.30	22327056.53	22327056.79	0.0143	0.0041
Earth	56417-04-21 04:05 G	22327056.43	22327056.67	22327056.93	0.0143	0.0035 *
Earth	56418-04-26 04:05 G	22327426.42	22327426.67	22327426.92	0.0143	0.0036
Moon	56418-04-26 07:41 G	22327426.58	22327426.82	22327427.07	0.0143	0.0044 *
Moon	56419-05-01 00:29 G	22327796.35	22327796.52	22327796.71	0.0143	0.0100
Earth	56419-05-01 04:19 G	22327796.52	22327796.68	22327796.86	0.0143	0.0107 *
Mars	56432-04-28 03:36 G	22332542.41	22332542.65	22332542.90	0.0143	0.0074
Mercury	56445-04-08 04:19 G	22337270.60	22337270.68	22337270.77	0.0140	0.0123

Mercury	56445-07-05 12:00 G	22337358.86	22337359.00	22337359.15	0.0140	0.0093
Mercury	56445-10-01 19:41 G	22337447.16	22337447.32	22337447.50	0.0139	0.0063
Mercury	56445-12-29 03:36 G	22337535.46	22337535.65	22337535.84	0.0139	0.0033
Mercury	56446-03-27 11:17 G	22337623.78	22337623.97	22337624.16	0.0139	0.0003
Mercury	56446-06-23 18:58 G	22337712.11	22337712.29	22337712.49	0.0139	0.0028
Mercury	56446-09-20 02:38 G	22337800.45	22337800.61	22337800.80	0.0139	0.0058
Mercury	56446-12-17 10:34 G	22337888.80	22337888.94	22337889.10	0.0139	0.0088
Mercury	56447-03-15 18:29 G	22337977.17	22337977.27	22337977.37	0.0139	0.0118
Venus	56448-10-14 10:05 G	22338555.85	22338555.92	22338556.02	0.0138	0.0127
Venus	56449-05-28 18:14 G	22338782.12	22338782.26	22338782.43	0.0138	0.0096
Venus	56450-01-10 02:10 G	22339008.41	22339008.59	22339008.80	0.0138	0.0064
Venus	56450-08-24 10:19 G	22339234.72	22339234.93	22339235.14	0.0138	0.0032
Venus	56451-04-07 18:00 G	22339461.03	22339461.25	22339461.47	0.0138	0.0001
Venus	56451-11-20 01:26 G	22339687.35	22339687.56	22339687.77	0.0137	0.0030
Venus	56452-07-03 08:53 G	22339913.68	22339913.87	22339914.07	0.0137	0.0061
Venus	56453-02-14 16:05 G	22340140.02	22340140.17	22340140.34	0.0137	0.0092
Venus	56453-09-28 23:17 G	22340366.38	22340366.47	22340366.57	0.0137	0.0122
Earth	56456-10-17 14:24 G	22341480.94	22341481.10	22341481.28	0.0136	0.0101
Moon	56456-10-17 18:00 G	22341481.07	22341481.25	22341481.44	0.0136	0.0093 *
Moon	56457-10-21 20:53 G	22341850.14	22341850.37	22341850.60	0.0136	0.0049
Earth	56457-10-21 23:46 G	22341850.26	22341850.49	22341850.74	0.0136	0.0042 *
Earth	56458-10-26 08:38 G	22342219.61	22342219.86	22342220.11	0.0135	0.0017
Moon	56458-10-26 12:00 G	22342219.75	22342220.00	22342220.25	0.0135	0.0022 *
Moon	56459-10-30 13:12 G	22342588.86	22342589.05	22342589.27	0.0135	0.0073
Earth	56459-10-30 16:34 G	22342589.00	22342589.19	22342589.42	0.0135	0.0076 *
Earth	56460-11-03 00:29 G	22342958.50	22342958.52	22342958.57	0.0135	0.0133
Moon	56460-11-03 03:50 G	22342958.62	22342958.66	22342958.72	0.0135	0.0132
Mars	56474-09-07 10:48 G	22348014.64	22348014.95	22348015.29	0.0135	0.0026
Mercury	56488-07-07 01:12 G	22353066.55	22353066.55	22353066.55	0.0138	0.0138
Mercury	56488-10-03 04:34 G	22353154.62	22353154.69	22353154.76	0.0138	0.0118

Mercury	56488-12-30 07:41 G	22353242.74	22353242.82	22353242.92	0.0138	0.0098
Mercury	56489-03-28 11:17 G	22353330.86	22353330.97	22353331.08	0.0138	0.0077
Mercury	56489-06-24 14:24 G	22353418.99	22353419.10	22353419.23	0.0139	0.0057
Mercury	56489-09-20 18:00 G	22353507.12	22353507.25	22353507.37	0.0139	0.0036
Mercury	56489-12-17 21:07 G	22353595.25	22353595.38	22353595.52	0.0139	0.0016
Mercury	56490-03-16 00:29 G	22353683.39	22353683.52	22353683.65	0.0139	0.0005
Mercury	56490-06-12 03:50 G	22353771.53	22353771.66	22353771.79	0.0139	0.0026
Mercury	56490-09-08 06:58 G	22353859.67	22353859.79	22353859.92	0.0139	0.0046
Mercury	56490-12-05 10:19 G	22353947.82	22353947.93	22353948.05	0.0139	0.0067
Mercury	56491-03-03 13:26 G	22354035.97	22354036.06	22354036.17	0.0139	0.0087
Mercury	56491-05-30 16:48 G	22354124.12	22354124.20	22354124.29	0.0139	0.0108
Mercury	56491-08-26 20:10 G	22354212.29	22354212.34	22354212.39	0.0139	0.0128
Venus	56492-10-09 10:05 G	22354621.83	22354621.92	22354622.04	0.0140	0.0121
Venus	56493-05-23 19:26 G	22354848.15	22354848.31	22354848.48	0.0140	0.0088
Venus	56494-01-05 04:48 G	22355074.51	22355074.70	22355074.91	0.0140	0.0056
Venus	56494-08-19 14:10 G	22355300.88	22355301.09	22355301.31	0.0140	0.0023
Venus	56495-04-02 23:46 G	22355527.28	22355527.49	22355527.71	0.0141	0.0012
Venus	56495-11-15 09:22 G	22355753.69	22355753.89	22355754.11	0.0141	0.0045
Venus	56496-06-28 19:12 G	22355980.13	22355980.30	22355980.49	0.0141	0.0079
Venus	56497-02-10 05:17 G	22356206.61	22356206.72	22356206.86	0.0141	0.0113
Earth	56500-04-17 13:55 G	22357367.91	22357368.08	22357368.27	0.0142	0.0101
Moon	56500-04-17 16:34 G	22357368.02	22357368.19	22357368.39	0.0142	0.0103 *
Moon	56501-04-22 09:50 G	22357737.66	22357737.91	22357738.16	0.0143	0.0025
Earth	56501-04-22 13:26 G	22357737.81	22357738.06	22357738.31	0.0143	0.0031 *
Earth	56502-04-27 12:43 G	22358107.80	22358108.03	22358108.29	0.0143	0.0040
Moon	56502-04-27 16:19 G	22358107.93	22358108.18	22358108.44	0.0143	0.0032 *
Moon	56503-05-02 09:36 G	22358477.76	22358477.90	22358478.06	0.0143	0.0117
Earth	56503-05-02 13:12 G	22358477.90	22358478.05	22358478.22	0.0143	0.0110 *
Mercury	56529-04-29 11:31 G	22367971.88	22367971.98	22367972.10	0.0140	0.0115
Mercury	56529-07-26 19:12 G	22368060.16	22368060.30	22368060.46	0.0140	0.0085

Mercury	56529-10-23 03:07 G	22368148.45	22368148.63	22368148.80	0.0139	0.0055
Mercury	56530-01-19 10:48 G	22368236.76	22368236.95	22368237.14	0.0139	0.0025
Mercury	56530-04-17 18:29 G	22368325.08	22368325.27	22368325.47	0.0139	0.0006
Mercury	56530-07-15 02:24 G	22368413.41	22368413.60	22368413.78	0.0139	0.0036
Mercury	56530-10-11 09:50 G	22368501.75	22368501.91	22368502.09	0.0139	0.0066
Mercury	56531-01-07 17:46 G	22368590.11	22368590.24	22368590.39	0.0139	0.0096
Mercury	56531-04-06 01:26 G	22368678.49	22368678.56	22368678.65	0.0139	0.0126
Venus	56533-01-27 02:53 G	22369340.49	22369340.62	22369340.76	0.0138	0.0109
Venus	56533-09-10 10:48 G	22369566.78	22369566.95	22369567.14	0.0138	0.0077
Venus	56534-04-24 18:43 G	22369793.08	22369793.28	22369793.49	0.0138	0.0045
Venus	56534-12-07 02:24 G	22370019.39	22370019.60	22370019.82	0.0138	0.0014
Venus	56535-07-21 10:05 G	22370245.71	22370245.92	22370246.14	0.0137	0.0018
Venus	56536-03-03 17:31 G	22370472.03	22370472.23	22370472.44	0.0137	0.0048
Venus	56536-10-16 00:43 G	22370698.36	22370698.53	22370698.71	0.0137	0.0079
Venus	56537-05-30 07:41 G	22370924.71	22370924.82	22370924.97	0.0137	0.0110
Earth	56540-10-18 23:46 G	22372162.34	22372162.49	22372162.69	0.0136	0.0098
Moon	56540-10-19 02:53 G	22372162.46	22372162.62	22372162.79	0.0136	0.0104 *
Moon	56541-10-23 06:29 G	22372531.53	22372531.77	22372532.01	0.0135	0.0032
Earth	56541-10-23 09:22 G	22372531.66	22372531.89	22372532.14	0.0135	0.0039 *
Earth	56542-10-27 18:14 G	22372901.01	22372901.26	22372901.51	0.0135	0.0020
Moon	56542-10-27 21:07 G	22372901.13	22372901.38	22372901.64	0.0135	0.0015 *
Moon	56543-10-31 23:02 G	22373270.28	22373270.46	22373270.67	0.0135	0.0081
Earth	56543-11-01 02:10 G	22373270.40	22373270.59	22373270.81	0.0135	0.0078 *
Mercury	56572-07-28 07:55 G	22383767.81	22383767.83	22383767.86	0.0138	0.0135
Mercury	56572-10-24 11:17 G	22383855.90	22383855.97	22383856.05	0.0138	0.0114
Mercury	56573-01-20 14:38 G	22383944.02	22383944.11	22383944.21	0.0138	0.0094
Mercury	56573-04-18 18:00 G	22384032.14	22384032.25	22384032.37	0.0139	0.0073
Mercury	56573-07-15 21:22 G	22384120.27	22384120.39	22384120.52	0.0139	0.0053
Mercury	56573-10-12 00:43 G	22384208.40	22384208.53	22384208.66	0.0139	0.0032
Mercury	56574-01-08 04:05 G	22384296.54	22384296.67	22384296.80	0.0139	0.0012

Mercury	56574-04-06 07:26 G	22384384.67	22384384.81	22384384.94	0.0139	0.0009
Mercury	56574-07-03 10:34 G	22384472.81	22384472.94	22384473.07	0.0139	0.0029
Mercury	56574-09-29 13:55 G	22384560.96	22384561.08	22384561.20	0.0139	0.0050
Mercury	56574-12-26 17:02 G	22384649.11	22384649.21	22384649.33	0.0139	0.0070
Mercury	56575-03-24 20:24 G	22384737.26	22384737.35	22384737.45	0.0139	0.0090
Mercury	56575-06-20 23:46 G	22384825.41	22384825.49	22384825.57	0.0139	0.0111
Mercury	56575-09-17 02:53 G	22384913.59	22384913.62	22384913.67	0.0139	0.0131
Venus	56576-06-09 16:34 G	22385180.16	22385180.19	22385180.25	0.0140	0.0136
Venus	56577-01-22 02:10 G	22385406.44	22385406.59	22385406.73	0.0140	0.0103
Venus	56577-09-05 11:02 G	22385632.78	22385632.96	22385633.16	0.0140	0.0071
Venus	56578-04-19 20:38 G	22385859.15	22385859.36	22385859.57	0.0140	0.0038
Venus	56578-12-02 06:14 G	22386085.54	22386085.76	22386085.97	0.0141	0.0005
Venus	56579-07-16 15:50 G	22386311.95	22386312.16	22386312.37	0.0141	0.0030
Venus	56580-02-28 01:26 G	22386538.38	22386538.56	22386538.77	0.0141	0.0064
Venus	56580-10-11 11:46 G	22386764.83	22386764.99	22386765.14	0.0141	0.0098
Venus	56581-05-25 21:36 G	22386991.33	22386991.40	22386991.49	0.0141	0.0132
Earth	56584-04-17 21:50 G	22388049.24	22388049.41	22388049.61	0.0142	0.0098
Moon	56584-04-18 00:58 G	22388049.35	22388049.54	22388049.74	0.0142	0.0096 *
Moon	56585-04-22 18:29 G	22388419.04	22388419.27	22388419.53	0.0143	0.0034
Earth	56585-04-22 21:07 G	22388419.14	22388419.38	22388419.64	0.0143	0.0029 *
Earth	56586-04-27 20:53 G	22388789.13	22388789.37	22388789.62	0.0143	0.0042
Moon	56586-04-28 00:14 G	22388789.28	22388789.51	22388789.77	0.0143	0.0050 *
Moon	56587-05-02 17:31 G	22389159.08	22389159.23	22389159.42	0.0143	0.0105
Earth	56587-05-02 21:07 G	22389159.24	22389159.38	22389159.55	0.0143	0.0113 *
Mars	56599-09-16 13:26 G	22393678.83	22393679.06	22393679.33	0.0144	0.0068
Mercury	56613-02-21 10:34 G	22398584.93	22398584.94	22398584.99	0.0140	0.0138
Mercury	56613-05-20 18:29 G	22398673.16	22398673.27	22398673.40	0.0140	0.0108
Mercury	56613-08-17 02:10 G	22398761.44	22398761.59	22398761.76	0.0140	0.0078
Mercury	56613-11-13 10:05 G	22398849.74	22398849.92	22398850.10	0.0139	0.0048
Mercury	56614-02-09 17:46 G	22398938.05	22398938.24	22398938.43	0.0139	0.0018

Mercury	56614-05-09 01:26 G	22399026.37	22399026.56	22399026.75	0.0139	0.0013
Mercury	56614-08-05 09:07 G	22399114.70	22399114.88	22399115.07	0.0139	0.0043
Mercury	56614-11-01 16:48 G	22399203.05	22399203.20	22399203.37	0.0139	0.0073
Mercury	56615-01-29 00:29 G	22399291.41	22399291.52	22399291.66	0.0139	0.0103
Mercury	56615-04-27 08:24 G	22399379.81	22399379.85	22399379.91	0.0139	0.0133
Venus	56616-09-27 11:02 G	22399898.86	22399898.96	22399899.06	0.0138	0.0123
Venus	56617-05-11 18:43 G	22400125.13	22400125.28	22400125.46	0.0138	0.0091
Venus	56617-12-24 02:53 G	22400351.43	22400351.62	22400351.82	0.0138	0.0059
Venus	56618-08-07 10:48 G	22400577.74	22400577.95	22400578.16	0.0138	0.0028
Venus	56619-03-21 18:29 G	22400804.05	22400804.27	22400804.49	0.0138	0.0004
Venus	56619-11-03 01:41 G	22401030.37	22401030.57	22401030.79	0.0137	0.0036
Venus	56620-06-16 09:07 G	22401256.70	22401256.88	22401257.09	0.0137	0.0067
Venus	56621-01-28 16:34 G	22401483.05	22401483.19	22401483.35	0.0137	0.0097
Venus	56621-09-11 23:46 G	22401709.42	22401709.49	22401709.58	0.0137	0.0127
Earth	56624-10-20 10:05 G	22402843.75	22402843.92	22402844.12	0.0136	0.0094
Moon	56624-10-20 12:58 G	22402843.85	22402844.04	22402844.25	0.0136	0.0086 *
Moon	56625-10-24 17:17 G	22403213.00	22403213.22	22403213.47	0.0135	0.0042
Earth	56625-10-24 19:41 G	22403213.08	22403213.32	22403213.57	0.0135	0.0035 *
Earth	56626-10-29 04:05 G	22403582.43	22403582.67	22403582.92	0.0135	0.0024
Moon	56626-10-29 06:43 G	22403582.54	22403582.78	22403583.04	0.0135	0.0030 *
Moon	56627-11-02 09:22 G	22403951.70	22403951.89	22403952.10	0.0135	0.0078
Earth	56627-11-02 12:00 G	22403951.82	22403952.00	22403952.22	0.0135	0.0082 *
Mercury	56656-08-18 14:53 G	22414469.08	22414469.12	22414469.16	0.0138	0.0131
Mercury	56656-11-14 18:14 G	22414557.18	22414557.26	22414557.34	0.0138	0.0110
Mercury	56657-02-10 21:36 G	22414645.30	22414645.40	22414645.50	0.0138	0.0090
Mercury	56657-05-10 00:58 G	22414733.43	22414733.54	22414733.66	0.0138	0.0069
Mercury	56657-08-06 04:19 G	22414821.56	22414821.68	22414821.80	0.0139	0.0049
Mercury	56657-11-02 07:41 G	22414909.69	22414909.82	22414909.95	0.0139	0.0029
Mercury	56658-01-29 11:02 G	22414997.82	22414997.96	22414998.09	0.0139	0.0009
Mercury	56658-04-27 14:10 G	22415085.96	22415086.09	22415086.23	0.0139	0.0013

Mercury	56658-07-24 17:31 G	22415174.10	22415174.23	22415174.36	0.0139	0.0033
Mercury	56658-10-20 20:53 G	22415262.25	22415262.37	22415262.49	0.0139	0.0053
Mercury	56659-01-17 00:00 G	22415350.39	22415350.50	22415350.62	0.0139	0.0074
Mercury	56659-04-15 03:22 G	22415438.55	22415438.64	22415438.74	0.0139	0.0094
Mercury	56659-07-12 06:29 G	22415526.71	22415526.77	22415526.85	0.0139	0.0115
Mercury	56659-10-08 09:50 G	22415614.89	22415614.91	22415614.95	0.0139	0.0135
Venus	56660-09-22 08:10 G	22415964.74	22415964.84	22415964.97	0.0140	0.0119
Venus	56661-05-06 17:31 G	22416191.07	22416191.23	22416191.41	0.0140	0.0086
Venus	56661-12-19 02:53 G	22416417.43	22416417.62	22416417.83	0.0140	0.0053
Venus	56662-08-02 12:29 G	22416643.81	22416644.02	22416644.24	0.0140	0.0020
Venus	56663-03-16 22:05 G	22416870.20	22416870.42	22416870.64	0.0141	0.0014
Venus	56663-10-29 07:41 G	22417096.62	22417096.82	22417097.03	0.0141	0.0048
Venus	56664-06-11 17:31 G	22417323.06	22417323.23	22417323.42	0.0141	0.0082
Venus	56665-01-24 03:36 G	22417549.54	22417549.65	22417549.79	0.0141	0.0116
Earth	56668-04-19 05:46 G	22418730.55	22418730.74	22418730.93	0.0142	0.0095
Moon	56668-04-19 07:26 G	22418730.62	22418730.81	22418731.01	0.0142	0.0095 *
Moon	56669-04-24 02:24 G	22419100.35	22419100.60	22419100.85	0.0143	0.0021
Earth	56669-04-24 04:48 G	22419100.45	22419100.70	22419100.96	0.0143	0.0026 *
Earth	56670-04-29 04:19 G	22419470.45	22419470.68	22419470.93	0.0143	0.0045
Moon	56670-04-29 07:12 G	22419470.55	22419470.80	22419471.05	0.0143	0.0037 *
Moon	56671-05-04 00:58 G	22419840.43	22419840.54	22419840.69	0.0143	0.0122
Earth	56671-05-04 04:48 G	22419840.55	22419840.70	22419840.85	0.0143	0.0115 *
Mars	56684-05-12 07:12 G	22424597.66	22424597.80	22424597.99	0.0144	0.0117
Mercury	56697-03-13 17:17 G	22429286.17	22429286.22	22429286.30	0.0140	0.0132
Mercury	56697-06-10 01:12 G	22429374.42	22429374.55	22429374.68	0.0140	0.0102
Mercury	56697-09-06 08:53 G	22429462.71	22429462.87	22429463.04	0.0140	0.0072
Mercury	56697-12-03 16:34 G	22429551.01	22429551.19	22429551.38	0.0139	0.0042
Mercury	56698-03-02 00:14 G	22429639.32	22429639.51	22429639.71	0.0139	0.0012
Mercury	56698-05-29 07:55 G	22429727.65	22429727.83	22429728.03	0.0139	0.0019
Mercury	56698-08-25 15:50 G	22429815.98	22429816.16	22429816.34	0.0139	0.0048

Mercury	56698-11-21 23:31 G	22429904.32	22429904.48	22429904.64	0.0139	0.0078
Mercury	56699-02-18 06:58 G	22429992.69	22429992.79	22429992.93	0.0139	0.0109
Mercury	56699-05-17 14:53 G	22430081.12	22430081.12	22430081.14	0.0139	0.0139
Venus	56700-05-28 18:00 G	22430457.24	22430457.25	22430457.28	0.0139	0.0138
Venus	56701-01-10 01:55 G	22430683.46	22430683.58	22430683.74	0.0138	0.0107
Venus	56701-08-24 10:19 G	22430909.75	22430909.93	22430910.12	0.0138	0.0074
Venus	56702-04-07 18:00 G	22431136.06	22431136.25	22431136.47	0.0138	0.0043
Venus	56702-11-20 02:10 G	22431362.37	22431362.59	22431362.80	0.0138	0.0011
Venus	56703-07-04 09:50 G	22431588.69	22431588.91	22431589.13	0.0137	0.0021
Venus	56704-02-15 17:02 G	22431815.02	22431815.21	22431815.43	0.0137	0.0053
Venus	56704-09-29 00:29 G	22432041.36	22432041.52	22432041.70	0.0137	0.0083
Venus	56705-05-13 07:26 G	22432267.71	22432267.81	22432267.95	0.0137	0.0114
Earth	56708-10-21 19:26 G	22433525.13	22433525.31	22433525.51	0.0136	0.0090
Moon	56708-10-21 20:53 G	22433525.20	22433525.37	22433525.57	0.0136	0.0096 *
Moon	56709-10-26 02:38 G	22433894.37	22433894.61	22433894.85	0.0136	0.0024
Earth	56709-10-26 04:34 G	22433894.45	22433894.69	22433894.95	0.0136	0.0032 *
Earth	56710-10-30 13:12 G	22434263.81	22434264.05	22434264.30	0.0135	0.0027
Moon	56710-10-30 15:07 G	22434263.88	22434264.13	22434264.39	0.0135	0.0021 *
Moon	56711-11-03 18:43 G	22434633.12	22434633.28	22434633.48	0.0135	0.0089
Earth	56711-11-03 20:53 G	22434633.19	22434633.37	22434633.58	0.0135	0.0085 *
Mars	56726-09-21 09:50 G	22440068.58	22440068.91	22440069.24	0.0134	0.0017
Mercury	56740-09-08 21:36 G	22445170.36	22445170.40	22445170.46	0.0138	0.0127
Mercury	56740-12-06 01:12 G	22445258.46	22445258.55	22445258.63	0.0138	0.0107
Mercury	56741-03-04 04:19 G	22445346.58	22445346.68	22445346.79	0.0138	0.0086
Mercury	56741-05-31 07:55 G	22445434.71	22445434.83	22445434.94	0.0138	0.0066
Mercury	56741-08-27 11:02 G	22445522.84	22445522.96	22445523.09	0.0139	0.0046
Mercury	56741-11-23 14:24 G	22445610.97	22445611.10	22445611.23	0.0139	0.0025
Mercury	56742-02-19 17:46 G	22445699.11	22445699.24	22445699.37	0.0139	0.0005
Mercury	56742-05-18 21:07 G	22445787.25	22445787.38	22445787.51	0.0139	0.0016
Mercury	56742-08-15 00:29 G	22445875.39	22445875.52	22445875.65	0.0139	0.0037

Mercury	56742-11-11 03:36 G	22445963.54	22445963.65	22445963.78	0.0139	0.0057
Mercury	56743-02-07 06:58 G	22446051.68	22446051.79	22446051.90	0.0139	0.0077
Mercury	56743-05-06 10:05 G	22446139.84	22446139.92	22446140.02	0.0139	0.0098
Mercury	56743-08-02 13:26 G	22446228.00	22446228.06	22446228.14	0.0139	0.0118
Mercury	56743-10-29 16:48 G	22446316.19	22446316.20	22446316.22	0.0139	0.0139
Venus	56744-05-23 15:07 G	22446523.08	22446523.13	22446523.19	0.0140	0.0134
Venus	56745-01-05 00:00 G	22446749.37	22446749.50	22446749.67	0.0140	0.0102
Venus	56745-08-19 09:22 G	22446975.71	22446975.89	22446976.09	0.0140	0.0069
Venus	56746-04-02 18:58 G	22447202.08	22447202.29	22447202.50	0.0140	0.0035
Venus	56746-11-15 04:34 G	22447428.47	22447428.69	22447428.91	0.0140	0.0002
Venus	56747-06-29 14:10 G	22447654.88	22447655.09	22447655.31	0.0141	0.0032
Venus	56748-02-11 00:00 G	22447881.32	22447881.50	22447881.70	0.0141	0.0066
Venus	56748-09-24 10:05 G	22448107.77	22448107.92	22448108.08	0.0141	0.0100
Venus	56749-05-08 19:55 G	22448334.28	22448334.33	22448334.41	0.0141	0.0135
Earth	56752-04-20 13:41 G	22449411.89	22449412.07	22449412.29	0.0142	0.0092
Moon	56752-04-20 15:36 G	22449411.95	22449412.15	22449412.35	0.0142	0.0091 *
Moon	56753-04-25 11:46 G	22449781.74	22449781.99	22449782.23	0.0143	0.0025
Earth	56753-04-25 13:12 G	22449781.79	22449782.05	22449782.30	0.0143	0.0022 *
Earth	56754-04-30 12:29 G	22450151.79	22450152.02	22450152.27	0.0143	0.0048
Moon	56754-04-30 15:07 G	22450151.90	22450152.13	22450152.38	0.0143	0.0055 *
Moon	56755-05-05 09:50 G	22450521.77	22450521.91	22450522.09	0.0143	0.0111
Earth	56755-05-05 12:29 G	22450521.89	22450522.02	22450522.18	0.0143	0.0118 *
Mercury	56781-04-04 00:00 G	22459987.43	22459987.50	22459987.58	0.0140	0.0126
Mercury	56781-07-01 07:26 G	22460075.69	22460075.81	22460075.96	0.0140	0.0097
Mercury	56781-09-27 15:07 G	22460163.97	22460164.13	22460164.31	0.0140	0.0067
Mercury	56781-12-24 23:02 G	22460252.28	22460252.46	22460252.65	0.0139	0.0037
Mercury	56782-03-23 06:43 G	22460340.59	22460340.78	22460340.97	0.0139	0.0007
Mercury	56782-06-19 14:24 G	22460428.92	22460429.10	22460429.29	0.0139	0.0024
Mercury	56782-09-15 22:19 G	22460517.25	22460517.43	22460517.60	0.0139	0.0054
Mercury	56782-12-13 05:46 G	22460605.60	22460605.74	22460605.90	0.0139	0.0084

Mercury	56783-03-11 13:26 G	22460693.97	22460694.06	22460694.18	0.0139	0.0114
Venus	56784-09-09 09:36 G	22461241.80	22461241.90	22461242.00	0.0138	0.0121
Venus	56785-04-23 17:17 G	22461468.07	22461468.22	22461468.40	0.0138	0.0090
Venus	56785-12-06 01:26 G	22461694.37	22461694.56	22461694.77	0.0138	0.0057
Venus	56786-07-20 09:36 G	22461920.69	22461920.90	22461921.12	0.0138	0.0026
Venus	56787-03-03 17:17 G	22462147.01	22462147.22	22462147.44	0.0138	0.0007
Venus	56787-10-16 00:58 G	22462373.33	22462373.54	22462373.75	0.0137	0.0037
Venus	56788-05-29 08:24 G	22462599.66	22462599.85	22462600.04	0.0137	0.0069
Venus	56789-01-10 15:50 G	22462826.01	22462826.16	22462826.31	0.0137	0.0099
Venus	56789-08-24 23:02 G	22463052.40	22463052.46	22463052.53	0.0137	0.0130
Earth	56792-10-22 04:19 G	22464206.49	22464206.68	22464206.88	0.0136	0.0086
Moon	56792-10-22 05:31 G	22464206.53	22464206.73	22464206.96	0.0136	0.0080 *
Moon	56793-10-26 12:29 G	22464575.79	22464576.02	22464576.26	0.0136	0.0035
Earth	56793-10-26 13:26 G	22464575.82	22464576.06	22464576.31	0.0136	0.0028 *
Earth	56794-10-30 22:05 G	22464945.17	22464945.42	22464945.66	0.0135	0.0031
Moon	56794-10-30 23:31 G	22464945.23	22464945.48	22464945.74	0.0135	0.0037 *
Moon	56795-11-04 04:19 G	22465314.50	22465314.68	22465314.88	0.0135	0.0083
Earth	56795-11-04 05:46 G	22465314.57	22465314.74	22465314.95	0.0135	0.0089 *
Mercury	56824-09-29 04:48 G	22475871.64	22475871.70	22475871.76	0.0138	0.0123
Mercury	56824-12-26 08:10 G	22475959.75	22475959.84	22475959.93	0.0138	0.0102
Mercury	56825-03-24 11:31 G	22476047.87	22476047.98	22476048.09	0.0138	0.0082
Mercury	56825-06-20 14:53 G	22476136.00	22476136.12	22476136.24	0.0139	0.0061
Mercury	56825-09-16 18:14 G	22476224.13	22476224.26	22476224.39	0.0139	0.0041
Mercury	56825-12-13 21:36 G	22476312.27	22476312.40	22476312.53	0.0139	0.0020
Mercury	56826-03-12 00:58 G	22476400.40	22476400.54	22476400.67	0.0139	0.0004
Mercury	56826-06-08 04:05 G	22476488.54	22476488.67	22476488.81	0.0139	0.0021
Mercury	56826-09-04 07:26 G	22476576.69	22476576.81	22476576.94	0.0139	0.0041
Mercury	56826-12-01 10:34 G	22476664.83	22476664.94	22476665.07	0.0139	0.0063
Mercury	56827-02-27 13:55 G	22476752.98	22476753.08	22476753.19	0.0139	0.0082
Mercury	56827-05-26 17:17 G	22476841.14	22476841.22	22476841.31	0.0139	0.0103

Mercury	56827-08-22 20:38 G	22476929.30	22476929.36	22476929.42	0.0139	0.0123
Venus	56828-09-04 07:12 G	22477307.70	22477307.80	22477307.94	0.0140	0.0117
Venus	56829-04-18 16:34 G	22477534.03	22477534.19	22477534.38	0.0140	0.0084
Venus	56829-12-01 02:10 G	22477760.39	22477760.59	22477760.80	0.0140	0.0050
Venus	56830-07-15 11:46 G	22477986.77	22477986.99	22477987.21	0.0140	0.0017
Venus	56831-02-26 21:22 G	22478213.18	22478213.39	22478213.61	0.0141	0.0017
Venus	56831-10-11 06:58 G	22478439.60	22478439.79	22478440.00	0.0141	0.0051
Venus	56832-05-24 16:48 G	22478666.04	22478666.20	22478666.39	0.0141	0.0085
Venus	56833-01-06 02:53 G	22478892.52	22478892.62	22478892.75	0.0141	0.0119
Earth	56836-04-20 23:02 G	22480093.26	22480093.46	22480093.66	0.0142	0.0087
Moon	56836-04-20 23:02 G	22480093.26	22480093.46	22480093.68	0.0142	0.0085 *
Moon	56837-04-25 20:38 G	22480463.12	22480463.36	22480463.61	0.0143	0.0015
Earth	56837-04-25 22:05 G	22480463.17	22480463.42	22480463.68	0.0143	0.0018 *
Earth	56838-04-30 21:22 G	22480833.16	22480833.39	22480833.64	0.0143	0.0052
Moon	56838-04-30 22:48 G	22480833.21	22480833.45	22480833.71	0.0143	0.0046 *
Moon	56839-05-05 18:58 G	22481203.20	22481203.29	22481203.41	0.0143	0.0129
Earth	56839-05-05 21:36 G	22481203.27	22481203.40	22481203.54	0.0143	0.0122 *
Mars	56851-09-30 15:36 G	22485733.88	22485734.15	22485734.44	0.0144	0.0029
Mercury	56865-04-24 06:14 G	22490688.69	22490688.76	22490688.87	0.0140	0.0121
Mercury	56865-07-21 14:10 G	22490776.95	22490777.09	22490777.24	0.0140	0.0091
Mercury	56865-10-17 21:50 G	22490865.24	22490865.41	22490865.59	0.0140	0.0061
Mercury	56866-01-14 05:31 G	22490953.55	22490953.73	22490953.92	0.0139	0.0031
Mercury	56866-04-12 13:26 G	22491041.86	22491042.06	22491042.25	0.0139	0.0003
Mercury	56866-07-09 20:53 G	22491130.19	22491130.37	22491130.57	0.0139	0.0030
Mercury	56866-10-06 04:48 G	22491218.53	22491218.70	22491218.87	0.0139	0.0059
Mercury	56867-01-02 12:29 G	22491306.88	22491307.02	22491307.17	0.0139	0.0089
Mercury	56867-03-31 20:24 G	22491395.25	22491395.35	22491395.44	0.0139	0.0119
Venus	56868-05-09 16:34 G	22491800.16	22491800.19	22491800.25	0.0139	0.0136
Venus	56868-12-22 00:58 G	22492026.40	22492026.54	22492026.69	0.0138	0.0104
Venus	56869-08-05 08:53 G	22492252.70	22492252.87	22492253.07	0.0138	0.0072

Venus	56870-03-19 17:02 G	22492479.01	22492479.21	22492479.43	0.0138	0.0040
Venus	56870-11-01 00:58 G	22492705.32	22492705.54	22492705.76	0.0138	0.0008
Venus	56871-06-15 08:38 G	22492931.65	22492931.86	22492932.08	0.0137	0.0024
Venus	56872-01-27 16:05 G	22493157.98	22493158.17	22493158.38	0.0137	0.0055
Venus	56872-09-09 23:31 G	22493384.33	22493384.48	22493384.66	0.0137	0.0086
Venus	56873-04-24 06:43 G	22493610.69	22493610.78	22493610.91	0.0137	0.0117
Moon	56876-10-22 12:43 G	22494887.85	22494888.03	22494888.25	0.0136	0.0088
Earth	56876-10-22 12:43 G	22494887.85	22494888.03	22494888.25	0.0136	0.0083 *
Moon	56877-10-26 21:07 G	22495257.14	22495257.38	22495257.63	0.0136	0.0018
Earth	56877-10-26 21:50 G	22495257.17	22495257.41	22495257.67	0.0136	0.0025 *
Earth	56878-10-31 06:29 G	22495626.53	22495626.77	22495627.02	0.0135	0.0034
Moon	56878-10-31 06:58 G	22495626.54	22495626.79	22495627.05	0.0135	0.0027 *
Moon	56879-11-04 13:26 G	22495995.91	22495996.06	22495996.24	0.0135	0.0096
Earth	56879-11-04 14:10 G	22495995.92	22495996.09	22495996.29	0.0135	0.0091 *
Mars	56894-02-06 00:58 G	22501203.40	22501203.54	22501203.71	0.0134	0.0119
Mercury	56908-10-20 11:46 G	22506572.93	22506572.99	22506573.06	0.0138	0.0119
Mercury	56909-01-16 15:07 G	22506661.04	22506661.13	22506661.23	0.0138	0.0098
Mercury	56909-04-14 18:29 G	22506749.16	22506749.27	22506749.38	0.0139	0.0078
Mercury	56909-07-11 21:50 G	22506837.29	22506837.41	22506837.53	0.0139	0.0057
Mercury	56909-10-08 01:12 G	22506925.42	22506925.55	22506925.68	0.0139	0.0037
Mercury	56910-01-04 04:34 G	22507013.56	22507013.69	22507013.82	0.0139	0.0016
Mercury	56910-04-02 07:55 G	22507101.70	22507101.83	22507101.96	0.0139	0.0004
Mercury	56910-06-29 11:17 G	22507189.84	22507189.97	22507190.10	0.0139	0.0025
Mercury	56910-09-25 14:24 G	22507277.98	22507278.10	22507278.23	0.0139	0.0046
Mercury	56910-12-22 17:46 G	22507366.13	22507366.24	22507366.36	0.0139	0.0066
Mercury	56911-03-20 21:07 G	22507454.28	22507454.38	22507454.48	0.0139	0.0086
Mercury	56911-06-17 00:14 G	22507542.44	22507542.51	22507542.60	0.0139	0.0107
Mercury	56911-09-13 03:36 G	22507630.61	22507630.65	22507630.71	0.0139	0.0127
Venus	56912-05-05 14:38 G	22507866.05	22507866.11	22507866.20	0.0140	0.0131
Venus	56912-12-18 00:00 G	22508092.36	22508092.50	22508092.67	0.0140	0.0098

Venus	56913-08-01 09:22 G	22508318.71	22508318.89	22508319.09	0.0140	0.0065
Venus	56914-03-15 18:58 G	22508545.08	22508545.29	22508545.50	0.0140	0.0032
Venus	56914-10-28 04:34 G	22508771.47	22508771.69	22508771.91	0.0140	0.0002
Venus	56915-06-11 14:24 G	22508997.89	22508998.10	22508998.31	0.0141	0.0036
Venus	56916-01-24 00:14 G	22509224.32	22509224.51	22509224.70	0.0141	0.0070
Venus	56916-09-06 10:05 G	22509450.78	22509450.92	22509451.07	0.0141	0.0104
Venus	56917-04-20 19:55 G	22509677.31	22509677.33	22509677.39	0.0141	0.0139
Moon	56920-04-22 08:10 G	22510774.65	22510774.84	22510775.07	0.0142	0.0085
Earth	56920-04-22 08:24 G	22510774.65	22510774.85	22510775.07	0.0142	0.0083 *
Earth	56921-04-27 07:41 G	22511144.56	22511144.82	22511145.07	0.0143	0.0014
Moon	56921-04-27 07:41 G	22511144.57	22511144.82	22511145.06	0.0143	0.0015 *
Earth	56922-05-02 06:58 G	22511514.57	22511514.79	22511515.04	0.0143	0.0056
Moon	56922-05-02 08:24 G	22511514.62	22511514.85	22511515.10	0.0143	0.0062 *
Moon	56923-05-07 06:00 G	22511884.62	22511884.75	22511884.89	0.0143	0.0119
Earth	56923-05-07 06:58 G	22511884.69	22511884.79	22511884.93	0.0143	0.0127 *
Mercury	56949-05-15 13:41 G	22521389.97	22521390.07	22521390.19	0.0140	0.0113
Mercury	56949-08-11 21:07 G	22521478.24	22521478.38	22521478.54	0.0140	0.0084
Mercury	56949-11-08 05:02 G	22521566.53	22521566.71	22521566.89	0.0140	0.0053
Mercury	56950-02-04 12:43 G	22521654.84	22521655.03	22521655.22	0.0139	0.0024
Mercury	56950-05-03 20:24 G	22521743.16	22521743.35	22521743.54	0.0139	0.0006
Mercury	56950-07-31 04:05 G	22521831.49	22521831.67	22521831.86	0.0139	0.0036
Mercury	56950-10-27 11:46 G	22521919.82	22521919.99	22521920.16	0.0139	0.0066
Mercury	56951-01-23 19:41 G	22522008.18	22522008.32	22522008.45	0.0139	0.0097
Mercury	56951-04-22 02:53 G	22522096.56	22522096.62	22522096.72	0.0139	0.0127
Venus	56952-08-22 09:07 G	22522584.78	22522584.88	22522585.00	0.0138	0.0117
Venus	56953-04-05 17:17 G	22522811.06	22522811.22	22522811.40	0.0138	0.0085
Venus	56953-11-18 01:26 G	22523037.36	22523037.56	22523037.76	0.0138	0.0053
Venus	56954-07-02 09:22 G	22523263.68	22523263.89	22523264.11	0.0138	0.0022
Venus	56955-02-13 17:17 G	22523490.00	22523490.22	22523490.44	0.0138	0.0010
Venus	56955-09-28 00:58 G	22523716.33	22523716.54	22523716.75	0.0137	0.0041

Venus	56956-05-11 08:10 G	22523942.67	22523942.84	22523943.03	0.0137	0.0073
Venus	56956-12-23 15:22 G	22524169.02	22524169.14	22524169.30	0.0137	0.0104
Venus	56957-08-06 23:02 G	22524395.43	22524395.46	22524395.51	0.0137	0.0134
Moon	56960-10-23 22:19 G	22525569.22	22525569.43	22525569.66	0.0136	0.0074
Earth	56960-10-23 22:34 G	22525569.24	22525569.44	22525569.65	0.0136	0.0079 *
Earth	56961-10-28 07:41 G	22525938.57	22525938.82	22525939.07	0.0136	0.0021
Moon	56961-10-28 07:55 G	22525938.60	22525938.83	22525939.08	0.0136	0.0028 *
Moon	56962-11-01 16:05 G	22526307.93	22526308.17	22526308.42	0.0135	0.0044
Earth	56962-11-01 15:50 G	22526307.93	22526308.16	22526308.41	0.0135	0.0037 *
Moon	56963-11-06 00:00 G	22526677.31	22526677.50	22526677.68	0.0135	0.0089
Earth	56963-11-06 00:00 G	22526677.32	22526677.50	22526677.68	0.0135	0.0094 *
Mars	56978-10-03 11:02 G	22532122.68	22532122.96	22532123.27	0.0135	0.0065
Mercury	56992-08-13 15:22 G	22537186.12	22537186.14	22537186.18	0.0138	0.0135
Mercury	56992-11-09 18:58 G	22537274.22	22537274.29	22537274.37	0.0138	0.0114
Mercury	56993-02-05 22:19 G	22537362.33	22537362.43	22537362.53	0.0138	0.0093
Mercury	56993-05-05 01:41 G	22537450.46	22537450.57	22537450.69	0.0139	0.0073
Mercury	56993-08-01 05:02 G	22537538.59	22537538.71	22537538.83	0.0139	0.0052
Mercury	56993-10-28 08:24 G	22537626.72	22537626.85	22537626.98	0.0139	0.0032
Mercury	56994-01-24 11:46 G	22537714.86	22537714.99	22537715.12	0.0139	0.0011
Mercury	56994-04-22 15:07 G	22537803.00	22537803.13	22537803.26	0.0139	0.0010
Mercury	56994-07-19 18:14 G	22537891.14	22537891.26	22537891.40	0.0139	0.0030
Mercury	56994-10-15 21:36 G	22537979.28	22537979.40	22537979.53	0.0139	0.0050
Mercury	56995-01-12 00:58 G	22538067.43	22538067.54	22538067.65	0.0139	0.0071
Mercury	56995-04-10 04:19 G	22538155.58	22538155.68	22538155.78	0.0139	0.0091
Mercury	56995-07-07 07:41 G	22538243.74	22538243.82	22538243.89	0.0139	0.0112
Mercury	56995-10-03 10:48 G	22538331.92	22538331.95	22538331.99	0.0139	0.0132
Venus	56996-08-17 07:41 G	22538650.70	22538650.82	22538650.96	0.0140	0.0112
Venus	56997-03-31 17:02 G	22538877.03	22538877.21	22538877.39	0.0140	0.0079
Venus	56997-11-13 02:10 G	22539103.40	22539103.59	22539103.81	0.0140	0.0046
Venus	56998-06-27 12:00 G	22539329.78	22539330.00	22539330.22	0.0140	0.0012

Venus	56999-02-08 21:36 G	22539556.19	22539556.40	22539556.62	0.0141	0.0022
Venus	56999-09-23 07:12 G	22539782.61	22539782.80	22539783.01	0.0141	0.0056
Venus	57000-05-07 17:02 G	22540009.06	22540009.21	22540009.39	0.0141	0.0090
Venus	57000-12-20 03:07 G	22540235.54	22540235.63	22540235.75	0.0141	0.0124

58TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 58th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	57004-04-23 16:48 G		22541455.99	22541456.20	22541456.44	0.0142	0.0075	
Earth	57004-04-23 18:14 G		22541456.05	22541456.26	22541456.48	0.0142	0.0079	*
Earth	57005-04-28 17:31 G		22541825.97	22541826.23	22541826.49	0.0143	0.0010	
Moon	57005-04-28 17:31 G		22541825.98	22541826.23	22541826.48	0.0143	0.0008	*
Moon	57006-05-03 17:02 G		22542195.97	22542196.21	22542196.46	0.0143	0.0055	
Earth	57006-05-03 17:02 G		22542195.99	22542196.21	22542196.45	0.0143	0.0060	*
Moon	57007-05-08 15:50 G		22542566.11	22542566.16	22542566.24	0.0143	0.0137	
Earth	57007-05-08 16:48 G		22542566.12	22542566.20	22542566.33	0.0143	0.0130	*
Mercury	57033-03-09 13:41 G		22552003.02	22552003.07	22552003.12	0.0140	0.0134	
Mercury	57033-06-05 20:53 G		22552091.26	22552091.37	22552091.51	0.0140	0.0105	
Mercury	57033-09-02 04:48 G		22552179.54	22552179.70	22552179.86	0.0140	0.0075	
Mercury	57033-11-29 12:29 G		22552267.84	22552268.02	22552268.20	0.0139	0.0045	
Mercury	57034-02-25 20:10 G		22552356.15	22552356.34	22552356.53	0.0139	0.0015	
Mercury	57034-05-25 03:50 G		22552444.47	22552444.66	22552444.85	0.0139	0.0015	
Mercury	57034-08-21 11:31 G		22552532.80	22552532.98	22552533.16	0.0139	0.0045	

Mercury	57034-11-17 19:12 G	22552621.14	22552621.30	22552621.46	0.0139	0.0075
Mercury	57035-02-14 02:53 G	22552709.50	22552709.62	22552709.75	0.0139	0.0105
Mercury	57035-05-13 10:34 G	22552797.91	22552797.94	22552797.99	0.0139	0.0135
Venus	57036-04-22 17:46 G	22553143.19	22553143.24	22553143.33	0.0139	0.0131
Venus	57036-12-05 02:10 G	22553369.45	22553369.59	22553369.75	0.0138	0.0099
Venus	57037-07-19 10:34 G	22553595.75	22553595.94	22553596.13	0.0138	0.0066
Venus	57038-03-02 18:29 G	22553822.06	22553822.27	22553822.49	0.0138	0.0035
Venus	57038-10-15 02:24 G	22554048.38	22554048.60	22554048.82	0.0138	0.0003
Venus	57039-05-29 09:50 G	22554274.71	22554274.91	22554275.13	0.0137	0.0029
Venus	57040-01-10 17:31 G	22554501.04	22554501.23	22554501.43	0.0137	0.0060
Venus	57040-08-24 00:58 G	22554727.38	22554727.54	22554727.71	0.0137	0.0091
Venus	57041-04-07 08:10 G	22554953.75	22554953.84	22554953.94	0.0137	0.0122
Earth	57043-10-21 23:02 G	22555881.44	22555881.46	22555881.53	0.0136	0.0134
Moon	57043-10-22 00:14 G	22555881.47	22555881.51	22555881.58	0.0136	0.0132 *
Moon	57044-10-25 07:12 G	22556250.61	22556250.80	22556251.03	0.0136	0.0079
Earth	57044-10-25 08:38 G	22556250.67	22556250.86	22556251.09	0.0136	0.0076 *
Earth	57045-10-29 17:31 G	22556619.99	22556620.23	22556620.49	0.0135	0.0018
Moon	57045-10-29 18:14 G	22556620.02	22556620.26	22556620.50	0.0135	0.0011 *
Moon	57046-11-03 01:12 G	22556989.30	22556989.55	22556989.81	0.0135	0.0033
Earth	57046-11-03 02:10 G	22556989.35	22556989.59	22556989.83	0.0135	0.0041 *
Earth	57047-11-07 10:05 G	22557358.75	22557358.92	22557359.09	0.0135	0.0097
Moon	57047-11-07 10:05 G	22557358.79	22557358.92	22557359.10	0.0135	0.0104 *
Jupiter	57066-02-04 09:50 G	22564022.72	22564022.91	22564023.19	0.0135	0.0120
Mercury	57076-09-03 22:19 G	22567887.40	22567887.43	22567887.48	0.0138	0.0131
Mercury	57076-12-01 01:41 G	22567975.50	22567975.57	22567975.66	0.0138	0.0110
Mercury	57077-02-27 05:02 G	22568063.62	22568063.71	22568063.82	0.0138	0.0090
Mercury	57077-05-26 08:38 G	22568151.75	22568151.86	22568151.98	0.0139	0.0069
Mercury	57077-08-22 12:00 G	22568239.88	22568240.00	22568240.13	0.0139	0.0048
Mercury	57077-11-18 15:22 G	22568328.01	22568328.14	22568328.27	0.0139	0.0028
Mercury	57078-02-14 18:43 G	22568416.15	22568416.28	22568416.41	0.0139	0.0007

Mercury	57078-05-13 22:05 G	22568504.29	22568504.42	22568504.55	0.0139	0.0013
Mercury	57078-08-10 01:26 G	22568592.43	22568592.56	22568592.69	0.0139	0.0034
Mercury	57078-11-06 04:48 G	22568680.57	22568680.70	22568680.82	0.0139	0.0055
Mercury	57079-02-02 07:55 G	22568768.72	22568768.83	22568768.94	0.0139	0.0075
Mercury	57079-05-01 11:17 G	22568856.88	22568856.97	22568857.07	0.0139	0.0095
Mercury	57079-07-28 14:24 G	22568945.04	22568945.10	22568945.18	0.0139	0.0116
Mercury	57079-10-24 17:46 G	22569033.22	22569033.24	22569033.27	0.0139	0.0137
Venus	57080-04-17 14:24 G	22569209.03	22569209.10	22569209.21	0.0140	0.0127
Venus	57080-11-29 23:46 G	22569435.34	22569435.49	22569435.66	0.0140	0.0094
Venus	57081-07-14 09:07 G	22569661.69	22569661.88	22569662.09	0.0140	0.0061
Venus	57082-02-25 18:43 G	22569888.07	22569888.28	22569888.50	0.0140	0.0027
Venus	57082-10-10 04:19 G	22570114.46	22570114.68	22570114.90	0.0141	0.0007
Venus	57083-05-24 13:55 G	22570340.88	22570341.08	22570341.29	0.0141	0.0041
Venus	57084-01-05 23:46 G	22570567.32	22570567.49	22570567.68	0.0141	0.0075
Venus	57084-08-19 09:36 G	22570793.78	22570793.90	22570794.05	0.0141	0.0110
Moon	57087-04-20 06:14 G	22571767.72	22571767.76	22571767.85	0.0142	0.0137
Moon	57088-04-24 01:41 G	22572137.35	22572137.57	22572137.79	0.0143	0.0079
Earth	57088-04-24 02:53 G	22572137.42	22572137.62	22572137.85	0.0143	0.0076 *
Earth	57089-04-29 02:24 G	22572507.34	22572507.60	22572507.86	0.0143	0.0007
Moon	57089-04-29 03:36 G	22572507.41	22572507.65	22572507.90	0.0143	0.0007 *
Moon	57090-05-04 01:41 G	22572877.35	22572877.57	22572877.82	0.0143	0.0068
Earth	57090-05-04 01:55 G	22572877.36	22572877.58	22572877.82	0.0143	0.0063 *
Moon	57091-05-09 02:10 G	22573247.49	22573247.59	22573247.72	0.0143	0.0126
Earth	57091-05-09 02:10 G	22573247.52	22573247.59	22573247.70	0.0143	0.0134 *
Mars	57103-10-16 05:46 G	22577789.46	22577789.74	22577790.02	0.0144	0.0028
Mercury	57117-03-30 21:07 G	22582704.30	22582704.38	22582704.47	0.0140	0.0125
Mercury	57117-06-27 04:48 G	22582792.56	22582792.70	22582792.84	0.0140	0.0095
Mercury	57117-09-23 12:14 G	22582880.85	22582881.01	22582881.19	0.0140	0.0066
Mercury	57117-12-20 20:10 G	22582969.15	22582969.34	22582969.52	0.0139	0.0036
Mercury	57118-03-19 03:50 G	22583057.47	22583057.66	22583057.85	0.0139	0.0006

Mercury	57118-06-15 11:31 G	22583145.79	22583145.98	22583146.17	0.0139	0.0024
Mercury	57118-09-11 19:12 G	22583234.12	22583234.30	22583234.48	0.0139	0.0054
Mercury	57118-12-09 02:53 G	22583322.47	22583322.62	22583322.77	0.0139	0.0084
Mercury	57119-03-07 10:19 G	22583410.84	22583410.93	22583411.05	0.0139	0.0115
Venus	57120-08-05 11:31 G	22583927.87	22583927.98	22583928.12	0.0138	0.0112
Venus	57121-03-19 19:55 G	22584154.16	22584154.33	22584154.51	0.0138	0.0079
Venus	57121-11-01 04:05 G	22584380.46	22584380.67	22584380.87	0.0138	0.0047
Venus	57122-06-15 11:46 G	22584606.78	22584606.99	22584607.21	0.0138	0.0016
Venus	57123-01-27 19:41 G	22584833.11	22584833.32	22584833.54	0.0137	0.0016
Venus	57123-09-11 03:07 G	22585059.43	22585059.63	22585059.84	0.0137	0.0048
Venus	57124-04-24 10:34 G	22585285.77	22585285.94	22585286.12	0.0137	0.0079
Venus	57124-12-06 17:46 G	22585512.12	22585512.24	22585512.38	0.0137	0.0110
Earth	57127-10-23 10:34 G	22586562.88	22586562.94	22586563.03	0.0136	0.0129
Moon	57127-10-23 12:43 G	22586562.96	22586563.03	22586563.11	0.0136	0.0130 *
Moon	57128-10-26 18:29 G	22586932.06	22586932.27	22586932.51	0.0136	0.0067
Earth	57128-10-26 20:10 G	22586932.13	22586932.34	22586932.55	0.0136	0.0071 *
Earth	57129-10-31 04:48 G	22587301.45	22587301.70	22587301.96	0.0135	0.0013
Moon	57129-10-31 06:29 G	22587301.53	22587301.77	22587302.02	0.0135	0.0019 *
Moon	57130-11-04 11:46 G	22587670.76	22587670.99	22587671.25	0.0135	0.0051
Earth	57130-11-04 13:12 G	22587670.82	22587671.05	22587671.29	0.0135	0.0044 *
Earth	57131-11-08 20:38 G	22588040.22	22588040.36	22588040.55	0.0135	0.0102
Moon	57131-11-08 21:50 G	22588040.26	22588040.41	22588040.60	0.0135	0.0095 *
Mars	57146-02-20 04:05 G	22593257.40	22593257.67	22593257.97	0.0134	0.0070
Jupiter	57148-12-31 06:43 G	22594302.48	22594302.78	22594303.15	0.0135	0.0099
Mercury	57160-09-25 05:31 G	22598588.68	22598588.73	22598588.79	0.0138	0.0126
Mercury	57160-12-22 08:53 G	22598676.79	22598676.87	22598676.96	0.0138	0.0105
Mercury	57161-03-20 12:14 G	22598764.91	22598765.01	22598765.12	0.0138	0.0085
Mercury	57161-06-16 15:36 G	22598853.04	22598853.15	22598853.27	0.0139	0.0064
Mercury	57161-09-12 18:58 G	22598941.17	22598941.29	22598941.42	0.0139	0.0044
Mercury	57161-12-09 22:19 G	22599029.30	22599029.43	22599029.57	0.0139	0.0024

Mercury	57162-03-08 01:41 G	22599117.44	22599117.57	22599117.71	0.0139	0.0006
Mercury	57162-06-04 05:02 G	22599205.58	22599205.71	22599205.85	0.0139	0.0019
Mercury	57162-08-31 08:24 G	22599293.73	22599293.85	22599293.98	0.0139	0.0039
Mercury	57162-11-27 11:46 G	22599381.87	22599381.99	22599382.11	0.0139	0.0059
Mercury	57163-02-23 15:07 G	22599470.02	22599470.13	22599470.24	0.0139	0.0080
Mercury	57163-05-22 18:14 G	22599558.18	22599558.26	22599558.36	0.0139	0.0101
Mercury	57163-08-18 21:36 G	22599646.34	22599646.40	22599646.47	0.0139	0.0121
Venus	57164-07-31 06:58 G	22599993.67	22599993.79	22599993.94	0.0140	0.0109
Venus	57165-03-14 16:05 G	22600220.00	22600220.17	22600220.37	0.0140	0.0076
Venus	57165-10-27 01:41 G	22600446.37	22600446.57	22600446.78	0.0140	0.0042
Venus	57166-06-10 11:17 G	22600672.75	22600672.97	22600673.19	0.0140	0.0009
Venus	57167-01-22 20:53 G	22600899.16	22600899.37	22600899.59	0.0141	0.0026
Venus	57167-09-06 06:29 G	22601125.58	22601125.77	22601125.98	0.0141	0.0060
Venus	57168-04-19 16:05 G	22601352.03	22601352.17	22601352.35	0.0141	0.0094
Venus	57168-12-02 01:55 G	22601578.51	22601578.58	22601578.69	0.0141	0.0129
Earth	57171-04-21 13:12 G	22602449.00	22602449.05	22602449.09	0.0142	0.0140
Moon	57172-04-25 08:53 G	22602818.65	22602818.87	22602819.11	0.0143	0.0067
Earth	57172-04-25 11:31 G	22602818.77	22602818.98	22602819.21	0.0143	0.0072 *
Earth	57173-04-30 11:02 G	22603188.70	22603188.96	22603189.21	0.0143	0.0004
Moon	57173-04-30 12:29 G	22603188.77	22603189.02	22603189.26	0.0143	0.0004 *
Moon	57174-05-05 09:07 G	22603558.66	22603558.88	22603559.13	0.0143	0.0063
Earth	57174-05-05 10:48 G	22603558.73	22603558.95	22603559.18	0.0143	0.0066 *
Earth	57175-05-10 10:48 G	22603928.90	22603928.95	22603929.05	0.0143	0.0136
Moon	57175-05-10 11:17 G	22603928.97	22603928.97	22603929.00	0.0143	0.0143 *
Jupiter	57190-08-18 13:41 G	22609507.58	22609508.07	22609508.61	0.0143	0.0046
Mercury	57201-04-20 04:19 G	22613405.59	22613405.68	22613405.79	0.0140	0.0117
Mercury	57201-07-17 12:00 G	22613493.86	22613494.00	22613494.15	0.0140	0.0087
Mercury	57201-10-13 19:41 G	22613582.15	22613582.32	22613582.50	0.0139	0.0057
Mercury	57202-01-10 03:22 G	22613670.45	22613670.64	22613670.83	0.0139	0.0027
Mercury	57202-04-08 11:02 G	22613758.77	22613758.96	22613759.15	0.0139	0.0003

Mercury	57202-07-05 18:43 G	22613847.10	22613847.28	22613847.47	0.0139	0.0033
Mercury	57202-10-02 02:24 G	22613935.43	22613935.60	22613935.78	0.0139	0.0063
Mercury	57202-12-29 10:05 G	22614023.79	22614023.92	22614024.07	0.0139	0.0093
Mercury	57203-03-27 17:46 G	22614112.16	22614112.24	22614112.34	0.0139	0.0123
Venus	57204-04-04 20:10 G	22614486.27	22614486.34	22614486.45	0.0139	0.0126
Venus	57204-11-17 04:34 G	22614712.54	22614712.69	22614712.86	0.0138	0.0093
Venus	57205-07-01 12:43 G	22614938.85	22614939.03	22614939.24	0.0138	0.0062
Venus	57206-02-12 20:53 G	22615165.16	22615165.37	22615165.59	0.0138	0.0029
Venus	57206-09-27 04:48 G	22615391.48	22615391.70	22615391.92	0.0138	0.0003
Venus	57207-05-11 12:29 G	22615617.81	22615618.02	22615618.23	0.0137	0.0035
Venus	57207-12-23 19:41 G	22615844.14	22615844.32	22615844.52	0.0137	0.0067
Venus	57208-08-06 03:22 G	22616070.49	22616070.64	22616070.80	0.0137	0.0097
Venus	57209-03-20 10:19 G	22616296.87	22616296.93	22616297.02	0.0137	0.0128
Earth	57211-10-23 21:07 G	22617244.31	22617244.38	22617244.51	0.0136	0.0125
Moon	57211-10-23 23:46 G	22617244.40	22617244.49	22617244.59	0.0136	0.0124 *
Moon	57212-10-27 04:19 G	22617613.47	22617613.68	22617613.92	0.0136	0.0069
Earth	57212-10-27 06:58 G	22617613.58	22617613.79	22617614.02	0.0136	0.0067 *
Earth	57213-10-31 15:50 G	22617982.91	22617983.16	22617983.41	0.0135	0.0009
Moon	57213-10-31 17:31 G	22617982.99	22617983.23	22617983.48	0.0135	0.0003 *
Moon	57214-11-04 22:05 G	22618352.18	22618352.42	22618352.67	0.0135	0.0042
Earth	57214-11-05 00:00 G	22618352.28	22618352.50	22618352.75	0.0135	0.0049 *
Earth	57215-11-09 08:10 G	22618721.69	22618721.84	22618722.00	0.0135	0.0105
Moon	57215-11-09 09:50 G	22618721.78	22618721.91	22618722.05	0.0135	0.0112 *
Mars	57230-10-16 14:24 G	22624176.96	22624177.10	22624177.30	0.0134	0.0116
Mercury	57244-10-15 12:29 G	22629289.96	22629290.02	22629290.08	0.0138	0.0121
Mercury	57245-01-11 15:36 G	22629378.07	22629378.15	22629378.25	0.0138	0.0102
Mercury	57245-04-09 19:12 G	22629466.20	22629466.30	22629466.41	0.0138	0.0080
Mercury	57245-07-06 22:34 G	22629554.33	22629554.44	22629554.57	0.0138	0.0060
Mercury	57245-10-03 01:55 G	22629642.46	22629642.58	22629642.71	0.0139	0.0040
Mercury	57245-12-30 05:17 G	22629730.59	22629730.72	22629730.86	0.0139	0.0019

Mercury	57246-03-28 08:53 G	22629818.73	22629818.87	22629819.00	0.0139	0.0005
Mercury	57246-06-24 12:00 G	22629906.87	22629907.00	22629907.14	0.0139	0.0023
Mercury	57246-09-20 15:22 G	22629995.02	22629995.14	22629995.27	0.0139	0.0043
Mercury	57246-12-17 18:43 G	22630083.16	22630083.28	22630083.40	0.0139	0.0063
Mercury	57247-03-15 21:50 G	22630171.32	22630171.41	22630171.52	0.0139	0.0085
Mercury	57247-06-12 01:12 G	22630259.47	22630259.55	22630259.65	0.0139	0.0105
Mercury	57247-09-08 04:48 G	22630347.64	22630347.70	22630347.75	0.0139	0.0125
Venus	57248-03-30 13:55 G	22630551.99	22630552.08	22630552.18	0.0140	0.0124
Venus	57248-11-11 23:02 G	22630778.30	22630778.46	22630778.63	0.0140	0.0091
Venus	57249-06-26 08:10 G	22631004.65	22631004.84	22631005.05	0.0140	0.0058
Venus	57250-02-07 17:46 G	22631231.03	22631231.24	22631231.46	0.0140	0.0024
Venus	57250-09-22 03:22 G	22631457.42	22631457.64	22631457.86	0.0141	0.0010
Venus	57251-05-06 12:43 G	22631683.83	22631684.03	22631684.25	0.0141	0.0044
Venus	57251-12-18 22:34 G	22631910.27	22631910.44	22631910.63	0.0141	0.0078
Venus	57252-08-01 08:24 G	22632136.73	22632136.85	22632136.99	0.0141	0.0112
Earth	57255-04-21 20:53 G	22633130.32	22633130.37	22633130.46	0.0142	0.0136
Moon	57255-04-22 00:29 G	22633130.42	22633130.52	22633130.63	0.0142	0.0129 *
Moon	57256-04-25 17:02 G	22633500.00	22633500.21	22633500.45	0.0142	0.0074
Earth	57256-04-25 19:41 G	22633500.11	22633500.32	22633500.56	0.0142	0.0069 *
Earth	57257-04-30 19:26 G	22633870.05	22633870.31	22633870.56	0.0143	0.0002
Moon	57257-04-30 21:50 G	22633870.17	22633870.41	22633870.67	0.0143	0.0004 *
Moon	57258-05-05 17:17 G	22634240.01	22634240.22	22634240.46	0.0143	0.0073
Earth	57258-05-05 18:58 G	22634240.08	22634240.29	22634240.53	0.0143	0.0070 *
Earth	57259-05-10 19:26 G	22634610.27	22634610.31	22634610.39	0.0143	0.0139
Moon	57259-05-10 20:38 G	22634610.30	22634610.36	22634610.48	0.0143	0.0134 *
Mars	57271-03-04 15:50 G	22638926.01	22638926.16	22638926.35	0.0144	0.0114
Mercury	57285-02-11 04:05 G	22644018.65	22644018.67	22644018.70	0.0140	0.0138
Mercury	57285-05-10 11:17 G	22644106.87	22644106.97	22644107.11	0.0140	0.0109
Mercury	57285-08-06 19:12 G	22644195.15	22644195.30	22644195.46	0.0140	0.0079
Mercury	57285-11-03 02:53 G	22644283.44	22644283.62	22644283.80	0.0139	0.0049

Mercury	57286-01-30 10:34 G	22644371.75	22644371.94	22644372.13	0.0139	0.0019
Mercury	57286-04-28 18:14 G	22644460.07	22644460.26	22644460.45	0.0139	0.0011
Mercury	57286-07-26 01:55 G	22644548.40	22644548.58	22644548.77	0.0139	0.0041
Mercury	57286-10-22 09:36 G	22644636.74	22644636.90	22644637.07	0.0139	0.0071
Mercury	57287-01-18 17:17 G	22644725.10	22644725.22	22644725.36	0.0139	0.0101
Mercury	57287-04-17 01:12 G	22644813.49	22644813.55	22644813.61	0.0139	0.0131
Venus	57288-07-17 13:12 G	22645270.93	22645271.05	22645271.20	0.0138	0.0107
Venus	57289-02-28 21:22 G	22645497.22	22645497.39	22645497.59	0.0138	0.0076
Venus	57289-10-13 05:31 G	22645723.53	22645723.73	22645723.95	0.0138	0.0043
Venus	57290-05-27 13:41 G	22645949.85	22645950.07	22645950.28	0.0138	0.0011
Venus	57291-01-08 21:07 G	22646176.17	22646176.38	22646176.60	0.0138	0.0022
Venus	57291-08-23 05:02 G	22646402.51	22646402.71	22646402.91	0.0137	0.0053
Venus	57292-04-05 12:14 G	22646628.85	22646629.01	22646629.19	0.0137	0.0084
Venus	57292-11-17 19:26 G	22646855.20	22646855.31	22646855.44	0.0137	0.0115
Earth	57295-10-24 07:55 G	22647925.74	22647925.83	22647925.97	0.0136	0.0120
Moon	57295-10-24 11:17 G	22647925.86	22647925.97	22647926.10	0.0136	0.0118 *
Moon	57296-10-27 15:07 G	22648294.91	22648295.13	22648295.38	0.0136	0.0059
Earth	57296-10-27 17:31 G	22648295.02	22648295.23	22648295.47	0.0136	0.0062 *
Earth	57297-11-01 02:38 G	22648664.36	22648664.61	22648664.87	0.0135	0.0005
Moon	57297-11-01 05:31 G	22648664.48	22648664.73	22648664.98	0.0135	0.0009 *
Moon	57298-11-05 08:38 G	22649033.64	22649033.86	22649034.11	0.0135	0.0060
Earth	57298-11-05 11:17 G	22649033.74	22649033.97	22649034.20	0.0135	0.0053 *
Earth	57299-11-09 18:58 G	22649403.16	22649403.29	22649403.45	0.0135	0.0110
Moon	57299-11-09 21:07 G	22649403.24	22649403.38	22649403.55	0.0135	0.0103 *
Mercury	57328-08-09 16:19 G	22659903.17	22659903.18	22659903.20	0.0138	0.0136
Mercury	57328-11-05 19:55 G	22659991.26	22659991.33	22659991.40	0.0138	0.0116
Mercury	57329-02-01 23:02 G	22660079.37	22660079.46	22660079.56	0.0138	0.0095
Mercury	57329-05-01 02:38 G	22660167.50	22660167.61	22660167.72	0.0138	0.0075
Mercury	57329-07-28 05:46 G	22660255.63	22660255.74	22660255.87	0.0138	0.0055
Mercury	57329-10-24 09:22 G	22660343.76	22660343.89	22660344.02	0.0139	0.0034

Mercury	57330-01-20 12:43 G	22660431.89	22660432.03	22660432.16	0.0139	0.0013
Mercury	57330-04-18 16:05 G	22660520.03	22660520.17	22660520.30	0.0139	0.0008
Mercury	57330-07-15 19:26 G	22660608.18	22660608.31	22660608.44	0.0139	0.0028
Mercury	57330-10-11 22:34 G	22660696.32	22660696.44	22660696.57	0.0139	0.0049
Mercury	57331-01-08 01:55 G	22660784.47	22660784.58	22660784.70	0.0139	0.0069
Mercury	57331-04-06 05:17 G	22660872.62	22660872.72	22660872.82	0.0139	0.0089
Mercury	57331-07-03 08:24 G	22660960.78	22660960.85	22660960.94	0.0139	0.0110
Mercury	57331-09-29 11:46 G	22661048.95	22661048.99	22661049.04	0.0139	0.0130
Venus	57331-11-29 21:36 G	22661110.39	22661110.40	22661110.44	0.0139	0.0139
Venus	57332-07-13 06:43 G	22661336.65	22661336.78	22661336.93	0.0140	0.0106
Venus	57333-02-24 15:50 G	22661562.99	22661563.16	22661563.36	0.0140	0.0073
Venus	57333-10-09 01:12 G	22661789.35	22661789.55	22661789.77	0.0140	0.0039
Venus	57334-05-23 10:48 G	22662015.73	22662015.95	22662016.17	0.0140	0.0006
Venus	57335-01-04 20:10 G	22662242.14	22662242.34	22662242.56	0.0141	0.0029
Venus	57335-08-19 05:46 G	22662468.56	22662468.74	22662468.95	0.0141	0.0063
Venus	57336-04-01 15:36 G	22662695.00	22662695.15	22662695.32	0.0141	0.0097
Venus	57336-11-14 01:26 G	22662921.49	22662921.56	22662921.65	0.0141	0.0131
Earth	57339-04-23 06:29 G	22663811.70	22663811.77	22663811.89	0.0142	0.0131
Moon	57339-04-23 10:05 G	22663811.89	22663811.92	22663811.99	0.0142	0.0139 *
Moon	57340-04-27 02:24 G	22664181.36	22664181.60	22664181.84	0.0142	0.0057
Earth	57340-04-27 05:46 G	22664181.52	22664181.74	22664181.97	0.0142	0.0064 *
Earth	57341-05-02 05:02 G	22664551.46	22664551.71	22664551.97	0.0143	0.0005
Moon	57341-05-02 07:41 G	22664551.57	22664551.82	22664552.07	0.0143	0.0004 *
Moon	57342-05-07 02:24 G	22664921.37	22664921.60	22664921.83	0.0143	0.0072
Earth	57342-05-07 05:02 G	22664921.50	22664921.71	22664921.93	0.0143	0.0074 *
Mars	57355-10-29 12:00 G	22669844.77	22669845.00	22669845.26	0.0144	0.0075
Mercury	57369-03-04 10:48 G	22674719.90	22674719.95	22674720.03	0.0140	0.0131
Mercury	57369-05-31 18:43 G	22674808.15	22674808.28	22674808.41	0.0140	0.0101
Mercury	57369-08-28 02:24 G	22674896.44	22674896.60	22674896.76	0.0140	0.0071
Mercury	57369-11-24 09:50 G	22674984.74	22674984.91	22674985.10	0.0139	0.0042

Mercury	57370-02-20 17:46 G	22675073.05	22675073.24	22675073.43	0.0139	0.0011
Mercury	57370-05-20 01:12 G	22675161.37	22675161.55	22675161.75	0.0139	0.0019
Mercury	57370-08-16 08:53 G	22675249.70	22675249.87	22675250.06	0.0139	0.0049
Mercury	57370-11-12 16:34 G	22675338.04	22675338.19	22675338.36	0.0139	0.0079
Mercury	57371-02-09 00:14 G	22675426.41	22675426.51	22675426.64	0.0139	0.0109
Venus	57372-03-17 21:22 G	22675829.30	22675829.39	22675829.51	0.0139	0.0122
Venus	57372-10-30 05:46 G	22676055.58	22676055.74	22676055.91	0.0138	0.0089
Venus	57373-06-13 13:55 G	22676281.89	22676282.08	22676282.29	0.0138	0.0057
Venus	57374-01-25 22:05 G	22676508.21	22676508.42	22676508.64	0.0138	0.0025
Venus	57374-09-09 06:00 G	22676734.53	22676734.75	22676734.97	0.0138	0.0007
Venus	57375-04-23 13:26 G	22676960.86	22676961.06	22676961.27	0.0137	0.0039
Venus	57375-12-05 20:53 G	22677187.19	22677187.37	22677187.56	0.0137	0.0071
Venus	57376-07-19 04:05 G	22677413.55	22677413.67	22677413.83	0.0137	0.0102
Venus	57377-03-02 11:46 G	22677639.94	22677639.99	22677640.04	0.0137	0.0132
Earth	57379-10-25 18:14 G	22678607.15	22678607.26	22678607.41	0.0136	0.0115
Moon	57379-10-25 21:07 G	22678607.28	22678607.38	22678607.53	0.0136	0.0116 *
Moon	57380-10-29 00:43 G	22678976.31	22678976.53	22678976.77	0.0136	0.0058
Earth	57380-10-29 04:05 G	22678976.45	22678976.67	22678976.91	0.0136	0.0057 *
Earth	57381-11-02 13:12 G	22679345.80	22679346.05	22679346.30	0.0135	0.0001
Moon	57381-11-02 15:50 G	22679345.92	22679346.16	22679346.41	0.0135	0.0006 *
Moon	57382-11-06 18:29 G	22679715.04	22679715.27	22679715.52	0.0135	0.0051
Earth	57382-11-06 21:36 G	22679715.18	22679715.40	22679715.64	0.0135	0.0058 *
Earth	57383-11-11 05:17 G	22680084.61	22680084.72	22680084.88	0.0135	0.0115
Moon	57383-11-11 08:10 G	22680084.76	22680084.84	22680084.96	0.0135	0.0122 *
Mars	57398-03-04 13:12 G	22685311.72	22685312.05	22685312.39	0.0134	0.0012
Mercury	57412-08-30 23:31 G	22690604.44	22690604.48	22690604.52	0.0138	0.0131
Mercury	57412-11-27 02:53 G	22690692.55	22690692.62	22690692.70	0.0138	0.0111
Mercury	57413-02-23 06:14 G	22690780.67	22690780.76	22690780.87	0.0138	0.0090
Mercury	57413-05-22 09:36 G	22690868.79	22690868.90	22690869.02	0.0138	0.0070
Mercury	57413-08-18 12:58 G	22690956.92	22690957.04	22690957.17	0.0139	0.0049

Mercury	57413-11-14 16:34 G	22691045.06	22691045.19	22691045.32	0.0139	0.0029
Mercury	57414-02-10 19:55 G	22691133.19	22691133.33	22691133.46	0.0139	0.0009
Mercury	57414-05-09 23:02 G	22691221.33	22691221.46	22691221.60	0.0139	0.0013
Mercury	57414-08-06 02:24 G	22691309.47	22691309.60	22691309.73	0.0139	0.0033
Mercury	57414-11-02 05:46 G	22691397.62	22691397.74	22691397.86	0.0139	0.0054
Mercury	57415-01-29 09:07 G	22691485.77	22691485.88	22691485.99	0.0139	0.0074
Mercury	57415-04-27 12:29 G	22691573.92	22691574.02	22691574.11	0.0139	0.0094
Mercury	57415-07-24 15:36 G	22691662.08	22691662.15	22691662.23	0.0139	0.0115
Mercury	57415-10-20 18:58 G	22691750.27	22691750.29	22691750.32	0.0139	0.0135
Venus	57416-03-13 14:10 G	22691895.00	22691895.09	22691895.22	0.0140	0.0121
Venus	57416-10-25 23:02 G	22692121.31	22692121.46	22692121.65	0.0140	0.0088
Venus	57417-06-09 08:38 G	22692347.66	22692347.86	22692348.06	0.0140	0.0054
Venus	57418-01-21 18:14 G	22692574.04	22692574.26	22692574.47	0.0140	0.0021
Venus	57418-09-05 03:36 G	22692800.43	22692800.65	22692800.87	0.0141	0.0013
Venus	57419-04-19 12:58 G	22693026.84	22693027.04	22693027.25	0.0141	0.0048
Venus	57419-12-01 22:34 G	22693253.28	22693253.44	22693253.63	0.0141	0.0082
Venus	57420-07-15 08:24 G	22693479.74	22693479.85	22693479.99	0.0141	0.0116
Earth	57423-04-24 16:19 G	22694493.09	22694493.18	22694493.32	0.0142	0.0127
Moon	57423-04-24 20:10 G	22694493.21	22694493.34	22694493.49	0.0142	0.0118 *
Moon	57424-04-28 12:14 G	22694862.78	22694863.01	22694863.24	0.0142	0.0065
Earth	57424-04-28 15:36 G	22694862.92	22694863.15	22694863.39	0.0142	0.0058 *
Earth	57425-05-03 15:07 G	22695232.87	22695233.13	22695233.38	0.0143	0.0010
Moon	57425-05-03 18:29 G	22695233.02	22695233.27	22695233.52	0.0143	0.0014 *
Moon	57426-05-08 12:14 G	22695602.80	22695603.01	22695603.23	0.0143	0.0080
Earth	57426-05-08 14:53 G	22695602.92	22695603.12	22695603.34	0.0143	0.0079 *
Moon	57427-05-13 18:00 G	22695973.24	22695973.25	22695973.28	0.0143	0.0143
Mercury	57453-03-25 18:29 G	22705421.19	22705421.27	22705421.37	0.0140	0.0122
Mercury	57453-06-22 02:10 G	22705509.45	22705509.59	22705509.74	0.0140	0.0092
Mercury	57453-09-18 09:36 G	22705597.74	22705597.90	22705598.08	0.0140	0.0063
Mercury	57453-12-15 17:31 G	22705686.05	22705686.23	22705686.42	0.0139	0.0032

Mercury	57454-03-14 01:12 G	22705774.36	22705774.55	22705774.74	0.0139	0.0002
Mercury	57454-06-10 08:53 G	22705862.68	22705862.87	22705863.06	0.0139	0.0028
Mercury	57454-09-06 16:34 G	22705951.02	22705951.19	22705951.36	0.0139	0.0058
Mercury	57454-12-04 00:00 G	22706039.36	22706039.50	22706039.66	0.0139	0.0088
Mercury	57455-03-02 07:41 G	22706127.74	22706127.82	22706127.94	0.0139	0.0118
Venus	57455-11-17 06:14 G	22706387.72	22706387.76	22706387.82	0.0139	0.0135
Venus	57456-06-30 14:38 G	22706613.98	22706614.11	22706614.27	0.0139	0.0103
Venus	57457-02-11 23:02 G	22706840.28	22706840.46	22706840.65	0.0138	0.0070
Venus	57457-09-26 06:58 G	22707066.59	22707066.79	22707067.01	0.0138	0.0038
Venus	57458-05-10 14:53 G	22707292.91	22707293.12	22707293.34	0.0138	0.0006
Venus	57458-12-22 22:34 G	22707519.23	22707519.44	22707519.66	0.0138	0.0026
Venus	57459-08-06 06:14 G	22707745.57	22707745.76	22707745.96	0.0137	0.0058
Venus	57460-03-19 13:26 G	22707971.91	22707972.06	22707972.24	0.0137	0.0089
Venus	57460-10-31 20:38 G	22708198.27	22708198.36	22708198.48	0.0137	0.0120
Earth	57463-10-27 05:31 G	22709288.60	22709288.73	22709288.89	0.0136	0.0110
Moon	57463-10-27 09:07 G	22709288.73	22709288.88	22709289.04	0.0136	0.0107 *
Moon	57464-10-30 12:14 G	22709657.77	22709658.01	22709658.24	0.0136	0.0050
Earth	57464-10-30 15:22 G	22709657.91	22709658.14	22709658.37	0.0136	0.0052 *
Earth	57465-11-04 00:14 G	22710027.26	22710027.51	22710027.77	0.0135	0.0007
Moon	57465-11-04 03:50 G	22710027.41	22710027.66	22710027.91	0.0135	0.0002 *
Moon	57466-11-08 05:31 G	22710396.53	22710396.73	22710396.97	0.0135	0.0069
Earth	57466-11-08 08:53 G	22710396.66	22710396.87	22710397.10	0.0135	0.0063 *
Earth	57467-11-12 16:48 G	22710766.10	22710766.20	22710766.33	0.0135	0.0119
Moon	57467-11-12 19:41 G	22710766.21	22710766.32	22710766.48	0.0135	0.0112 *
Mercury	57496-09-20 06:43 G	22721305.74	22721305.78	22721305.85	0.0138	0.0125
Mercury	57496-12-17 10:19 G	22721393.85	22721393.93	22721394.02	0.0138	0.0104
Mercury	57497-03-15 13:55 G	22721481.97	22721482.08	22721482.18	0.0138	0.0084
Mercury	57497-06-11 17:02 G	22721570.10	22721570.21	22721570.34	0.0138	0.0064
Mercury	57497-09-07 20:38 G	22721658.23	22721658.36	22721658.48	0.0139	0.0043
Mercury	57497-12-04 23:46 G	22721746.36	22721746.49	22721746.63	0.0139	0.0023

Mercury	57498-03-03 03:22 G	22721834.50	22721834.64	22721834.77	0.0139	0.0005
Mercury	57498-05-30 06:29 G	22721922.64	22721922.77	22721922.91	0.0139	0.0019
Mercury	57498-08-26 09:50 G	22722010.79	22722010.91	22722011.04	0.0139	0.0039
Mercury	57498-11-22 13:12 G	22722098.93	22722099.05	22722099.17	0.0139	0.0060
Mercury	57499-02-18 16:34 G	22722187.08	22722187.19	22722187.30	0.0139	0.0080
Mercury	57499-05-17 19:55 G	22722275.24	22722275.33	22722275.42	0.0139	0.0101
Mercury	57499-08-13 23:02 G	22722363.40	22722363.46	22722363.53	0.0139	0.0121
Venus	57499-11-11 22:48 G	22722453.41	22722453.45	22722453.53	0.0139	0.0134
Venus	57500-06-26 07:55 G	22722679.69	22722679.83	22722679.99	0.0140	0.0101
Venus	57501-02-07 17:02 G	22722906.03	22722906.21	22722906.41	0.0140	0.0068
Venus	57501-09-22 02:24 G	22723132.39	22723132.60	22723132.82	0.0140	0.0035
Venus	57502-05-06 11:46 G	22723358.78	22723358.99	22723359.21	0.0140	0.0003
Venus	57502-12-18 21:22 G	22723585.18	22723585.39	22723585.61	0.0141	0.0034
Venus	57503-08-02 06:58 G	22723811.61	22723811.79	22723811.99	0.0141	0.0068
Venus	57504-03-15 16:48 G	22724038.06	22724038.20	22724038.36	0.0141	0.0102
Venus	57504-10-28 02:38 G	22724264.57	22724264.61	22724264.68	0.0141	0.0137
Earth	57507-04-26 04:19 G	22725174.56	22725174.68	22725174.82	0.0142	0.0120
Moon	57507-04-26 08:10 G	22725174.74	22725174.84	22725174.95	0.0142	0.0128 *
Moon	57508-04-29 23:46 G	22725544.25	22725544.49	22725544.73	0.0142	0.0046
Earth	57508-04-30 03:07 G	22725544.41	22725544.63	22725544.88	0.0142	0.0054 *
Earth	57509-05-05 02:38 G	22725914.36	22725914.61	22725914.87	0.0143	0.0015
Moon	57509-05-05 06:00 G	22725914.50	22725914.75	22725915.00	0.0143	0.0013 *
Moon	57510-05-09 23:02 G	22726284.26	22726284.46	22726284.68	0.0143	0.0084
Earth	57510-05-10 02:38 G	22726284.41	22726284.61	22726284.82	0.0143	0.0084 *
Mars	57523-03-20 06:43 G	22730981.52	22730981.78	22730982.05	0.0144	0.0055
Mercury	57537-04-16 02:24 G	22736122.49	22736122.60	22736122.72	0.0140	0.0112
Mercury	57537-07-13 10:05 G	22736210.77	22736210.92	22736211.07	0.0140	0.0082
Mercury	57537-10-09 17:31 G	22736299.06	22736299.23	22736299.41	0.0140	0.0053
Mercury	57538-01-06 01:12 G	22736387.37	22736387.55	22736387.74	0.0139	0.0023
Mercury	57538-04-04 08:53 G	22736475.68	22736475.87	22736476.06	0.0139	0.0008

Mercury	57538-07-01 16:34 G	22736564.01	22736564.19	22736564.38	0.0139	0.0038
Mercury	57538-09-28 00:14 G	22736652.35	22736652.51	22736652.68	0.0139	0.0068
Mercury	57538-12-25 07:55 G	22736740.70	22736740.83	22736740.97	0.0139	0.0098
Mercury	57539-03-23 15:50 G	22736829.08	22736829.16	22736829.23	0.0139	0.0127
Venus	57540-03-01 00:00 G	22737172.40	22737172.50	22737172.63	0.0139	0.0116
Venus	57540-10-13 08:10 G	22737398.68	22737398.84	22737399.03	0.0138	0.0084
Venus	57541-05-27 16:19 G	22737624.99	22737625.18	22737625.39	0.0138	0.0051
Venus	57542-01-09 00:29 G	22737851.30	22737851.52	22737851.74	0.0138	0.0019
Venus	57542-08-23 08:10 G	22738077.63	22738077.84	22738078.06	0.0138	0.0014
Venus	57543-04-06 15:36 G	22738303.96	22738304.15	22738304.37	0.0138	0.0046
Venus	57543-11-18 23:17 G	22738530.29	22738530.47	22738530.65	0.0137	0.0077
Venus	57544-07-02 06:29 G	22738756.65	22738756.77	22738756.92	0.0137	0.0108
Earth	57547-10-28 17:02 G	22739970.07	22739970.21	22739970.39	0.0136	0.0105
Moon	57547-10-28 20:38 G	22739970.22	22739970.36	22739970.53	0.0136	0.0107 *
Moon	57548-10-31 23:17 G	22740339.24	22740339.47	22740339.72	0.0136	0.0047
Earth	57548-11-01 03:07 G	22740339.40	22740339.63	22740339.87	0.0136	0.0047 *
Earth	57549-11-05 12:14 G	22740708.76	22740709.01	22740709.26	0.0135	0.0011
Moon	57549-11-05 15:22 G	22740708.90	22740709.14	22740709.40	0.0135	0.0016 *
Moon	57550-11-09 17:02 G	22741077.99	22741078.21	22741078.45	0.0135	0.0061
Earth	57550-11-09 20:53 G	22741078.15	22741078.37	22741078.59	0.0135	0.0067 *
Earth	57551-11-14 04:48 G	22741447.61	22741447.70	22741447.80	0.0135	0.0123
Moon	57551-11-14 07:41 G	22741447.78	22741447.82	22741447.90	0.0135	0.0131 *
Mercury	57580-10-11 14:10 G	22752007.03	22752007.09	22752007.16	0.0138	0.0120
Mercury	57581-01-07 17:31 G	22752095.14	22752095.23	22752095.33	0.0138	0.0099
Mercury	57581-04-05 20:53 G	22752183.27	22752183.37	22752183.48	0.0138	0.0079
Mercury	57581-07-03 00:14 G	22752271.39	22752271.51	22752271.64	0.0139	0.0059
Mercury	57581-09-29 03:50 G	22752359.53	22752359.66	22752359.78	0.0139	0.0038
Mercury	57581-12-26 06:58 G	22752447.66	22752447.79	22752447.93	0.0139	0.0018
Mercury	57582-03-24 10:19 G	22752535.80	22752535.93	22752536.07	0.0139	0.0005
Mercury	57582-06-20 13:41 G	22752623.94	22752624.07	22752624.20	0.0139	0.0024

Mercury	57582-09-16 17:02 G	22752712.09	22752712.21	22752712.34	0.0139	0.0044
Mercury	57582-12-13 20:10 G	22752800.23	22752800.34	22752800.47	0.0139	0.0066
Mercury	57583-03-11 23:31 G	22752888.38	22752888.48	22752888.59	0.0139	0.0085
Mercury	57583-06-08 02:53 G	22752976.54	22752976.62	22752976.71	0.0139	0.0106
Mercury	57583-09-04 06:00 G	22753064.71	22753064.75	22753064.82	0.0139	0.0127
Venus	57584-02-24 15:36 G	22753238.04	22753238.15	22753238.28	0.0140	0.0115
Venus	57584-10-08 00:43 G	22753464.36	22753464.53	22753464.71	0.0140	0.0082
Venus	57585-05-22 09:50 G	22753690.71	22753690.91	22753691.12	0.0140	0.0049
Venus	57586-01-03 19:26 G	22753917.09	22753917.31	22753917.53	0.0140	0.0015
Venus	57586-08-18 04:48 G	22754143.49	22754143.70	22754143.92	0.0141	0.0019
Venus	57587-04-01 14:24 G	22754369.90	22754370.10	22754370.31	0.0141	0.0053
Venus	57587-11-14 00:14 G	22754596.34	22754596.51	22754596.68	0.0141	0.0087
Venus	57588-06-27 09:50 G	22754822.82	22754822.91	22754823.04	0.0141	0.0122
Earth	57591-04-26 14:38 G	22755855.98	22755856.11	22755856.27	0.0142	0.0116
Moon	57591-04-26 17:46 G	22755856.10	22755856.24	22755856.43	0.0142	0.0109 *
Moon	57592-04-30 10:05 G	22756225.69	22756225.92	22756226.16	0.0143	0.0056
Earth	57592-04-30 13:41 G	22756225.83	22756226.07	22756226.31	0.0143	0.0049 *
Earth	57593-05-05 12:58 G	22756595.79	22756596.04	22756596.30	0.0143	0.0020
Moon	57593-05-05 16:48 G	22756595.95	22756596.20	22756596.45	0.0143	0.0025 *
Moon	57594-05-10 09:22 G	22756965.71	22756965.89	22756966.11	0.0143	0.0089
Earth	57594-05-10 13:12 G	22756965.85	22756966.05	22756966.25	0.0143	0.0088 *
Mars	57607-11-13 06:43 G	22761900.73	22761900.78	22761900.84	0.0144	0.0140
Mercury	57621-02-07 02:53 G	22766735.57	22766735.62	22766735.70	0.0140	0.0130
Mercury	57621-05-06 10:48 G	22766823.82	22766823.95	22766824.08	0.0140	0.0100
Mercury	57621-08-02 18:14 G	22766912.10	22766912.26	22766912.43	0.0140	0.0071
Mercury	57621-10-30 01:55 G	22767000.40	22767000.58	22767000.76	0.0140	0.0041
Mercury	57622-01-26 09:36 G	22767088.71	22767088.90	22767089.09	0.0139	0.0011
Mercury	57622-04-24 17:02 G	22767177.03	22767177.21	22767177.41	0.0139	0.0020
Mercury	57622-07-22 00:43 G	22767265.36	22767265.53	22767265.72	0.0139	0.0049
Mercury	57622-10-18 08:24 G	22767353.70	22767353.85	22767354.02	0.0139	0.0079

Mercury	57623-01-14 16:05 G	22767442.06	22767442.17	22767442.30	0.0139	0.0109
Mercury	57623-04-13 00:00 G	22767530.50	22767530.50	22767530.51	0.0139	0.0139
Venus	57623-10-30 10:05 G	22767730.85	22767730.92	22767731.02	0.0139	0.0128
Venus	57624-06-12 18:29 G	22767957.13	22767957.27	22767957.44	0.0139	0.0096
Venus	57625-01-25 02:53 G	22768183.43	22768183.62	22768183.82	0.0138	0.0063
Venus	57625-09-08 11:02 G	22768409.74	22768409.96	22768410.17	0.0138	0.0031
Venus	57626-04-22 18:43 G	22768636.06	22768636.28	22768636.50	0.0138	0.0002
Venus	57626-12-05 02:10 G	22768862.39	22768862.59	22768862.81	0.0138	0.0034
Venus	57627-07-19 09:50 G	22769088.73	22769088.91	22769089.11	0.0137	0.0065
Venus	57628-03-01 17:17 G	22769315.08	22769315.22	22769315.38	0.0137	0.0096
Venus	57628-10-14 00:29 G	22769541.45	22769541.52	22769541.61	0.0137	0.0127
Earth	57631-10-29 06:14 G	22770651.61	22770651.76	22770651.95	0.0136	0.0100
Moon	57631-10-29 09:50 G	22770651.75	22770651.91	22770652.11	0.0136	0.0096 *
Moon	57632-11-01 12:43 G	22771020.79	22771021.03	22771021.28	0.0136	0.0041
Earth	57632-11-01 16:19 G	22771020.94	22771021.18	22771021.42	0.0136	0.0042 *
Earth	57633-11-06 01:12 G	22771390.30	22771390.55	22771390.81	0.0135	0.0016
Moon	57633-11-06 05:02 G	22771390.46	22771390.71	22771390.96	0.0135	0.0012 *
Moon	57634-11-10 06:00 G	22771759.56	22771759.75	22771759.97	0.0135	0.0078
Earth	57634-11-10 09:36 G	22771759.70	22771759.90	22771760.12	0.0135	0.0073 *
Earth	57635-11-14 17:31 G	22772129.16	22772129.23	22772129.31	0.0135	0.0128
Moon	57635-11-14 20:53 G	22772129.28	22772129.37	22772129.50	0.0135	0.0121 *
Mars	57650-03-18 04:05 G	22777366.39	22777366.67	22777367.00	0.0134	0.0056
Mercury	57664-08-04 18:00 G	22782620.23	22782620.25	22782620.29	0.0138	0.0134
Mercury	57664-10-31 21:36 G	22782708.33	22782708.40	22782708.48	0.0138	0.0113
Mercury	57665-01-28 00:43 G	22782796.44	22782796.53	22782796.64	0.0138	0.0094
Mercury	57665-04-26 04:19 G	22782884.57	22782884.68	22782884.80	0.0138	0.0073
Mercury	57665-07-23 07:41 G	22782972.70	22782972.82	22782972.95	0.0139	0.0052
Mercury	57665-10-19 11:02 G	22783060.83	22783060.96	22783061.09	0.0139	0.0032
Mercury	57666-01-15 14:24 G	22783148.97	22783149.10	22783149.24	0.0139	0.0011
Mercury	57666-04-13 17:46 G	22783237.11	22783237.24	22783237.37	0.0139	0.0009

Mercury	57666-07-10 21:07 G	22783325.25	22783325.38	22783325.51	0.0139	0.0030
Mercury	57666-10-07 00:29 G	22783413.40	22783413.52	22783413.64	0.0139	0.0050
Mercury	57667-01-03 03:36 G	22783501.54	22783501.65	22783501.77	0.0139	0.0071
Mercury	57667-04-01 06:58 G	22783589.70	22783589.79	22783589.90	0.0139	0.0091
Mercury	57667-06-28 10:19 G	22783677.86	22783677.93	22783678.01	0.0139	0.0112
Mercury	57667-09-24 13:41 G	22783766.03	22783766.07	22783766.11	0.0139	0.0132
Venus	57667-10-25 00:00 G	22783796.43	22783796.50	22783796.60	0.0139	0.0129
Venus	57668-06-07 08:53 G	22784022.73	22784022.87	22784023.04	0.0140	0.0096
Venus	57669-01-19 18:14 G	22784249.08	22784249.26	22784249.47	0.0140	0.0063
Venus	57669-09-03 03:36 G	22784475.44	22784475.65	22784475.87	0.0140	0.0029
Venus	57670-04-17 13:12 G	22784701.83	22784702.05	22784702.26	0.0140	0.0005
Venus	57670-11-29 22:34 G	22784928.24	22784928.44	22784928.65	0.0141	0.0039
Venus	57671-07-14 08:10 G	22785154.67	22785154.84	22785155.04	0.0141	0.0074
Venus	57672-02-25 18:00 G	22785381.13	22785381.25	22785381.41	0.0141	0.0109
Earth	57675-04-27 01:41 G	22786537.43	22786537.57	22786537.74	0.0142	0.0112
Moon	57675-04-27 05:17 G	22786537.60	22786537.72	22786537.87	0.0142	0.0119 *
Moon	57676-04-30 21:22 G	22786907.15	22786907.39	22786907.64	0.0143	0.0037
Earth	57676-05-01 00:43 G	22786907.29	22786907.53	22786907.78	0.0143	0.0045 *
Earth	57677-05-06 00:00 G	22787277.25	22787277.50	22787277.76	0.0143	0.0024
Moon	57677-05-06 03:36 G	22787277.40	22787277.65	22787277.91	0.0143	0.0020 *
Moon	57678-05-10 20:10 G	22787647.16	22787647.34	22787647.55	0.0143	0.0094
Earth	57678-05-11 00:14 G	22787647.32	22787647.51	22787647.71	0.0143	0.0093 *
Mercury	57705-02-28 11:02 G	22797436.87	22797436.96	22797437.07	0.0140	0.0119
Mercury	57705-05-27 18:43 G	22797525.14	22797525.28	22797525.43	0.0140	0.0089
Mercury	57705-08-24 02:10 G	22797613.43	22797613.59	22797613.77	0.0140	0.0060
Mercury	57705-11-20 10:05 G	22797701.73	22797701.92	22797702.10	0.0140	0.0030
Mercury	57706-02-16 17:46 G	22797790.05	22797790.24	22797790.43	0.0140	0.0003
Mercury	57706-05-16 01:12 G	22797878.37	22797878.55	22797878.74	0.0139	0.0030
Mercury	57706-08-12 08:53 G	22797966.70	22797966.87	22797967.05	0.0139	0.0060
Mercury	57706-11-08 16:19 G	22798055.05	22798055.18	22798055.34	0.0139	0.0091

Mercury	57707-02-05 00:00 G	22798143.42	22798143.50	22798143.61	0.0139	0.0120
Venus	57708-02-12 04:48 G	22798515.57	22798515.70	22798515.84	0.0139	0.0108
Venus	57708-09-25 12:58 G	22798741.86	22798742.04	22798742.23	0.0138	0.0076
Venus	57709-05-09 20:53 G	22798968.17	22798968.37	22798968.59	0.0138	0.0043
Venus	57709-12-22 05:02 G	22799194.49	22799194.71	22799194.93	0.0138	0.0011
Venus	57710-08-05 12:43 G	22799420.82	22799421.03	22799421.25	0.0138	0.0022
Venus	57711-03-19 20:24 G	22799647.16	22799647.35	22799647.56	0.0138	0.0053
Venus	57711-11-01 04:05 G	22799873.50	22799873.67	22799873.84	0.0137	0.0085
Venus	57712-06-14 11:02 G	22800099.86	22800099.96	22800100.09	0.0137	0.0116
Earth	57715-10-30 19:41 G	22801333.16	22801333.32	22801333.52	0.0136	0.0094
Moon	57715-10-30 23:31 G	22801333.31	22801333.48	22801333.67	0.0136	0.0096 *
Moon	57716-11-03 02:10 G	22801702.35	22801702.59	22801702.83	0.0136	0.0035
Earth	57716-11-03 05:46 G	22801702.50	22801702.74	22801702.98	0.0136	0.0036 *
Earth	57717-11-07 14:38 G	22802071.86	22802072.11	22802072.36	0.0135	0.0021
Moon	57717-11-07 18:14 G	22802072.01	22802072.26	22802072.51	0.0135	0.0025 *
Moon	57718-11-11 18:58 G	22802441.09	22802441.29	22802441.51	0.0135	0.0072
Earth	57718-11-11 22:34 G	22802441.25	22802441.44	22802441.66	0.0135	0.0078 *
Earth	57719-11-16 06:29 G	22802810.74	22802810.77	22802810.82	0.0135	0.0133
Mercury	57748-08-26 01:12 G	22813321.51	22813321.55	22813321.60	0.0138	0.0129
Mercury	57748-11-22 04:34 G	22813409.62	22813409.69	22813409.78	0.0138	0.0109
Mercury	57749-02-18 07:55 G	22813497.74	22813497.83	22813497.94	0.0138	0.0088
Mercury	57749-05-17 11:31 G	22813585.86	22813585.98	22813586.09	0.0138	0.0068
Mercury	57749-08-13 14:38 G	22813673.99	22813674.11	22813674.24	0.0139	0.0048
Mercury	57749-11-09 18:14 G	22813762.13	22813762.26	22813762.39	0.0139	0.0027
Mercury	57750-02-05 21:36 G	22813850.27	22813850.40	22813850.53	0.0139	0.0006
Mercury	57750-05-05 00:58 G	22813938.41	22813938.54	22813938.67	0.0139	0.0014
Mercury	57750-08-01 04:05 G	22814026.55	22814026.67	22814026.81	0.0139	0.0035
Mercury	57750-10-28 07:26 G	22814114.69	22814114.81	22814114.94	0.0139	0.0055
Mercury	57751-01-24 10:48 G	22814202.84	22814202.95	22814203.06	0.0139	0.0076
Mercury	57751-04-22 14:10 G	22814291.00	22814291.09	22814291.19	0.0139	0.0096

Mercury	57751-07-19 17:17 G	22814379.16	22814379.22	22814379.30	0.0139	0.0117
Mercury	57751-10-15 20:38 G	22814467.35	22814467.36	22814467.39	0.0139	0.0137
Venus	57752-02-06 16:34 G	22814581.07	22814581.19	22814581.34	0.0140	0.0111
Venus	57752-09-20 01:26 G	22814807.40	22814807.56	22814807.76	0.0140	0.0078
Venus	57753-05-04 10:48 G	22815033.75	22815033.95	22815034.16	0.0140	0.0044
Venus	57753-12-16 20:24 G	22815260.13	22815260.35	22815260.57	0.0140	0.0010
Venus	57754-07-31 05:46 G	22815486.53	22815486.74	22815486.96	0.0140	0.0024
Venus	57755-03-14 15:22 G	22815712.95	22815713.14	22815713.35	0.0141	0.0059
Venus	57755-10-27 00:58 G	22815939.39	22815939.54	22815939.72	0.0141	0.0093
Venus	57756-06-09 11:02 G	22816165.88	22816165.96	22816166.07	0.0141	0.0127
Earth	57759-04-28 11:17 G	22817218.80	22817218.97	22817219.14	0.0142	0.0108
Moon	57759-04-28 13:55 G	22817218.90	22817219.08	22817219.27	0.0142	0.0101 *
Moon	57760-05-02 06:29 G	22817588.53	22817588.77	22817589.01	0.0143	0.0048
Earth	57760-05-02 09:50 G	22817588.67	22817588.91	22817589.16	0.0143	0.0041 *
Earth	57761-05-07 09:07 G	22817958.63	22817958.88	22817959.13	0.0143	0.0027
Moon	57761-05-07 12:43 G	22817958.78	22817959.03	22817959.28	0.0143	0.0033 *
Moon	57762-05-12 05:17 G	22818328.55	22818328.72	22818328.93	0.0143	0.0095
Earth	57762-05-12 08:53 G	22818328.70	22818328.87	22818329.07	0.0143	0.0096 *
Mars	57775-04-02 23:17 G	22823037.19	22823037.47	22823037.75	0.0144	0.0007
Mercury	57788-12-22 11:17 G	22828049.96	22828049.97	22828050.01	0.0140	0.0138
Mercury	57789-03-20 19:12 G	22828138.18	22828138.30	22828138.42	0.0140	0.0108
Mercury	57789-06-17 02:38 G	22828226.46	22828226.61	22828226.77	0.0140	0.0079
Mercury	57789-09-13 10:19 G	22828314.75	22828314.93	22828315.11	0.0140	0.0049
Mercury	57789-12-10 17:46 G	22828403.06	22828403.24	22828403.43	0.0140	0.0020
Mercury	57790-03-09 01:26 G	22828491.37	22828491.56	22828491.75	0.0140	0.0011
Mercury	57790-06-05 09:07 G	22828579.70	22828579.88	22828580.07	0.0139	0.0041
Mercury	57790-09-01 16:48 G	22828668.04	22828668.20	22828668.37	0.0139	0.0071
Mercury	57790-11-29 00:29 G	22828756.39	22828756.52	22828756.66	0.0139	0.0101
Mercury	57791-02-25 08:10 G	22828844.78	22828844.84	22828844.91	0.0139	0.0131
Venus	57791-10-12 14:24 G	22829074.01	22829074.10	22829074.21	0.0139	0.0121

Venus	57792-05-25 22:34 G	22829300.29	22829300.44	22829300.62	0.0139	0.0089
Venus	57793-01-07 06:58 G	22829526.60	22829526.79	22829527.00	0.0138	0.0056
Venus	57793-08-21 15:22 G	22829752.92	22829753.14	22829753.35	0.0138	0.0024
Venus	57794-04-04 23:02 G	22829979.25	22829979.46	22829979.68	0.0138	0.0009
Venus	57794-11-17 06:43 G	22830205.58	22830205.78	22830205.99	0.0138	0.0041
Venus	57795-07-01 14:24 G	22830431.93	22830432.10	22830432.29	0.0137	0.0073
Venus	57796-02-12 21:50 G	22830658.28	22830658.41	22830658.56	0.0137	0.0104
Venus	57796-09-26 05:17 G	22830884.70	22830884.72	22830884.76	0.0137	0.0135
Earth	57799-10-31 09:22 G	22832014.71	22832014.89	22832015.10	0.0136	0.0088
Moon	57799-10-31 12:43 G	22832014.84	22832015.03	22832015.24	0.0136	0.0083 *
Moon	57800-11-04 15:50 G	22832383.92	22832384.16	22832384.41	0.0136	0.0030
Earth	57800-11-04 19:26 G	22832384.06	22832384.31	22832384.55	0.0136	0.0030 *
Earth	57801-11-09 03:50 G	22832753.42	22832753.66	22832753.92	0.0135	0.0028
Moon	57801-11-09 07:41 G	22832753.57	22832753.82	22832754.07	0.0135	0.0025 *
Moon	57802-11-13 08:53 G	22833122.69	22833122.87	22833123.07	0.0135	0.0088
Earth	57802-11-13 12:14 G	22833122.82	22833123.01	22833123.22	0.0135	0.0083 *
Moon	57803-11-17 23:31 G	22833492.44	22833492.48	22833492.55	0.0135	0.0131
Mars	57817-08-05 08:53 G	22838501.60	22838501.87	22838502.19	0.0134	0.0064
Mercury	57832-09-16 08:38 G	22844022.81	22844022.86	22844022.93	0.0138	0.0122
Mercury	57832-12-13 12:00 G	22844110.92	22844111.00	22844111.10	0.0138	0.0102
Mercury	57833-03-11 15:22 G	22844199.04	22844199.14	22844199.26	0.0138	0.0082
Mercury	57833-06-07 18:58 G	22844287.17	22844287.29	22844287.41	0.0138	0.0061
Mercury	57833-09-03 22:19 G	22844375.30	22844375.43	22844375.56	0.0138	0.0040
Mercury	57833-12-01 01:41 G	22844463.44	22844463.57	22844463.70	0.0139	0.0020
Mercury	57834-02-27 05:02 G	22844551.57	22844551.71	22844551.84	0.0139	0.0002
Mercury	57834-05-26 08:24 G	22844639.72	22844639.85	22844639.98	0.0139	0.0021
Mercury	57834-08-22 11:31 G	22844727.86	22844727.98	22844728.11	0.0139	0.0042
Mercury	57834-11-18 14:53 G	22844816.01	22844816.12	22844816.24	0.0139	0.0062
Mercury	57835-02-14 18:14 G	22844904.16	22844904.26	22844904.37	0.0139	0.0082
Mercury	57835-05-13 21:36 G	22844992.31	22844992.40	22844992.49	0.0139	0.0102

Mercury	57835-08-10 00:43 G	22845080.48	22845080.53	22845080.60	0.0139	0.0123
Venus	57835-10-08 01:12 G	22845139.47	22845139.55	22845139.67	0.0139	0.0125
Venus	57836-05-21 10:19 G	22845365.78	22845365.93	22845366.10	0.0140	0.0091
Venus	57837-01-02 19:41 G	22845592.12	22845592.32	22845592.52	0.0140	0.0058
Venus	57837-08-17 05:02 G	22845818.49	22845818.71	22845818.92	0.0140	0.0024
Venus	57838-03-31 14:24 G	22846044.88	22846045.10	22846045.32	0.0140	0.0010
Venus	57838-11-12 23:46 G	22846271.29	22846271.49	22846271.70	0.0140	0.0044
Venus	57839-06-27 09:36 G	22846497.72	22846497.90	22846498.08	0.0141	0.0078
Venus	57840-02-08 19:12 G	22846724.19	22846724.30	22846724.45	0.0141	0.0113
Earth	57843-04-29 21:50 G	22847900.25	22847900.41	22847900.61	0.0142	0.0103
Moon	57843-04-30 00:43 G	22847900.38	22847900.53	22847900.72	0.0142	0.0110 *
Moon	57844-05-03 18:14 G	22848270.02	22848270.26	22848270.51	0.0143	0.0028
Earth	57844-05-03 20:53 G	22848270.13	22848270.37	22848270.62	0.0143	0.0035 *
Earth	57845-05-08 19:55 G	22848640.09	22848640.33	22848640.59	0.0143	0.0033
Moon	57845-05-08 23:17 G	22848640.22	22848640.47	22848640.73	0.0143	0.0028 *
Moon	57846-05-13 16:19 G	22849010.01	22849010.18	22849010.36	0.0143	0.0104
Earth	57846-05-13 19:55 G	22849010.15	22849010.33	22849010.52	0.0143	0.0101 *
Mercury	57873-01-12 18:58 G	22858751.23	22858751.29	22858751.37	0.0140	0.0129
Mercury	57873-04-11 02:38 G	22858839.48	22858839.61	22858839.75	0.0140	0.0099
Mercury	57873-07-08 10:05 G	22858927.77	22858927.92	22858928.09	0.0140	0.0070
Mercury	57873-10-04 17:46 G	22859016.06	22859016.24	22859016.43	0.0140	0.0040
Mercury	57874-01-01 01:26 G	22859104.37	22859104.56	22859104.75	0.0140	0.0010
Mercury	57874-03-30 09:07 G	22859192.69	22859192.88	22859193.07	0.0140	0.0020
Mercury	57874-06-26 16:34 G	22859281.02	22859281.19	22859281.38	0.0139	0.0050
Mercury	57874-09-23 00:14 G	22859369.36	22859369.51	22859369.67	0.0139	0.0080
Mercury	57874-12-20 07:41 G	22859457.72	22859457.82	22859457.95	0.0139	0.0111
Venus	57875-06-12 23:31 G	22859632.44	22859632.48	22859632.54	0.0139	0.0135
Venus	57876-01-25 07:41 G	22859858.70	22859858.82	22859858.99	0.0139	0.0103
Venus	57876-09-07 16:19 G	22860085.00	22860085.18	22860085.38	0.0139	0.0070
Venus	57877-04-22 00:29 G	22860311.32	22860311.52	22860311.74	0.0138	0.0037

Venus	57877-12-04 08:38 G	22860537.64	22860537.86	22860538.08	0.0138	0.0005
Venus	57878-07-18 16:34 G	22860763.98	22860764.19	22860764.41	0.0138	0.0028
Venus	57879-03-02 00:14 G	22860990.32	22860990.51	22860990.72	0.0138	0.0060
Venus	57879-10-14 07:55 G	22861216.68	22861216.83	22861217.00	0.0137	0.0091
Venus	57880-05-27 15:22 G	22861443.05	22861443.14	22861443.24	0.0137	0.0123
Moon	57882-10-28 09:07 G	22862326.84	22862326.88	22862326.94	0.0136	0.0133
Earth	57883-11-01 22:05 G	22862696.23	22862696.42	22862696.63	0.0136	0.0081
Moon	57883-11-02 01:12 G	22862696.37	22862696.55	22862696.77	0.0136	0.0085 *
Moon	57884-11-05 04:48 G	22863065.46	22863065.70	22863065.95	0.0136	0.0022
Earth	57884-11-05 07:55 G	22863065.58	22863065.83	22863066.08	0.0136	0.0024 *
Earth	57885-11-09 16:34 G	22863434.95	22863435.19	22863435.44	0.0135	0.0033
Moon	57885-11-09 19:55 G	22863435.09	22863435.33	22863435.58	0.0135	0.0036 *
Moon	57886-11-13 21:07 G	22863804.20	22863804.38	22863804.59	0.0135	0.0084
Earth	57886-11-14 00:43 G	22863804.35	22863804.53	22863804.73	0.0135	0.0089 *
Mars	57902-04-02 01:12 G	22869421.47	22869421.55	22869421.68	0.0134	0.0127
Mercury	57916-07-11 12:29 G	22874636.02	22874636.02	22874636.05	0.0138	0.0137
Mercury	57916-10-07 16:05 G	22874724.10	22874724.17	22874724.24	0.0138	0.0116
Mercury	57917-01-03 19:26 G	22874812.22	22874812.31	22874812.41	0.0138	0.0096
Mercury	57917-04-01 22:48 G	22874900.34	22874900.45	22874900.57	0.0138	0.0075
Mercury	57917-06-29 02:10 G	22874988.47	22874988.59	22874988.72	0.0138	0.0055
Mercury	57917-09-25 05:31 G	22875076.60	22875076.73	22875076.86	0.0138	0.0035
Mercury	57917-12-22 08:53 G	22875164.74	22875164.87	22875165.01	0.0138	0.0015
Mercury	57918-03-20 12:14 G	22875252.88	22875253.01	22875253.15	0.0139	0.0007
Mercury	57918-06-16 15:36 G	22875341.02	22875341.15	22875341.28	0.0139	0.0027
Mercury	57918-09-12 18:58 G	22875429.17	22875429.29	22875429.42	0.0139	0.0047
Mercury	57918-12-09 22:05 G	22875517.31	22875517.42	22875517.55	0.0139	0.0068
Mercury	57919-03-08 01:26 G	22875605.47	22875605.56	22875605.67	0.0139	0.0088
Mercury	57919-06-04 04:48 G	22875693.62	22875693.70	22875693.79	0.0139	0.0108
Venus	57919-06-08 09:36 G	22875697.89	22875697.90	22875697.94	0.0139	0.0138
Mercury	57919-08-31 08:10 G	22875781.80	22875781.84	22875781.89	0.0139	0.0129

Venus	57920-01-20 18:43 G	22875924.15	22875924.28	22875924.43	0.0139	0.0105
Venus	57920-09-03 03:36 G	22876150.48	22876150.65	22876150.85	0.0140	0.0073
Venus	57921-04-17 12:58 G	22876376.83	22876377.04	22876377.25	0.0140	0.0039
Venus	57921-11-29 22:19 G	22876603.21	22876603.43	22876603.65	0.0140	0.0005
Venus	57922-07-14 07:41 G	22876829.61	22876829.82	22876830.04	0.0140	0.0029
Venus	57923-02-25 17:17 G	22877056.04	22877056.22	22877056.43	0.0141	0.0064
Venus	57923-10-10 03:07 G	22877282.48	22877282.63	22877282.79	0.0141	0.0098
Venus	57924-05-23 12:58 G	22877508.98	22877509.04	22877509.12	0.0141	0.0132
Earth	57927-05-01 08:10 G	22878581.66	22878581.84	22878582.04	0.0142	0.0097
Moon	57927-05-01 09:50 G	22878581.72	22878581.91	22878582.12	0.0142	0.0091 *
Moon	57928-05-05 04:05 G	22878951.43	22878951.67	22878951.91	0.0143	0.0038
Earth	57928-05-05 06:43 G	22878951.53	22878951.78	22878952.03	0.0143	0.0030 *
Earth	57929-05-10 05:46 G	22879321.50	22879321.74	22879321.99	0.0143	0.0037
Moon	57929-05-10 08:38 G	22879321.62	22879321.86	22879322.12	0.0143	0.0044 *
Moon	57930-05-15 02:10 G	22879691.44	22879691.59	22879691.78	0.0143	0.0104
Earth	57930-05-15 05:31 G	22879691.57	22879691.73	22879691.92	0.0143	0.0105 *
Mars	57942-08-22 13:26 G	22884173.95	22884174.06	22884174.20	0.0144	0.0129
Mercury	57957-02-03 02:53 G	22889452.52	22889452.62	22889452.71	0.0140	0.0120
Mercury	57957-05-02 10:05 G	22889540.79	22889540.92	22889541.07	0.0140	0.0090
Mercury	57957-07-29 17:46 G	22889629.08	22889629.24	22889629.42	0.0140	0.0060
Mercury	57957-10-26 01:26 G	22889717.38	22889717.56	22889717.75	0.0140	0.0030
Mercury	57958-01-22 09:07 G	22889805.69	22889805.88	22889806.07	0.0140	0.0001
Mercury	57958-04-20 16:34 G	22889894.01	22889894.19	22889894.38	0.0140	0.0030
Mercury	57958-07-18 00:14 G	22889982.34	22889982.51	22889982.69	0.0140	0.0060
Mercury	57958-10-14 07:55 G	22890070.69	22890070.83	22890070.98	0.0139	0.0090
Mercury	57959-01-10 15:36 G	22890159.06	22890159.15	22890159.25	0.0139	0.0120
Venus	57959-09-25 17:02 G	22890417.11	22890417.21	22890417.35	0.0139	0.0116
Venus	57960-05-09 01:41 G	22890643.40	22890643.57	22890643.75	0.0139	0.0083
Venus	57960-12-21 09:50 G	22890869.72	22890869.91	22890870.13	0.0139	0.0051
Venus	57961-08-04 18:29 G	22891096.05	22891096.27	22891096.49	0.0138	0.0018

Venus	57962-03-19 02:24 G	22891322.39	22891322.60	22891322.82	0.0138	0.0015
Venus	57962-10-31 10:19 G	22891548.73	22891548.93	22891549.14	0.0138	0.0047
Venus	57963-06-14 18:00 G	22891775.08	22891775.25	22891775.43	0.0138	0.0079
Venus	57964-01-27 01:26 G	22892001.45	22892001.56	22892001.70	0.0137	0.0111
Earth	57966-10-30 00:14 G	22893008.48	22893008.51	22893008.58	0.0136	0.0133
Earth	57967-11-03 10:34 G	22893377.75	22893377.94	22893378.16	0.0136	0.0076
Moon	57967-11-03 13:26 G	22893377.84	22893378.06	22893378.28	0.0136	0.0070 *
Moon	57968-11-06 17:17 G	22893746.99	22893747.22	22893747.48	0.0136	0.0020
Earth	57968-11-06 20:24 G	22893747.11	22893747.35	22893747.61	0.0136	0.0019 *
Earth	57969-11-11 05:02 G	22894116.48	22894116.71	22894116.96	0.0135	0.0039
Moon	57969-11-11 08:10 G	22894116.60	22894116.84	22894117.09	0.0135	0.0037 *
Moon	57970-11-15 10:48 G	22894485.78	22894485.95	22894486.12	0.0135	0.0099
Earth	57970-11-15 13:26 G	22894485.89	22894486.06	22894486.25	0.0135	0.0094 *
Mercury	58000-07-31 20:10 G	22905337.31	22905337.34	22905337.40	0.0138	0.0129
Mercury	58000-10-27 23:46 G	22905425.41	22905425.49	22905425.57	0.0138	0.0108

59TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 59th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	58001-01-24 03:07 G	22905513.53	22905513.63	22905513.74	0.0138	0.0088		
Mercury	58001-04-22 06:29 G	22905601.66	22905601.77	22905601.89	0.0138	0.0068		
Mercury	58001-07-19 09:50 G	22905689.79	22905689.91	22905690.04	0.0138	0.0047		
Mercury	58001-10-15 13:12 G	22905777.92	22905778.05	22905778.19	0.0138	0.0027		

Mercury	58002-01-11 16:34 G	22905866.06	22905866.19	22905866.33	0.0138	0.0008
Mercury	58002-04-09 19:55 G	22905954.20	22905954.33	22905954.47	0.0139	0.0015
Mercury	58002-07-06 23:17 G	22906042.34	22906042.47	22906042.60	0.0139	0.0035
Mercury	58002-10-03 02:38 G	22906130.49	22906130.61	22906130.73	0.0139	0.0055
Mercury	58002-12-30 06:00 G	22906218.64	22906218.75	22906218.86	0.0139	0.0075
Mercury	58003-03-28 09:07 G	22906306.79	22906306.88	22906306.98	0.0139	0.0096
Mercury	58003-06-24 12:29 G	22906394.96	22906395.02	22906395.10	0.0139	0.0116
Venus	58003-09-20 04:19 G	22906482.59	22906482.68	22906482.81	0.0139	0.0119
Mercury	58003-09-20 15:50 G	22906483.14	22906483.16	22906483.19	0.0139	0.0136
Venus	58004-05-03 13:26 G	22906708.90	22906709.06	22906709.24	0.0139	0.0085
Venus	58004-12-15 22:48 G	22906935.25	22906935.45	22906935.65	0.0140	0.0052
Venus	58005-07-30 07:55 G	22907161.62	22907161.83	22907162.05	0.0140	0.0018
Venus	58006-03-13 17:17 G	22907388.01	22907388.22	22907388.44	0.0140	0.0016
Venus	58006-10-26 02:38 G	22907614.42	22907614.61	22907614.83	0.0140	0.0051
Venus	58007-06-09 12:14 G	22907840.85	22907841.01	22907841.20	0.0141	0.0085
Venus	58008-01-21 22:05 G	22908067.32	22908067.42	22908067.55	0.0141	0.0119
Earth	58011-05-01 20:53 G	22909263.18	22909263.37	22909263.58	0.0142	0.0091
Moon	58011-05-01 22:19 G	22909263.26	22909263.43	22909263.65	0.0142	0.0098 *
Moon	58012-05-05 18:00 G	22909633.00	22909633.25	22909633.49	0.0142	0.0017
Earth	58012-05-05 19:26 G	22909633.07	22909633.31	22909633.57	0.0142	0.0025 *
Earth	58013-05-10 18:29 G	22910003.04	22910003.27	22910003.52	0.0143	0.0044
Moon	58013-05-10 21:22 G	22910003.14	22910003.39	22910003.65	0.0143	0.0038 *
Moon	58014-05-15 15:36 G	22910373.01	22910373.15	22910373.30	0.0143	0.0115
Earth	58014-05-15 18:29 G	22910373.11	22910373.27	22910373.43	0.0143	0.0111 *
Mars	58027-04-17 17:02 G	22915092.97	22915093.21	22915093.47	0.0144	0.0068
Mercury	58040-11-27 02:53 G	22920065.61	22920065.62	22920065.65	0.0140	0.0139
Mercury	58041-02-23 10:34 G	22920153.83	22920153.94	22920154.06	0.0140	0.0110
Mercury	58041-05-22 18:00 G	22920242.10	22920242.25	22920242.41	0.0140	0.0080
Mercury	58041-08-19 01:41 G	22920330.40	22920330.57	22920330.75	0.0140	0.0050
Mercury	58041-11-15 09:22 G	22920418.70	22920418.89	22920419.08	0.0140	0.0020

Mercury	58042-02-11 17:02 G	22920507.02	22920507.21	22920507.40	0.0140	0.0010
Mercury	58042-05-11 00:29 G	22920595.34	22920595.52	22920595.71	0.0140	0.0040
Mercury	58042-08-07 08:10 G	22920683.68	22920683.84	22920684.01	0.0140	0.0070
Mercury	58042-11-03 15:50 G	22920772.03	22920772.16	22920772.30	0.0139	0.0100
Mercury	58043-01-30 23:17 G	22920860.42	22920860.47	22920860.55	0.0139	0.0130
Venus	58043-05-26 02:38 G	22920975.55	22920975.61	22920975.71	0.0139	0.0129
Venus	58044-01-07 11:17 G	22921201.83	22921201.97	22921202.14	0.0139	0.0096
Venus	58044-08-20 20:10 G	22921428.14	22921428.34	22921428.53	0.0139	0.0063
Venus	58045-04-04 04:19 G	22921654.47	22921654.68	22921654.89	0.0138	0.0030
Venus	58045-11-16 12:29 G	22921880.80	22921881.02	22921881.24	0.0138	0.0002
Venus	58046-06-30 20:24 G	22922107.14	22922107.35	22922107.57	0.0138	0.0035
Venus	58047-02-12 04:19 G	22922333.49	22922333.68	22922333.87	0.0138	0.0067
Venus	58047-09-26 11:46 G	22922559.85	22922559.99	22922560.15	0.0137	0.0099
Venus	58048-05-09 19:12 G	22922786.25	22922786.30	22922786.39	0.0137	0.0130
Moon	58050-10-30 11:46 G	22923689.87	22923689.99	22923690.10	0.0136	0.0121
Earth	58050-10-30 13:12 G	22923689.98	22923690.05	22923690.15	0.0136	0.0128 *
Earth	58051-11-03 23:17 G	22924059.27	22924059.47	22924059.71	0.0136	0.0070
Moon	58051-11-04 02:10 G	22924059.39	22924059.59	22924059.82	0.0136	0.0074 *
Moon	58052-11-07 06:58 G	22924428.54	22924428.79	22924429.03	0.0136	0.0010
Earth	58052-11-07 09:07 G	22924428.63	22924428.88	22924429.14	0.0136	0.0013 *
Earth	58053-11-11 18:00 G	22924798.01	22924798.25	22924798.49	0.0135	0.0044
Moon	58053-11-11 20:38 G	22924798.12	22924798.36	22924798.61	0.0135	0.0046 *
Moon	58054-11-15 23:17 G	22925167.31	22925167.47	22925167.66	0.0135	0.0096
Earth	58054-11-16 01:55 G	22925167.44	22925167.58	22925167.77	0.0135	0.0101 *
Mars	58069-08-18 11:02 G	22930556.63	22930556.96	22930557.29	0.0134	0.0015
Jupiter	58074-05-26 20:10 G	22932298.90	22932299.34	22932299.81	0.0135	0.0053
Mercury	58084-08-21 03:50 G	22936038.60	22936038.66	22936038.72	0.0138	0.0122
Mercury	58084-11-17 07:12 G	22936126.72	22936126.80	22936126.90	0.0138	0.0102
Mercury	58085-02-13 10:34 G	22936214.84	22936214.94	22936215.05	0.0138	0.0082
Mercury	58085-05-12 13:55 G	22936302.97	22936303.08	22936303.21	0.0138	0.0061

Mercury	58085-08-08 17:31 G	22936391.10	22936391.23	22936391.36	0.0138	0.0040
Mercury	58085-11-04 20:53 G	22936479.24	22936479.37	22936479.50	0.0138	0.0020
Mercury	58086-02-01 00:14 G	22936567.37	22936567.51	22936567.64	0.0138	0.0002
Mercury	58086-04-30 03:36 G	22936655.52	22936655.65	22936655.78	0.0139	0.0021
Mercury	58086-07-27 06:43 G	22936743.66	22936743.78	22936743.91	0.0139	0.0042
Mercury	58086-10-23 10:05 G	22936831.81	22936831.92	22936832.04	0.0139	0.0062
Mercury	58087-01-19 13:26 G	22936919.96	22936920.06	22936920.17	0.0139	0.0082
Mercury	58087-04-17 16:48 G	22937008.12	22937008.20	22937008.29	0.0139	0.0102
Venus	58087-05-20 13:26 G	22937041.01	22937041.06	22937041.15	0.0139	0.0131
Mercury	58087-07-14 19:55 G	22937096.28	22937096.33	22937096.40	0.0139	0.0123
Venus	58088-01-01 22:34 G	22937267.30	22937267.44	22937267.61	0.0139	0.0098
Venus	58088-08-15 07:41 G	22937493.63	22937493.82	22937494.02	0.0139	0.0065
Venus	58089-03-29 16:48 G	22937719.99	22937720.20	22937720.42	0.0140	0.0031
Venus	58089-11-11 02:10 G	22937946.37	22937946.59	22937946.81	0.0140	0.0003
Venus	58090-06-25 11:31 G	22938172.77	22938172.98	22938173.19	0.0140	0.0037
Venus	58091-02-06 21:07 G	22938399.20	22938399.38	22938399.57	0.0141	0.0071
Venus	58091-09-21 06:58 G	22938625.65	22938625.79	22938625.93	0.0141	0.0105
Venus	58092-05-04 16:48 G	22938852.17	22938852.20	22938852.23	0.0141	0.0139
Earth	58095-05-02 08:10 G	22939944.65	22939944.84	22939945.06	0.0142	0.0086
Moon	58095-05-02 09:07 G	22939944.66	22939944.88	22939945.10	0.0142	0.0081 *
Moon	58096-05-06 05:17 G	22940314.48	22940314.72	22940314.97	0.0142	0.0026
Earth	58096-05-06 06:58 G	22940314.54	22940314.79	22940315.05	0.0142	0.0019 *
Earth	58097-05-11 05:46 G	22940684.52	22940684.74	22940685.00	0.0143	0.0049
Moon	58097-05-11 07:41 G	22940684.59	22940684.82	22940685.08	0.0143	0.0056 *
Moon	58098-05-16 03:22 G	22941054.50	22941054.64	22941054.80	0.0143	0.0113
Earth	58098-05-16 05:46 G	22941054.61	22941054.74	22941054.90	0.0143	0.0117 *
Mercury	58124-12-18 11:02 G	22950766.90	22950766.96	22950767.05	0.0140	0.0128
Mercury	58125-03-16 18:43 G	22950855.16	22950855.28	22950855.42	0.0140	0.0098
Mercury	58125-06-13 02:24 G	22950943.44	22950943.60	22950943.77	0.0140	0.0068
Mercury	58125-09-09 09:50 G	22951031.74	22951031.91	22951032.10	0.0140	0.0039

Mercury	58125-12-06 17:31 G	22951120.04	22951120.23	22951120.42	0.0140	0.0009
Mercury	58126-03-05 01:12 G	22951208.36	22951208.55	22951208.74	0.0140	0.0021
Mercury	58126-06-01 08:38 G	22951296.69	22951296.86	22951297.05	0.0140	0.0052
Mercury	58126-08-28 16:19 G	22951385.04	22951385.18	22951385.35	0.0140	0.0082
Mercury	58126-11-25 00:00 G	22951473.40	22951473.50	22951473.62	0.0139	0.0112
Venus	58127-09-07 21:36 G	22951760.28	22951760.40	22951760.55	0.0139	0.0108
Venus	58128-04-21 06:14 G	22951986.59	22951986.76	22951986.95	0.0139	0.0075
Venus	58128-12-03 14:53 G	22952212.91	22952213.12	22952213.33	0.0139	0.0042
Venus	58129-07-17 23:17 G	22952439.25	22952439.47	22952439.69	0.0138	0.0009
Venus	58130-03-01 07:12 G	22952665.59	22952665.80	22952666.02	0.0138	0.0024
Venus	58130-10-13 14:53 G	22952891.94	22952892.12	22952892.33	0.0138	0.0056
Venus	58131-05-27 22:34 G	22953118.29	22953118.44	22953118.62	0.0138	0.0088
Venus	58132-01-09 06:14 G	22953344.67	22953344.76	22953344.88	0.0137	0.0119
Moon	58134-11-01 00:43 G	22954371.48	22954371.53	22954371.63	0.0136	0.0130
Earth	58134-11-01 03:07 G	22954371.53	22954371.63	22954371.75	0.0136	0.0122 *
Earth	58135-11-05 13:12 G	22954740.84	22954741.05	22954741.28	0.0136	0.0064
Moon	58135-11-05 14:53 G	22954740.89	22954741.12	22954741.36	0.0136	0.0058 *
Moon	58136-11-08 20:38 G	22955110.12	22955110.36	22955110.61	0.0136	0.0009
Earth	58136-11-08 22:48 G	22955110.20	22955110.45	22955110.71	0.0136	0.0008 *
Earth	58137-11-13 07:26 G	22955479.59	22955479.81	22955480.06	0.0135	0.0050
Moon	58137-11-13 09:36 G	22955479.67	22955479.90	22955480.16	0.0135	0.0050 *
Moon	58138-11-17 13:26 G	22955848.94	22955849.06	22955849.23	0.0135	0.0109
Earth	58138-11-17 15:50 G	22955849.02	22955849.16	22955849.33	0.0135	0.0105 *
Mercury	58168-06-15 07:55 G	22966651.82	22966651.83	22966651.87	0.0138	0.0135
Mercury	58168-09-11 11:31 G	22966739.91	22966739.98	22966740.06	0.0138	0.0114
Mercury	58168-12-08 14:53 G	22966828.03	22966828.12	22966828.23	0.0138	0.0094
Mercury	58169-03-06 18:29 G	22966916.16	22966916.27	22966916.38	0.0138	0.0073
Mercury	58169-06-02 21:50 G	22967004.29	22967004.41	22967004.53	0.0138	0.0053
Mercury	58169-08-30 01:12 G	22967092.42	22967092.55	22967092.68	0.0138	0.0032
Mercury	58169-11-26 04:34 G	22967180.56	22967180.69	22967180.83	0.0138	0.0012

Mercury	58170-02-22 07:55 G	22967268.70	22967268.83	22967268.97	0.0139	0.0009
Mercury	58170-05-21 11:17 G	22967356.84	22967356.97	22967357.10	0.0139	0.0029
Mercury	58170-08-17 14:38 G	22967444.99	22967445.11	22967445.24	0.0139	0.0049
Mercury	58170-11-13 18:00 G	22967533.14	22967533.25	22967533.37	0.0139	0.0070
Mercury	58171-02-09 21:22 G	22967621.29	22967621.39	22967621.49	0.0139	0.0090
Mercury	58171-05-09 00:43 G	22967709.45	22967709.53	22967709.61	0.0139	0.0110
Mercury	58171-08-05 03:50 G	22967797.62	22967797.66	22967797.71	0.0139	0.0131
Venus	58171-09-02 08:38 G	22967825.74	22967825.86	22967826.00	0.0139	0.0111
Venus	58172-04-15 17:31 G	22968052.06	22968052.23	22968052.42	0.0139	0.0078
Venus	58172-11-28 02:38 G	22968278.41	22968278.61	22968278.82	0.0140	0.0044
Venus	58173-07-12 12:00 G	22968504.78	22968505.00	22968505.22	0.0140	0.0010
Venus	58174-02-23 21:22 G	22968731.18	22968731.39	22968731.61	0.0140	0.0024
Venus	58174-10-08 06:29 G	22968957.59	22968957.77	22968957.98	0.0140	0.0059
Venus	58175-05-22 16:05 G	22969184.02	22969184.17	22969184.35	0.0141	0.0093
Venus	58176-01-04 01:41 G	22969410.50	22969410.57	22969410.68	0.0141	0.0127
Earth	58179-05-03 21:36 G	22970626.19	22970626.40	22970626.62	0.0142	0.0080
Moon	58179-05-03 21:50 G	22970626.22	22970626.41	22970626.64	0.0142	0.0085 *
Moon	58180-05-07 19:41 G	22970996.07	22970996.32	22970996.57	0.0143	0.0006
Earth	58180-05-07 20:10 G	22970996.09	22970996.34	22970996.60	0.0143	0.0013 *
Earth	58181-05-12 19:12 G	22971366.07	22971366.30	22971366.55	0.0143	0.0055
Moon	58181-05-12 21:07 G	22971366.13	22971366.38	22971366.63	0.0143	0.0048 *
Moon	58182-05-17 17:02 G	22971736.11	22971736.21	22971736.33	0.0143	0.0127
Earth	58182-05-17 18:58 G	22971736.17	22971736.29	22971736.44	0.0143	0.0122 *
Mars	58194-09-05 15:36 G	22976229.90	22976230.15	22976230.42	0.0144	0.0055
Jupiter	58198-12-08 22:48 G	22977784.92	22977785.45	22977786.01	0.0144	0.0013
Mercury	58209-01-08 19:41 G	22981468.23	22981468.32	22981468.44	0.0140	0.0115
Mercury	58209-04-07 03:22 G	22981556.50	22981556.64	22981556.79	0.0140	0.0085
Mercury	58209-07-04 10:48 G	22981644.79	22981644.95	22981645.13	0.0140	0.0056
Mercury	58209-09-30 18:29 G	22981733.09	22981733.27	22981733.46	0.0140	0.0026
Mercury	58209-12-28 02:10 G	22981821.40	22981821.59	22981821.78	0.0140	0.0004

Mercury	58210-03-26 09:50 G	22981909.73	22981909.91	22981910.10	0.0140	0.0034
Mercury	58210-06-22 17:17 G	22981998.06	22981998.22	22981998.40	0.0140	0.0065
Mercury	58210-09-19 00:58 G	22982086.41	22982086.54	22982086.69	0.0139	0.0095
Mercury	58210-12-16 08:38 G	22982174.79	22982174.86	22982174.96	0.0139	0.0125
Venus	58211-05-09 08:24 G	22982318.76	22982318.85	22982318.98	0.0139	0.0121
Venus	58211-12-21 17:17 G	22982545.06	22982545.22	22982545.40	0.0139	0.0087
Venus	58212-08-04 01:55 G	22982771.39	22982771.58	22982771.79	0.0139	0.0054
Venus	58213-03-18 10:19 G	22982997.72	22982997.93	22982998.15	0.0138	0.0021
Venus	58213-10-30 18:29 G	22983224.05	22983224.27	22983224.49	0.0138	0.0012
Venus	58214-06-14 02:24 G	22983450.40	22983450.60	22983450.81	0.0138	0.0044
Venus	58215-01-26 10:05 G	22983676.75	22983676.92	22983677.11	0.0138	0.0077
Venus	58215-09-09 17:46 G	22983903.12	22983903.24	22983903.39	0.0138	0.0108
Moon	58218-11-02 16:05 G	22985053.05	22985053.17	22985053.34	0.0136	0.0110
Earth	58218-11-02 17:17 G	22985053.10	22985053.22	22985053.36	0.0136	0.0116 *
Earth	58219-11-07 03:22 G	22985422.42	22985422.64	22985422.88	0.0136	0.0059
Moon	58219-11-07 05:17 G	22985422.50	22985422.72	22985422.96	0.0136	0.0063 *
Moon	58220-11-10 11:46 G	22985791.74	22985791.99	22985792.23	0.0136	0.0003
Earth	58220-11-10 12:58 G	22985791.79	22985792.04	22985792.30	0.0136	0.0002 *
Earth	58221-11-14 21:36 G	22986161.18	22986161.40	22986161.64	0.0135	0.0056
Moon	58221-11-14 23:46 G	22986161.25	22986161.49	22986161.73	0.0135	0.0056 *
Moon	58222-11-19 04:05 G	22986530.54	22986530.67	22986530.83	0.0135	0.0108
Earth	58222-11-19 06:00 G	22986530.62	22986530.75	22986530.91	0.0135	0.0111 *
Mars	58237-01-05 21:36 G	22991692.18	22991692.40	22991692.66	0.0134	0.0095
Mercury	58252-07-06 15:36 G	22997353.11	22997353.15	22997353.21	0.0138	0.0128
Mercury	58252-10-02 19:12 G	22997441.22	22997441.30	22997441.38	0.0138	0.0107
Mercury	58252-12-29 22:34 G	22997529.34	22997529.44	22997529.55	0.0138	0.0087
Mercury	58253-03-28 01:55 G	22997617.47	22997617.58	22997617.70	0.0138	0.0066
Mercury	58253-06-24 05:17 G	22997705.60	22997705.72	22997705.85	0.0138	0.0046
Mercury	58253-09-20 08:38 G	22997793.73	22997793.86	22997794.00	0.0138	0.0026
Mercury	58253-12-17 12:14 G	22997881.87	22997882.01	22997882.14	0.0138	0.0007

Mercury	58254-03-15 15:22 G	22997970.01	22997970.14	22997970.28	0.0138	0.0016
Mercury	58254-06-11 18:43 G	22998058.16	22998058.28	22998058.41	0.0139	0.0036
Mercury	58254-09-07 22:05 G	22998146.30	22998146.42	22998146.55	0.0139	0.0056
Mercury	58254-12-05 01:26 G	22998234.45	22998234.56	22998234.67	0.0139	0.0077
Mercury	58255-03-03 04:48 G	22998322.61	22998322.70	22998322.80	0.0139	0.0097
Venus	58255-05-03 17:46 G	22998384.15	22998384.24	22998384.35	0.0139	0.0123
Mercury	58255-05-30 08:10 G	22998410.77	22998410.84	22998410.91	0.0139	0.0117
Mercury	58255-08-26 11:31 G	22998498.96	22998498.98	22998499.00	0.0139	0.0137
Venus	58255-12-16 02:38 G	22998610.45	22998610.61	22998610.78	0.0139	0.0090
Venus	58256-07-29 11:31 G	22998836.79	22998836.98	22998837.19	0.0139	0.0057
Venus	58257-03-12 20:38 G	22999063.15	22999063.36	22999063.58	0.0140	0.0024
Venus	58257-10-25 05:46 G	22999289.53	22999289.74	22999289.96	0.0140	0.0011
Venus	58258-06-08 15:07 G	22999515.93	22999516.13	22999516.34	0.0140	0.0044
Venus	58259-01-21 00:43 G	22999742.35	22999742.53	22999742.71	0.0141	0.0079
Venus	58259-09-04 10:05 G	22999968.80	22999968.92	22999969.06	0.0141	0.0113
Earth	58262-04-30 10:19 G	23000937.92	23000937.93	23000937.98	0.0142	0.0141
Moon	58262-04-30 11:31 G	23000937.98	23000937.98	23000937.99	0.0142	0.0142 *
Moon	58263-05-05 07:41 G	23001307.59	23001307.82	23001308.05	0.0142	0.0072
Earth	58263-05-05 08:24 G	23001307.64	23001307.85	23001308.07	0.0142	0.0076 *
Moon	58264-05-09 06:29 G	23001677.53	23001677.77	23001678.02	0.0142	0.0016
Earth	58264-05-09 06:58 G	23001677.53	23001677.79	23001678.05	0.0142	0.0009 *
Earth	58265-05-14 05:46 G	23002047.52	23002047.74	23002047.99	0.0143	0.0059
Moon	58265-05-14 06:29 G	23002047.55	23002047.77	23002048.02	0.0143	0.0066 *
Moon	58266-05-19 04:19 G	23002417.57	23002417.68	23002417.82	0.0143	0.0122
Earth	58266-05-19 05:46 G	23002417.64	23002417.74	23002417.87	0.0143	0.0126 *
Mars	58279-05-02 14:53 G	23007149.07	23007149.12	23007149.21	0.0144	0.0140
Mercury	58292-11-01 20:24 G	23012081.30	23012081.35	23012081.41	0.0140	0.0133
Mercury	58293-01-29 04:05 G	23012169.55	23012169.67	23012169.80	0.0140	0.0104
Mercury	58293-04-27 11:31 G	23012257.83	23012257.98	23012258.15	0.0140	0.0074
Mercury	58293-07-24 19:12 G	23012346.12	23012346.30	23012346.48	0.0140	0.0044

Mercury	58293-10-21 02:53 G	23012434.43	23012434.62	23012434.81	0.0140	0.0014
Mercury	58294-01-17 10:34 G	23012522.75	23012522.94	23012523.13	0.0140	0.0016
Mercury	58294-04-15 18:00 G	23012611.08	23012611.25	23012611.44	0.0140	0.0046
Mercury	58294-07-13 01:26 G	23012699.42	23012699.56	23012699.74	0.0140	0.0077
Mercury	58294-10-09 09:07 G	23012787.78	23012787.88	23012788.02	0.0140	0.0107
Mercury	58295-01-05 17:02 G	23012876.18	23012876.21	23012876.26	0.0139	0.0137
Venus	58295-01-06 18:58 G	23012877.24	23012877.29	23012877.36	0.0139	0.0133
Venus	58295-08-21 03:50 G	23013103.52	23013103.66	23013103.82	0.0139	0.0099
Venus	58296-04-03 12:29 G	23013329.83	23013330.02	23013330.22	0.0139	0.0066
Venus	58296-11-15 20:53 G	23013556.16	23013556.37	23013556.59	0.0139	0.0033
Venus	58297-06-30 05:17 G	23013782.51	23013782.72	23013782.94	0.0138	0.0003
Venus	58298-02-11 13:12 G	23014008.85	23014009.05	23014009.27	0.0138	0.0034
Venus	58298-09-25 21:22 G	23014235.20	23014235.39	23014235.59	0.0138	0.0065
Venus	58299-05-10 05:02 G	23014461.56	23014461.71	23014461.87	0.0138	0.0097
Venus	58299-12-22 12:29 G	23014687.96	23014688.02	23014688.11	0.0137	0.0129
Moon	58302-11-04 06:58 G	23015734.67	23015734.79	23015734.92	0.0136	0.0117
Earth	58302-11-04 07:41 G	23015734.69	23015734.82	23015734.98	0.0136	0.0110 *
Earth	58303-11-08 18:00 G	23016104.02	23016104.25	23016104.49	0.0136	0.0052
Moon	58303-11-08 18:29 G	23016104.03	23016104.27	23016104.53	0.0136	0.0046 *
Moon	58304-11-12 02:24 G	23016473.35	23016473.60	23016473.84	0.0136	0.0003
Earth	58304-11-12 03:36 G	23016473.40	23016473.65	23016473.90	0.0136	0.0005 *
Earth	58305-11-16 12:14 G	23016842.80	23016843.01	23016843.25	0.0135	0.0062
Moon	58305-11-16 13:41 G	23016842.84	23016843.07	23016843.31	0.0135	0.0062 *
Moon	58306-11-20 19:26 G	23017212.21	23017212.31	23017212.43	0.0135	0.0120
Earth	58306-11-20 21:07 G	23017212.25	23017212.38	23017212.50	0.0135	0.0117 *
Mars	58321-09-02 18:43 G	23022612.09	23022612.28	23022612.53	0.0134	0.0101
Mercury	58336-07-27 23:31 G	23028054.42	23028054.48	23028054.55	0.0138	0.0119
Mercury	58336-10-24 02:53 G	23028142.53	23028142.62	23028142.72	0.0138	0.0099
Mercury	58337-01-20 06:14 G	23028230.65	23028230.76	23028230.87	0.0138	0.0079
Mercury	58337-04-18 09:36 G	23028318.78	23028318.90	23028319.03	0.0138	0.0058

Mercury	58337-07-15 12:58 G	23028406.92	23028407.04	23028407.18	0.0138	0.0038
Mercury	58337-10-11 16:34 G	23028495.05	23028495.19	23028495.32	0.0138	0.0018
Mercury	58338-01-07 19:55 G	23028583.19	23028583.33	23028583.46	0.0138	0.0005
Mercury	58338-04-05 23:17 G	23028671.34	23028671.47	23028671.60	0.0138	0.0024
Mercury	58338-07-03 02:38 G	23028759.48	23028759.61	23028759.73	0.0139	0.0044
Mercury	58338-09-29 05:46 G	23028847.63	23028847.74	23028847.86	0.0139	0.0064
Mercury	58338-12-26 09:07 G	23028935.78	23028935.88	23028935.99	0.0139	0.0084
Venus	58339-01-02 03:50 G	23028942.63	23028942.66	23028942.71	0.0139	0.0136
Mercury	58339-03-24 12:14 G	23029023.94	23029024.01	23029024.11	0.0139	0.0105
Mercury	58339-06-20 15:36 G	23029112.11	23029112.15	23029112.22	0.0139	0.0125
Venus	58339-08-16 12:29 G	23029168.88	23029169.02	23029169.17	0.0139	0.0103
Venus	58340-03-29 21:07 G	23029395.20	23029395.38	23029395.58	0.0139	0.0071
Venus	58340-11-11 06:14 G	23029621.55	23029621.76	23029621.97	0.0140	0.0037
Venus	58341-06-25 15:22 G	23029847.92	23029848.14	23029848.36	0.0140	0.0004
Venus	58342-02-07 00:29 G	23030074.31	23030074.52	23030074.74	0.0140	0.0031
Venus	58342-09-21 09:36 G	23030300.72	23030300.90	23030301.11	0.0140	0.0066
Venus	58343-05-05 18:58 G	23030527.15	23030527.29	23030527.46	0.0141	0.0100
Venus	58343-12-18 04:34 G	23030753.64	23030753.69	23030753.77	0.0141	0.0134
Earth	58346-05-01 22:48 G	23031619.40	23031619.45	23031619.55	0.0142	0.0135
Moon	58346-05-02 00:43 G	23031619.48	23031619.53	23031619.62	0.0142	0.0136 *
Moon	58347-05-06 19:55 G	23031989.12	23031989.33	23031989.57	0.0142	0.0074
Earth	58347-05-06 20:53 G	23031989.15	23031989.37	23031989.60	0.0142	0.0069 *
Earth	58348-05-10 19:26 G	23032359.06	23032359.31	23032359.57	0.0142	0.0003
Moon	58348-05-10 20:10 G	23032359.09	23032359.34	23032359.59	0.0142	0.0004 *
Earth	58349-05-15 18:43 G	23032729.05	23032729.28	23032729.51	0.0143	0.0064
Moon	58349-05-15 19:12 G	23032729.05	23032729.30	23032729.54	0.0143	0.0057 *
Moon	58350-05-20 17:31 G	23033099.17	23033099.23	23033099.31	0.0143	0.0138
Earth	58350-05-20 18:29 G	23033099.18	23033099.27	23033099.37	0.0143	0.0131 *
Mercury	58376-11-23 04:19 G	23042782.61	23042782.68	23042782.79	0.0140	0.0123
Mercury	58377-02-19 12:00 G	23042870.87	23042871.00	23042871.15	0.0140	0.0092

Mercury	58377-05-18 19:41 G	23042959.16	23042959.32	23042959.49	0.0140	0.0062
Mercury	58377-08-15 03:22 G	23043047.46	23043047.64	23043047.83	0.0140	0.0032
Mercury	58377-11-11 11:02 G	23043135.77	23043135.96	23043136.15	0.0140	0.0003
Mercury	58378-02-07 18:29 G	23043224.09	23043224.27	23043224.46	0.0140	0.0028
Mercury	58378-05-07 02:10 G	23043312.42	23043312.59	23043312.77	0.0140	0.0058
Mercury	58378-08-03 09:50 G	23043400.77	23043400.91	23043401.06	0.0140	0.0088
Mercury	58378-10-30 17:17 G	23043489.14	23043489.22	23043489.34	0.0140	0.0119
Venus	58379-04-21 13:55 G	23043661.96	23043662.08	23043662.21	0.0139	0.0113
Venus	58379-12-03 22:34 G	23043888.27	23043888.44	23043888.62	0.0139	0.0079
Venus	58380-07-17 07:26 G	23044114.60	23044114.81	23044115.01	0.0139	0.0046
Venus	58381-02-28 15:50 G	23044340.94	23044341.16	23044341.38	0.0139	0.0013
Venus	58381-10-12 23:46 G	23044567.28	23044567.49	23044567.71	0.0138	0.0021
Venus	58382-05-27 07:55 G	23044793.63	23044793.83	23044794.03	0.0138	0.0053
Venus	58383-01-08 15:36 G	23045019.99	23045020.15	23045020.33	0.0138	0.0085
Venus	58383-08-22 23:17 G	23045246.37	23045246.47	23045246.60	0.0138	0.0117
Earth	58386-11-04 21:36 G	23046416.24	23046416.40	23046416.57	0.0136	0.0103
Moon	58386-11-04 21:36 G	23046416.24	23046416.40	23046416.59	0.0136	0.0096 *
Earth	58387-11-09 07:55 G	23046785.60	23046785.83	23046786.07	0.0136	0.0045
Moon	58387-11-09 08:24 G	23046785.62	23046785.85	23046786.11	0.0136	0.0051 *
Moon	58388-11-12 17:17 G	23047154.98	23047155.22	23047155.46	0.0136	0.0016
Earth	58388-11-12 17:31 G	23047154.98	23047155.23	23047155.48	0.0136	0.0011 *
Earth	58389-11-17 02:24 G	23047524.39	23047524.60	23047524.83	0.0135	0.0068
Moon	58389-11-17 03:07 G	23047524.42	23047524.63	23047524.87	0.0135	0.0068 *
Moon	58390-11-21 09:50 G	23047893.83	23047893.91	23047894.04	0.0135	0.0121
Earth	58390-11-21 10:48 G	23047893.87	23047893.95	23047894.07	0.0135	0.0123 *
Mercury	58420-05-21 03:50 G	23058667.62	23058667.66	23058667.69	0.0138	0.0132
Mercury	58420-08-17 06:58 G	23058755.72	23058755.79	23058755.88	0.0138	0.0112
Mercury	58420-11-13 10:34 G	23058843.84	23058843.94	23058844.04	0.0138	0.0091
Mercury	58421-02-09 13:55 G	23058931.97	23058932.08	23058932.20	0.0138	0.0071
Mercury	58421-05-08 17:17 G	23059020.10	23059020.22	23059020.35	0.0138	0.0051

Mercury	58421-08-04 20:38 G	23059108.23	23059108.36	23059108.50	0.0138	0.0031
Mercury	58421-11-01 00:00 G	23059196.37	23059196.50	23059196.64	0.0138	0.0011
Mercury	58422-01-28 03:22 G	23059284.51	23059284.64	23059284.78	0.0138	0.0011
Mercury	58422-04-26 06:43 G	23059372.65	23059372.78	23059372.91	0.0138	0.0031
Mercury	58422-07-23 10:05 G	23059460.80	23059460.92	23059461.05	0.0138	0.0051
Mercury	58422-10-19 13:26 G	23059548.95	23059549.06	23059549.17	0.0139	0.0071
Mercury	58423-01-15 16:34 G	23059637.10	23059637.19	23059637.30	0.0139	0.0092
Mercury	58423-04-13 19:55 G	23059725.26	23059725.33	23059725.41	0.0139	0.0112
Venus	58423-04-15 21:36 G	23059727.30	23059727.40	23059727.54	0.0139	0.0117
Mercury	58423-07-10 23:17 G	23059813.44	23059813.47	23059813.51	0.0139	0.0132
Venus	58423-11-28 06:14 G	23059953.60	23059953.76	23059953.95	0.0139	0.0084
Venus	58424-07-11 15:22 G	23060179.94	23060180.14	23060180.34	0.0139	0.0051
Venus	58425-02-23 00:14 G	23060406.30	23060406.51	23060406.73	0.0140	0.0017
Venus	58425-10-07 09:22 G	23060632.67	23060632.89	23060633.11	0.0140	0.0017
Venus	58426-05-21 18:14 G	23060859.07	23060859.26	23060859.48	0.0140	0.0051
Venus	58427-01-03 03:36 G	23061085.49	23061085.65	23061085.84	0.0140	0.0086
Venus	58427-08-17 12:58 G	23061311.95	23061312.04	23061312.17	0.0141	0.0120
Earth	58430-05-02 10:05 G	23062300.83	23062300.92	23062301.04	0.0142	0.0129
Moon	58430-05-02 12:00 G	23062300.91	23062301.00	23062301.12	0.0142	0.0129 *
Moon	58431-05-07 05:46 G	23062670.52	23062670.74	23062670.99	0.0142	0.0062
Earth	58431-05-07 07:55 G	23062670.61	23062670.83	23062671.07	0.0142	0.0064 *
Earth	58432-05-11 06:29 G	23063040.52	23063040.77	23063041.03	0.0142	0.0003
Moon	58432-05-11 07:26 G	23063040.56	23063040.81	23063041.05	0.0142	0.0005 *
Moon	58433-05-16 04:34 G	23063410.48	23063410.69	23063410.93	0.0143	0.0077
Earth	58433-05-16 05:17 G	23063410.51	23063410.72	23063410.95	0.0143	0.0069 *
Moon	58434-05-21 04:48 G	23063780.62	23063780.70	23063780.81	0.0143	0.0131
Earth	58434-05-21 05:02 G	23063780.65	23063780.71	23063780.80	0.0143	0.0136 *
Mars	58446-09-20 08:10 G	23068285.56	23068285.84	23068286.13	0.0144	0.0005
Mercury	58460-12-13 12:14 G	23073483.90	23073484.01	23073484.12	0.0140	0.0113
Mercury	58461-03-11 19:41 G	23073572.18	23073572.32	23073572.48	0.0140	0.0083

Mercury	58461-06-08 03:22 G	23073660.47	23073660.64	23073660.82	0.0140	0.0053
Mercury	58461-09-04 11:02 G	23073748.77	23073748.96	23073749.15	0.0140	0.0023
Mercury	58461-12-01 18:43 G	23073837.09	23073837.28	23073837.47	0.0140	0.0007
Mercury	58462-02-28 02:24 G	23073925.41	23073925.60	23073925.78	0.0140	0.0037
Mercury	58462-05-27 09:36 G	23074013.75	23074013.90	23074014.08	0.0140	0.0068
Mercury	58462-08-23 17:31 G	23074102.10	23074102.23	23074102.37	0.0140	0.0098
Mercury	58462-11-20 01:12 G	23074190.48	23074190.55	23074190.63	0.0140	0.0128
Venus	58462-12-19 22:48 G	23074220.37	23074220.45	23074220.55	0.0140	0.0127
Venus	58463-08-03 07:41 G	23074446.67	23074446.82	23074446.99	0.0139	0.0093
Venus	58464-03-16 16:19 G	23074673.00	23074673.18	23074673.39	0.0139	0.0060
Venus	58464-10-29 00:58 G	23074899.33	23074899.54	23074899.76	0.0139	0.0027
Venus	58465-06-12 09:22 G	23075125.68	23075125.89	23075126.11	0.0139	0.0007
Venus	58466-01-24 17:31 G	23075352.03	23075352.23	23075352.44	0.0138	0.0040
Venus	58466-09-08 01:26 G	23075578.38	23075578.56	23075578.75	0.0138	0.0072
Venus	58467-04-22 09:22 G	23075804.75	23075804.89	23075805.03	0.0138	0.0104
Venus	58467-12-04 16:48 G	23076031.18	23076031.20	23076031.24	0.0138	0.0136
Earth	58470-11-05 10:19 G	23077097.76	23077097.93	23077098.12	0.0137	0.0097
Moon	58470-11-05 10:19 G	23077097.79	23077097.93	23077098.10	0.0137	0.0105 *
Moon	58471-11-09 19:55 G	23077467.09	23077467.33	23077467.60	0.0136	0.0034
Earth	58471-11-09 20:53 G	23077467.13	23077467.37	23077467.61	0.0136	0.0040 *
Moon	58472-11-13 06:29 G	23077836.53	23077836.77	23077837.02	0.0136	0.0014
Earth	58472-11-13 06:29 G	23077836.53	23077836.77	23077837.03	0.0136	0.0018 *
Moon	58473-11-17 15:50 G	23078205.96	23078206.16	23078206.39	0.0136	0.0075
Earth	58473-11-17 15:50 G	23078205.96	23078206.16	23078206.38	0.0136	0.0074 *
Moon	58474-11-22 00:29 G	23078575.46	23078575.52	23078575.58	0.0135	0.0131
Earth	58474-11-22 00:14 G	23078575.46	23078575.51	23078575.61	0.0135	0.0129 *
Mars	58489-01-19 09:50 G	23083747.58	23083747.91	23083748.25	0.0134	0.0006
Mercury	58504-06-11 11:31 G	23089368.93	23089368.98	23089369.04	0.0138	0.0123
Mercury	58504-09-07 15:07 G	23089457.04	23089457.13	23089457.22	0.0138	0.0103
Mercury	58504-12-04 18:14 G	23089545.16	23089545.26	23089545.38	0.0138	0.0083

Mercury	58505-03-02 21:50 G	23089633.29	23089633.41	23089633.53	0.0138	0.0062
Mercury	58505-05-30 01:12 G	23089721.42	23089721.55	23089721.68	0.0138	0.0042
Mercury	58505-08-26 04:34 G	23089809.56	23089809.69	23089809.82	0.0138	0.0022
Mercury	58505-11-22 07:55 G	23089897.70	23089897.83	23089897.96	0.0138	0.0002
Mercury	58506-02-18 11:17 G	23089985.84	23089985.97	23089986.10	0.0138	0.0019
Mercury	58506-05-17 14:38 G	23090073.98	23090074.11	23090074.24	0.0138	0.0039
Mercury	58506-08-13 17:46 G	23090162.13	23090162.24	23090162.37	0.0138	0.0060
Mercury	58506-11-09 21:07 G	23090250.28	23090250.38	23090250.49	0.0139	0.0080
Venus	58506-12-15 08:10 G	23090285.78	23090285.84	23090285.93	0.0139	0.0129
Mercury	58507-02-06 00:29 G	23090338.43	23090338.52	23090338.61	0.0139	0.0100
Mercury	58507-05-05 03:50 G	23090426.60	23090426.66	23090426.73	0.0139	0.0120
Venus	58507-07-29 17:02 G	23090512.05	23090512.21	23090512.36	0.0139	0.0096
Venus	58508-03-12 01:26 G	23090738.37	23090738.56	23090738.76	0.0139	0.0063
Venus	58508-10-24 10:05 G	23090964.72	23090964.92	23090965.14	0.0139	0.0031
Venus	58509-06-07 19:12 G	23091191.08	23091191.30	23091191.52	0.0140	0.0004
Venus	58510-01-20 04:19 G	23091417.48	23091417.68	23091417.90	0.0140	0.0038
Venus	58510-09-03 13:26 G	23091643.88	23091644.06	23091644.26	0.0140	0.0072
Venus	58511-04-17 23:02 G	23091870.32	23091870.46	23091870.60	0.0140	0.0106
Venus	58511-11-30 08:38 G	23092096.84	23092096.86	23092096.87	0.0141	0.0140
Earth	58514-05-03 23:31 G	23092982.37	23092982.48	23092982.63	0.0142	0.0122
Moon	58514-05-04 02:38 G	23092982.50	23092982.61	23092982.73	0.0142	0.0124 *
Moon	58515-05-08 19:26 G	23093352.08	23093352.31	23093352.56	0.0142	0.0060
Earth	58515-05-08 21:22 G	23093352.17	23093352.39	23093352.64	0.0142	0.0057 *
Earth	58516-05-12 19:55 G	23093722.08	23093722.33	23093722.59	0.0142	0.0009
Moon	58516-05-12 21:50 G	23093722.16	23093722.41	23093722.66	0.0142	0.0015 *
Moon	58517-05-17 18:00 G	23094092.02	23094092.25	23094092.49	0.0143	0.0069
Earth	58517-05-17 18:58 G	23094092.08	23094092.29	23094092.51	0.0143	0.0076 *
Earth	58518-05-22 18:43 G	23094462.27	23094462.28	23094462.30	0.0143	0.0142
Mercury	58544-10-07 12:43 G	23104096.97	23104097.03	23104097.10	0.0140	0.0132
Mercury	58545-01-03 19:55 G	23104185.22	23104185.33	23104185.47	0.0140	0.0103

Mercury	58545-04-02 03:36 G	23104273.50	23104273.65	23104273.82	0.0140	0.0073
Mercury	58545-06-29 11:17 G	23104361.80	23104361.97	23104362.16	0.0140	0.0042
Mercury	58545-09-25 18:58 G	23104450.10	23104450.29	23104450.48	0.0140	0.0012
Mercury	58545-12-23 02:38 G	23104538.42	23104538.61	23104538.80	0.0140	0.0018
Mercury	58546-03-21 10:19 G	23104626.75	23104626.93	23104627.11	0.0140	0.0048
Mercury	58546-06-17 18:00 G	23104715.09	23104715.25	23104715.41	0.0140	0.0078
Mercury	58546-09-14 01:26 G	23104803.45	23104803.56	23104803.69	0.0140	0.0109
Mercury	58546-12-11 09:07 G	23104891.87	23104891.88	23104891.91	0.0140	0.0139
Venus	58547-04-03 17:17 G	23105005.09	23105005.22	23105005.37	0.0140	0.0107
Venus	58547-11-16 01:55 G	23105231.41	23105231.58	23105231.78	0.0139	0.0074
Venus	58548-06-29 10:48 G	23105457.75	23105457.95	23105458.16	0.0139	0.0040
Venus	58549-02-10 19:12 G	23105684.09	23105684.30	23105684.52	0.0139	0.0007
Venus	58549-09-25 03:36 G	23105910.43	23105910.65	23105910.86	0.0139	0.0027
Venus	58550-05-09 11:31 G	23106136.79	23106136.98	23106137.18	0.0138	0.0059
Venus	58550-12-21 19:12 G	23106363.15	23106363.30	23106363.47	0.0138	0.0092
Venus	58551-08-05 02:53 G	23106589.55	23106589.62	23106589.73	0.0138	0.0124
Earth	58554-11-06 23:02 G	23107779.29	23107779.46	23107779.66	0.0137	0.0091
Moon	58554-11-07 00:14 G	23107779.34	23107779.51	23107779.72	0.0137	0.0085 *
Moon	58555-11-11 09:22 G	23108148.64	23108148.89	23108149.14	0.0136	0.0040
Earth	58555-11-11 09:50 G	23108148.67	23108148.91	23108149.16	0.0136	0.0033 *
Earth	58556-11-14 19:41 G	23108518.08	23108518.32	23108518.58	0.0136	0.0024
Moon	58556-11-14 20:38 G	23108518.13	23108518.36	23108518.60	0.0136	0.0029 *
Moon	58557-11-19 04:48 G	23108887.49	23108887.70	23108887.92	0.0136	0.0078
Earth	58557-11-19 05:02 G	23108887.52	23108887.71	23108887.93	0.0136	0.0080 *
Earth	58558-11-23 14:10 G	23109257.07	23109257.09	23109257.11	0.0135	0.0135
Moon	58558-11-23 14:10 G	23109257.07	23109257.09	23109257.14	0.0135	0.0134 *
Mercury	58588-04-04 15:50 G	23119982.15	23119982.16	23119982.19	0.0137	0.0136
Mercury	58588-07-01 19:26 G	23120070.24	23120070.31	23120070.38	0.0138	0.0115
Mercury	58588-09-27 22:48 G	23120158.36	23120158.45	23120158.55	0.0138	0.0095
Mercury	58588-12-25 02:10 G	23120246.48	23120246.59	23120246.71	0.0138	0.0075

Mercury	58589-03-23 05:46 G	23120334.61	23120334.74	23120334.86	0.0138	0.0054
Mercury	58589-06-19 08:53 G	23120422.75	23120422.87	23120423.01	0.0138	0.0034
Mercury	58589-09-15 12:29 G	23120510.88	23120511.02	23120511.15	0.0138	0.0014
Mercury	58589-12-12 15:36 G	23120599.02	23120599.15	23120599.29	0.0138	0.0008
Mercury	58590-03-10 18:58 G	23120687.16	23120687.29	23120687.43	0.0138	0.0027
Mercury	58590-06-06 22:19 G	23120775.31	23120775.43	23120775.56	0.0138	0.0047
Mercury	58590-09-03 01:41 G	23120863.46	23120863.57	23120863.69	0.0138	0.0067
Mercury	58590-11-30 04:48 G	23120951.61	23120951.70	23120951.81	0.0139	0.0088
Mercury	58591-02-26 08:10 G	23121039.77	23121039.84	23121039.93	0.0139	0.0108
Venus	58591-03-29 02:38 G	23121070.50	23121070.61	23121070.77	0.0139	0.0109
Mercury	58591-05-25 11:31 G	23121127.94	23121127.98	23121128.03	0.0139	0.0128
Venus	58591-11-10 11:17 G	23121296.80	23121296.97	23121297.17	0.0139	0.0076
Venus	58592-06-23 20:10 G	23121523.14	23121523.34	23121523.55	0.0139	0.0043
Venus	58593-02-05 05:17 G	23121749.50	23121749.72	23121749.94	0.0139	0.0009
Venus	58593-09-19 14:10 G	23121975.88	23121976.09	23121976.31	0.0140	0.0025
Venus	58594-05-03 23:02 G	23122202.27	23122202.46	23122202.67	0.0140	0.0059
Venus	58594-12-16 08:10 G	23122428.69	23122428.84	23122429.02	0.0140	0.0093
Venus	58595-07-30 17:31 G	23122655.16	23122655.23	23122655.34	0.0140	0.0128
Earth	58598-05-04 12:29 G	23123663.89	23123664.02	23123664.19	0.0141	0.0116
Moon	58598-05-04 15:36 G	23123664.01	23123664.15	23123664.30	0.0141	0.0114 *
Moon	58599-05-09 07:12 G	23124033.57	23124033.80	23124034.06	0.0142	0.0050
Earth	58599-05-09 10:19 G	23124033.70	23124033.93	23124034.18	0.0142	0.0051 *
Earth	58600-05-14 08:38 G	23124403.61	23124403.86	23124404.12	0.0142	0.0015
Moon	58600-05-14 10:34 G	23124403.69	23124403.94	23124404.19	0.0142	0.0009 *
Moon	58601-05-19 05:31 G	23124773.53	23124773.73	23124773.94	0.0143	0.0089
Earth	58601-05-19 07:12 G	23124773.61	23124773.80	23124774.03	0.0143	0.0082 *
Moon	58602-05-24 07:55 G	23125143.82	23125143.83	23125143.86	0.0143	0.0142
Mars	58614-02-09 05:17 G	23129422.60	23129422.72	23129422.89	0.0144	0.0124
Mercury	58628-10-28 20:10 G	23134798.27	23134798.34	23134798.45	0.0141	0.0123
Mercury	58629-01-25 03:50 G	23134886.53	23134886.66	23134886.81	0.0140	0.0093

Mercury	58629-04-23 11:31 G	23134974.82	23134974.98	23134975.15	0.0140	0.0063
Mercury	58629-07-20 19:12 G	23135063.11	23135063.30	23135063.48	0.0140	0.0033
Mercury	58629-10-17 02:38 G	23135151.43	23135151.61	23135151.80	0.0140	0.0004
Mercury	58630-01-13 10:19 G	23135239.75	23135239.93	23135240.12	0.0140	0.0028
Mercury	58630-04-11 17:46 G	23135328.08	23135328.24	23135328.42	0.0140	0.0058
Mercury	58630-07-09 01:26 G	23135416.42	23135416.56	23135416.72	0.0140	0.0088
Mercury	58630-10-05 09:22 G	23135504.79	23135504.89	23135504.99	0.0140	0.0118
Venus	58630-12-03 02:24 G	23135563.50	23135563.60	23135563.71	0.0140	0.0120
Venus	58631-07-17 11:17 G	23135789.81	23135789.97	23135790.15	0.0139	0.0086
Venus	58632-02-28 20:10 G	23136016.14	23136016.34	23136016.54	0.0139	0.0053
Venus	58632-10-12 04:34 G	23136242.48	23136242.69	23136242.91	0.0139	0.0019
Venus	58633-05-26 12:58 G	23136468.82	23136469.04	23136469.26	0.0139	0.0014
Venus	58634-01-07 21:07 G	23136695.17	23136695.38	23136695.58	0.0139	0.0047
Venus	58634-08-22 05:02 G	23136921.54	23136921.71	23136921.90	0.0138	0.0079
Venus	58635-04-05 12:58 G	23137147.92	23137148.04	23137148.17	0.0138	0.0111
Earth	58638-11-08 11:46 G	23138460.81	23138460.99	23138461.20	0.0137	0.0086
Moon	58638-11-08 13:12 G	23138460.88	23138461.05	23138461.24	0.0137	0.0093 *
Moon	58639-11-12 20:53 G	23138830.12	23138830.37	23138830.63	0.0136	0.0021
Earth	58639-11-12 22:34 G	23138830.20	23138830.44	23138830.70	0.0136	0.0028 *
Earth	58640-11-16 08:53 G	23139199.62	23139199.87	23139200.12	0.0136	0.0029
Moon	58640-11-16 09:50 G	23139199.67	23139199.91	23139200.15	0.0136	0.0024 *
Moon	58641-11-20 17:02 G	23139569.03	23139569.21	23139569.42	0.0136	0.0088
Earth	58641-11-20 18:14 G	23139569.08	23139569.26	23139569.47	0.0136	0.0085 *
Mars	58656-06-08 23:02 G	23144883.30	23144883.46	23144883.67	0.0134	0.0112
Mercury	58672-04-25 23:46 G	23150683.45	23150683.49	23150683.55	0.0138	0.0127
Mercury	58672-07-23 03:07 G	23150771.55	23150771.63	23150771.72	0.0138	0.0107
Mercury	58672-10-19 06:43 G	23150859.68	23150859.78	23150859.88	0.0138	0.0086
Mercury	58673-01-15 10:05 G	23150947.80	23150947.92	23150948.04	0.0138	0.0066
Mercury	58673-04-13 13:26 G	23151035.93	23151036.06	23151036.19	0.0138	0.0046
Mercury	58673-07-10 16:48 G	23151124.07	23151124.20	23151124.33	0.0138	0.0026

Mercury	58673-10-06 20:10 G	23151212.21	23151212.34	23151212.48	0.0138	0.0005
Mercury	58674-01-02 23:31 G	23151300.35	23151300.48	23151300.61	0.0138	0.0015
Mercury	58674-04-01 02:53 G	23151388.49	23151388.62	23151388.75	0.0138	0.0035
Mercury	58674-06-28 06:14 G	23151476.64	23151476.76	23151476.88	0.0138	0.0055
Mercury	58674-09-24 09:22 G	23151564.79	23151564.89	23151565.01	0.0139	0.0076
Venus	58674-11-27 13:12 G	23151628.96	23151629.05	23151629.18	0.0139	0.0121
Mercury	58674-12-21 12:43 G	23151652.94	23151653.03	23151653.13	0.0139	0.0096
Mercury	58675-03-19 16:05 G	23151741.10	23151741.17	23151741.24	0.0139	0.0116
Mercury	58675-06-15 19:12 G	23151829.29	23151829.30	23151829.33	0.0139	0.0136
Venus	58675-07-11 21:50 G	23151855.25	23151855.41	23151855.59	0.0139	0.0088
Venus	58676-02-23 06:29 G	23152081.58	23152081.77	23152081.98	0.0139	0.0055
Venus	58676-10-06 15:22 G	23152307.93	23152308.14	23152308.36	0.0139	0.0022
Venus	58677-05-21 00:14 G	23152534.30	23152534.51	23152534.73	0.0140	0.0013
Venus	58678-01-02 09:22 G	23152760.69	23152760.89	23152761.10	0.0140	0.0046
Venus	58678-08-16 18:43 G	23152987.10	23152987.28	23152987.46	0.0140	0.0080
Venus	58679-03-31 04:05 G	23153213.55	23153213.67	23153213.80	0.0140	0.0115
Earth	58682-05-06 02:53 G	23154345.48	23154345.62	23154345.80	0.0141	0.0109
Moon	58682-05-06 06:29 G	23154345.63	23154345.77	23154345.93	0.0141	0.0112 *
Moon	58683-05-10 21:50 G	23154715.17	23154715.41	23154715.67	0.0142	0.0046
Earth	58683-05-11 00:43 G	23154715.30	23154715.53	23154715.78	0.0142	0.0044 *
Earth	58684-05-14 22:48 G	23155085.20	23155085.45	23155085.71	0.0142	0.0022
Moon	58684-05-15 01:26 G	23155085.32	23155085.56	23155085.81	0.0142	0.0028 *
Moon	58685-05-19 19:41 G	23155455.11	23155455.32	23155455.54	0.0143	0.0081
Earth	58685-05-19 21:50 G	23155455.21	23155455.41	23155455.61	0.0143	0.0088 *
Mars	58698-10-05 09:50 G	23160341.68	23160341.91	23160342.15	0.0144	0.0079
Mercury	58712-08-22 21:07 G	23165411.38	23165411.38	23165411.42	0.0141	0.0140
Mercury	58712-11-19 04:48 G	23165499.59	23165499.70	23165499.83	0.0141	0.0110
Mercury	58713-02-15 12:29 G	23165587.87	23165588.02	23165588.18	0.0140	0.0080
Mercury	58713-05-14 19:55 G	23165676.16	23165676.33	23165676.51	0.0140	0.0050
Mercury	58713-08-11 03:36 G	23165764.47	23165764.65	23165764.84	0.0140	0.0020

Mercury	58713-11-07 11:17 G	23165852.78	23165852.97	23165853.16	0.0140	0.0010
Mercury	58714-02-03 18:43 G	23165941.10	23165941.28	23165941.47	0.0140	0.0040
Mercury	58714-05-03 02:24 G	23166029.44	23166029.60	23166029.77	0.0140	0.0070
Mercury	58714-07-30 10:05 G	23166117.79	23166117.92	23166118.06	0.0140	0.0100
Venus	58714-08-03 12:29 G	23166121.98	23166122.02	23166122.11	0.0140	0.0133
Mercury	58714-10-26 17:31 G	23166206.18	23166206.23	23166206.31	0.0140	0.0131
Venus	58715-03-17 21:36 G	23166348.26	23166348.40	23166348.57	0.0140	0.0099
Venus	58715-10-30 06:14 G	23166574.58	23166574.76	23166574.97	0.0139	0.0066
Venus	58716-06-12 15:07 G	23166800.92	23166801.13	23166801.34	0.0139	0.0032
Venus	58717-01-24 23:31 G	23167027.26	23167027.48	23167027.70	0.0139	0.0002
Venus	58717-09-08 07:41 G	23167253.62	23167253.82	23167254.04	0.0139	0.0035
Venus	58718-04-22 15:50 G	23167479.97	23167480.16	23167480.35	0.0138	0.0068
Venus	58718-12-04 23:31 G	23167706.35	23167706.48	23167706.64	0.0138	0.0100
Venus	58719-07-19 07:26 G	23167932.76	23167932.81	23167932.88	0.0138	0.0132
Earth	58721-11-05 14:24 G	23168773.10	23168773.10	23168773.13	0.0137	0.0137
Earth	58722-11-10 01:26 G	23169142.38	23169142.56	23169142.79	0.0137	0.0080
Moon	58722-11-10 04:05 G	23169142.47	23169142.67	23169142.88	0.0137	0.0073 *
Moon	58723-11-14 10:48 G	23169511.71	23169511.95	23169512.22	0.0136	0.0030
Earth	58723-11-14 12:43 G	23169511.78	23169512.03	23169512.28	0.0136	0.0022 *
Earth	58724-11-17 22:48 G	23169881.21	23169881.45	23169881.70	0.0136	0.0035
Moon	58724-11-18 00:43 G	23169881.30	23169881.53	23169881.77	0.0136	0.0041 *
Moon	58725-11-22 06:29 G	23170250.59	23170250.77	23170250.99	0.0136	0.0088
Earth	58725-11-22 08:10 G	23170250.66	23170250.84	23170251.04	0.0136	0.0091 *
Mars	58741-02-03 19:41 G	23175803.09	23175803.32	23175803.61	0.0134	0.0084
Mercury	58756-05-17 07:41 G	23181384.75	23181384.82	23181384.89	0.0138	0.0119
Mercury	58756-08-13 10:48 G	23181472.87	23181472.95	23181473.06	0.0138	0.0099
Mercury	58756-11-09 14:24 G	23181560.99	23181561.10	23181561.21	0.0138	0.0078
Mercury	58757-02-05 17:46 G	23181649.12	23181649.24	23181649.37	0.0138	0.0058
Mercury	58757-05-04 21:07 G	23181737.25	23181737.38	23181737.51	0.0138	0.0038
Mercury	58757-08-01 00:29 G	23181825.39	23181825.52	23181825.66	0.0138	0.0018

Mercury	58757-10-28 03:50 G	23181913.53	23181913.66	23181913.80	0.0138	0.0005
Mercury	58758-01-24 07:12 G	23182001.67	23182001.80	23182001.94	0.0138	0.0023
Mercury	58758-04-22 10:34 G	23182089.82	23182089.94	23182090.07	0.0138	0.0043
Mercury	58758-07-19 13:55 G	23182177.96	23182178.08	23182178.20	0.0138	0.0063
Venus	58758-07-28 23:31 G	23182187.44	23182187.48	23182187.56	0.0138	0.0133
Mercury	58758-10-15 17:02 G	23182266.11	23182266.21	23182266.32	0.0138	0.0084
Mercury	58759-01-11 20:24 G	23182354.27	23182354.35	23182354.44	0.0139	0.0104
Venus	58759-03-12 08:10 G	23182413.70	23182413.84	23182414.00	0.0139	0.0100
Mercury	58759-04-09 23:46 G	23182442.44	23182442.49	23182442.55	0.0139	0.0124
Venus	58759-10-24 16:34 G	23182640.01	23182640.19	23182640.39	0.0139	0.0067
Venus	58760-06-07 01:12 G	23182866.35	23182866.55	23182866.77	0.0139	0.0034
Venus	58761-01-19 10:19 G	23183092.71	23183092.93	23183093.15	0.0139	0.0000
Venus	58761-09-02 19:12 G	23183319.09	23183319.30	23183319.52	0.0140	0.0034
Venus	58762-04-17 04:05 G	23183545.49	23183545.67	23183545.87	0.0140	0.0068
Venus	58762-11-29 13:12 G	23183771.92	23183772.05	23183772.22	0.0140	0.0103
Venus	58763-07-13 22:48 G	23183998.42	23183998.45	23183998.52	0.0140	0.0136
Earth	58766-05-07 16:05 G	23185027.00	23185027.17	23185027.35	0.0141	0.0103
Moon	58766-05-07 19:26 G	23185027.14	23185027.31	23185027.49	0.0141	0.0101 *
Moon	58767-05-12 09:50 G	23185396.67	23185396.91	23185397.17	0.0142	0.0039
Earth	58767-05-12 13:26 G	23185396.82	23185397.06	23185397.31	0.0142	0.0039 *
Earth	58768-05-16 11:17 G	23185766.73	23185766.97	23185767.23	0.0142	0.0027
Moon	58768-05-16 14:10 G	23185766.84	23185767.09	23185767.34	0.0142	0.0022 *
Moon	58769-05-21 06:58 G	23186136.62	23186136.79	23186136.99	0.0143	0.0101
Earth	58769-05-21 10:05 G	23186136.73	23186136.92	23186137.12	0.0143	0.0093 *
Mercury	58796-09-12 05:17 G	23196112.66	23196112.72	23196112.80	0.0141	0.0129
Mercury	58796-12-09 12:43 G	23196200.91	23196201.03	23196201.17	0.0141	0.0099
Mercury	58797-03-07 20:24 G	23196289.19	23196289.35	23196289.52	0.0140	0.0069
Mercury	58797-06-04 03:50 G	23196377.49	23196377.66	23196377.85	0.0140	0.0040
Mercury	58797-08-31 11:31 G	23196465.79	23196465.98	23196466.17	0.0140	0.0010
Mercury	58797-11-27 19:12 G	23196554.11	23196554.30	23196554.49	0.0140	0.0020

Mercury	58798-02-24 02:53 G	23196642.44	23196642.62	23196642.79	0.0140	0.0051
Mercury	58798-05-23 10:05 G	23196730.78	23196730.92	23196731.09	0.0140	0.0081
Mercury	58798-08-19 17:46 G	23196819.14	23196819.24	23196819.37	0.0140	0.0111
Venus	58798-11-15 07:12 G	23196906.68	23196906.80	23196906.93	0.0140	0.0112
Venus	58799-06-29 15:50 G	23197133.00	23197133.16	23197133.36	0.0140	0.0079
Venus	58800-02-11 00:58 G	23197359.33	23197359.54	23197359.75	0.0139	0.0045
Venus	58800-09-24 09:22 G	23197585.68	23197585.89	23197586.11	0.0139	0.0011
Venus	58801-05-08 17:46 G	23197812.02	23197812.24	23197812.45	0.0139	0.0022
Venus	58801-12-21 01:41 G	23198038.38	23198038.57	23198038.78	0.0139	0.0056
Venus	58802-08-04 09:50 G	23198264.76	23198264.91	23198265.09	0.0138	0.0088
Venus	58803-03-18 17:46 G	23198491.15	23198491.24	23198491.36	0.0138	0.0120
Moon	58805-11-06 00:58 G	23199454.46	23199454.54	23199454.64	0.0137	0.0127
Earth	58805-11-06 03:50 G	23199454.60	23199454.66	23199454.74	0.0137	0.0131 *
Earth	58806-11-10 15:07 G	23199823.93	23199824.13	23199824.36	0.0137	0.0074
Moon	58806-11-10 17:46 G	23199824.04	23199824.24	23199824.44	0.0137	0.0081 *
Moon	58807-11-14 23:31 G	23200193.23	23200193.48	23200193.74	0.0136	0.0010
Earth	58807-11-15 02:24 G	23200193.35	23200193.60	23200193.85	0.0136	0.0017 *
Earth	58808-11-18 12:14 G	23200562.78	23200563.01	23200563.26	0.0136	0.0040
Moon	58808-11-18 14:10 G	23200562.86	23200563.09	23200563.34	0.0136	0.0035 *
Moon	58809-11-22 19:41 G	23200932.15	23200932.32	23200932.50	0.0136	0.0099
Earth	58809-11-22 21:36 G	23200932.24	23200932.40	23200932.59	0.0136	0.0096 *
Mercury	58840-03-10 11:46 G	23211997.96	23211997.99	23211998.04	0.0137	0.0131
Mercury	58840-06-06 15:22 G	23212086.06	23212086.14	23212086.22	0.0138	0.0111
Mercury	58840-09-02 18:43 G	23212174.18	23212174.28	23212174.38	0.0138	0.0091
Mercury	58840-11-29 22:05 G	23212262.31	23212262.42	23212262.54	0.0138	0.0070
Mercury	58841-02-26 01:26 G	23212350.44	23212350.56	23212350.69	0.0138	0.0050
Mercury	58841-05-25 04:48 G	23212438.57	23212438.70	23212438.84	0.0138	0.0030
Mercury	58841-08-21 08:10 G	23212526.71	23212526.84	23212526.98	0.0138	0.0010
Mercury	58841-11-17 11:31 G	23212614.85	23212614.98	23212615.12	0.0138	0.0011
Mercury	58842-02-13 14:53 G	23212702.99	23212703.12	23212703.25	0.0138	0.0031

Mercury	58842-05-12 18:14 G	23212791.14	23212791.26	23212791.39	0.0138	0.0051
Mercury	58842-08-08 21:36 G	23212879.29	23212879.40	23212879.51	0.0138	0.0071
Mercury	58842-11-05 00:58 G	23212967.44	23212967.54	23212967.64	0.0138	0.0091
Venus	58842-11-09 18:00 G	23212972.14	23212972.25	23212972.39	0.0138	0.0113
Mercury	58843-02-01 04:19 G	23213055.60	23213055.68	23213055.75	0.0139	0.0111
Mercury	58843-04-30 07:26 G	23213143.77	23213143.81	23213143.85	0.0139	0.0131
Venus	58843-06-24 02:24 G	23213198.43	23213198.60	23213198.79	0.0139	0.0080
Venus	58844-02-05 11:17 G	23213424.77	23213424.97	23213425.18	0.0139	0.0047
Venus	58844-09-18 20:10 G	23213651.12	23213651.34	23213651.55	0.0139	0.0013
Venus	58845-05-03 04:48 G	23213877.49	23213877.70	23213877.92	0.0139	0.0021
Venus	58845-12-15 13:41 G	23214103.88	23214104.07	23214104.28	0.0140	0.0055
Venus	58846-07-29 22:48 G	23214330.30	23214330.45	23214330.64	0.0140	0.0089
Venus	58847-03-13 08:24 G	23214556.76	23214556.85	23214556.97	0.0140	0.0123
Earth	58850-05-08 05:02 G	23215708.53	23215708.71	23215708.90	0.0141	0.0097
Moon	58850-05-08 08:24 G	23215708.69	23215708.85	23215709.04	0.0141	0.0101 *
Moon	58851-05-12 22:48 G	23216078.21	23216078.45	23216078.71	0.0142	0.0034
Earth	58851-05-13 02:10 G	23216078.35	23216078.59	23216078.85	0.0142	0.0033 *
Earth	58852-05-17 00:00 G	23216448.25	23216448.50	23216448.75	0.0142	0.0032
Moon	58852-05-17 03:22 G	23216448.41	23216448.64	23216448.89	0.0142	0.0037 *
Moon	58853-05-21 19:55 G	23216818.13	23216818.33	23216818.53	0.0143	0.0091
Earth	58853-05-21 22:19 G	23216818.27	23216818.43	23216818.64	0.0143	0.0099 *
Mars	58866-02-23 06:29 G	23221478.51	23221478.77	23221479.04	0.0144	0.0050
Mercury	58880-10-02 13:41 G	23226813.97	23226814.07	23226814.17	0.0141	0.0117
Mercury	58880-12-29 20:53 G	23226902.24	23226902.37	23226902.53	0.0141	0.0088
Mercury	58881-03-28 04:34 G	23226990.52	23226990.69	23226990.87	0.0140	0.0058
Mercury	58881-06-24 12:14 G	23227078.82	23227079.01	23227079.19	0.0140	0.0028
Mercury	58881-09-20 19:41 G	23227167.13	23227167.32	23227167.51	0.0140	0.0003
Mercury	58881-12-18 03:22 G	23227255.46	23227255.64	23227255.82	0.0140	0.0032
Mercury	58882-03-16 10:48 G	23227343.79	23227343.95	23227344.13	0.0140	0.0062
Mercury	58882-06-12 18:29 G	23227432.13	23227432.27	23227432.42	0.0140	0.0092

Venus	58882-07-15 16:48 G	23227465.13	23227465.20	23227465.32	0.0140	0.0126
Mercury	58882-09-09 01:55 G	23227520.51	23227520.58	23227520.69	0.0140	0.0123
Venus	58883-02-27 02:10 G	23227691.43	23227691.59	23227691.76	0.0140	0.0092
Venus	58883-10-11 11:02 G	23227917.76	23227917.96	23227918.16	0.0139	0.0058
Venus	58884-05-24 19:26 G	23228144.10	23228144.31	23228144.53	0.0139	0.0025
Venus	58885-01-06 04:05 G	23228370.45	23228370.67	23228370.89	0.0139	0.0009
Venus	58885-08-20 12:29 G	23228596.82	23228597.02	23228597.23	0.0139	0.0043
Venus	58886-04-03 20:38 G	23228823.18	23228823.36	23228823.55	0.0138	0.0075
Venus	58886-11-16 04:19 G	23229049.57	23229049.68	23229049.83	0.0138	0.0109
Moon	58889-11-06 14:53 G	23230136.05	23230136.12	23230136.21	0.0137	0.0129
Earth	58889-11-06 18:14 G	23230136.16	23230136.26	23230136.36	0.0137	0.0125 *
Earth	58890-11-11 05:17 G	23230505.51	23230505.72	23230505.95	0.0137	0.0068
Moon	58890-11-11 08:38 G	23230505.64	23230505.86	23230506.08	0.0137	0.0061 *
Moon	58891-11-15 13:55 G	23230874.82	23230875.08	23230875.34	0.0136	0.0017
Earth	58891-11-15 16:34 G	23230874.94	23230875.19	23230875.44	0.0136	0.0010 *
Earth	58892-11-19 02:24 G	23231244.37	23231244.60	23231244.84	0.0136	0.0046
Moon	58892-11-19 05:02 G	23231244.50	23231244.71	23231244.95	0.0136	0.0053 *
Moon	58893-11-23 09:22 G	23231613.71	23231613.89	23231614.07	0.0136	0.0097
Earth	58893-11-23 11:31 G	23231613.83	23231613.98	23231614.16	0.0136	0.0102 *
Mars	58908-06-23 07:41 G	23236938.50	23236938.82	23236939.16	0.0134	0.0027
Mercury	58924-03-31 19:26 G	23242699.26	23242699.31	23242699.38	0.0137	0.0124
Mercury	58924-06-27 22:48 G	23242787.37	23242787.45	23242787.55	0.0137	0.0104
Mercury	58924-09-24 02:24 G	23242875.50	23242875.60	23242875.71	0.0138	0.0083
Mercury	58924-12-21 05:46 G	23242963.62	23242963.74	23242963.86	0.0138	0.0063
Mercury	58925-03-19 09:07 G	23243051.76	23243051.88	23243052.01	0.0138	0.0043
Mercury	58925-06-15 12:29 G	23243139.89	23243140.02	23243140.16	0.0138	0.0023
Mercury	58925-09-11 15:50 G	23243228.03	23243228.16	23243228.30	0.0138	0.0004
Mercury	58925-12-08 19:12 G	23243316.17	23243316.30	23243316.44	0.0138	0.0018
Mercury	58926-03-06 22:34 G	23243404.31	23243404.44	23243404.57	0.0138	0.0038
Mercury	58926-06-03 01:55 G	23243492.46	23243492.58	23243492.70	0.0138	0.0058

Venus	58926-07-11 04:05 G	23243530.59	23243530.67	23243530.77	0.0138	0.0126
Mercury	58926-08-30 05:17 G	23243580.61	23243580.72	23243580.83	0.0138	0.0078
Mercury	58926-11-26 08:24 G	23243668.76	23243668.85	23243668.95	0.0138	0.0099
Venus	58927-02-22 12:43 G	23243756.87	23243757.03	23243757.19	0.0138	0.0093
Mercury	58927-02-22 11:46 G	23243756.93	23243756.99	23243757.06	0.0138	0.0119 *
Mercury	58927-05-21 15:07 G	23243845.13	23243845.13	23243845.13	0.0139	0.0138
Venus	58927-10-06 21:07 G	23243983.18	23243983.38	23243983.57	0.0139	0.0060
Venus	58928-05-20 05:31 G	23244209.52	23244209.73	23244209.95	0.0139	0.0027
Venus	58929-01-01 14:24 G	23244435.89	23244436.10	23244436.32	0.0139	0.0008
Venus	58929-08-15 23:31 G	23244662.27	23244662.48	23244662.69	0.0139	0.0041
Venus	58930-03-30 08:38 G	23244888.68	23244888.86	23244889.04	0.0140	0.0075
Venus	58930-11-11 17:46 G	23245115.11	23245115.24	23245115.38	0.0140	0.0109
Earth	58934-05-09 16:48 G	23246390.02	23246390.20	23246390.41	0.0141	0.0091
Moon	58934-05-09 20:24 G	23246390.17	23246390.35	23246390.57	0.0141	0.0088 *
Moon	58935-05-14 10:05 G	23246759.68	23246759.92	23246760.18	0.0142	0.0029
Earth	58935-05-14 13:55 G	23246759.83	23246760.08	23246760.34	0.0142	0.0027 *
Earth	58936-05-18 11:31 G	23247129.74	23247129.98	23247130.23	0.0142	0.0038
Moon	58936-05-18 14:53 G	23247129.88	23247130.12	23247130.37	0.0142	0.0033 *
Moon	58937-05-23 06:29 G	23247499.61	23247499.77	23247499.94	0.0142	0.0110
Earth	58937-05-23 09:50 G	23247499.75	23247499.91	23247500.10	0.0142	0.0103 *
Mars	58950-10-20 02:10 G	23252397.55	23252397.59	23252397.68	0.0144	0.0141
Mercury	58964-07-27 13:12 G	23257427.03	23257427.05	23257427.09	0.0141	0.0139
Mercury	58964-10-23 20:24 G	23257515.25	23257515.35	23257515.48	0.0141	0.0110
Mercury	58965-01-20 04:05 G	23257603.53	23257603.67	23257603.83	0.0141	0.0080
Mercury	58965-04-18 11:46 G	23257691.82	23257691.99	23257692.17	0.0141	0.0050
Mercury	58965-07-15 19:12 G	23257780.12	23257780.30	23257780.49	0.0140	0.0021
Mercury	58965-10-12 02:53 G	23257868.43	23257868.62	23257868.81	0.0140	0.0010
Mercury	58966-01-08 10:19 G	23257956.76	23257956.93	23257957.12	0.0140	0.0041
Mercury	58966-04-06 18:00 G	23258045.09	23258045.25	23258045.42	0.0140	0.0070
Mercury	58966-07-04 01:41 G	23258133.44	23258133.57	23258133.71	0.0140	0.0100

Mercury	58966-09-30 09:07 G	23258221.83	23258221.88	23258221.96	0.0140	0.0131
Venus	58966-10-28 10:05 G	23258249.79	23258249.92	23258250.07	0.0140	0.0107
Venus	58967-06-11 19:12 G	23258476.12	23258476.30	23258476.49	0.0140	0.0073
Venus	58968-01-24 03:50 G	23258702.46	23258702.66	23258702.88	0.0139	0.0039
Venus	58968-09-06 12:43 G	23258928.81	23258929.03	23258929.25	0.0139	0.0005
Venus	58969-04-20 21:07 G	23259155.17	23259155.38	23259155.59	0.0139	0.0028
Venus	58969-12-03 05:17 G	23259381.53	23259381.72	23259381.92	0.0139	0.0062
Venus	58970-07-17 13:26 G	23259607.92	23259608.06	23259608.23	0.0138	0.0095
Venus	58971-02-28 21:22 G	23259834.33	23259834.39	23259834.50	0.0138	0.0127
Moon	58973-11-08 01:55 G	23260817.47	23260817.58	23260817.73	0.0137	0.0117
Earth	58973-11-08 05:31 G	23260817.62	23260817.73	23260817.86	0.0137	0.0119 *
Earth	58974-11-12 17:17 G	23261187.00	23261187.22	23261187.45	0.0137	0.0062
Moon	58974-11-12 20:10 G	23261187.14	23261187.34	23261187.57	0.0137	0.0069 *
Moon	58975-11-17 00:58 G	23261556.29	23261556.54	23261556.80	0.0136	0.0003
Earth	58975-11-17 04:19 G	23261556.43	23261556.68	23261556.94	0.0136	0.0006 *
Earth	58976-11-20 14:24 G	23261925.87	23261926.10	23261926.34	0.0136	0.0051
Moon	58976-11-20 17:02 G	23261925.98	23261926.21	23261926.45	0.0136	0.0045 *
Moon	58977-11-24 20:38 G	23262295.23	23262295.36	23262295.52	0.0136	0.0111
Earth	58977-11-24 23:31 G	23262295.35	23262295.48	23262295.66	0.0136	0.0107 *

60TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 60th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury	59008-01-24 23:31 G	23273312.48	23273312.48	23273312.51	0.0137	0.0136
Mercury	59008-04-22 03:07 G	23273400.57	23273400.63	23273400.71	0.0137	0.0116
Mercury	59008-07-19 06:29 G	23273488.68	23273488.77	23273488.87	0.0137	0.0096
Mercury	59008-10-15 09:50 G	23273576.81	23273576.91	23273577.03	0.0138	0.0076
Mercury	59009-01-11 13:26 G	23273664.94	23273665.06	23273665.18	0.0138	0.0055
Mercury	59009-04-09 16:48 G	23273753.07	23273753.20	23273753.33	0.0138	0.0035
Mercury	59009-07-06 20:10 G	23273841.21	23273841.34	23273841.47	0.0138	0.0015
Mercury	59009-10-02 23:31 G	23273929.35	23273929.48	23273929.62	0.0138	0.0006
Mercury	59009-12-30 02:53 G	23274017.49	23274017.62	23274017.75	0.0138	0.0026
Mercury	59010-03-28 06:14 G	23274105.63	23274105.76	23274105.89	0.0138	0.0046
Mercury	59010-06-24 09:22 G	23274193.78	23274193.89	23274194.01	0.0138	0.0066
Mercury	59010-09-20 12:43 G	23274281.93	23274282.03	23274282.14	0.0138	0.0086
Venus	59010-10-23 22:05 G	23274315.30	23274315.42	23274315.57	0.0138	0.0106
Mercury	59010-12-17 16:05 G	23274370.09	23274370.17	23274370.26	0.0138	0.0106
Mercury	59011-03-15 19:12 G	23274458.26	23274458.30	23274458.36	0.0138	0.0127
Venus	59011-06-07 06:29 G	23274541.60	23274541.77	23274541.97	0.0138	0.0074
Venus	59012-01-19 15:22 G	23274767.94	23274768.14	23274768.35	0.0139	0.0040
Venus	59012-09-02 00:14 G	23274994.29	23274994.51	23274994.73	0.0139	0.0007
Venus	59013-04-16 08:53 G	23275220.66	23275220.87	23275221.09	0.0139	0.0027
Venus	59013-11-28 17:46 G	23275447.05	23275447.24	23275447.44	0.0139	0.0061
Venus	59014-07-13 03:07 G	23275673.47	23275673.63	23275673.79	0.0140	0.0095
Venus	59015-02-24 12:29 G	23275899.95	23275900.02	23275900.11	0.0140	0.0129
Moon	59017-05-06 05:17 G	23276701.71	23276701.72	23276701.76	0.0141	0.0140
Earth	59018-05-11 05:02 G	23277071.51	23277071.71	23277071.92	0.0141	0.0085
Moon	59018-05-11 08:38 G	23277071.66	23277071.86	23277072.06	0.0141	0.0090 *
Moon	59019-05-15 22:19 G	23277441.19	23277441.43	23277441.69	0.0142	0.0022
Earth	59019-05-16 02:10 G	23277441.34	23277441.59	23277441.84	0.0142	0.0021 *
Earth	59020-05-19 23:31 G	23277811.24	23277811.48	23277811.73	0.0142	0.0043
Moon	59020-05-20 03:07 G	23277811.40	23277811.63	23277811.88	0.0142	0.0047 *
Moon	59021-05-24 18:43 G	23278181.10	23278181.28	23278181.46	0.0142	0.0102

Earth	59021-05-24 21:50 G	23278181.26	23278181.41	23278181.58	0.0142	0.0109	*
Mercury	59048-08-17 20:38 G	23288128.30	23288128.36	23288128.44	0.0141	0.0130	
Mercury	59048-11-14 04:19 G	23288216.55	23288216.68	23288216.81	0.0141	0.0100	
Mercury	59049-02-10 11:31 G	23288304.83	23288304.98	23288305.15	0.0141	0.0071	
Mercury	59049-05-09 19:12 G	23288393.13	23288393.30	23288393.49	0.0141	0.0041	
Mercury	59049-08-06 02:53 G	23288481.43	23288481.62	23288481.81	0.0140	0.0011	
Mercury	59049-11-02 10:19 G	23288569.75	23288569.93	23288570.12	0.0140	0.0020	
Mercury	59050-01-29 18:00 G	23288658.07	23288658.25	23288658.43	0.0140	0.0049	
Mercury	59050-04-28 01:41 G	23288746.41	23288746.57	23288746.72	0.0140	0.0080	
Venus	59050-06-28 18:43 G	23288808.19	23288808.28	23288808.40	0.0140	0.0122	
Mercury	59050-07-25 08:53 G	23288834.77	23288834.87	23288835.00	0.0140	0.0110	
Mercury	59050-10-21 17:02 G	23288923.21	23288923.21	23288923.21	0.0140	0.0140	
Venus	59051-02-10 04:05 G	23289034.50	23289034.67	23289034.84	0.0140	0.0087	
Venus	59051-09-24 12:43 G	23289260.84	23289261.03	23289261.24	0.0140	0.0053	
Venus	59052-05-07 21:36 G	23289487.19	23289487.40	23289487.62	0.0139	0.0019	
Venus	59052-12-20 06:14 G	23289713.54	23289713.76	23289713.98	0.0139	0.0014	
Venus	59053-08-03 14:38 G	23289939.91	23289940.11	23289940.32	0.0139	0.0048	
Venus	59054-03-17 23:02 G	23290166.29	23290166.46	23290166.64	0.0139	0.0081	
Venus	59054-10-30 06:58 G	23290392.68	23290392.79	23290392.93	0.0138	0.0114	
Moon	59057-11-09 13:55 G	23291498.96	23291499.08	23291499.22	0.0137	0.0118	
Earth	59057-11-09 17:31 G	23291499.10	23291499.23	23291499.38	0.0137	0.0114	*
Earth	59058-11-14 05:17 G	23291868.50	23291868.72	23291868.96	0.0137	0.0056	
Moon	59058-11-14 08:38 G	23291868.64	23291868.86	23291869.11	0.0137	0.0051	*
Moon	59059-11-18 13:12 G	23292237.79	23292238.05	23292238.30	0.0137	0.0007	
Earth	59059-11-18 16:19 G	23292237.93	23292238.18	23292238.44	0.0137	0.0002	*
Earth	59060-11-22 02:38 G	23292607.38	23292607.61	23292607.84	0.0136	0.0057	
Moon	59060-11-22 05:46 G	23292607.53	23292607.74	23292607.97	0.0136	0.0064	*
Moon	59061-11-26 08:24 G	23292976.72	23292976.85	23292977.03	0.0136	0.0107	
Earth	59061-11-26 11:46 G	23292976.86	23292976.99	23292977.15	0.0136	0.0112	*
Jupiter	59082-10-04 15:36 G	23300593.72	23300594.15	23300594.63	0.0135	0.0053	

Mercury	59092-02-14 07:12 G	23304013.77	23304013.80	23304013.86	0.0137	0.0129
Mercury	59092-05-12 11:02 G	23304101.88	23304101.96	23304102.04	0.0137	0.0108
Mercury	59092-08-08 14:10 G	23304190.00	23304190.09	23304190.20	0.0137	0.0088
Mercury	59092-11-04 17:46 G	23304278.12	23304278.24	23304278.36	0.0137	0.0067
Mercury	59093-01-31 21:07 G	23304366.26	23304366.38	23304366.51	0.0138	0.0047
Mercury	59093-04-30 00:29 G	23304454.39	23304454.52	23304454.66	0.0138	0.0027
Mercury	59093-07-27 03:50 G	23304542.53	23304542.66	23304542.80	0.0138	0.0007
Mercury	59093-10-23 07:12 G	23304630.67	23304630.80	23304630.94	0.0138	0.0014
Mercury	59094-01-19 10:34 G	23304718.81	23304718.94	23304719.07	0.0138	0.0034
Mercury	59094-04-17 13:55 G	23304806.96	23304807.08	23304807.20	0.0138	0.0054
Venus	59094-06-23 08:38 G	23304873.75	23304873.86	23304873.97	0.0138	0.0119
Mercury	59094-07-14 17:02 G	23304895.11	23304895.21	23304895.33	0.0138	0.0075
Mercury	59094-10-10 20:24 G	23304983.26	23304983.35	23304983.45	0.0138	0.0094
Mercury	59095-01-06 23:46 G	23305071.42	23305071.49	23305071.57	0.0138	0.0114
Venus	59095-02-04 16:48 G	23305100.04	23305100.20	23305100.38	0.0138	0.0086
Mercury	59095-04-05 02:53 G	23305159.60	23305159.62	23305159.66	0.0138	0.0135
Venus	59095-09-19 01:12 G	23305326.36	23305326.55	23305326.77	0.0139	0.0054
Venus	59096-05-02 10:05 G	23305552.71	23305552.92	23305553.14	0.0139	0.0020
Venus	59096-12-14 18:43 G	23305779.07	23305779.28	23305779.50	0.0139	0.0014
Venus	59097-07-29 03:36 G	23306005.45	23306005.65	23306005.86	0.0139	0.0048
Venus	59098-03-12 12:43 G	23306231.86	23306232.03	23306232.21	0.0140	0.0082
Venus	59098-10-24 21:50 G	23306458.30	23306458.41	23306458.54	0.0140	0.0116
Earth	59101-05-07 21:22 G	23307383.39	23307383.39	23307383.43	0.0141	0.0141
Earth	59102-05-12 17:31 G	23307753.03	23307753.23	23307753.45	0.0141	0.0079
Moon	59102-05-12 21:07 G	23307753.17	23307753.38	23307753.61	0.0141	0.0074 *
Moon	59103-05-17 10:48 G	23308122.70	23308122.95	23308123.21	0.0142	0.0017
Earth	59103-05-17 14:24 G	23308122.85	23308123.10	23308123.36	0.0142	0.0015 *
Earth	59104-05-21 11:46 G	23308492.75	23308492.99	23308493.23	0.0142	0.0049
Moon	59104-05-21 15:07 G	23308492.90	23308493.13	23308493.38	0.0142	0.0046 *
Moon	59105-05-26 06:14 G	23308862.63	23308862.76	23308862.90	0.0142	0.0121

Earth	59105-05-26 09:50 G	23308862.77	23308862.91	23308863.08	0.0142	0.0114	*
Mars	59118-03-10 20:10 G	23313534.05	23313534.34	23313534.62	0.0144	0.0005	
Mercury	59132-09-08 03:36 G	23318829.57	23318829.65	23318829.75	0.0141	0.0123	
Mercury	59132-12-05 11:02 G	23318917.83	23318917.96	23318918.11	0.0141	0.0094	
Mercury	59133-03-03 18:29 G	23319006.11	23319006.27	23319006.45	0.0141	0.0064	
Mercury	59133-05-31 02:10 G	23319094.41	23319094.59	23319094.77	0.0141	0.0034	
Mercury	59133-08-27 09:50 G	23319182.72	23319182.91	23319183.09	0.0140	0.0005	
Mercury	59133-11-23 17:17 G	23319271.04	23319271.22	23319271.41	0.0140	0.0026	
Mercury	59134-02-20 00:43 G	23319359.37	23319359.53	23319359.71	0.0140	0.0057	
Venus	59134-02-27 02:24 G	23319366.55	23319366.60	23319366.64	0.0140	0.0137	
Mercury	59134-05-19 08:24 G	23319447.71	23319447.85	23319448.01	0.0140	0.0087	
Mercury	59134-08-15 15:50 G	23319536.07	23319536.16	23319536.28	0.0140	0.0117	
Venus	59134-10-11 11:02 G	23319592.83	23319592.96	23319593.13	0.0140	0.0103	
Venus	59135-05-25 20:10 G	23319819.16	23319819.34	23319819.54	0.0140	0.0069	
Venus	59136-01-07 05:17 G	23320045.51	23320045.72	23320045.93	0.0139	0.0034	
Venus	59136-08-20 14:10 G	23320271.87	23320272.09	23320272.31	0.0139	0.0001	
Venus	59137-04-03 22:48 G	23320498.24	23320498.45	23320498.66	0.0139	0.0033	
Venus	59137-11-16 06:58 G	23320724.61	23320724.79	23320724.99	0.0139	0.0067	
Venus	59138-06-30 15:07 G	23320951.00	23320951.13	23320951.30	0.0138	0.0100	
Venus	59139-02-11 23:46 G	23321177.43	23321177.49	23321177.55	0.0138	0.0132	
Moon	59141-11-11 00:00 G	23322180.36	23322180.50	23322180.68	0.0137	0.0108	
Earth	59141-11-11 03:36 G	23322180.51	23322180.65	23322180.82	0.0137	0.0109	*
Earth	59142-11-15 15:22 G	23322549.92	23322550.14	23322550.39	0.0137	0.0052	
Moon	59142-11-15 19:12 G	23322550.07	23322550.30	23322550.53	0.0137	0.0058	*
Moon	59143-11-19 23:02 G	23322919.21	23322919.46	23322919.71	0.0137	0.0012	
Earth	59143-11-20 02:38 G	23322919.36	23322919.61	23322919.87	0.0137	0.0005	*
Earth	59144-11-23 12:29 G	23323288.81	23323289.02	23323289.26	0.0136	0.0061	
Moon	59144-11-23 15:50 G	23323288.94	23323289.16	23323289.40	0.0136	0.0055	*
Moon	59145-11-27 18:29 G	23323658.18	23323658.27	23323658.40	0.0136	0.0122	
Earth	59145-11-27 22:05 G	23323658.31	23323658.42	23323658.57	0.0136	0.0116	*

Mars	59160-07-07 08:10 G	23328993.55	23328993.84	23328994.17	0.0134	0.0052
Mercury	59176-03-06 15:07 G	23334715.07	23334715.13	23334715.20	0.0137	0.0120
Mercury	59176-06-02 18:29 G	23334803.19	23334803.27	23334803.37	0.0137	0.0100
Mercury	59176-08-29 22:05 G	23334891.31	23334891.42	23334891.53	0.0137	0.0080
Mercury	59176-11-26 01:26 G	23334979.44	23334979.56	23334979.68	0.0138	0.0060
Mercury	59177-02-22 04:48 G	23335067.57	23335067.70	23335067.83	0.0138	0.0039
Mercury	59177-05-21 08:10 G	23335155.71	23335155.84	23335155.98	0.0138	0.0019
Mercury	59177-08-17 11:31 G	23335243.85	23335243.98	23335244.12	0.0138	0.0002
Mercury	59177-11-13 14:53 G	23335331.99	23335332.12	23335332.25	0.0138	0.0021
Mercury	59178-02-09 18:14 G	23335420.13	23335420.26	23335420.39	0.0138	0.0041
Venus	59178-02-21 18:29 G	23335432.22	23335432.27	23335432.35	0.0138	0.0131
Mercury	59178-05-08 21:36 G	23335508.28	23335508.40	23335508.52	0.0138	0.0061
Mercury	59178-08-05 00:58 G	23335596.43	23335596.54	23335596.65	0.0138	0.0081
Venus	59178-10-06 03:07 G	23335658.48	23335658.63	23335658.78	0.0138	0.0099
Mercury	59178-11-01 04:19 G	23335684.59	23335684.68	23335684.77	0.0138	0.0101
Mercury	59179-01-28 07:26 G	23335772.76	23335772.81	23335772.88	0.0138	0.0122
Venus	59179-05-20 11:31 G	23335884.79	23335884.98	23335885.17	0.0138	0.0066
Venus	59180-01-01 19:55 G	23336111.12	23336111.33	23336111.55	0.0139	0.0033
Venus	59180-08-15 04:48 G	23336337.48	23336337.70	23336337.91	0.0139	0.0003
Venus	59181-03-29 13:26 G	23336563.85	23336564.06	23336564.27	0.0139	0.0035
Venus	59181-11-10 22:19 G	23336790.25	23336790.43	23336790.62	0.0139	0.0069
Venus	59182-06-25 07:12 G	23337016.67	23337016.80	23337016.96	0.0140	0.0103
Venus	59183-02-06 16:34 G	23337243.16	23337243.19	23337243.24	0.0140	0.0137
Moon	59185-05-08 06:58 G	23338064.71	23338064.79	23338064.92	0.0141	0.0128
Earth	59185-05-08 10:05 G	23338064.87	23338064.92	23338065.01	0.0141	0.0135 *
Earth	59186-05-13 06:00 G	23338434.54	23338434.75	23338434.98	0.0141	0.0073
Moon	59186-05-13 08:53 G	23338434.67	23338434.87	23338435.10	0.0141	0.0078 *
Moon	59187-05-17 23:31 G	23338804.23	23338804.48	23338804.74	0.0142	0.0009
Earth	59187-05-18 02:53 G	23338804.37	23338804.62	23338804.88	0.0142	0.0010 *
Earth	59188-05-22 00:14 G	23339174.28	23339174.51	23339174.75	0.0142	0.0055

Moon	59188-05-22 03:50 G	23339174.43	23339174.66	23339174.90	0.0142	0.0058	*
Moon	59189-05-26 18:43 G	23339544.15	23339544.28	23339544.45	0.0142	0.0114	
Earth	59189-05-26 22:05 G	23339544.31	23339544.42	23339544.58	0.0142	0.0121	*
Jupiter	59207-04-01 05:17 G	23346062.27	23346062.72	23346063.22	0.0144	0.0072	
Mercury	59216-09-28 11:02 G	23349530.87	23349530.96	23349531.08	0.0141	0.0114	
Mercury	59216-12-25 18:43 G	23349619.14	23349619.28	23349619.44	0.0141	0.0084	
Mercury	59217-03-24 02:10 G	23349707.43	23349707.59	23349707.77	0.0141	0.0055	
Mercury	59217-06-20 09:50 G	23349795.73	23349795.91	23349796.10	0.0140	0.0024	
Mercury	59217-09-16 17:31 G	23349884.04	23349884.23	23349884.41	0.0140	0.0006	
Mercury	59217-12-14 00:58 G	23349972.36	23349972.54	23349972.72	0.0140	0.0036	
Mercury	59218-03-12 08:24 G	23350060.69	23350060.85	23350061.03	0.0140	0.0066	
Mercury	59218-06-08 16:05 G	23350149.04	23350149.17	23350149.32	0.0140	0.0096	
Venus	59218-06-10 20:10 G	23350151.23	23350151.34	23350151.47	0.0140	0.0117	
Mercury	59218-09-04 23:46 G	23350237.42	23350237.49	23350237.58	0.0140	0.0126	
Venus	59219-01-23 05:02 G	23350377.55	23350377.71	23350377.90	0.0140	0.0083	
Venus	59219-09-06 14:10 G	23350603.90	23350604.09	23350604.31	0.0140	0.0049	
Venus	59220-04-19 23:17 G	23350830.25	23350830.47	23350830.68	0.0139	0.0014	
Venus	59220-12-02 07:55 G	23351056.61	23351056.83	23351057.04	0.0139	0.0020	
Venus	59221-07-16 16:34 G	23351282.99	23351283.19	23351283.39	0.0139	0.0053	
Venus	59222-02-28 00:29 G	23351509.37	23351509.52	23351509.71	0.0139	0.0087	
Venus	59222-10-12 08:38 G	23351735.77	23351735.86	23351735.99	0.0138	0.0120	
Moon	59225-11-11 11:31 G	23352861.84	23352861.98	23352862.15	0.0137	0.0107	
Earth	59225-11-11 15:07 G	23352861.99	23352862.13	23352862.31	0.0137	0.0105	*
Earth	59226-11-16 03:07 G	23353231.40	23353231.63	23353231.87	0.0137	0.0047	
Moon	59226-11-16 06:43 G	23353231.54	23353231.78	23353232.03	0.0137	0.0042	*
Moon	59227-11-20 10:48 G	23353600.69	23353600.95	23353601.20	0.0137	0.0003	
Earth	59227-11-20 14:10 G	23353600.84	23353601.09	23353601.35	0.0137	0.0010	*
Earth	59228-11-24 00:14 G	23353970.30	23353970.51	23353970.74	0.0136	0.0066	
Moon	59228-11-24 03:50 G	23353970.46	23353970.66	23353970.89	0.0136	0.0074	*
Moon	59229-11-28 06:14 G	23354339.65	23354339.76	23354339.92	0.0136	0.0115	

Earth	59229-11-28 09:50 G	23354339.81	23354339.91	23354340.04	0.0136	0.0121	*
Mercury	59259-12-29 19:12 G	23365328.28	23365328.30	23365328.34	0.0137	0.0133	
Mercury	59260-03-26 22:48 G	23365416.38	23365416.45	23365416.53	0.0137	0.0113	
Mercury	59260-06-23 02:10 G	23365504.50	23365504.59	23365504.70	0.0137	0.0093	
Mercury	59260-09-19 05:31 G	23365592.62	23365592.73	23365592.85	0.0137	0.0073	
Mercury	59260-12-16 09:07 G	23365680.76	23365680.88	23365681.00	0.0138	0.0052	
Mercury	59261-03-14 12:29 G	23365768.89	23365769.02	23365769.15	0.0138	0.0032	
Mercury	59261-06-10 15:50 G	23365857.03	23365857.16	23365857.30	0.0138	0.0012	
Mercury	59261-09-06 19:12 G	23365945.17	23365945.30	23365945.44	0.0138	0.0009	
Mercury	59261-12-03 22:34 G	23366033.31	23366033.44	23366033.57	0.0138	0.0029	
Mercury	59262-03-02 01:55 G	23366121.46	23366121.58	23366121.71	0.0138	0.0049	
Mercury	59262-05-29 05:17 G	23366209.61	23366209.72	23366209.84	0.0138	0.0069	
Venus	59262-06-05 12:43 G	23366216.92	23366217.03	23366217.18	0.0138	0.0112	
Mercury	59262-08-25 08:24 G	23366297.76	23366297.85	23366297.96	0.0138	0.0090	
Mercury	59262-11-21 11:46 G	23366385.92	23366385.99	23366386.08	0.0138	0.0110	
Venus	59263-01-17 21:22 G	23366443.22	23366443.39	23366443.58	0.0138	0.0078	
Mercury	59263-02-17 15:07 G	23366474.09	23366474.13	23366474.18	0.0138	0.0129	
Venus	59263-09-01 05:46 G	23366669.54	23366669.74	23366669.96	0.0139	0.0046	
Venus	59264-04-14 14:24 G	23366895.89	23366896.10	23366896.32	0.0139	0.0012	
Venus	59264-11-26 23:02 G	23367122.25	23367122.46	23367122.68	0.0139	0.0022	
Venus	59265-07-11 07:41 G	23367348.64	23367348.82	23367349.04	0.0139	0.0057	
Venus	59266-02-22 17:02 G	23367575.05	23367575.21	23367575.38	0.0140	0.0090	
Venus	59266-10-07 01:55 G	23367801.50	23367801.58	23367801.69	0.0140	0.0124	
Moon	59269-05-08 20:38 G	23368746.32	23368746.36	23368746.44	0.0141	0.0137	
Earth	59269-05-08 22:34 G	23368746.36	23368746.44	23368746.56	0.0141	0.0129	*
Earth	59270-05-13 18:29 G	23369116.06	23369116.27	23369116.51	0.0141	0.0067	
Moon	59270-05-13 21:36 G	23369116.18	23369116.40	23369116.65	0.0141	0.0062	*
Moon	59271-05-18 12:43 G	23369485.78	23369486.03	23369486.28	0.0142	0.0007	
Earth	59271-05-18 15:36 G	23369485.89	23369486.15	23369486.40	0.0142	0.0004	*
Earth	59272-05-22 12:43 G	23369855.81	23369856.03	23369856.27	0.0142	0.0061	

Moon	59272-05-22 16:05 G	23369855.94	23369856.17	23369856.42	0.0142	0.0058 *
Moon	59273-05-27 07:12 G	23370225.72	23370225.80	23370225.91	0.0142	0.0132
Earth	59273-05-27 11:02 G	23370225.85	23370225.96	23370226.09	0.0142	0.0125 *
Mars	59285-07-28 14:53 G	23374671.00	23374671.12	23374671.29	0.0144	0.0124
Mercury	59300-07-23 11:02 G	23380143.92	23380143.96	23380144.03	0.0141	0.0135
Mercury	59300-10-19 18:43 G	23380232.16	23380232.28	23380232.41	0.0141	0.0105
Mercury	59301-01-16 02:10 G	23380320.44	23380320.59	23380320.75	0.0141	0.0076
Mercury	59301-04-14 09:36 G	23380408.73	23380408.90	23380409.08	0.0141	0.0046
Mercury	59301-07-11 17:17 G	23380497.03	23380497.22	23380497.41	0.0140	0.0016
Mercury	59301-10-08 00:43 G	23380585.35	23380585.53	23380585.72	0.0140	0.0014
Mercury	59302-01-04 08:10 G	23380673.67	23380673.84	23380674.03	0.0140	0.0045
Venus	59302-02-09 04:05 G	23380709.62	23380709.67	23380709.77	0.0140	0.0132
Mercury	59302-04-02 15:50 G	23380762.01	23380762.16	23380762.33	0.0140	0.0074
Mercury	59302-06-29 23:31 G	23380850.36	23380850.48	23380850.61	0.0140	0.0105
Venus	59302-09-23 13:26 G	23380935.92	23380936.06	23380936.23	0.0140	0.0097
Mercury	59302-09-26 06:58 G	23380938.76	23380938.79	23380938.85	0.0140	0.0135
Venus	59303-05-07 22:34 G	23381162.25	23381162.44	23381162.64	0.0140	0.0063
Venus	59303-12-20 07:26 G	23381388.60	23381388.81	23381389.03	0.0139	0.0029
Venus	59304-08-02 16:34 G	23381614.97	23381615.19	23381615.41	0.0139	0.0006
Venus	59305-03-17 01:12 G	23381841.34	23381841.55	23381841.76	0.0139	0.0039
Venus	59305-10-29 09:22 G	23382067.71	23382067.89	23382068.08	0.0139	0.0073
Venus	59306-06-12 17:31 G	23382294.10	23382294.23	23382294.38	0.0139	0.0106
Venus	59307-01-25 01:41 G	23382520.57	23382520.57	23382520.59	0.0138	0.0138
Moon	59309-11-12 22:48 G	23383543.29	23383543.45	23383543.63	0.0137	0.0100
Earth	59309-11-13 01:41 G	23383543.42	23383543.57	23383543.76	0.0137	0.0101 *
Earth	59310-11-17 13:41 G	23383912.83	23383913.07	23383913.31	0.0137	0.0043
Moon	59310-11-17 17:02 G	23383912.98	23383913.21	23383913.46	0.0137	0.0049 *
Moon	59311-11-21 21:07 G	23384282.14	23384282.38	23384282.64	0.0137	0.0021
Earth	59311-11-22 00:43 G	23384282.28	23384282.53	23384282.79	0.0137	0.0014 *
Earth	59312-11-25 10:48 G	23384651.74	23384651.95	23384652.18	0.0136	0.0070

Moon	59312-11-25 14:10 G	23384651.88	23384652.09	23384652.33	0.0136	0.0063 *
Moon	59313-11-29 16:48 G	23385021.15	23385021.20	23385021.28	0.0136	0.0131
Earth	59313-11-29 20:38 G	23385021.27	23385021.36	23385021.47	0.0136	0.0124 *
Mars	59327-11-24 10:19 G	23390128.66	23390128.93	23390129.24	0.0134	0.0068
Mercury	59344-01-20 02:53 G	23396029.57	23396029.62	23396029.68	0.0137	0.0126
Mercury	59344-04-17 06:29 G	23396117.68	23396117.77	23396117.85	0.0137	0.0106
Mercury	59344-07-14 09:50 G	23396205.80	23396205.91	23396206.02	0.0137	0.0085
Mercury	59344-10-10 13:12 G	23396293.93	23396294.05	23396294.17	0.0137	0.0065
Mercury	59345-01-06 16:34 G	23396382.07	23396382.19	23396382.32	0.0138	0.0045
Mercury	59345-04-04 19:55 G	23396470.20	23396470.33	23396470.47	0.0138	0.0025
Mercury	59345-07-01 23:17 G	23396558.34	23396558.47	23396558.61	0.0138	0.0007
Mercury	59345-09-28 02:53 G	23396646.48	23396646.62	23396646.75	0.0138	0.0016
Mercury	59345-12-25 06:00 G	23396734.63	23396734.75	23396734.88	0.0138	0.0036
Venus	59346-02-03 22:34 G	23396775.36	23396775.44	23396775.55	0.0138	0.0124
Mercury	59346-03-23 09:22 G	23396822.77	23396822.89	23396823.02	0.0138	0.0056
Mercury	59346-06-19 12:43 G	23396910.92	23396911.03	23396911.15	0.0138	0.0076
Mercury	59346-09-15 16:05 G	23396999.08	23396999.17	23396999.27	0.0138	0.0096
Venus	59346-09-18 06:58 G	23397001.63	23397001.79	23397001.96	0.0138	0.0091
Mercury	59346-12-12 19:12 G	23397087.24	23397087.30	23397087.38	0.0138	0.0117
Mercury	59347-03-10 22:34 G	23397175.43	23397175.44	23397175.47	0.0138	0.0136
Venus	59347-05-02 15:07 G	23397227.94	23397228.13	23397228.34	0.0138	0.0059
Venus	59347-12-14 23:46 G	23397454.28	23397454.49	23397454.70	0.0139	0.0025
Venus	59348-07-28 08:24 G	23397680.63	23397680.85	23397681.07	0.0139	0.0008
Venus	59349-03-11 17:02 G	23397907.01	23397907.21	23397907.42	0.0139	0.0043
Venus	59349-10-24 01:41 G	23398133.40	23398133.57	23398133.77	0.0139	0.0077
Venus	59350-06-07 10:34 G	23398359.83	23398359.94	23398360.09	0.0140	0.0111
Moon	59353-05-10 08:24 G	23399427.73	23399427.85	23399428.00	0.0141	0.0117
Earth	59353-05-10 10:19 G	23399427.83	23399427.93	23399428.07	0.0141	0.0124 *
Earth	59354-05-15 06:00 G	23399797.54	23399797.75	23399798.00	0.0141	0.0062
Moon	59354-05-15 08:10 G	23399797.62	23399797.84	23399798.08	0.0141	0.0068 *

Moon	59355-05-20 00:29 G	23400167.27	23400167.52	23400167.77	0.0142	0.0004
Earth	59355-05-20 03:07 G	23400167.38	23400167.63	23400167.89	0.0142	0.0002 *
Earth	59356-05-24 00:14 G	23400537.30	23400537.51	23400537.75	0.0142	0.0066
Moon	59356-05-24 03:36 G	23400537.43	23400537.65	23400537.89	0.0142	0.0067 *
Moon	59357-05-28 19:12 G	23400907.20	23400907.30	23400907.44	0.0142	0.0125
Earth	59357-05-28 22:19 G	23400907.35	23400907.43	23400907.56	0.0142	0.0131 *
Mars	59370-03-24 14:24 G	23405589.85	23405590.10	23405590.35	0.0144	0.0071
Mercury	59384-08-12 18:43 G	23410845.21	23410845.28	23410845.38	0.0141	0.0125
Mercury	59384-11-09 02:24 G	23410933.47	23410933.60	23410933.74	0.0141	0.0095
Mercury	59385-02-05 09:50 G	23411021.75	23411021.91	23411022.08	0.0141	0.0066
Mercury	59385-05-04 17:31 G	23411110.05	23411110.23	23411110.41	0.0140	0.0035
Mercury	59385-08-01 00:58 G	23411198.36	23411198.54	23411198.73	0.0140	0.0006
Mercury	59385-10-28 08:38 G	23411286.67	23411286.86	23411287.04	0.0140	0.0025
Mercury	59386-01-24 16:19 G	23411375.00	23411375.18	23411375.35	0.0140	0.0055
Mercury	59386-04-22 23:31 G	23411463.34	23411463.48	23411463.64	0.0140	0.0085
Venus	59386-05-23 22:34 G	23411494.32	23411494.44	23411494.58	0.0140	0.0111
Mercury	59386-07-20 07:12 G	23411551.71	23411551.80	23411551.92	0.0140	0.0115
Venus	59387-01-05 07:41 G	23411720.65	23411720.82	23411721.01	0.0140	0.0077
Venus	59387-08-19 16:48 G	23411947.00	23411947.20	23411947.42	0.0140	0.0043
Venus	59388-04-02 01:55 G	23412173.36	23412173.58	23412173.80	0.0139	0.0008
Venus	59388-11-14 10:19 G	23412399.73	23412399.93	23412400.15	0.0139	0.0027
Venus	59389-06-28 18:43 G	23412626.10	23412626.28	23412626.49	0.0139	0.0060
Venus	59390-02-10 03:07 G	23412852.48	23412852.63	23412852.80	0.0139	0.0093
Venus	59390-09-24 11:17 G	23413078.90	23413078.97	23413079.08	0.0138	0.0126
Moon	59393-11-13 10:19 G	23414224.78	23414224.93	23414225.13	0.0137	0.0098
Earth	59393-11-13 13:55 G	23414224.91	23414225.08	23414225.28	0.0137	0.0095 *
Earth	59394-11-18 01:55 G	23414594.34	23414594.58	23414594.82	0.0137	0.0038
Moon	59394-11-18 05:02 G	23414594.46	23414594.71	23414594.96	0.0137	0.0034 *
Moon	59395-11-22 09:22 G	23414963.65	23414963.89	23414964.14	0.0137	0.0012
Earth	59395-11-22 12:43 G	23414963.78	23414964.03	23414964.28	0.0137	0.0018 *

Earth	59396-11-25 22:48 G	23415333.25	23415333.45	23415333.68	0.0136	0.0074
Moon	59396-11-26 02:38 G	23415333.41	23415333.61	23415333.82	0.0136	0.0082 *
Moon	59397-11-30 05:17 G	23415702.64	23415702.72	23415702.85	0.0136	0.0123
Earth	59397-11-30 08:38 G	23415702.80	23415702.86	23415702.96	0.0136	0.0129 *
Mars	59412-07-21 02:10 G	23421048.49	23421048.59	23421048.76	0.0134	0.0122
Mercury	59428-02-10 10:19 G	23426730.87	23426730.93	23426731.00	0.0137	0.0119
Mercury	59428-05-08 13:55 G	23426818.99	23426819.08	23426819.17	0.0137	0.0099
Mercury	59428-08-04 17:17 G	23426907.11	23426907.22	23426907.33	0.0137	0.0078
Mercury	59428-10-31 20:38 G	23426995.24	23426995.36	23426995.49	0.0137	0.0058
Mercury	59429-01-28 00:00 G	23427083.38	23427083.50	23427083.64	0.0138	0.0038
Mercury	59429-04-26 03:36 G	23427171.51	23427171.65	23427171.78	0.0138	0.0018
Mercury	59429-07-23 06:58 G	23427259.65	23427259.79	23427259.92	0.0138	0.0003
Venus	59429-10-05 07:55 G	23427333.83	23427333.83	23427333.86	0.0138	0.0138
Mercury	59429-10-19 10:19 G	23427347.80	23427347.93	23427348.06	0.0138	0.0023
Mercury	59430-01-15 13:26 G	23427435.94	23427436.06	23427436.19	0.0138	0.0043
Mercury	59430-04-13 16:48 G	23427524.09	23427524.20	23427524.33	0.0138	0.0063
Venus	59430-05-19 16:05 G	23427560.04	23427560.17	23427560.32	0.0138	0.0105
Mercury	59430-07-10 20:10 G	23427612.24	23427612.34	23427612.45	0.0138	0.0083
Mercury	59430-10-06 23:17 G	23427700.40	23427700.47	23427700.57	0.0138	0.0104
Venus	59431-01-01 00:14 G	23427786.34	23427786.51	23427786.71	0.0138	0.0073
Mercury	59431-01-03 02:53 G	23427788.56	23427788.62	23427788.68	0.0138	0.0123
Venus	59431-08-15 08:53 G	23428012.66	23428012.87	23428013.08	0.0139	0.0039
Venus	59432-03-28 17:31 G	23428239.01	23428239.23	23428239.44	0.0139	0.0006
Venus	59432-11-10 01:55 G	23428465.37	23428465.58	23428465.80	0.0139	0.0028
Venus	59433-06-24 10:34 G	23428691.75	23428691.94	23428692.14	0.0139	0.0062
Venus	59434-02-05 19:26 G	23428918.17	23428918.31	23428918.48	0.0140	0.0097
Venus	59434-09-20 04:19 G	23429144.63	23429144.68	23429144.78	0.0140	0.0131
Moon	59437-05-11 20:53 G	23430109.27	23430109.37	23430109.48	0.0141	0.0126
Earth	59437-05-11 21:22 G	23430109.28	23430109.39	23430109.55	0.0141	0.0119 *
Earth	59438-05-16 17:17 G	23430479.00	23430479.22	23430479.47	0.0141	0.0058

Moon	59438-05-16 19:26 G	23430479.08	23430479.31	23430479.57	0.0141	0.0051	*
Moon	59439-05-21 12:29 G	23430848.77	23430849.02	23430849.27	0.0141	0.0002	
Earth	59439-05-21 14:24 G	23430848.85	23430849.10	23430849.36	0.0141	0.0007	*
Earth	59440-05-25 11:31 G	23431218.77	23431218.98	23431219.22	0.0142	0.0071	
Moon	59440-05-25 14:24 G	23431218.88	23431219.10	23431219.34	0.0142	0.0069	*
Moon	59441-05-30 06:58 G	23431588.75	23431588.79	23431588.84	0.0142	0.0140	
Earth	59441-05-30 09:50 G	23431588.84	23431588.91	23431589.00	0.0142	0.0134	*
Mercury	59468-09-03 01:55 G	23441546.49	23441546.58	23441546.69	0.0141	0.0117	
Mercury	59468-11-30 09:22 G	23441634.76	23441634.89	23441635.05	0.0141	0.0088	
Mercury	59469-02-26 17:02 G	23441723.04	23441723.21	23441723.38	0.0141	0.0058	
Mercury	59469-05-26 00:29 G	23441811.34	23441811.52	23441811.71	0.0140	0.0028	
Mercury	59469-08-22 08:10 G	23441899.65	23441899.84	23441900.03	0.0140	0.0003	
Mercury	59469-11-18 15:36 G	23441987.97	23441988.15	23441988.34	0.0140	0.0032	
Venus	59470-01-22 06:14 G	23442052.68	23442052.76	23442052.86	0.0140	0.0127	
Mercury	59470-02-14 23:02 G	23442076.30	23442076.46	23442076.64	0.0140	0.0063	
Mercury	59470-05-14 06:43 G	23442164.65	23442164.78	23442164.93	0.0140	0.0092	
Mercury	59470-08-10 14:10 G	23442253.02	23442253.09	23442253.19	0.0140	0.0123	
Venus	59470-09-05 15:36 G	23442278.99	23442279.15	23442279.32	0.0140	0.0092	
Venus	59471-04-20 00:43 G	23442505.34	23442505.53	23442505.73	0.0140	0.0058	
Venus	59471-12-02 09:36 G	23442731.69	23442731.90	23442732.12	0.0140	0.0024	
Venus	59472-07-15 18:29 G	23442958.06	23442958.27	23442958.49	0.0139	0.0011	
Venus	59473-02-27 03:07 G	23443184.43	23443184.63	23443184.84	0.0139	0.0044	
Venus	59473-10-11 11:31 G	23443410.80	23443410.98	23443411.16	0.0139	0.0078	
Venus	59474-05-25 19:41 G	23443637.20	23443637.32	23443637.45	0.0139	0.0111	
Moon	59477-11-14 21:36 G	23444906.23	23444906.40	23444906.60	0.0137	0.0091	
Earth	59477-11-15 00:14 G	23444906.32	23444906.51	23444906.70	0.0137	0.0091	*
Earth	59478-11-19 11:46 G	23445275.75	23445275.99	23445276.24	0.0137	0.0034	
Moon	59478-11-19 15:07 G	23445275.88	23445276.13	23445276.38	0.0137	0.0038	*
Moon	59479-11-23 20:10 G	23445645.10	23445645.34	23445645.58	0.0137	0.0029	
Earth	59479-11-23 23:02 G	23445645.21	23445645.46	23445645.71	0.0137	0.0023	*

Earth	59480-11-27 09:22 G	23446014.69	23446014.89	23446015.10	0.0136	0.0079
Moon	59480-11-27 12:29 G	23446014.81	23446015.02	23446015.25	0.0136	0.0071 *
Earth	59481-12-01 19:12 G	23446384.27	23446384.30	23446384.37	0.0136	0.0133
Mercury	59511-12-05 14:10 G	23457344.07	23457344.09	23457344.13	0.0137	0.0133
Mercury	59512-03-02 17:46 G	23457432.17	23457432.24	23457432.32	0.0137	0.0113
Mercury	59512-05-29 21:07 G	23457520.29	23457520.38	23457520.49	0.0137	0.0092
Mercury	59512-08-26 00:29 G	23457608.42	23457608.52	23457608.64	0.0137	0.0073
Mercury	59512-11-22 04:05 G	23457696.55	23457696.67	23457696.80	0.0137	0.0052
Mercury	59513-02-18 07:26 G	23457784.68	23457784.81	23457784.94	0.0138	0.0032
Mercury	59513-05-17 10:48 G	23457872.82	23457872.95	23457873.09	0.0138	0.0012
Mercury	59513-08-13 14:10 G	23457960.96	23457961.09	23457961.23	0.0138	0.0010
Mercury	59513-11-09 17:31 G	23458049.10	23458049.23	23458049.37	0.0138	0.0029
Venus	59514-01-18 00:58 G	23458118.44	23458118.54	23458118.66	0.0138	0.0119
Mercury	59514-02-05 20:53 G	23458137.25	23458137.37	23458137.50	0.0138	0.0049
Mercury	59514-05-05 00:14 G	23458225.40	23458225.51	23458225.63	0.0138	0.0069
Mercury	59514-08-01 03:22 G	23458313.55	23458313.64	23458313.75	0.0138	0.0090
Venus	59514-09-01 09:07 G	23458344.72	23458344.88	23458345.06	0.0138	0.0087
Mercury	59514-10-28 06:43 G	23458401.71	23458401.78	23458401.87	0.0138	0.0109
Mercury	59515-01-24 10:19 G	23458489.88	23458489.93	23458489.97	0.0138	0.0129
Venus	59515-04-15 17:17 G	23458571.03	23458571.22	23458571.43	0.0138	0.0054
Venus	59515-11-28 01:55 G	23458797.36	23458797.58	23458797.79	0.0139	0.0020
Venus	59516-07-11 10:19 G	23459023.72	23459023.93	23459024.15	0.0139	0.0014
Venus	59517-02-22 19:12 G	23459250.10	23459250.30	23459250.51	0.0139	0.0047
Venus	59517-10-07 03:50 G	23459476.49	23459476.66	23459476.84	0.0139	0.0081
Venus	59518-05-21 12:29 G	23459702.92	23459703.02	23459703.16	0.0140	0.0116
Moon	59521-05-13 06:58 G	23460790.65	23460790.79	23460790.98	0.0141	0.0107
Earth	59521-05-13 07:55 G	23460790.70	23460790.83	23460791.00	0.0141	0.0114 *
Earth	59522-05-18 04:05 G	23461160.43	23461160.67	23461160.91	0.0141	0.0051
Moon	59522-05-18 04:48 G	23461160.46	23461160.70	23461160.94	0.0141	0.0058 *
Moon	59523-05-22 23:02 G	23461530.22	23461530.46	23461530.71	0.0141	0.0015

Earth	59523-05-23 00:58 G	23461530.28	23461530.54	23461530.79	0.0141	0.0012	*
Earth	59524-05-26 22:05 G	23461900.21	23461900.42	23461900.64	0.0142	0.0075	
Moon	59524-05-27 00:00 G	23461900.29	23461900.50	23461900.74	0.0142	0.0075	*
Moon	59525-05-31 17:31 G	23462270.18	23462270.23	23462270.32	0.0142	0.0135	
Earth	59525-05-31 19:55 G	23462270.30	23462270.33	23462270.40	0.0142	0.0139	*
Mars	59537-08-13 02:53 G	23466726.38	23466726.62	23466726.88	0.0144	0.0069	
Mercury	59552-06-28 01:41 G	23472159.55	23472159.57	23472159.61	0.0141	0.0139	
Mercury	59552-09-24 09:22 G	23472247.77	23472247.89	23472248.01	0.0141	0.0109	
Mercury	59552-12-21 16:34 G	23472336.05	23472336.19	23472336.35	0.0141	0.0080	
Mercury	59553-03-20 00:14 G	23472424.33	23472424.51	23472424.68	0.0141	0.0050	
Mercury	59553-06-16 07:41 G	23472512.64	23472512.82	23472513.01	0.0140	0.0020	
Mercury	59553-09-12 15:07 G	23472600.95	23472601.13	23472601.32	0.0140	0.0011	
Mercury	59553-12-09 22:34 G	23472689.27	23472689.44	23472689.63	0.0140	0.0041	
Mercury	59554-03-08 06:14 G	23472777.60	23472777.76	23472777.93	0.0140	0.0070	
Venus	59554-05-06 23:02 G	23472837.34	23472837.46	23472837.61	0.0140	0.0108	
Mercury	59554-06-04 13:55 G	23472865.95	23472866.08	23472866.21	0.0140	0.0100	
Mercury	59554-08-31 21:36 G	23472954.34	23472954.40	23472954.47	0.0140	0.0130	
Venus	59554-12-19 08:24 G	23473063.67	23473063.85	23473064.04	0.0140	0.0073	
Venus	59555-08-02 17:46 G	23473290.03	23473290.24	23473290.45	0.0140	0.0039	
Venus	59556-03-16 02:38 G	23473516.39	23473516.61	23473516.82	0.0139	0.0005	
Venus	59556-10-28 11:02 G	23473742.75	23473742.96	23473743.18	0.0139	0.0030	
Venus	59557-06-11 19:26 G	23473969.13	23473969.31	23473969.51	0.0139	0.0063	
Venus	59558-01-24 03:36 G	23474195.51	23474195.65	23474195.82	0.0139	0.0097	
Venus	59558-09-07 11:46 G	23474421.94	23474421.99	23474422.09	0.0139	0.0130	
Moon	59561-11-16 07:41 G	23475587.65	23475587.82	23475588.03	0.0137	0.0086	
Earth	59561-11-16 10:19 G	23475587.74	23475587.93	23475588.14	0.0137	0.0086	*
Earth	59562-11-20 22:19 G	23475957.19	23475957.43	23475957.68	0.0137	0.0029	
Moon	59562-11-21 00:43 G	23475957.28	23475957.53	23475957.79	0.0137	0.0026	*
Moon	59563-11-25 06:58 G	23476326.55	23476326.79	23476327.04	0.0137	0.0022	
Earth	59563-11-25 09:36 G	23476326.66	23476326.90	23476327.15	0.0137	0.0028	*

Earth	59564-11-28 19:55 G	23476696.15	23476696.33	23476696.55	0.0136	0.0083
Moon	59564-11-28 23:02 G	23476696.28	23476696.46	23476696.66	0.0136	0.0091 *
Moon	59565-12-03 03:36 G	23477065.60	23477065.65	23477065.72	0.0136	0.0131
Mars	59579-12-08 02:24 G	23482183.26	23482183.60	23482183.93	0.0134	0.0002
Mercury	59595-12-25 21:36 G	23488045.36	23488045.40	23488045.46	0.0137	0.0126
Mercury	59596-03-23 00:58 G	23488133.47	23488133.54	23488133.64	0.0137	0.0107
Mercury	59596-06-19 04:34 G	23488221.59	23488221.69	23488221.80	0.0137	0.0086
Mercury	59596-09-15 07:55 G	23488309.72	23488309.83	23488309.95	0.0137	0.0066
Mercury	59596-12-12 11:31 G	23488397.85	23488397.98	23488398.11	0.0137	0.0045
Mercury	59597-03-10 14:53 G	23488485.99	23488486.12	23488486.25	0.0138	0.0025
Mercury	59597-06-06 18:14 G	23488574.13	23488574.26	23488574.40	0.0138	0.0005
Mercury	59597-09-02 21:36 G	23488662.27	23488662.40	23488662.53	0.0138	0.0015
Venus	59597-09-17 10:05 G	23488676.87	23488676.92	23488676.98	0.0138	0.0133
Mercury	59597-11-30 00:58 G	23488750.41	23488750.54	23488750.67	0.0138	0.0035
Mercury	59598-02-26 04:19 G	23488838.56	23488838.68	23488838.80	0.0138	0.0055
Venus	59598-05-01 18:14 G	23488903.11	23488903.26	23488903.41	0.0138	0.0100
Mercury	59598-05-25 07:41 G	23488926.71	23488926.82	23488926.93	0.0138	0.0075
Mercury	59598-08-21 10:48 G	23489014.86	23489014.95	23489015.05	0.0138	0.0095
Mercury	59598-11-17 14:10 G	23489103.02	23489103.09	23489103.17	0.0138	0.0115
Venus	59598-12-14 02:24 G	23489129.41	23489129.60	23489129.79	0.0138	0.0068
Mercury	59599-02-13 17:17 G	23489191.21	23489191.22	23489191.26	0.0138	0.0136
Venus	59599-07-28 10:34 G	23489355.73	23489355.94	23489356.16	0.0138	0.0035
Venus	59600-03-10 19:12 G	23489582.08	23489582.30	23489582.52	0.0139	0.0001
Venus	59600-10-23 03:36 G	23489808.44	23489808.65	23489808.87	0.0139	0.0033
Venus	59601-06-06 12:00 G	23490034.83	23490035.00	23490035.21	0.0139	0.0067
Venus	59602-01-18 21:07 G	23490261.24	23490261.38	23490261.54	0.0139	0.0101
Venus	59602-09-02 06:00 G	23490487.71	23490487.75	23490487.82	0.0140	0.0135
Earth	59605-05-13 18:43 G	23491472.14	23491472.28	23491472.46	0.0141	0.0108
Moon	59605-05-13 19:12 G	23491472.18	23491472.30	23491472.46	0.0141	0.0115 *
Earth	59606-05-18 14:53 G	23491841.89	23491842.12	23491842.37	0.0141	0.0046

Moon	59606-05-18 15:36 G	23491841.91	23491842.15	23491842.42	0.0141	0.0039 *
Moon	59607-05-23 11:02 G	23492211.72	23492211.96	23492212.21	0.0141	0.0012
Earth	59607-05-23 11:46 G	23492211.74	23492211.99	23492212.25	0.0141	0.0017 *
Earth	59608-05-27 08:38 G	23492581.67	23492581.86	23492582.09	0.0142	0.0081
Moon	59608-05-27 10:19 G	23492581.73	23492581.93	23492582.16	0.0142	0.0081 *
Mars	59622-04-07 23:17 G	23497645.32	23497645.47	23497645.64	0.0144	0.0119
Mercury	59636-07-18 08:10 G	23502860.80	23502860.84	23502860.91	0.0141	0.0133
Mercury	59636-10-14 15:36 G	23502949.04	23502949.15	23502949.29	0.0141	0.0104
Mercury	59637-01-10 23:17 G	23503037.31	23503037.47	23503037.63	0.0141	0.0074
Mercury	59637-04-09 06:43 G	23503125.61	23503125.78	23503125.96	0.0141	0.0044
Mercury	59637-07-06 14:10 G	23503213.91	23503214.09	23503214.28	0.0140	0.0015
Mercury	59637-10-02 21:50 G	23503302.22	23503302.41	23503302.59	0.0140	0.0016
Mercury	59637-12-30 05:17 G	23503390.54	23503390.72	23503390.90	0.0140	0.0046
Venus	59638-01-04 05:31 G	23503395.65	23503395.73	23503395.85	0.0140	0.0125
Mercury	59638-03-28 12:43 G	23503478.88	23503479.03	23503479.20	0.0140	0.0076
Mercury	59638-06-24 20:10 G	23503567.23	23503567.34	23503567.48	0.0140	0.0106
Venus	59638-08-18 14:53 G	23503621.97	23503622.12	23503622.30	0.0140	0.0090
Mercury	59638-09-21 03:50 G	23503655.63	23503655.66	23503655.71	0.0140	0.0136
Venus	59639-04-02 00:14 G	23503848.32	23503848.51	23503848.72	0.0140	0.0055
Venus	59639-11-14 09:07 G	23504074.67	23504074.88	23504075.10	0.0140	0.0021
Venus	59640-06-27 18:00 G	23504301.03	23504301.25	23504301.47	0.0139	0.0013
Venus	59641-02-09 02:24 G	23504527.40	23504527.60	23504527.81	0.0139	0.0047
Venus	59641-09-23 10:48 G	23504753.78	23504753.95	23504754.14	0.0139	0.0081
Venus	59642-05-07 18:58 G	23504980.18	23504980.29	23504980.43	0.0139	0.0114
Moon	59644-11-12 07:41 G	23505899.77	23505899.82	23505899.88	0.0138	0.0134
Moon	59645-11-16 17:31 G	23506269.04	23506269.23	23506269.43	0.0137	0.0084
Earth	59645-11-16 18:43 G	23506269.09	23506269.28	23506269.49	0.0137	0.0082 *
Earth	59646-11-21 06:43 G	23506638.53	23506638.78	23506639.03	0.0137	0.0025
Moon	59646-11-21 08:53 G	23506638.62	23506638.87	23506639.13	0.0137	0.0028 *
Moon	59647-11-25 16:05 G	23507007.94	23507008.17	23507008.42	0.0137	0.0037

Earth	59647-11-25 18:00 G	23507008.01	23507008.25	23507008.51	0.0137	0.0032	*
Earth	59648-11-29 05:02 G	23507377.52	23507377.71	23507377.91	0.0136	0.0087	
Moon	59648-11-29 06:58 G	23507377.60	23507377.79	23507378.02	0.0136	0.0081	*
Mercury	59680-01-15 05:02 G	23518746.65	23518746.71	23518746.78	0.0137	0.0120	
Mercury	59680-04-12 08:24 G	23518834.76	23518834.85	23518834.95	0.0137	0.0100	
Mercury	59680-07-09 12:00 G	23518922.89	23518923.00	23518923.11	0.0137	0.0080	
Mercury	59680-10-05 15:22 G	23519011.02	23519011.14	23519011.26	0.0137	0.0060	
Mercury	59681-01-01 18:43 G	23519099.15	23519099.28	23519099.41	0.0138	0.0039	
Mercury	59681-03-30 22:05 G	23519187.29	23519187.42	23519187.56	0.0138	0.0020	
Mercury	59681-06-27 01:41 G	23519275.43	23519275.57	23519275.70	0.0138	0.0005	
Mercury	59681-09-23 04:48 G	23519363.57	23519363.70	23519363.84	0.0138	0.0022	
Mercury	59681-12-20 08:10 G	23519451.72	23519451.84	23519451.97	0.0138	0.0041	
Venus	59681-12-30 02:53 G	23519461.51	23519461.62	23519461.75	0.0138	0.0114	
Mercury	59682-03-18 11:31 G	23519539.87	23519539.98	23519540.10	0.0138	0.0061	
Mercury	59682-06-14 14:53 G	23519628.02	23519628.12	23519628.23	0.0138	0.0081	
Venus	59682-08-13 11:02 G	23519687.79	23519687.96	23519688.14	0.0138	0.0082	
Mercury	59682-09-10 18:14 G	23519716.17	23519716.26	23519716.35	0.0138	0.0101	
Mercury	59682-12-07 21:22 G	23519804.34	23519804.39	23519804.46	0.0138	0.0121	
Venus	59683-03-27 19:12 G	23519914.10	23519914.30	23519914.51	0.0138	0.0049	
Venus	59683-11-09 03:36 G	23520140.44	23520140.65	23520140.87	0.0139	0.0015	
Venus	59684-06-22 12:00 G	23520366.79	23520367.00	23520367.22	0.0139	0.0019	
Venus	59685-02-03 20:53 G	23520593.17	23520593.37	23520593.57	0.0139	0.0052	
Venus	59685-09-18 05:31 G	23520819.57	23520819.73	23520819.91	0.0139	0.0086	
Venus	59686-05-02 14:10 G	23521046.00	23521046.09	23521046.21	0.0139	0.0121	
Earth	59689-05-14 06:00 G	23522153.58	23522153.75	23522153.93	0.0141	0.0102	
Moon	59689-05-14 06:14 G	23522153.59	23522153.76	23522153.96	0.0141	0.0096	*
Moon	59690-05-19 01:12 G	23522523.31	23522523.55	23522523.81	0.0141	0.0048	
Earth	59690-05-19 01:55 G	23522523.34	23522523.58	23522523.83	0.0141	0.0040	*
Moon	59691-05-23 21:50 G	23522893.18	23522893.41	23522893.66	0.0141	0.0027	
Earth	59691-05-23 22:19 G	23522893.19	23522893.43	23522893.69	0.0141	0.0023	*

Earth	59692-05-27 19:26 G	23523263.12	23523263.31	23523263.53	0.0142	0.0086
Moon	59692-05-27 20:10 G	23523263.15	23523263.34	23523263.57	0.0142	0.0084 *
Mercury	59720-08-08 15:07 G	23533562.06	23533562.13	23533562.22	0.0141	0.0126
Mercury	59720-11-04 22:34 G	23533650.32	23533650.44	23533650.58	0.0141	0.0097
Mercury	59721-02-01 06:14 G	23533738.59	23533738.76	23533738.92	0.0141	0.0067
Mercury	59721-04-30 13:26 G	23533826.89	23533827.06	23533827.25	0.0141	0.0038
Mercury	59721-07-27 21:07 G	23533915.19	23533915.38	23533915.57	0.0140	0.0008
Venus	59721-09-04 12:58 G	23533954.03	23533954.04	23533954.06	0.0140	0.0140
Mercury	59721-10-24 04:34 G	23534003.51	23534003.69	23534003.88	0.0140	0.0022
Mercury	59722-01-20 12:00 G	23534091.83	23534092.00	23534092.18	0.0140	0.0053
Mercury	59722-04-18 19:41 G	23534180.17	23534180.32	23534180.47	0.0140	0.0082
Venus	59722-04-18 22:05 G	23534180.29	23534180.42	23534180.58	0.0140	0.0106 *
Mercury	59722-07-16 03:07 G	23534268.53	23534268.63	23534268.75	0.0140	0.0113
Venus	59722-12-01 07:12 G	23534406.63	23534406.80	23534407.00	0.0140	0.0071
Venus	59723-07-15 16:34 G	23534632.98	23534633.19	23534633.40	0.0140	0.0036
Venus	59724-02-27 01:26 G	23534859.34	23534859.56	23534859.78	0.0140	0.0002
Venus	59724-10-10 09:50 G	23535085.71	23535085.91	23535086.13	0.0139	0.0032
Venus	59725-05-24 18:14 G	23535312.08	23535312.26	23535312.46	0.0139	0.0066
Venus	59726-01-06 02:38 G	23535538.47	23535538.61	23535538.77	0.0139	0.0099
Venus	59726-08-20 11:02 G	23535764.90	23535764.96	23535765.03	0.0139	0.0132
Earth	59728-11-13 15:07 G	23536581.09	23536581.13	23536581.19	0.0138	0.0135
Moon	59729-11-18 02:38 G	23536950.42	23536950.61	23536950.83	0.0137	0.0077
Earth	59729-11-18 04:05 G	23536950.47	23536950.67	23536950.88	0.0137	0.0078 *
Earth	59730-11-22 16:05 G	23537319.93	23537320.17	23537320.43	0.0137	0.0021
Moon	59730-11-22 17:17 G	23537319.96	23537320.22	23537320.48	0.0137	0.0020 *
Moon	59731-11-27 02:10 G	23537689.36	23537689.59	23537689.83	0.0137	0.0031
Earth	59731-11-27 03:36 G	23537689.41	23537689.65	23537689.90	0.0137	0.0036 *
Earth	59732-11-30 14:24 G	23538058.92	23538059.10	23538059.30	0.0136	0.0091
Moon	59732-11-30 16:05 G	23538059.00	23538059.17	23538059.37	0.0136	0.0098 *
Mars	59747-04-25 21:50 G	23543318.33	23543318.41	23543318.52	0.0134	0.0128

Mercury	59763-11-09 08:53 G	23549359.85	23549359.87	23549359.90	0.0137	0.0135
Mercury	59764-02-05 12:14 G	23549447.95	23549448.01	23549448.09	0.0137	0.0115
Mercury	59764-05-03 15:36 G	23549536.06	23549536.15	23549536.26	0.0137	0.0095
Mercury	59764-07-30 19:12 G	23549624.19	23549624.30	23549624.42	0.0137	0.0074
Mercury	59764-10-26 22:34 G	23549712.32	23549712.44	23549712.57	0.0138	0.0054
Mercury	59765-01-23 02:10 G	23549800.46	23549800.59	23549800.72	0.0138	0.0034
Mercury	59765-04-21 05:31 G	23549888.59	23549888.73	23549888.86	0.0138	0.0013
Mercury	59765-07-18 08:53 G	23549976.74	23549976.87	23549977.00	0.0138	0.0007
Venus	59765-08-30 11:46 G	23550019.92	23550019.99	23550020.08	0.0138	0.0128
Mercury	59765-10-14 12:14 G	23550064.88	23550065.01	23550065.14	0.0138	0.0027
Mercury	59766-01-10 15:36 G	23550153.02	23550153.15	23550153.28	0.0138	0.0047
Mercury	59766-04-08 18:58 G	23550241.17	23550241.29	23550241.41	0.0138	0.0067
Venus	59766-04-13 19:41 G	23550246.18	23550246.32	23550246.49	0.0138	0.0095
Mercury	59766-07-05 22:05 G	23550329.33	23550329.42	23550329.53	0.0138	0.0087
Mercury	59766-10-02 01:26 G	23550417.49	23550417.56	23550417.65	0.0138	0.0107
Venus	59766-11-26 03:50 G	23550472.48	23550472.66	23550472.87	0.0138	0.0063
Mercury	59766-12-29 05:02 G	23550505.66	23550505.71	23550505.76	0.0138	0.0127
Venus	59767-07-10 12:14 G	23550698.80	23550699.01	23550699.23	0.0138	0.0029
Venus	59768-02-21 20:53 G	23550925.15	23550925.37	23550925.59	0.0139	0.0005
Venus	59768-10-05 05:31 G	23551151.52	23551151.73	23551151.94	0.0139	0.0038
Venus	59769-05-19 13:55 G	23551377.90	23551378.08	23551378.28	0.0139	0.0072
Venus	59769-12-31 22:48 G	23551604.32	23551604.45	23551604.60	0.0139	0.0106
Earth	59773-05-15 17:02 G	23552835.04	23552835.21	23552835.41	0.0141	0.0097
Moon	59773-05-15 18:58 G	23552835.13	23552835.29	23552835.46	0.0141	0.0103 *
Moon	59774-05-20 12:29 G	23553204.77	23553205.02	23553205.29	0.0141	0.0028
Earth	59774-05-20 13:12 G	23553204.81	23553205.05	23553205.30	0.0141	0.0035 *
Earth	59775-05-25 09:36 G	23553574.66	23553574.90	23553575.16	0.0141	0.0028
Moon	59775-05-25 10:19 G	23553574.69	23553574.93	23553575.18	0.0141	0.0021 *
Earth	59776-05-29 06:29 G	23553944.59	23553944.77	23553944.98	0.0142	0.0091
Moon	59776-05-29 06:58 G	23553944.60	23553944.79	23553945.00	0.0142	0.0092 *

Mars	59789-08-26 13:55 G	23558781.80	23558782.08	23558782.37	0.0144	0.0016
Mercury	59804-08-29 21:50 G	23564263.33	23564263.41	23564263.52	0.0141	0.0120
Mercury	59804-11-26 05:31 G	23564351.59	23564351.73	23564351.88	0.0141	0.0090
Mercury	59805-02-22 12:58 G	23564439.87	23564440.04	23564440.21	0.0141	0.0061
Mercury	59805-05-21 20:24 G	23564528.17	23564528.35	23564528.53	0.0141	0.0031
Mercury	59805-08-18 03:50 G	23564616.47	23564616.66	23564616.85	0.0140	0.0002
Mercury	59805-11-14 11:17 G	23564704.79	23564704.97	23564705.16	0.0140	0.0029
Venus	59805-12-18 05:17 G	23564738.62	23564738.72	23564738.83	0.0140	0.0121
Mercury	59806-02-10 18:43 G	23564793.12	23564793.28	23564793.46	0.0140	0.0059
Mercury	59806-05-10 02:24 G	23564881.46	23564881.60	23564881.75	0.0140	0.0088
Venus	59806-08-01 14:24 G	23564964.94	23564965.10	23564965.28	0.0140	0.0086
Mercury	59806-08-06 09:50 G	23564969.82	23564969.91	23564970.02	0.0140	0.0118
Venus	59807-03-15 23:31 G	23565191.29	23565191.48	23565191.69	0.0140	0.0052
Venus	59807-10-28 08:24 G	23565417.64	23565417.85	23565418.07	0.0140	0.0018
Venus	59808-06-10 17:02 G	23565644.00	23565644.21	23565644.43	0.0139	0.0017
Venus	59809-01-23 01:41 G	23565870.37	23565870.57	23565870.77	0.0139	0.0051
Venus	59809-09-06 10:05 G	23566096.75	23566096.92	23566097.10	0.0139	0.0084
Venus	59810-04-20 18:00 G	23566323.16	23566323.25	23566323.39	0.0139	0.0118
Moon	59812-11-14 23:31 G	23567262.40	23567262.48	23567262.61	0.0138	0.0126
Earth	59812-11-14 23:31 G	23567262.43	23567262.48	23567262.57	0.0138	0.0132 *
Earth	59813-11-19 12:29 G	23567631.82	23567632.02	23567632.25	0.0137	0.0075
Moon	59813-11-19 12:29 G	23567631.84	23567632.02	23567632.24	0.0137	0.0079 *
Earth	59814-11-24 00:43 G	23568001.29	23568001.53	23568001.79	0.0137	0.0018
Moon	59814-11-24 01:41 G	23568001.31	23568001.57	23568001.83	0.0137	0.0019 *
Moon	59815-11-28 11:46 G	23568370.76	23568370.99	23568371.23	0.0137	0.0042
Earth	59815-11-28 12:14 G	23568370.78	23568371.01	23568371.26	0.0137	0.0039 *
Earth	59816-12-01 23:17 G	23568740.29	23568740.47	23568740.66	0.0136	0.0094
Moon	59816-12-02 00:14 G	23568740.32	23568740.51	23568740.72	0.0136	0.0088 *
Mars	59831-12-21 08:10 G	23574237.55	23574237.84	23574238.16	0.0134	0.0055
Mercury	59847-11-30 16:05 G	23580061.13	23580061.17	23580061.22	0.0137	0.0129

Mercury	59848-02-26 19:26 G	23580149.24	23580149.31	23580149.40	0.0137	0.0109
Mercury	59848-05-24 23:02 G	23580237.36	23580237.46	23580237.57	0.0137	0.0089
Mercury	59848-08-21 02:24 G	23580325.49	23580325.60	23580325.72	0.0138	0.0069
Mercury	59848-11-17 05:46 G	23580413.62	23580413.74	23580413.87	0.0138	0.0049
Mercury	59849-02-13 09:22 G	23580501.76	23580501.89	23580502.02	0.0138	0.0028
Mercury	59849-05-12 12:43 G	23580589.90	23580590.03	23580590.16	0.0138	0.0008
Mercury	59849-08-08 16:05 G	23580678.04	23580678.17	23580678.30	0.0138	0.0012
Mercury	59849-11-04 19:26 G	23580766.18	23580766.31	23580766.44	0.0138	0.0032
Venus	59849-12-13 04:05 G	23580804.56	23580804.67	23580804.82	0.0138	0.0109
Mercury	59850-01-31 22:48 G	23580854.33	23580854.45	23580854.57	0.0138	0.0052
Mercury	59850-04-30 02:10 G	23580942.48	23580942.59	23580942.70	0.0138	0.0072
Mercury	59850-07-27 05:31 G	23581030.63	23581030.73	23581030.83	0.0138	0.0092
Venus	59850-07-27 12:29 G	23581030.84	23581031.02	23581031.21	0.0138	0.0076
Mercury	59850-10-23 08:38 G	23581118.79	23581118.86	23581118.94	0.0138	0.0112
Mercury	59851-01-19 12:00 G	23581206.97	23581207.00	23581207.04	0.0138	0.0132
Venus	59851-03-10 20:38 G	23581257.16	23581257.36	23581257.58	0.0138	0.0043
Venus	59851-10-23 05:17 G	23581483.50	23581483.72	23581483.93	0.0139	0.0010
Venus	59852-06-05 13:41 G	23581709.86	23581710.07	23581710.29	0.0139	0.0024
Venus	59853-01-17 22:19 G	23581936.24	23581936.43	23581936.63	0.0139	0.0058
Venus	59853-09-01 06:58 G	23582162.64	23582162.79	23582162.97	0.0139	0.0092
Venus	59854-04-15 15:50 G	23582389.09	23582389.16	23582389.27	0.0139	0.0127
Earth	59857-05-17 03:36 G	23583516.48	23583516.65	23583516.86	0.0141	0.0093
Moon	59857-05-17 05:31 G	23583516.55	23583516.73	23583516.94	0.0141	0.0086 *
Moon	59858-05-21 22:05 G	23583886.16	23583886.42	23583886.67	0.0141	0.0038
Earth	59858-05-21 23:46 G	23583886.25	23583886.49	23583886.75	0.0141	0.0031 *
Earth	59859-05-26 20:10 G	23584256.09	23584256.34	23584256.59	0.0141	0.0031
Moon	59859-05-26 20:53 G	23584256.14	23584256.37	23584256.62	0.0141	0.0037 *
Moon	59860-05-30 16:34 G	23584626.00	23584626.19	23584626.40	0.0142	0.0091
Earth	59860-05-30 16:48 G	23584626.03	23584626.20	23584626.41	0.0142	0.0095 *
Mercury	59888-06-22 22:05 G	23594876.42	23594876.42	23594876.43	0.0141	0.0141

Mercury	59888-09-19 05:17 G	23594964.62	23594964.72	23594964.84	0.0141	0.0112
Mercury	59888-12-16 12:29 G	23595052.89	23595053.02	23595053.19	0.0141	0.0083
Mercury	59889-03-14 20:10 G	23595141.17	23595141.34	23595141.52	0.0141	0.0053
Mercury	59889-06-11 03:36 G	23595229.47	23595229.65	23595229.84	0.0140	0.0023
Venus	59889-08-17 13:12 G	23595297.00	23595297.05	23595297.11	0.0140	0.0136
Mercury	59889-09-07 11:02 G	23595317.77	23595317.96	23595318.15	0.0140	0.0007
Mercury	59889-12-04 18:29 G	23595406.09	23595406.27	23595406.45	0.0140	0.0036
Mercury	59890-03-03 01:55 G	23595494.42	23595494.58	23595494.75	0.0140	0.0066
Venus	59890-03-31 22:19 G	23595523.29	23595523.43	23595523.59	0.0140	0.0101
Mercury	59890-05-30 09:22 G	23595582.76	23595582.89	23595583.04	0.0140	0.0096
Mercury	59890-08-26 16:48 G	23595671.13	23595671.20	23595671.30	0.0140	0.0126
Venus	59890-11-13 07:12 G	23595749.62	23595749.80	23595750.01	0.0140	0.0067
Venus	59891-06-27 16:19 G	23595975.97	23595976.18	23595976.40	0.0140	0.0032
Venus	59892-02-09 01:12 G	23596202.33	23596202.55	23596202.77	0.0140	0.0002
Venus	59892-09-22 09:50 G	23596428.70	23596428.91	23596429.12	0.0139	0.0036
Venus	59893-05-06 18:00 G	23596655.08	23596655.25	23596655.45	0.0139	0.0071
Venus	59893-12-19 02:38 G	23596881.47	23596881.61	23596881.76	0.0139	0.0103
Venus	59894-08-02 10:34 G	23597107.92	23597107.94	23597108.00	0.0139	0.0137
Moon	59896-11-15 08:24 G	23597943.82	23597943.85	23597943.94	0.0138	0.0134
Earth	59896-11-15 09:36 G	23597943.83	23597943.90	23597944.02	0.0138	0.0128 *
Earth	59897-11-19 22:48 G	23598313.24	23598313.45	23598313.67	0.0137	0.0071
Moon	59897-11-19 23:02 G	23598313.25	23598313.46	23598313.67	0.0137	0.0068 *
Moon	59898-11-24 10:34 G	23598682.68	23598682.94	23598683.20	0.0137	0.0015
Earth	59898-11-24 11:02 G	23598682.71	23598682.96	23598683.22	0.0137	0.0014 *
Moon	59899-11-28 22:19 G	23599052.20	23599052.43	23599052.67	0.0137	0.0039
Earth	59899-11-28 22:34 G	23599052.20	23599052.44	23599052.69	0.0137	0.0042 *
Earth	59900-12-03 09:22 G	23599421.72	23599421.89	23599422.07	0.0136	0.0097
Moon	59900-12-03 09:36 G	23599421.74	23599421.90	23599422.08	0.0136	0.0103 *
Mercury	59931-12-21 23:02 G	23610762.42	23610762.46	23610762.53	0.0137	0.0125
Mercury	59932-03-19 02:53 G	23610850.53	23610850.62	23610850.71	0.0137	0.0104

Mercury	59932-06-15 06:14 G	23610938.65	23610938.76	23610938.87	0.0137	0.0083
Mercury	59932-09-11 09:36 G	23611026.78	23611026.90	23611027.02	0.0138	0.0063
Mercury	59932-12-08 12:58 G	23611114.92	23611115.04	23611115.17	0.0138	0.0043
Mercury	59933-03-06 16:34 G	23611203.05	23611203.19	23611203.32	0.0138	0.0023
Mercury	59933-06-02 19:55 G	23611291.19	23611291.33	23611291.46	0.0138	0.0003
Venus	59933-08-13 12:43 G	23611362.94	23611363.03	23611363.13	0.0138	0.0123
Mercury	59933-08-29 23:17 G	23611379.34	23611379.47	23611379.60	0.0138	0.0017
Mercury	59933-11-26 02:38 G	23611467.48	23611467.61	23611467.74	0.0138	0.0037
Mercury	59934-02-22 06:00 G	23611555.63	23611555.75	23611555.87	0.0138	0.0058
Venus	59934-03-27 20:53 G	23611589.21	23611589.37	23611589.53	0.0138	0.0090
Mercury	59934-05-21 09:22 G	23611643.78	23611643.89	23611644.00	0.0138	0.0078
Mercury	59934-08-17 12:43 G	23611731.94	23611732.03	23611732.12	0.0138	0.0098
Venus	59934-11-09 04:48 G	23611815.51	23611815.70	23611815.91	0.0138	0.0058
Mercury	59934-11-13 15:50 G	23611820.10	23611820.16	23611820.24	0.0138	0.0118
Mercury	59935-02-09 19:12 G	23611908.29	23611908.30	23611908.32	0.0138	0.0137
Venus	59935-06-23 13:12 G	23612041.84	23612042.05	23612042.27	0.0138	0.0024
Venus	59936-02-04 21:50 G	23612268.19	23612268.41	23612268.63	0.0139	0.0010
Venus	59936-09-18 06:29 G	23612494.56	23612494.77	23612494.98	0.0139	0.0043
Venus	59937-05-02 15:07 G	23612720.96	23612721.13	23612721.32	0.0139	0.0078
Venus	59937-12-15 00:00 G	23612947.38	23612947.50	23612947.64	0.0139	0.0112
Earth	59941-05-18 14:10 G	23614197.90	23614198.09	23614198.29	0.0141	0.0088
Moon	59941-05-18 16:34 G	23614198.03	23614198.19	23614198.40	0.0141	0.0094 *
Moon	59942-05-23 07:55 G	23614567.57	23614567.83	23614568.09	0.0141	0.0020
Earth	59942-05-23 09:50 G	23614567.66	23614567.91	23614568.17	0.0141	0.0027 *
Earth	59943-05-28 06:14 G	23614937.51	23614937.76	23614938.01	0.0141	0.0036
Moon	59943-05-28 08:10 G	23614937.60	23614937.84	23614938.08	0.0141	0.0029 *
Moon	59944-06-01 01:41 G	23615307.41	23615307.57	23615307.77	0.0142	0.0102
Earth	59944-06-01 03:07 G	23615307.46	23615307.63	23615307.82	0.0142	0.0098 *
Mercury	59972-07-14 04:48 G	23625577.66	23625577.70	23625577.77	0.0141	0.0134
Mercury	59972-10-10 12:14 G	23625665.90	23625666.01	23625666.14	0.0141	0.0105

Mercury	59973-01-06 19:26 G	23625754.17	23625754.31	23625754.48	0.0141	0.0076
Mercury	59973-04-05 03:07 G	23625842.46	23625842.63	23625842.81	0.0141	0.0046
Mercury	59973-07-02 10:34 G	23625930.75	23625930.94	23625931.13	0.0140	0.0016
Mercury	59973-09-28 18:00 G	23626019.06	23626019.25	23626019.44	0.0140	0.0014
Venus	59973-11-30 05:31 G	23626081.62	23626081.73	23626081.86	0.0140	0.0117
Mercury	59973-12-26 01:26 G	23626107.38	23626107.56	23626107.74	0.0140	0.0043
Mercury	59974-03-24 08:38 G	23626195.71	23626195.86	23626196.03	0.0140	0.0074
Mercury	59974-06-20 16:19 G	23626284.06	23626284.18	23626284.31	0.0140	0.0103
Venus	59974-07-14 14:53 G	23626307.95	23626308.12	23626308.30	0.0140	0.0082
Mercury	59974-09-16 23:46 G	23626372.44	23626372.49	23626372.56	0.0140	0.0133
Venus	59975-02-25 23:46 G	23626534.30	23626534.49	23626534.71	0.0140	0.0048
Venus	59975-10-10 08:53 G	23626760.65	23626760.87	23626761.09	0.0140	0.0013
Venus	59976-05-23 17:17 G	23626987.01	23626987.22	23626987.45	0.0139	0.0022
Venus	59977-01-05 01:55 G	23627213.39	23627213.58	23627213.79	0.0139	0.0055
Venus	59977-08-19 10:19 G	23627439.78	23627439.93	23627440.11	0.0139	0.0089
Venus	59978-04-02 18:43 G	23627666.19	23627666.28	23627666.39	0.0139	0.0122
Moon	59980-11-16 18:00 G	23628625.13	23628625.25	23628625.41	0.0138	0.0117
Earth	59980-11-16 19:12 G	23628625.21	23628625.30	23628625.43	0.0138	0.0124 *
Earth	59981-11-21 08:24 G	23628994.63	23628994.85	23628995.07	0.0137	0.0067
Moon	59981-11-21 09:50 G	23628994.70	23628994.91	23628995.12	0.0137	0.0072 *
Moon	59982-11-25 19:55 G	23629364.07	23629364.33	23629364.59	0.0137	0.0010
Earth	59982-11-25 20:38 G	23629364.11	23629364.36	23629364.61	0.0137	0.0011 *
Earth	59983-11-30 07:55 G	23629733.59	23629733.83	23629734.07	0.0137	0.0045
Moon	59983-11-30 08:24 G	23629733.63	23629733.85	23629734.09	0.0137	0.0048 *
Moon	59984-12-03 17:46 G	23630103.07	23630103.24	23630103.45	0.0136	0.0096
Earth	59984-12-03 18:14 G	23630103.11	23630103.26	23630103.45	0.0136	0.0101 *
Mars	59999-05-09 00:00 G	23635372.25	23635372.50	23635372.79	0.0134	0.0079

61ST MILLENNIUM CE

This is a list of transits visible from Uranus in the 61st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	60016-01-11 06:14	G	23641463.70	23641463.76	23641463.83	0.0137	0.0119	
Mercury	60016-04-08 09:36	G	23641551.82	23641551.90	23641552.00	0.0137	0.0099	
Mercury	60016-07-05 13:12	G	23641639.94	23641640.05	23641640.16	0.0137	0.0079	
Mercury	60016-10-01 16:34	G	23641728.07	23641728.19	23641728.32	0.0138	0.0059	
Mercury	60016-12-28 20:10	G	23641816.21	23641816.34	23641816.47	0.0138	0.0038	
Mercury	60017-03-26 23:31	G	23641904.35	23641904.48	23641904.62	0.0138	0.0018	
Mercury	60017-06-23 02:53	G	23641992.49	23641992.62	23641992.76	0.0138	0.0004	
Mercury	60017-09-19 06:14	G	23642080.63	23642080.76	23642080.90	0.0138	0.0023	
Venus	60017-11-25 04:19	G	23642147.56	23642147.68	23642147.83	0.0138	0.0106	
Mercury	60017-12-16 09:36	G	23642168.78	23642168.90	23642169.03	0.0138	0.0043	
Mercury	60018-03-14 12:58	G	23642256.93	23642257.04	23642257.16	0.0138	0.0063	
Mercury	60018-06-10 16:19	G	23642345.08	23642345.18	23642345.29	0.0138	0.0082	
Venus	60018-07-09 12:43	G	23642373.85	23642374.03	23642374.22	0.0138	0.0073	
Mercury	60018-09-06 19:41	G	23642433.24	23642433.32	23642433.41	0.0138	0.0102	
Mercury	60018-12-03 23:02	G	23642521.40	23642521.46	23642521.52	0.0138	0.0122	
Venus	60019-02-20 21:07	G	23642600.18	23642600.38	23642600.59	0.0138	0.0039	
Venus	60019-10-05 05:31	G	23642826.52	23642826.73	23642826.95	0.0139	0.0006	
Venus	60020-05-18 14:10	G	23643052.88	23643053.09	23643053.30	0.0139	0.0028	
Venus	60020-12-30 22:48	G	23643279.26	23643279.45	23643279.65	0.0139	0.0062	
Venus	60021-08-14 07:26	G	23643505.67	23643505.81	23643505.98	0.0139	0.0097	
Venus	60022-03-28 16:34	G	23643732.13	23643732.19	23643732.28	0.0139	0.0131	
Earth	60025-05-18 23:17	G	23644879.28	23644879.47	23644879.69	0.0141	0.0084	

Moon	60025-05-19 02:10 G	23644879.39	23644879.59	23644879.80	0.0141	0.0078	*
Moon	60026-05-23 16:05 G	23645248.92	23645249.17	23645249.43	0.0141	0.0030	
Earth	60026-05-23 18:58 G	23645249.05	23645249.29	23645249.55	0.0141	0.0023	*
Earth	60027-05-28 15:07 G	23645618.89	23645619.13	23645619.38	0.0141	0.0039	
Moon	60027-05-28 17:17 G	23645618.99	23645619.22	23645619.46	0.0141	0.0046	*
Moon	60028-06-01 09:50 G	23645988.74	23645988.91	23645989.12	0.0142	0.0097	
Earth	60028-06-01 11:46 G	23645988.84	23645988.99	23645989.19	0.0142	0.0102	*
Mars	60041-09-09 22:34 G	23650837.18	23650837.44	23650837.73	0.0144	0.0034	
Mercury	60056-08-03 11:46 G	23656278.92	23656278.99	23656279.08	0.0141	0.0127	
Mercury	60056-10-30 18:58 G	23656367.17	23656367.29	23656367.43	0.0141	0.0098	
Mercury	60057-01-27 02:24 G	23656455.45	23656455.60	23656455.77	0.0141	0.0069	
Mercury	60057-04-25 09:50 G	23656543.74	23656543.91	23656544.09	0.0141	0.0039	
Mercury	60057-07-22 17:17 G	23656632.04	23656632.22	23656632.41	0.0140	0.0010	
Venus	60057-07-30 12:43 G	23656639.98	23656640.03	23656640.11	0.0140	0.0133	
Mercury	60057-10-19 00:43 G	23656720.35	23656720.53	23656720.72	0.0140	0.0020	
Mercury	60058-01-15 08:10 G	23656808.67	23656808.84	23656809.02	0.0140	0.0050	
Venus	60058-03-13 22:19 G	23656866.27	23656866.43	23656866.58	0.0140	0.0099	
Mercury	60058-04-13 15:22 G	23656897.00	23656897.14	23656897.31	0.0140	0.0081	
Mercury	60058-07-10 22:48 G	23656985.35	23656985.45	23656985.59	0.0140	0.0111	
Mercury	60058-10-07 06:29 G	23657073.77	23657073.77	23657073.80	0.0140	0.0140	
Venus	60058-10-26 07:12 G	23657092.61	23657092.80	23657093.00	0.0140	0.0064	
Venus	60059-06-09 16:05 G	23657318.96	23657319.17	23657319.39	0.0140	0.0030	
Venus	60060-01-22 00:58 G	23657545.33	23657545.54	23657545.76	0.0139	0.0006	
Venus	60060-09-04 09:50 G	23657771.70	23657771.91	23657772.12	0.0139	0.0039	
Venus	60061-04-18 18:14 G	23657998.08	23657998.26	23657998.45	0.0139	0.0073	
Venus	60061-12-01 02:24 G	23658224.48	23658224.60	23658224.76	0.0139	0.0107	
Moon	60064-11-17 02:38 G	23659306.52	23659306.61	23659306.73	0.0138	0.0126	
Earth	60064-11-17 05:02 G	23659306.60	23659306.71	23659306.85	0.0138	0.0119	*
Earth	60065-11-21 18:00 G	23659676.03	23659676.25	23659676.48	0.0137	0.0062	
Moon	60065-11-21 19:12 G	23659676.10	23659676.30	23659676.54	0.0137	0.0059	*

Moon	60066-11-26 04:34 G	23660045.43	23660045.69	23660045.95	0.0137	0.0009
Earth	60066-11-26 06:14 G	23660045.51	23660045.76	23660046.02	0.0137	0.0007 *
Earth	60067-11-30 17:31 G	23660415.00	23660415.23	23660415.47	0.0137	0.0049
Moon	60067-11-30 18:43 G	23660415.06	23660415.28	23660415.52	0.0137	0.0048 *
Moon	60068-12-04 02:53 G	23660784.48	23660784.62	23660784.79	0.0136	0.0109
Earth	60068-12-04 04:05 G	23660784.52	23660784.67	23660784.84	0.0136	0.0104 *
Mars	60084-01-02 11:31 G	23666291.77	23666291.98	23666292.19	0.0134	0.0105
Jupiter	60091-01-21 19:26 G	23668867.84	23668868.31	23668868.82	0.0135	0.0017
Mercury	60099-11-04 09:50 G	23672076.89	23672076.91	23672076.94	0.0137	0.0135
Mercury	60100-01-31 13:12 G	23672164.99	23672165.05	23672165.13	0.0137	0.0115
Mercury	60100-04-29 16:34 G	23672253.10	23672253.19	23672253.30	0.0137	0.0095
Mercury	60100-07-26 20:24 G	23672341.23	23672341.35	23672341.46	0.0137	0.0074
Mercury	60100-10-22 23:46 G	23672429.37	23672429.49	23672429.61	0.0137	0.0054
Mercury	60101-01-19 03:07 G	23672517.50	23672517.63	23672517.76	0.0138	0.0033
Mercury	60101-04-17 06:29 G	23672605.64	23672605.77	23672605.91	0.0138	0.0014
Mercury	60101-07-14 10:05 G	23672693.78	23672693.92	23672694.05	0.0138	0.0008
Venus	60101-07-26 12:14 G	23672705.92	23672706.01	23672706.13	0.0138	0.0121
Mercury	60101-10-10 13:26 G	23672781.93	23672782.06	23672782.19	0.0138	0.0027
Mercury	60102-01-06 16:48 G	23672870.07	23672870.20	23672870.33	0.0138	0.0047
Venus	60102-03-09 20:24 G	23672932.20	23672932.35	23672932.53	0.0138	0.0088
Mercury	60102-04-04 20:10 G	23672958.22	23672958.34	23672958.46	0.0138	0.0067
Mercury	60102-07-01 23:31 G	23673046.38	23673046.48	23673046.58	0.0138	0.0087
Mercury	60102-09-28 02:53 G	23673134.54	23673134.62	23673134.70	0.0138	0.0107
Venus	60102-10-22 04:34 G	23673158.51	23673158.69	23673158.91	0.0138	0.0056
Mercury	60102-12-25 06:00 G	23673222.71	23673222.75	23673222.81	0.0138	0.0128
Venus	60103-06-05 13:12 G	23673384.84	23673385.05	23673385.27	0.0138	0.0021
Venus	60104-01-17 21:50 G	23673611.19	23673611.41	23673611.63	0.0139	0.0013
Venus	60104-08-31 06:14 G	23673837.57	23673837.76	23673837.98	0.0139	0.0047
Venus	60105-04-14 14:53 G	23674063.96	23674064.12	23674064.32	0.0139	0.0082
Venus	60105-11-26 23:46 G	23674290.39	23674290.49	23674290.63	0.0139	0.0116

Moon	60108-05-15 09:50 G	23675190.88	23675190.91	23675190.99	0.0140	0.0138
Earth	60108-05-15 13:26 G	23675191.05	23675191.06	23675191.11	0.0140	0.0139
Earth	60109-05-20 08:10 G	23675560.65	23675560.84	23675561.07	0.0141	0.0080
Moon	60109-05-20 11:46 G	23675560.80	23675560.99	23675561.21	0.0141	0.0084 *
Moon	60110-05-25 00:58 G	23675930.29	23675930.54	23675930.81	0.0141	0.0012
Earth	60110-05-25 03:50 G	23675930.42	23675930.66	23675930.92	0.0141	0.0019 *
Earth	60111-05-30 00:00 G	23676300.27	23676300.50	23676300.75	0.0141	0.0044
Moon	60111-05-30 03:07 G	23676300.39	23676300.63	23676300.87	0.0141	0.0036 *
Moon	60112-06-02 18:14 G	23676670.12	23676670.26	23676670.45	0.0142	0.0111
Earth	60112-06-02 21:22 G	23676670.22	23676670.39	23676670.56	0.0142	0.0105 *
Jupiter	60132-09-05 12:43 G	23684069.88	23684070.03	23684070.26	0.0143	0.0134
Mercury	60140-08-24 18:00 G	23686980.18	23686980.25	23686980.36	0.0141	0.0122
Mercury	60140-11-21 01:26 G	23687068.43	23687068.56	23687068.71	0.0141	0.0093
Mercury	60141-02-17 09:07 G	23687156.71	23687156.88	23687157.04	0.0141	0.0063
Mercury	60141-05-16 16:19 G	23687245.00	23687245.18	23687245.36	0.0140	0.0034
Mercury	60141-08-12 23:46 G	23687333.31	23687333.49	23687333.68	0.0140	0.0004
Mercury	60141-11-09 07:12 G	23687421.62	23687421.80	23687421.99	0.0140	0.0026
Venus	60141-11-12 04:19 G	23687424.57	23687424.68	23687424.82	0.0140	0.0116
Mercury	60142-02-05 14:38 G	23687509.94	23687510.11	23687510.29	0.0140	0.0055
Mercury	60142-05-04 22:05 G	23687598.28	23687598.42	23687598.57	0.0140	0.0085
Venus	60142-06-26 13:55 G	23687650.90	23687651.08	23687651.25	0.0140	0.0080
Mercury	60142-08-01 05:31 G	23687686.63	23687686.73	23687686.84	0.0140	0.0115
Venus	60143-02-07 22:48 G	23687877.25	23687877.45	23687877.66	0.0140	0.0046
Venus	60143-09-22 07:55 G	23688103.61	23688103.83	23688104.04	0.0140	0.0011
Venus	60144-05-05 16:34 G	23688329.98	23688330.19	23688330.41	0.0139	0.0023
Venus	60144-12-18 01:12 G	23688556.35	23688556.55	23688556.75	0.0139	0.0057
Venus	60145-08-01 09:36 G	23688782.75	23688782.90	23688783.08	0.0139	0.0091
Venus	60146-03-15 18:14 G	23689009.17	23689009.26	23689009.36	0.0139	0.0124
Moon	60148-11-18 10:34 G	23689987.80	23689987.94	23689988.12	0.0138	0.0108
Earth	60148-11-18 13:26 G	23689987.93	23689988.06	23689988.20	0.0138	0.0115 *

Earth	60149-11-23 02:10 G	23690357.37	23690357.59	23690357.83	0.0137	0.0059
Moon	60149-11-23 04:48 G	23690357.49	23690357.70	23690357.93	0.0137	0.0065 *
Moon	60150-11-27 12:29 G	23690726.76	23690727.02	23690727.28	0.0137	0.0002
Earth	60150-11-27 14:38 G	23690726.85	23690727.11	23690727.36	0.0137	0.0003 *
Earth	60151-12-02 01:26 G	23691096.34	23691096.56	23691096.81	0.0137	0.0053
Moon	60151-12-02 03:36 G	23691096.43	23691096.65	23691096.89	0.0137	0.0054 *
Moon	60152-12-05 10:19 G	23691465.78	23691465.93	23691466.11	0.0136	0.0104
Earth	60152-12-05 12:00 G	23691465.87	23691466.00	23691466.18	0.0136	0.0108 *
Mercury	60183-11-25 16:48 G	23702778.17	23702778.20	23702778.25	0.0137	0.0130
Mercury	60184-02-21 20:24 G	23702866.27	23702866.35	23702866.43	0.0137	0.0110
Mercury	60184-05-19 23:46 G	23702954.39	23702954.49	23702954.60	0.0137	0.0089
Mercury	60184-08-16 03:07 G	23703042.52	23703042.63	23703042.76	0.0137	0.0070
Mercury	60184-11-12 06:43 G	23703130.66	23703130.78	23703130.91	0.0137	0.0049
Mercury	60185-02-08 10:05 G	23703218.79	23703218.92	23703219.06	0.0138	0.0029
Venus	60185-03-25 20:24 G	23703264.32	23703264.35	23703264.40	0.0138	0.0135
Mercury	60185-05-07 13:41 G	23703306.93	23703307.07	23703307.20	0.0138	0.0009
Mercury	60185-08-03 17:02 G	23703395.08	23703395.21	23703395.34	0.0138	0.0012
Mercury	60185-10-30 20:24 G	23703483.22	23703483.35	23703483.48	0.0138	0.0032
Venus	60185-11-07 04:19 G	23703490.55	23703490.68	23703490.84	0.0138	0.0103
Mercury	60186-01-26 23:46 G	23703571.37	23703571.49	23703571.62	0.0138	0.0052
Mercury	60186-04-25 03:07 G	23703659.52	23703659.63	23703659.75	0.0138	0.0072
Venus	60186-06-21 12:29 G	23703716.84	23703717.02	23703717.22	0.0138	0.0070
Mercury	60186-07-22 06:29 G	23703747.68	23703747.77	23703747.87	0.0138	0.0092
Mercury	60186-10-18 09:50 G	23703835.84	23703835.91	23703835.99	0.0138	0.0112
Mercury	60187-01-14 13:12 G	23703924.02	23703924.05	23703924.09	0.0138	0.0132
Venus	60187-02-02 21:07 G	23703943.17	23703943.38	23703943.59	0.0138	0.0036
Venus	60187-09-17 05:31 G	23704169.51	23704169.73	23704169.95	0.0138	0.0003
Venus	60188-04-30 13:55 G	23704395.88	23704396.08	23704396.30	0.0139	0.0032
Venus	60188-12-12 22:48 G	23704622.26	23704622.45	23704622.64	0.0139	0.0065
Venus	60189-07-27 07:26 G	23704848.67	23704848.81	23704848.97	0.0139	0.0100

Venus	60190-03-10 16:34 G	23705075.14	23705075.19	23705075.26	0.0139	0.0134
Moon	60192-05-15 18:58 G	23705872.23	23705872.29	23705872.38	0.0140	0.0134
Earth	60192-05-15 22:34 G	23705872.39	23705872.44	23705872.53	0.0140	0.0135
Earth	60193-05-20 17:31 G	23706242.02	23706242.23	23706242.45	0.0141	0.0075
Moon	60193-05-20 20:53 G	23706242.16	23706242.37	23706242.60	0.0141	0.0070 *
Moon	60194-05-25 09:22 G	23706611.64	23706611.89	23706612.15	0.0141	0.0021
Earth	60194-05-25 13:12 G	23706611.79	23706612.05	23706612.30	0.0141	0.0014 *
Earth	60195-05-30 08:53 G	23706981.64	23706981.87	23706982.12	0.0141	0.0048
Moon	60195-05-30 12:00 G	23706981.78	23706982.00	23706982.24	0.0141	0.0055 *
Moon	60196-06-03 03:07 G	23707351.45	23707351.63	23707351.81	0.0142	0.0103
Earth	60196-06-03 05:46 G	23707351.60	23707351.74	23707351.92	0.0142	0.0110 *
Mars	60209-01-29 08:53 G	23711973.71	23711973.87	23711974.07	0.0144	0.0111
Mercury	60224-09-15 00:58 G	23717681.43	23717681.54	23717681.64	0.0141	0.0116
Mercury	60224-12-12 08:10 G	23717769.70	23717769.84	23717769.99	0.0141	0.0087
Mercury	60225-03-10 15:22 G	23717857.98	23717858.14	23717858.32	0.0141	0.0058
Mercury	60225-06-06 22:48 G	23717946.27	23717946.45	23717946.64	0.0140	0.0028
Venus	60225-07-13 11:02 G	23717982.89	23717982.96	23717983.04	0.0140	0.0132
Mercury	60225-09-03 06:14 G	23718034.57	23718034.76	23718034.95	0.0140	0.0002
Mercury	60225-11-30 13:41 G	23718122.89	23718123.07	23718123.25	0.0140	0.0031
Venus	60226-02-24 20:10 G	23718209.20	23718209.34	23718209.51	0.0140	0.0097
Mercury	60226-02-26 20:53 G	23718211.21	23718211.37	23718211.55	0.0140	0.0062
Mercury	60226-05-26 04:19 G	23718299.55	23718299.68	23718299.84	0.0140	0.0091
Mercury	60226-08-22 11:46 G	23718387.92	23718387.99	23718388.10	0.0140	0.0121
Venus	60226-10-09 05:31 G	23718435.54	23718435.73	23718435.93	0.0140	0.0062
Venus	60227-05-23 14:24 G	23718661.89	23718662.10	23718662.32	0.0140	0.0028
Venus	60228-01-04 23:17 G	23718888.26	23718888.47	23718888.69	0.0139	0.0008
Venus	60228-08-18 08:10 G	23719114.64	23719114.84	23719115.06	0.0139	0.0041
Venus	60229-04-01 16:48 G	23719341.03	23719341.20	23719341.39	0.0139	0.0075
Venus	60229-11-14 00:58 G	23719567.43	23719567.54	23719567.69	0.0139	0.0109
Moon	60232-11-19 18:14 G	23720669.15	23720669.26	23720669.41	0.0138	0.0119

Earth	60232-11-19 21:50 G	23720669.27	23720669.41	23720669.56	0.0138	0.0111	*
Earth	60233-11-24 10:19 G	23721038.71	23721038.93	23721039.17	0.0137	0.0055	
Moon	60233-11-24 12:58 G	23721038.82	23721039.04	23721039.28	0.0137	0.0050	*
Moon	60234-11-28 19:41 G	23721408.06	23721408.32	23721408.58	0.0137	0.0004	
Earth	60234-11-28 22:48 G	23721408.20	23721408.45	23721408.70	0.0137	0.0001	*
Earth	60235-12-03 09:50 G	23721777.69	23721777.91	23721778.15	0.0137	0.0056	
Moon	60235-12-03 12:14 G	23721777.80	23721778.01	23721778.24	0.0137	0.0057	*
Moon	60236-12-06 18:00 G	23722147.12	23722147.25	23722147.41	0.0136	0.0114	
Earth	60236-12-06 20:24 G	23722147.22	23722147.35	23722147.51	0.0136	0.0111	*
Mars	60251-05-22 01:26 G	23727426.25	23727426.56	23727426.90	0.0134	0.0030	
Mercury	60267-12-16 23:46 G	23733479.45	23733479.49	23733479.56	0.0137	0.0125	
Mercury	60268-03-14 03:22 G	23733567.56	23733567.64	23733567.73	0.0137	0.0105	
Mercury	60268-06-10 06:58 G	23733655.68	23733655.79	23733655.90	0.0137	0.0084	
Mercury	60268-09-06 10:19 G	23733743.82	23733743.93	23733744.05	0.0137	0.0064	
Mercury	60268-12-03 13:55 G	23733831.95	23733832.08	23733832.21	0.0138	0.0044	
Mercury	60269-03-01 17:17 G	23733920.09	23733920.22	23733920.35	0.0138	0.0024	
Mercury	60269-05-28 20:38 G	23734008.23	23734008.36	23734008.50	0.0138	0.0005	
Venus	60269-07-08 12:29 G	23734048.92	23734049.02	23734049.14	0.0138	0.0117	
Mercury	60269-08-25 00:00 G	23734096.37	23734096.50	23734096.64	0.0138	0.0018	
Mercury	60269-11-21 03:36 G	23734184.52	23734184.65	23734184.78	0.0138	0.0037	
Mercury	60270-02-17 06:58 G	23734272.67	23734272.79	23734272.91	0.0138	0.0057	
Venus	60270-02-19 20:53 G	23734275.20	23734275.37	23734275.54	0.0138	0.0084	
Mercury	60270-05-16 10:19 G	23734360.82	23734360.93	23734361.04	0.0138	0.0077	
Mercury	60270-08-12 13:41 G	23734448.98	23734449.07	23734449.16	0.0138	0.0097	
Venus	60270-10-04 05:02 G	23734501.51	23734501.71	23734501.92	0.0138	0.0051	
Mercury	60270-11-08 17:02 G	23734537.14	23734537.21	23734537.28	0.0138	0.0117	
Mercury	60271-02-04 20:10 G	23734625.34	23734625.34	23734625.36	0.0138	0.0138	
Venus	60271-05-18 13:26 G	23734727.84	23734728.06	23734728.28	0.0138	0.0018	
Venus	60271-12-30 21:50 G	23734954.20	23734954.41	23734954.63	0.0139	0.0016	
Venus	60272-08-13 06:29 G	23735180.57	23735180.77	23735180.98	0.0139	0.0050	

Venus	60273-03-27 15:22 G	23735406.97	23735407.14	23735407.31	0.0139	0.0084
Venus	60273-11-09 00:14 G	23735633.40	23735633.51	23735633.62	0.0139	0.0119
Moon	60276-05-17 04:48 G	23736553.61	23736553.70	23736553.79	0.0140	0.0130
Earth	60276-05-17 07:55 G	23736553.76	23736553.83	23736553.95	0.0140	0.0130 *
Earth	60277-05-22 02:38 G	23736923.40	23736923.61	23736923.85	0.0141	0.0071
Moon	60277-05-22 06:29 G	23736923.56	23736923.77	23736924.00	0.0141	0.0074 *
Moon	60278-05-26 18:58 G	23737293.03	23737293.29	23737293.54	0.0141	0.0004
Earth	60278-05-26 22:19 G	23737293.18	23737293.43	23737293.69	0.0141	0.0010 *
Earth	60279-05-31 18:29 G	23737663.03	23737663.27	23737663.51	0.0141	0.0052
Moon	60279-05-31 22:05 G	23737663.18	23737663.42	23737663.66	0.0141	0.0044 *
Moon	60280-06-04 12:00 G	23738032.87	23738033.00	23738033.15	0.0142	0.0120
Earth	60280-06-04 15:07 G	23738033.00	23738033.13	23738033.30	0.0142	0.0114 *
Mars	60293-09-24 05:02 G	23742892.48	23742892.71	23742892.96	0.0144	0.0077
Mercury	60308-07-10 00:00 G	23748294.49	23748294.50	23748294.53	0.0141	0.0140
Mercury	60308-10-06 07:12 G	23748382.70	23748382.80	23748382.92	0.0141	0.0111
Mercury	60309-01-02 14:38 G	23748470.96	23748471.11	23748471.26	0.0141	0.0081
Mercury	60309-03-31 21:50 G	23748559.25	23748559.41	23748559.59	0.0140	0.0053
Mercury	60309-06-28 05:31 G	23748647.54	23748647.73	23748647.91	0.0140	0.0023
Mercury	60309-09-24 12:43 G	23748735.85	23748736.03	23748736.22	0.0140	0.0008
Venus	60309-10-26 02:38 G	23748767.50	23748767.61	23748767.75	0.0140	0.0114
Mercury	60309-12-21 20:10 G	23748824.16	23748824.34	23748824.52	0.0140	0.0037
Mercury	60310-03-20 03:36 G	23748912.49	23748912.65	23748912.82	0.0140	0.0066
Venus	60310-06-09 12:00 G	23748993.83	23748994.00	23748994.19	0.0140	0.0079
Mercury	60310-06-16 11:02 G	23749000.83	23749000.96	23749001.10	0.0140	0.0096
Mercury	60310-09-12 18:29 G	23749089.20	23749089.27	23749089.36	0.0140	0.0126
Venus	60311-01-21 21:07 G	23749220.18	23749220.38	23749220.59	0.0140	0.0044
Venus	60311-09-05 06:14 G	23749446.55	23749446.76	23749446.98	0.0140	0.0009
Venus	60312-04-18 15:07 G	23749672.92	23749673.13	23749673.35	0.0139	0.0025
Venus	60312-11-30 23:46 G	23749899.30	23749899.49	23749899.69	0.0139	0.0059
Venus	60313-07-15 08:24 G	23750125.69	23750125.85	23750126.01	0.0139	0.0093

Venus	60314-02-26 16:19 G	23750352.11	23750352.18	23750352.29	0.0139	0.0127
Moon	60316-11-21 01:55 G	23751350.42	23751350.58	23751350.77	0.0138	0.0101
Earth	60316-11-21 05:02 G	23751350.58	23751350.71	23751350.89	0.0138	0.0109 *
Earth	60317-11-25 18:00 G	23751720.03	23751720.25	23751720.50	0.0137	0.0053
Moon	60317-11-25 21:36 G	23751720.18	23751720.40	23751720.63	0.0137	0.0059 *
Moon	60318-11-30 03:22 G	23752089.39	23752089.64	23752089.90	0.0137	0.0008
Earth	60318-11-30 06:29 G	23752089.52	23752089.77	23752090.02	0.0137	0.0004 *
Earth	60319-12-04 17:31 G	23752459.01	23752459.23	23752459.47	0.0137	0.0059
Moon	60319-12-04 20:38 G	23752459.14	23752459.36	23752459.59	0.0137	0.0058 *
Moon	60320-12-08 01:12 G	23752828.42	23752828.55	23752828.71	0.0136	0.0111
Earth	60320-12-08 04:19 G	23752828.55	23752828.68	23752828.83	0.0136	0.0113 *
Mercury	60352-01-07 06:58 G	23764180.73	23764180.79	23764180.86	0.0137	0.0120
Mercury	60352-04-04 10:19 G	23764268.85	23764268.93	23764269.03	0.0137	0.0101
Mercury	60352-07-01 13:55 G	23764356.98	23764357.08	23764357.20	0.0137	0.0080
Mercury	60352-09-27 17:31 G	23764445.11	23764445.23	23764445.35	0.0138	0.0059
Mercury	60352-12-24 20:53 G	23764533.24	23764533.37	23764533.50	0.0138	0.0039
Venus	60353-03-08 20:24 G	23764607.30	23764607.35	23764607.43	0.0138	0.0132
Mercury	60353-03-23 00:29 G	23764621.38	23764621.52	23764621.65	0.0138	0.0019
Mercury	60353-06-19 03:50 G	23764709.52	23764709.66	23764709.79	0.0138	0.0002
Mercury	60353-09-15 07:12 G	23764797.67	23764797.80	23764797.93	0.0138	0.0022
Venus	60353-10-21 04:34 G	23764833.55	23764833.69	23764833.85	0.0138	0.0099
Mercury	60353-12-12 10:34 G	23764885.82	23764885.94	23764886.07	0.0138	0.0042
Mercury	60354-03-10 13:55 G	23764973.97	23764974.08	23764974.20	0.0138	0.0062
Venus	60354-06-04 12:58 G	23765059.85	23765060.04	23765060.23	0.0138	0.0066
Mercury	60354-06-06 17:17 G	23765062.12	23765062.22	23765062.33	0.0138	0.0082
Mercury	60354-09-02 20:38 G	23765150.28	23765150.36	23765150.46	0.0138	0.0102
Mercury	60354-11-30 00:00 G	23765238.45	23765238.50	23765238.57	0.0138	0.0122
Venus	60355-01-16 21:07 G	23765286.18	23765286.38	23765286.60	0.0138	0.0033
Venus	60355-08-31 05:46 G	23765512.52	23765512.74	23765512.96	0.0139	0.0002
Venus	60356-04-13 14:10 G	23765738.89	23765739.09	23765739.31	0.0139	0.0036

Venus	60356-11-25 22:34 G	23765965.27	23765965.44	23765965.64	0.0139	0.0070
Venus	60357-07-10 07:26 G	23766191.68	23766191.81	23766191.97	0.0139	0.0104
Venus	60358-02-21 16:19 G	23766418.17	23766418.18	23766418.23	0.0139	0.0139
Moon	60360-05-18 13:55 G	23767234.99	23767235.08	23767235.22	0.0140	0.0125
Earth	60360-05-18 17:17 G	23767235.14	23767235.22	23767235.35	0.0140	0.0127 *
Earth	60361-05-23 12:00 G	23767604.79	23767605.00	23767605.24	0.0141	0.0067
Moon	60361-05-23 15:50 G	23767604.93	23767605.16	23767605.39	0.0141	0.0063 *
Moon	60362-05-28 04:05 G	23767974.42	23767974.67	23767974.93	0.0141	0.0012
Earth	60362-05-28 07:55 G	23767974.57	23767974.83	23767975.08	0.0141	0.0006 *
Earth	60363-06-02 03:50 G	23768344.43	23768344.66	23768344.90	0.0141	0.0056
Moon	60363-06-02 07:12 G	23768344.59	23768344.80	23768345.04	0.0141	0.0063 *
Moon	60364-06-05 20:53 G	23768714.23	23768714.37	23768714.55	0.0142	0.0111
Earth	60364-06-06 00:43 G	23768714.41	23768714.53	23768714.69	0.0142	0.0118 *
Mercury	60392-07-30 06:58 G	23778995.74	23778995.79	23778995.86	0.0141	0.0133
Mercury	60392-10-26 14:10 G	23779083.98	23779084.09	23779084.22	0.0141	0.0104
Mercury	60393-01-22 21:36 G	23779172.25	23779172.40	23779172.56	0.0141	0.0075
Mercury	60393-04-21 04:48 G	23779260.53	23779260.70	23779260.88	0.0140	0.0046
Venus	60393-06-25 10:05 G	23779325.84	23779325.92	23779326.01	0.0140	0.0129
Mercury	60393-07-18 12:14 G	23779348.83	23779349.01	23779349.20	0.0140	0.0016
Mercury	60393-10-14 19:41 G	23779437.13	23779437.32	23779437.51	0.0140	0.0014
Mercury	60394-01-11 03:07 G	23779525.45	23779525.63	23779525.81	0.0140	0.0043
Venus	60394-02-06 19:12 G	23779552.15	23779552.30	23779552.47	0.0140	0.0094
Mercury	60394-04-09 10:19 G	23779613.78	23779613.93	23779614.10	0.0140	0.0073
Mercury	60394-07-06 17:46 G	23779702.13	23779702.24	23779702.38	0.0140	0.0103
Venus	60394-09-21 04:34 G	23779778.50	23779778.69	23779778.89	0.0140	0.0059
Mercury	60394-10-03 01:12 G	23779790.51	23779790.55	23779790.62	0.0140	0.0133
Venus	60395-05-05 13:26 G	23780004.86	23780005.06	23780005.28	0.0140	0.0025
Venus	60395-12-17 22:34 G	23780231.22	23780231.44	23780231.66	0.0139	0.0010
Venus	60396-07-31 07:26 G	23780457.60	23780457.81	23780458.01	0.0139	0.0044
Venus	60397-03-14 15:50 G	23780683.99	23780684.16	23780684.35	0.0139	0.0079

Venus	60397-10-27 00:14 G	23780910.39	23780910.51	23780910.64	0.0139	0.0112
Moon	60400-11-21 10:05 G	23782031.80	23782031.92	23782032.09	0.0138	0.0113
Earth	60400-11-21 14:10 G	23782031.94	23782032.09	23782032.26	0.0138	0.0105 *
Earth	60401-11-26 02:53 G	23782401.39	23782401.62	23782401.86	0.0137	0.0049
Moon	60401-11-26 06:14 G	23782401.53	23782401.76	23782402.00	0.0137	0.0043 *
Moon	60402-11-30 11:31 G	23782770.72	23782770.98	23782771.23	0.0137	0.0002
Earth	60402-11-30 15:07 G	23782770.88	23782771.13	23782771.38	0.0137	0.0007 *
Earth	60403-12-05 02:10 G	23783140.37	23783140.59	23783140.83	0.0137	0.0062
Moon	60403-12-05 05:17 G	23783140.51	23783140.72	23783140.95	0.0137	0.0064 *
Moon	60404-12-08 09:36 G	23783509.79	23783509.90	23783510.04	0.0136	0.0118
Earth	60404-12-08 12:58 G	23783509.92	23783510.04	23783510.18	0.0136	0.0116 *
Mercury	60435-10-31 10:19 G	23794793.93	23794793.93	23794793.96	0.0137	0.0137
Mercury	60436-01-27 14:10 G	23794882.02	23794882.09	23794882.16	0.0137	0.0115
Mercury	60436-04-24 17:31 G	23794970.14	23794970.23	23794970.33	0.0137	0.0095
Mercury	60436-07-21 21:07 G	23795058.27	23795058.38	23795058.49	0.0137	0.0075
Mercury	60436-10-18 00:29 G	23795146.40	23795146.52	23795146.65	0.0138	0.0055
Mercury	60437-01-14 04:05 G	23795234.54	23795234.67	23795234.80	0.0138	0.0034
Mercury	60437-04-12 07:26 G	23795322.68	23795322.81	23795322.95	0.0138	0.0014
Venus	60437-06-20 12:29 G	23795391.91	23795392.02	23795392.15	0.0138	0.0113
Mercury	60437-07-09 10:48 G	23795410.82	23795410.95	23795411.09	0.0138	0.0008
Mercury	60437-10-05 14:10 G	23795498.96	23795499.09	23795499.23	0.0138	0.0027
Mercury	60438-01-01 17:46 G	23795587.11	23795587.24	23795587.37	0.0138	0.0047
Venus	60438-02-01 20:38 G	23795618.19	23795618.36	23795618.55	0.0138	0.0080
Mercury	60438-03-30 21:07 G	23795675.26	23795675.38	23795675.50	0.0138	0.0067
Mercury	60438-06-27 00:14 G	23795763.42	23795763.51	23795763.62	0.0138	0.0088
Venus	60438-09-16 04:48 G	23795844.51	23795844.70	23795844.92	0.0138	0.0048
Mercury	60438-09-23 03:36 G	23795851.58	23795851.65	23795851.74	0.0138	0.0108
Mercury	60438-12-20 06:58 G	23795939.75	23795939.79	23795939.85	0.0138	0.0127
Venus	60439-04-30 13:26 G	23796070.84	23796071.06	23796071.28	0.0138	0.0013
Venus	60439-12-12 21:50 G	23796297.19	23796297.41	23796297.62	0.0139	0.0021

Venus	60440-07-26 06:14 G	23796523.57	23796523.76	23796523.97	0.0139	0.0055
Venus	60441-03-09 14:53 G	23796749.97	23796750.12	23796750.30	0.0139	0.0089
Venus	60441-10-21 23:46 G	23796976.40	23796976.49	23796976.60	0.0139	0.0123
Moon	60444-05-18 23:02 G	23797916.37	23797916.46	23797916.60	0.0140	0.0125
Earth	60444-05-19 02:38 G	23797916.50	23797916.61	23797916.74	0.0140	0.0122 *
Earth	60445-05-23 21:22 G	23798286.17	23798286.39	23798286.63	0.0141	0.0063
Moon	60445-05-24 00:43 G	23798286.31	23798286.53	23798286.77	0.0141	0.0065 *
Moon	60446-05-28 13:41 G	23798655.82	23798656.07	23798656.32	0.0141	0.0003
Earth	60446-05-28 17:02 G	23798655.96	23798656.21	23798656.47	0.0141	0.0003 *
Earth	60447-06-02 13:12 G	23799025.83	23799026.05	23799026.29	0.0141	0.0059
Moon	60447-06-02 17:02 G	23799025.98	23799026.21	23799026.46	0.0141	0.0051 *
Moon	60448-06-06 06:58 G	23799395.69	23799395.79	23799395.91	0.0142	0.0128
Earth	60448-06-06 10:19 G	23799395.81	23799395.93	23799396.08	0.0142	0.0121 *
Mars	60461-02-11 18:14 G	23804029.01	23804029.26	23804029.53	0.0144	0.0060
Mercury	60476-08-19 13:55 G	23809697.01	23809697.08	23809697.17	0.0141	0.0126
Mercury	60476-11-15 21:07 G	23809785.26	23809785.38	23809785.53	0.0141	0.0097
Mercury	60477-02-12 04:34 G	23809873.54	23809873.69	23809873.86	0.0140	0.0067
Mercury	60477-05-11 12:00 G	23809961.82	23809962.00	23809962.18	0.0140	0.0038
Mercury	60477-08-07 19:26 G	23810050.12	23810050.31	23810050.49	0.0140	0.0009
Venus	60477-10-07 02:53 G	23810110.50	23810110.62	23810110.77	0.0140	0.0110
Mercury	60477-11-04 02:38 G	23810138.43	23810138.61	23810138.80	0.0140	0.0021
Mercury	60478-01-31 10:05 G	23810226.75	23810226.92	23810227.10	0.0140	0.0051
Mercury	60478-04-29 17:31 G	23810315.08	23810315.23	23810315.39	0.0140	0.0080
Venus	60478-05-21 12:14 G	23810336.83	23810337.01	23810337.20	0.0140	0.0074
Mercury	60478-07-27 00:58 G	23810403.43	23810403.54	23810403.66	0.0140	0.0110
Mercury	60478-10-23 08:38 G	23810491.86	23810491.86	23810491.86	0.0140	0.0140
Venus	60479-01-02 21:07 G	23810563.18	23810563.38	23810563.60	0.0140	0.0040
Venus	60479-08-17 06:29 G	23810789.55	23810789.77	23810789.99	0.0140	0.0005
Venus	60480-03-30 15:07 G	23811015.92	23811016.13	23811016.35	0.0139	0.0030
Venus	60480-11-11 23:31 G	23811242.30	23811242.48	23811242.68	0.0139	0.0064

Venus	60481-06-26 07:41 G	23811468.69	23811468.82	23811469.00	0.0139	0.0098
Venus	60482-02-07 16:19 G	23811695.12	23811695.18	23811695.26	0.0139	0.0131
Moon	60484-11-21 19:26 G	23812713.14	23812713.31	23812713.51	0.0138	0.0095
Earth	60484-11-21 23:17 G	23812713.31	23812713.47	23812713.65	0.0138	0.0102 *
Earth	60485-11-26 12:00 G	23813082.76	23813083.00	23813083.24	0.0137	0.0046
Moon	60485-11-26 15:36 G	23813082.92	23813083.15	23813083.39	0.0137	0.0054 *
Moon	60486-11-30 20:24 G	23813452.11	23813452.35	23813452.61	0.0137	0.0015
Earth	60486-12-01 00:00 G	23813452.25	23813452.50	23813452.75	0.0137	0.0010 *
Earth	60487-12-05 10:48 G	23813821.74	23813821.95	23813822.19	0.0137	0.0065
Moon	60487-12-05 14:38 G	23813821.90	23813822.11	23813822.34	0.0137	0.0062 *
Moon	60488-12-08 18:14 G	23814191.15	23814191.26	23814191.40	0.0136	0.0119
Earth	60488-12-08 21:36 G	23814191.30	23814191.40	23814191.54	0.0136	0.0119 *
Mars	60503-06-03 21:36 G	23819480.07	23819480.40	23819480.74	0.0134	0.0013
Mercury	60519-11-21 17:31 G	23825495.20	23825495.23	23825495.27	0.0137	0.0132
Mercury	60520-02-17 20:53 G	23825583.30	23825583.37	23825583.46	0.0137	0.0112
Mercury	60520-05-16 00:29 G	23825671.42	23825671.52	23825671.63	0.0137	0.0091
Mercury	60520-08-12 04:05 G	23825759.55	23825759.67	23825759.79	0.0138	0.0070
Mercury	60520-11-08 07:26 G	23825847.69	23825847.81	23825847.94	0.0138	0.0050
Mercury	60521-02-04 11:02 G	23825935.83	23825935.96	23825936.09	0.0138	0.0030
Venus	60521-02-18 20:24 G	23825950.27	23825950.35	23825950.42	0.0138	0.0128
Mercury	60521-05-03 14:24 G	23826023.97	23826024.10	23826024.24	0.0138	0.0010
Mercury	60521-07-30 17:46 G	23826112.11	23826112.24	23826112.38	0.0138	0.0012
Venus	60521-10-03 04:19 G	23826176.53	23826176.68	23826176.84	0.0138	0.0095
Mercury	60521-10-26 21:22 G	23826200.26	23826200.39	23826200.52	0.0138	0.0031
Mercury	60522-01-23 00:43 G	23826288.40	23826288.53	23826288.65	0.0138	0.0051
Mercury	60522-04-21 04:05 G	23826376.56	23826376.67	23826376.79	0.0138	0.0071
Venus	60522-05-17 12:14 G	23826402.82	23826403.01	23826403.21	0.0138	0.0062
Mercury	60522-07-18 07:26 G	23826464.71	23826464.81	23826464.91	0.0138	0.0091
Mercury	60522-10-14 10:48 G	23826552.87	23826552.95	23826553.03	0.0138	0.0111
Venus	60522-12-29 20:38 G	23826629.15	23826629.36	23826629.58	0.0138	0.0029

Mercury	60523-01-10 13:55 G	23826641.05	23826641.08	23826641.13	0.0138	0.0132
Venus	60523-08-13 05:02 G	23826855.50	23826855.71	23826855.93	0.0139	0.0006
Venus	60524-03-26 13:41 G	23827081.86	23827082.07	23827082.28	0.0139	0.0039
Venus	60524-11-07 22:19 G	23827308.25	23827308.43	23827308.61	0.0139	0.0074
Venus	60525-06-22 06:58 G	23827534.66	23827534.79	23827534.93	0.0139	0.0108
Moon	60528-05-20 08:53 G	23828597.75	23828597.87	23828598.02	0.0140	0.0116
Earth	60528-05-20 11:02 G	23828597.85	23828597.96	23828598.12	0.0140	0.0120 *
Earth	60529-05-25 06:00 G	23828967.53	23828967.75	23828967.99	0.0141	0.0060
Moon	60529-05-25 09:22 G	23828967.66	23828967.89	23828968.13	0.0141	0.0057 *
Moon	60530-05-29 22:48 G	23829337.20	23829337.45	23829337.70	0.0141	0.0004
Earth	60530-05-30 01:55 G	23829337.33	23829337.58	23829337.84	0.0141	0.0002 *
Earth	60531-06-03 22:05 G	23829707.20	23829707.42	23829707.66	0.0141	0.0063
Moon	60531-06-04 01:41 G	23829707.35	23829707.57	23829707.80	0.0141	0.0069 *
Moon	60532-06-07 15:22 G	23830077.01	23830077.14	23830077.30	0.0142	0.0117
Earth	60532-06-07 19:26 G	23830077.19	23830077.31	23830077.44	0.0142	0.0124 *
Mars	60545-10-08 13:41 G	23834947.95	23834948.07	23834948.22	0.0144	0.0127
Mercury	60560-09-09 21:07 G	23840398.29	23840398.38	23840398.49	0.0141	0.0118
Mercury	60560-12-07 04:19 G	23840486.55	23840486.68	23840486.83	0.0140	0.0089
Mercury	60561-03-05 11:46 G	23840574.82	23840574.99	23840575.16	0.0140	0.0060
Mercury	60561-06-01 18:58 G	23840663.11	23840663.29	23840663.48	0.0140	0.0031
Venus	60561-06-07 10:19 G	23840668.85	23840668.93	23840669.04	0.0140	0.0126
Mercury	60561-08-29 02:24 G	23840751.42	23840751.60	23840751.79	0.0140	0.0002
Mercury	60561-11-25 09:50 G	23840839.73	23840839.91	23840840.09	0.0140	0.0029
Venus	60562-01-19 19:55 G	23840895.16	23840895.33	23840895.49	0.0140	0.0090
Mercury	60562-02-21 17:02 G	23840928.05	23840928.21	23840928.39	0.0140	0.0058
Mercury	60562-05-21 00:29 G	23841016.38	23841016.52	23841016.67	0.0140	0.0088
Mercury	60562-08-17 07:41 G	23841104.74	23841104.82	23841104.94	0.0140	0.0118
Venus	60562-09-03 04:48 G	23841121.52	23841121.70	23841121.91	0.0140	0.0056
Venus	60563-04-17 14:10 G	23841347.87	23841348.09	23841348.31	0.0140	0.0021
Venus	60563-11-29 22:48 G	23841574.24	23841574.45	23841574.67	0.0139	0.0015

Venus	60564-07-13 07:41 G	23841800.62	23841800.82	23841801.02	0.0139	0.0048
Venus	60565-02-24 16:05 G	23842027.00	23842027.17	23842027.35	0.0139	0.0082
Venus	60565-10-09 00:29 G	23842253.41	23842253.52	23842253.64	0.0139	0.0116
Moon	60568-11-23 05:02 G	23843394.57	23843394.71	23843394.89	0.0138	0.0105
Earth	60568-11-23 08:38 G	23843394.70	23843394.86	23843395.05	0.0138	0.0098 *
Earth	60569-11-27 21:22 G	23843764.16	23843764.39	23843764.64	0.0137	0.0042
Moon	60569-11-28 00:43 G	23843764.30	23843764.53	23843764.79	0.0137	0.0036 *
Moon	60570-12-02 05:46 G	23844133.49	23844133.74	23844133.99	0.0137	0.0007
Earth	60570-12-02 09:22 G	23844133.65	23844133.89	23844134.15	0.0137	0.0014 *
Earth	60571-12-06 20:38 G	23844503.15	23844503.36	23844503.59	0.0137	0.0068
Moon	60571-12-07 00:00 G	23844503.30	23844503.50	23844503.73	0.0137	0.0072 *
Moon	60572-12-10 03:36 G	23844872.56	23844872.65	23844872.78	0.0136	0.0123
Earth	60572-12-10 07:41 G	23844872.71	23844872.82	23844872.94	0.0136	0.0122 *
Mercury	60603-12-13 00:14 G	23856196.47	23856196.51	23856196.57	0.0137	0.0128
Mercury	60604-03-10 04:05 G	23856284.58	23856284.67	23856284.75	0.0137	0.0107
Mercury	60604-06-06 07:26 G	23856372.71	23856372.81	23856372.92	0.0137	0.0086
Mercury	60604-09-02 11:02 G	23856460.84	23856460.96	23856461.08	0.0138	0.0066
Mercury	60604-11-29 14:24 G	23856548.98	23856549.10	23856549.23	0.0138	0.0046
Mercury	60605-02-25 18:00 G	23856637.11	23856637.25	23856637.38	0.0138	0.0026
Mercury	60605-05-24 21:22 G	23856725.26	23856725.39	23856725.53	0.0138	0.0005
Venus	60605-06-03 11:31 G	23856734.86	23856734.98	23856735.12	0.0138	0.0111
Mercury	60605-08-21 00:43 G	23856813.40	23856813.53	23856813.67	0.0138	0.0015
Mercury	60605-11-17 04:19 G	23856901.55	23856901.68	23856901.81	0.0138	0.0035
Venus	60606-01-15 19:26 G	23856961.15	23856961.31	23856961.50	0.0138	0.0078
Mercury	60606-02-13 07:41 G	23856989.70	23856989.82	23856989.94	0.0138	0.0055
Mercury	60606-05-12 11:02 G	23857077.85	23857077.96	23857078.07	0.0138	0.0075
Mercury	60606-08-08 14:24 G	23857166.00	23857166.10	23857166.20	0.0138	0.0095
Venus	60606-08-30 03:50 G	23857187.46	23857187.66	23857187.87	0.0138	0.0045
Mercury	60606-11-04 17:46 G	23857254.17	23857254.24	23857254.31	0.0138	0.0115
Mercury	60607-01-31 20:53 G	23857342.36	23857342.37	23857342.41	0.0138	0.0136

Venus	60607-04-13 12:14 G	23857413.79	23857414.01	23857414.23	0.0138	0.0011
Venus	60607-11-25 20:24 G	23857640.15	23857640.35	23857640.58	0.0139	0.0024
Venus	60608-07-09 05:17 G	23857866.52	23857866.72	23857866.92	0.0139	0.0057
Venus	60609-02-20 13:41 G	23858092.92	23858093.07	23858093.25	0.0139	0.0092
Venus	60609-10-04 22:19 G	23858319.36	23858319.43	23858319.54	0.0139	0.0127
Moon	60612-05-21 17:02 G	23859279.10	23859279.21	23859279.36	0.0140	0.0119
Earth	60612-05-21 19:55 G	23859279.18	23859279.33	23859279.47	0.0140	0.0115 *
Earth	60613-05-26 14:24 G	23859648.88	23859649.10	23859649.34	0.0141	0.0056
Moon	60613-05-26 16:48 G	23859648.97	23859649.20	23859649.45	0.0141	0.0056 *
Moon	60614-05-31 07:41 G	23860018.57	23860018.82	23860019.07	0.0141	0.0009
Earth	60614-05-31 10:19 G	23860018.68	23860018.93	23860019.19	0.0141	0.0006 *
Earth	60615-06-05 06:29 G	23860388.56	23860388.77	23860389.01	0.0141	0.0067
Moon	60615-06-05 10:05 G	23860388.69	23860388.92	23860389.16	0.0141	0.0058 *
Moon	60616-06-09 00:29 G	23860758.46	23860758.52	23860758.61	0.0142	0.0135
Earth	60616-06-09 04:05 G	23860758.56	23860758.67	23860758.78	0.0142	0.0127 *
Mercury	60644-07-04 20:38 G	23871011.36	23871011.36	23871011.39	0.0141	0.0140
Mercury	60644-10-01 04:05 G	23871099.56	23871099.67	23871099.78	0.0141	0.0111
Mercury	60644-12-28 11:17 G	23871187.82	23871187.97	23871188.12	0.0140	0.0082
Mercury	60645-03-26 18:29 G	23871276.11	23871276.27	23871276.45	0.0140	0.0053
Mercury	60645-06-23 01:55 G	23871364.40	23871364.58	23871364.76	0.0140	0.0023
Mercury	60645-09-19 09:22 G	23871452.70	23871452.89	23871453.07	0.0140	0.0006
Venus	60645-09-20 03:07 G	23871453.49	23871453.63	23871453.77	0.0140	0.0107
Mercury	60645-12-16 16:34 G	23871541.01	23871541.19	23871541.37	0.0140	0.0036
Mercury	60646-03-15 00:00 G	23871629.34	23871629.50	23871629.67	0.0140	0.0065
Venus	60646-05-04 12:00 G	23871679.83	23871680.00	23871680.20	0.0140	0.0072
Mercury	60646-06-11 07:12 G	23871717.67	23871717.80	23871717.95	0.0140	0.0095
Mercury	60646-09-07 14:53 G	23871806.04	23871806.12	23871806.21	0.0140	0.0124
Venus	60646-12-16 21:07 G	23871906.18	23871906.38	23871906.60	0.0140	0.0037
Venus	60647-07-31 06:14 G	23872132.55	23872132.76	23872132.98	0.0140	0.0004
Venus	60648-03-13 15:07 G	23872358.92	23872359.13	23872359.34	0.0139	0.0033

Venus	60648-10-25 23:17 G	23872585.29	23872585.47	23872585.68	0.0139	0.0067
Venus	60649-06-09 07:41 G	23872811.68	23872811.82	23872811.98	0.0139	0.0101
Venus	60650-01-21 16:05 G	23873038.12	23873038.17	23873038.23	0.0139	0.0134
Moon	60652-11-24 14:24 G	23874075.92	23874076.10	23874076.30	0.0138	0.0087
Earth	60652-11-24 17:31 G	23874076.06	23874076.23	23874076.43	0.0138	0.0094 *
Earth	60653-11-29 06:29 G	23874445.53	23874445.77	23874446.01	0.0137	0.0038
Moon	60653-11-29 09:50 G	23874445.67	23874445.91	23874446.15	0.0137	0.0045 *
Moon	60654-12-03 15:22 G	23874814.89	23874815.14	23874815.39	0.0137	0.0023
Earth	60654-12-03 18:43 G	23874815.03	23874815.28	23874815.53	0.0137	0.0017 *
Earth	60655-12-08 05:46 G	23875184.54	23875184.74	23875184.96	0.0137	0.0072
Moon	60655-12-08 09:22 G	23875184.68	23875184.89	23875185.12	0.0137	0.0069 *
Moon	60656-12-11 12:58 G	23875553.98	23875554.04	23875554.16	0.0136	0.0128
Earth	60656-12-11 16:34 G	23875554.11	23875554.19	23875554.30	0.0136	0.0126 *
Mars	60670-10-20 11:02 G	23880614.86	23880614.96	23880615.11	0.0134	0.0124
Mercury	60688-01-02 07:12 G	23886897.75	23886897.80	23886897.87	0.0137	0.0123
Mercury	60688-03-30 10:48 G	23886985.86	23886985.95	23886986.04	0.0137	0.0103
Mercury	60688-06-26 14:10 G	23887073.99	23887074.09	23887074.21	0.0137	0.0083
Mercury	60688-09-22 17:46 G	23887162.12	23887162.24	23887162.37	0.0138	0.0062
Mercury	60688-12-19 21:22 G	23887250.26	23887250.39	23887250.52	0.0138	0.0042
Venus	60689-01-31 18:43 G	23887293.21	23887293.28	23887293.38	0.0138	0.0127
Mercury	60689-03-18 00:43 G	23887338.40	23887338.53	23887338.67	0.0138	0.0022
Mercury	60689-06-14 04:19 G	23887426.54	23887426.68	23887426.81	0.0138	0.0004
Mercury	60689-09-10 07:41 G	23887514.68	23887514.82	23887514.95	0.0138	0.0019
Venus	60689-09-15 02:38 G	23887519.47	23887519.61	23887519.78	0.0138	0.0094
Mercury	60689-12-07 11:02 G	23887602.83	23887602.96	23887603.09	0.0138	0.0039
Mercury	60690-03-05 14:24 G	23887690.98	23887691.10	23887691.23	0.0138	0.0059
Venus	60690-04-29 11:02 G	23887745.76	23887745.96	23887746.16	0.0138	0.0060
Mercury	60690-06-01 17:46 G	23887779.14	23887779.24	23887779.35	0.0138	0.0080
Mercury	60690-08-28 21:07 G	23887867.29	23887867.38	23887867.48	0.0138	0.0100
Mercury	60690-11-25 00:29 G	23887955.46	23887955.52	23887955.59	0.0138	0.0120

Venus	60690-12-11 19:12 G	23887972.09	23887972.30	23887972.51	0.0138	0.0027
Venus	60691-07-26 03:36 G	23888198.43	23888198.65	23888198.87	0.0139	0.0007
Venus	60692-03-08 12:14 G	23888424.80	23888425.01	23888425.22	0.0139	0.0041
Venus	60692-10-20 20:38 G	23888651.18	23888651.36	23888651.55	0.0139	0.0075
Venus	60693-06-04 05:31 G	23888877.60	23888877.73	23888877.86	0.0139	0.0110
Moon	60696-05-22 03:07 G	23889960.47	23889960.63	23889960.79	0.0140	0.0106
Earth	60696-05-22 04:05 G	23889960.52	23889960.67	23889960.83	0.0140	0.0111 *
Earth	60697-05-26 22:48 G	23890330.23	23890330.45	23890330.70	0.0141	0.0052
Moon	60697-05-27 01:12 G	23890330.31	23890330.55	23890330.80	0.0141	0.0051 *
Moon	60698-05-31 16:34 G	23890699.95	23890700.19	23890700.44	0.0141	0.0006
Earth	60698-05-31 18:58 G	23890700.04	23890700.29	23890700.55	0.0141	0.0009 *
Earth	60699-06-05 15:22 G	23891069.92	23891070.14	23891070.36	0.0141	0.0070
Moon	60699-06-05 17:46 G	23891070.03	23891070.24	23891070.47	0.0141	0.0076 *
Moon	60700-06-10 08:38 G	23891439.76	23891439.86	23891440.01	0.0142	0.0124
Earth	60700-06-10 12:14 G	23891439.93	23891440.01	23891440.12	0.0142	0.0131 *
Mars	60713-02-26 23:46 G	23896084.20	23896084.49	23896084.77	0.0144	0.0017
Mercury	60728-07-26 03:22 G	23901712.60	23901712.64	23901712.71	0.0141	0.0134
Mercury	60728-10-22 10:34 G	23901800.83	23901800.94	23901801.07	0.0141	0.0105
Mercury	60729-01-18 18:00 G	23901889.10	23901889.25	23901889.41	0.0140	0.0076
Mercury	60729-04-17 01:12 G	23901977.38	23901977.55	23901977.73	0.0140	0.0047
Venus	60729-05-21 09:36 G	23902011.81	23902011.90	23902012.01	0.0140	0.0123
Mercury	60729-07-14 08:38 G	23902065.67	23902065.86	23902066.04	0.0140	0.0017
Mercury	60729-10-10 15:50 G	23902153.98	23902154.16	23902154.35	0.0140	0.0012
Venus	60730-01-02 18:58 G	23902238.13	23902238.29	23902238.46	0.0140	0.0088
Mercury	60730-01-06 23:17 G	23902242.29	23902242.47	23902242.65	0.0140	0.0042
Mercury	60730-04-05 06:29 G	23902330.62	23902330.77	23902330.94	0.0140	0.0071
Mercury	60730-07-02 13:55 G	23902418.96	23902419.08	23902419.22	0.0140	0.0101
Venus	60730-08-17 04:19 G	23902464.48	23902464.68	23902464.88	0.0140	0.0053
Mercury	60730-09-28 21:36 G	23902507.33	23902507.40	23902507.46	0.0140	0.0130
Venus	60731-03-31 13:12 G	23902690.84	23902691.05	23902691.27	0.0140	0.0019

Venus	60731-11-12 22:05 G	23902917.20	23902917.42	23902917.64	0.0139	0.0016
Venus	60732-06-26 06:43 G	23903143.58	23903143.78	23903143.98	0.0139	0.0051
Venus	60733-02-07 14:53 G	23903369.96	23903370.12	23903370.30	0.0139	0.0085
Venus	60733-09-21 23:31 G	23903596.37	23903596.48	23903596.60	0.0139	0.0118
Moon	60736-11-25 23:46 G	23904757.32	23904757.49	23904757.67	0.0138	0.0095
Earth	60736-11-26 02:24 G	23904757.41	23904757.60	23904757.80	0.0138	0.0089 *
Earth	60737-11-30 15:22 G	23905126.89	23905127.14	23905127.38	0.0137	0.0034
Moon	60737-11-30 18:14 G	23905127.01	23905127.26	23905127.52	0.0137	0.0027 *
Moon	60738-12-05 00:14 G	23905496.26	23905496.51	23905496.76	0.0137	0.0014
Earth	60738-12-05 03:22 G	23905496.39	23905496.64	23905496.89	0.0137	0.0022 *
Earth	60739-12-09 14:38 G	23905865.91	23905866.11	23905866.33	0.0137	0.0076
Moon	60739-12-09 17:46 G	23905866.05	23905866.24	23905866.46	0.0137	0.0081 *
Moon	60740-12-12 22:05 G	23906235.36	23906235.42	23906235.52	0.0136	0.0129
Earth	60740-12-13 01:41 G	23906235.51	23906235.57	23906235.66	0.0136	0.0129 *
Mars	60755-06-16 21:36 G	23911534.11	23911534.40	23911534.72	0.0134	0.0060
Mercury	60772-01-23 14:10 G	23917599.03	23917599.09	23917599.16	0.0137	0.0119
Mercury	60772-04-20 17:46 G	23917687.15	23917687.24	23917687.34	0.0137	0.0098
Mercury	60772-07-17 21:22 G	23917775.28	23917775.39	23917775.50	0.0137	0.0078
Mercury	60772-10-14 00:43 G	23917863.41	23917863.53	23917863.66	0.0138	0.0058
Mercury	60773-01-10 04:05 G	23917951.55	23917951.67	23917951.81	0.0138	0.0038
Mercury	60773-04-08 07:41 G	23918039.69	23918039.82	23918039.96	0.0138	0.0017
Venus	60773-05-16 10:19 G	23918077.81	23918077.93	23918078.07	0.0138	0.0109
Mercury	60773-07-05 11:17 G	23918127.83	23918127.97	23918128.10	0.0138	0.0005
Mercury	60773-10-01 14:38 G	23918215.98	23918216.11	23918216.24	0.0138	0.0023
Venus	60773-12-28 18:14 G	23918304.09	23918304.26	23918304.45	0.0138	0.0076
Mercury	60773-12-28 18:00 G	23918304.12	23918304.25	23918304.38	0.0138	0.0044 *
Mercury	60774-03-26 21:22 G	23918392.27	23918392.39	23918392.51	0.0138	0.0064
Mercury	60774-06-23 00:43 G	23918480.43	23918480.53	23918480.64	0.0138	0.0084
Venus	60774-08-12 02:38 G	23918530.40	23918530.61	23918530.82	0.0138	0.0042
Mercury	60774-09-19 04:05 G	23918568.59	23918568.67	23918568.76	0.0138	0.0104

Mercury	60774-12-16 07:26 G	23918656.76	23918656.81	23918656.87	0.0138	0.0124
Venus	60775-03-26 10:48 G	23918756.74	23918756.95	23918757.17	0.0138	0.0009
Venus	60775-11-07 19:12 G	23918983.09	23918983.30	23918983.52	0.0139	0.0025
Venus	60776-06-21 03:50 G	23919209.46	23919209.66	23919209.86	0.0139	0.0059
Venus	60777-02-02 12:14 G	23919435.86	23919436.01	23919436.19	0.0139	0.0094
Venus	60777-09-16 21:07 G	23919662.31	23919662.38	23919662.48	0.0139	0.0128
Moon	60780-05-23 11:46 G	23920641.85	23920641.99	23920642.15	0.0140	0.0111
Earth	60780-05-23 12:29 G	23920641.87	23920642.02	23920642.20	0.0140	0.0106 *
Earth	60781-05-28 07:55 G	23921011.59	23921011.83	23921012.07	0.0141	0.0047
Moon	60781-05-28 09:07 G	23921011.63	23921011.88	23921012.13	0.0141	0.0045 *
Moon	60782-06-02 01:55 G	23921381.34	23921381.58	23921381.83	0.0141	0.0016
Earth	60782-06-02 03:36 G	23921381.40	23921381.65	23921381.91	0.0141	0.0013 *
Earth	60783-06-06 23:31 G	23921751.28	23921751.48	23921751.71	0.0141	0.0075
Moon	60783-06-07 02:10 G	23921751.37	23921751.59	23921751.83	0.0141	0.0067 *
Earth	60784-06-10 20:38 G	23922121.30	23922121.36	23922121.45	0.0142	0.0135
Mercury	60812-08-15 10:05 G	23932413.85	23932413.92	23932414.00	0.0141	0.0128
Mercury	60812-11-11 17:17 G	23932502.10	23932502.22	23932502.36	0.0141	0.0099
Venus	60813-01-18 16:19 G	23932570.17	23932570.18	23932570.20	0.0140	0.0140
Mercury	60813-02-08 00:29 G	23932590.37	23932590.52	23932590.69	0.0140	0.0070
Mercury	60813-05-07 07:55 G	23932678.65	23932678.83	23932679.01	0.0140	0.0041
Mercury	60813-08-03 15:07 G	23932766.95	23932767.13	23932767.32	0.0140	0.0012
Venus	60813-09-02 01:55 G	23932796.44	23932796.58	23932796.72	0.0140	0.0105
Mercury	60813-10-30 22:34 G	23932855.25	23932855.44	23932855.62	0.0140	0.0018
Mercury	60814-01-27 05:46 G	23932943.57	23932943.74	23932943.92	0.0140	0.0047
Venus	60814-04-16 10:48 G	23933022.77	23933022.95	23933023.15	0.0140	0.0070
Mercury	60814-04-25 12:58 G	23933031.90	23933032.04	23933032.21	0.0140	0.0077
Mercury	60814-07-22 20:38 G	23933120.24	23933120.36	23933120.48	0.0140	0.0106
Mercury	60814-10-19 03:50 G	23933208.63	23933208.66	23933208.71	0.0140	0.0136
Venus	60814-11-28 19:55 G	23933249.13	23933249.33	23933249.55	0.0140	0.0035
Venus	60815-07-13 05:02 G	23933475.49	23933475.71	23933475.92	0.0140	0.0002

Venus	60816-02-24 13:41 G	23933701.86	23933702.07	23933702.28	0.0139	0.0035
Venus	60816-10-07 22:05 G	23933928.24	23933928.42	23933928.62	0.0139	0.0069
Venus	60817-05-22 06:14 G	23934154.63	23934154.76	23934154.92	0.0139	0.0103
Venus	60818-01-03 14:53 G	23934381.08	23934381.12	23934381.16	0.0139	0.0136
Moon	60820-11-26 08:10 G	23935438.65	23935438.84	23935439.05	0.0138	0.0080
Earth	60820-11-26 10:34 G	23935438.76	23935438.94	23935439.15	0.0138	0.0086 *
Earth	60821-11-30 23:17 G	23935808.24	23935808.47	23935808.73	0.0137	0.0031
Moon	60821-12-01 01:55 G	23935808.34	23935808.58	23935808.84	0.0137	0.0038 *
Moon	60822-12-05 09:07 G	23936177.65	23936177.88	23936178.13	0.0137	0.0032
Earth	60822-12-05 11:46 G	23936177.75	23936177.99	23936178.24	0.0137	0.0025 *
Earth	60823-12-09 23:02 G	23936547.27	23936547.46	23936547.68	0.0137	0.0080
Moon	60823-12-10 02:38 G	23936547.39	23936547.61	23936547.83	0.0137	0.0074 *
Moon	60824-12-13 07:26 G	23936916.80	23936916.81	23936916.85	0.0136	0.0136
Earth	60824-12-13 10:05 G	23936916.88	23936916.92	23936917.00	0.0136	0.0133
Mercury	60855-11-16 17:31 G	23948212.22	23948212.23	23948212.26	0.0137	0.0135
Mercury	60856-02-12 21:07 G	23948300.31	23948300.38	23948300.46	0.0137	0.0115
Mercury	60856-05-11 00:29 G	23948388.43	23948388.52	23948388.63	0.0137	0.0095
Mercury	60856-08-07 04:19 G	23948476.56	23948476.68	23948476.79	0.0138	0.0074
Mercury	60856-11-03 07:41 G	23948564.70	23948564.82	23948564.95	0.0138	0.0054
Venus	60857-01-13 17:46 G	23948636.16	23948636.24	23948636.34	0.0138	0.0124
Mercury	60857-01-30 11:02 G	23948652.83	23948652.96	23948653.10	0.0138	0.0034
Mercury	60857-04-28 14:38 G	23948740.97	23948741.11	23948741.25	0.0138	0.0013
Mercury	60857-07-25 18:00 G	23948829.12	23948829.25	23948829.39	0.0138	0.0008
Venus	60857-08-28 01:41 G	23948862.42	23948862.57	23948862.74	0.0138	0.0091
Mercury	60857-10-21 21:22 G	23948917.26	23948917.39	23948917.53	0.0138	0.0028
Mercury	60858-01-18 00:43 G	23949005.41	23949005.53	23949005.67	0.0138	0.0049
Venus	60858-04-11 09:36 G	23949088.72	23949088.90	23949089.11	0.0138	0.0059
Mercury	60858-04-16 04:05 G	23949093.56	23949093.67	23949093.80	0.0138	0.0069
Mercury	60858-07-13 07:26 G	23949181.72	23949181.81	23949181.93	0.0138	0.0089
Mercury	60858-10-09 10:48 G	23949269.88	23949269.95	23949270.05	0.0138	0.0109

Venus	60858-11-23 18:00 G	23949315.04	23949315.25	23949315.47	0.0138	0.0024
Mercury	60859-01-05 14:38 G	23949358.06	23949358.11	23949358.15	0.0138	0.0128
Venus	60859-07-08 02:24 G	23949541.39	23949541.60	23949541.82	0.0139	0.0010
Venus	60860-02-19 11:02 G	23949767.76	23949767.96	23949768.17	0.0139	0.0044
Venus	60860-10-02 19:41 G	23949994.15	23949994.32	23949994.50	0.0139	0.0078
Venus	60861-05-17 04:19 G	23950220.56	23950220.68	23950220.82	0.0139	0.0113
Earth	60864-05-23 21:36 G	23951323.24	23951323.40	23951323.59	0.0140	0.0102
Moon	60864-05-23 21:50 G	23951323.25	23951323.41	23951323.60	0.0140	0.0097 *
Earth	60865-05-28 16:48 G	23951692.97	23951693.20	23951693.45	0.0141	0.0043
Moon	60865-05-28 17:31 G	23951692.99	23951693.23	23951693.49	0.0141	0.0045 *
Moon	60866-06-02 11:31 G	23952062.74	23952062.98	23952063.23	0.0141	0.0016
Earth	60866-06-02 12:43 G	23952062.78	23952063.03	23952063.28	0.0141	0.0017 *
Earth	60867-06-07 08:53 G	23952432.66	23952432.87	23952433.09	0.0141	0.0078
Moon	60867-06-07 10:19 G	23952432.72	23952432.93	23952433.15	0.0141	0.0083 *
Moon	60868-06-11 03:36 G	23952802.56	23952802.65	23952802.75	0.0142	0.0131
Earth	60868-06-11 05:31 G	23952802.70	23952802.73	23952802.80	0.0142	0.0139 *
Mercury	60896-09-04 16:48 G	23963115.12	23963115.20	23963115.30	0.0141	0.0121
Mercury	60896-12-02 00:00 G	23963203.37	23963203.50	23963203.65	0.0141	0.0093
Mercury	60897-02-28 07:12 G	23963291.65	23963291.80	23963291.97	0.0140	0.0064
Venus	60897-05-02 08:38 G	23963354.76	23963354.86	23963354.98	0.0140	0.0121
Mercury	60897-05-27 14:38 G	23963379.93	23963380.11	23963380.29	0.0140	0.0034
Mercury	60897-08-23 21:50 G	23963468.23	23963468.41	23963468.60	0.0140	0.0006
Mercury	60897-11-20 05:17 G	23963556.54	23963556.72	23963556.90	0.0140	0.0024
Venus	60897-12-14 18:00 G	23963581.08	23963581.25	23963581.42	0.0140	0.0086
Mercury	60898-02-16 12:29 G	23963644.85	23963645.02	23963645.20	0.0140	0.0053
Mercury	60898-05-15 19:41 G	23963733.18	23963733.32	23963733.48	0.0140	0.0083
Venus	60898-07-29 02:53 G	23963807.43	23963807.62	23963807.84	0.0140	0.0051
Mercury	60898-08-12 03:07 G	23963821.53	23963821.63	23963821.75	0.0140	0.0112
Venus	60899-03-12 12:00 G	23964033.79	23964034.00	23964034.22	0.0140	0.0016
Venus	60899-10-24 20:53 G	23964260.15	23964260.37	23964260.59	0.0140	0.0019

Venus	60900-06-08 05:17 G	23964486.53	23964486.72	23964486.93	0.0139	0.0054
Venus	60901-01-20 13:55 G	23964712.91	23964713.08	23964713.25	0.0139	0.0087
Venus	60901-09-03 22:19 G	23964939.33	23964939.43	23964939.54	0.0139	0.0121
Earth	60903-11-24 06:00 G	23965750.73	23965750.75	23965750.77	0.0138	0.0137
Moon	60903-11-24 07:55 G	23965750.77	23965750.83	23965750.88	0.0138	0.0134 *
Moon	60904-11-27 17:46 G	23966120.07	23966120.24	23966120.45	0.0138	0.0087
Earth	60904-11-27 19:26 G	23966120.12	23966120.31	23966120.52	0.0138	0.0082 *
Earth	60905-12-02 08:24 G	23966489.61	23966489.85	23966490.11	0.0137	0.0027
Moon	60905-12-02 10:48 G	23966489.69	23966489.95	23966490.21	0.0137	0.0020 *
Moon	60906-12-06 18:29 G	23966859.03	23966859.27	23966859.52	0.0137	0.0021
Earth	60906-12-06 20:38 G	23966859.12	23966859.36	23966859.62	0.0137	0.0029 *
Earth	60907-12-11 08:10 G	23967228.65	23967228.84	23967229.05	0.0137	0.0083
Moon	60907-12-11 10:34 G	23967228.75	23967228.94	23967229.15	0.0137	0.0088 *
Moon	60908-12-14 16:19 G	23967598.15	23967598.18	23967598.24	0.0136	0.0134
Earth	60908-12-14 19:12 G	23967598.29	23967598.30	23967598.34	0.0136	0.0136
Mars	60922-11-02 11:02 G	23972668.70	23972668.96	23972669.25	0.0134	0.0075
Mercury	60939-12-08 00:29 G	23978913.49	23978913.52	23978913.57	0.0137	0.0131
Mercury	60940-03-05 04:05 G	23979001.60	23979001.67	23979001.76	0.0137	0.0110
Mercury	60940-06-01 07:41 G	23979089.72	23979089.82	23979089.93	0.0138	0.0090
Mercury	60940-08-28 11:02 G	23979177.85	23979177.96	23979178.09	0.0138	0.0070
Mercury	60940-11-24 14:38 G	23979265.99	23979266.11	23979266.24	0.0138	0.0049
Mercury	60941-02-20 18:14 G	23979354.13	23979354.26	23979354.39	0.0138	0.0029
Venus	60941-04-28 09:22 G	23979420.76	23979420.89	23979421.04	0.0138	0.0106
Mercury	60941-05-19 21:36 G	23979442.27	23979442.40	23979442.54	0.0138	0.0009
Mercury	60941-08-16 01:12 G	23979530.41	23979530.55	23979530.68	0.0138	0.0012
Mercury	60941-11-12 04:34 G	23979618.56	23979618.69	23979618.82	0.0138	0.0032
Venus	60941-12-10 17:17 G	23979647.05	23979647.22	23979647.42	0.0138	0.0073
Mercury	60942-02-08 07:55 G	23979706.71	23979706.83	23979706.96	0.0138	0.0052
Mercury	60942-05-07 11:17 G	23979794.86	23979794.97	23979795.09	0.0138	0.0072
Venus	60942-07-25 01:41 G	23979873.36	23979873.57	23979873.78	0.0138	0.0039

Mercury	60942-08-03 14:38 G	23979883.02	23979883.11	23979883.21	0.0138	0.0092
Mercury	60942-10-30 18:00 G	23979971.18	23979971.25	23979971.33	0.0138	0.0113
Mercury	60943-01-26 21:22 G	23980059.36	23980059.39	23980059.43	0.0138	0.0133
Venus	60943-03-08 10:05 G	23980099.71	23980099.92	23980100.14	0.0138	0.0006
Venus	60943-10-20 18:29 G	23980326.06	23980326.27	23980326.49	0.0139	0.0029
Venus	60944-06-03 03:07 G	23980552.44	23980552.63	23980552.83	0.0139	0.0063
Venus	60945-01-15 11:46 G	23980778.84	23980778.99	23980779.15	0.0139	0.0097
Venus	60945-08-29 20:53 G	23981005.30	23981005.37	23981005.44	0.0139	0.0132
Earth	60948-05-25 06:58 G	23982004.63	23982004.79	23982004.99	0.0140	0.0098
Moon	60948-05-25 07:41 G	23982004.66	23982004.82	23982004.99	0.0140	0.0104 *
Moon	60949-05-30 01:55 G	23982374.33	23982374.58	23982374.84	0.0141	0.0035
Earth	60949-05-30 02:24 G	23982374.35	23982374.60	23982374.84	0.0141	0.0039 *
Moon	60950-06-03 21:36 G	23982744.16	23982744.40	23982744.65	0.0141	0.0022
Earth	60950-06-03 21:50 G	23982744.17	23982744.41	23982744.67	0.0141	0.0021 *
Earth	60951-06-08 18:00 G	23983114.05	23983114.25	23983114.47	0.0141	0.0081
Moon	60951-06-08 19:12 G	23983114.08	23983114.30	23983114.53	0.0141	0.0076 *
Mars	60965-03-12 06:00 G	23988139.47	23988139.75	23988140.03	0.0144	0.0031
Mercury	60980-09-26 00:00 G	23993816.40	23993816.50	23993816.61	0.0141	0.0114
Mercury	60980-12-23 06:58 G	23993904.66	23993904.79	23993904.95	0.0141	0.0086
Venus	60980-12-31 15:50 G	23993913.13	23993913.16	23993913.23	0.0141	0.0137
Mercury	60981-03-21 14:24 G	23993992.94	23993993.10	23993993.27	0.0140	0.0056
Mercury	60981-06-17 21:36 G	23994081.22	23994081.40	23994081.59	0.0140	0.0027
Venus	60981-08-15 01:26 G	23994139.42	23994139.56	23994139.72	0.0140	0.0101
Mercury	60981-09-14 05:02 G	23994169.52	23994169.71	23994169.89	0.0140	0.0003
Mercury	60981-12-11 12:14 G	23994257.83	23994258.01	23994258.19	0.0140	0.0031
Mercury	60982-03-09 19:26 G	23994346.15	23994346.31	23994346.48	0.0140	0.0060
Venus	60982-03-29 10:34 G	23994365.76	23994365.94	23994366.14	0.0140	0.0066
Mercury	60982-06-06 02:38 G	23994434.48	23994434.61	23994434.76	0.0140	0.0090
Mercury	60982-09-02 10:05 G	23994522.83	23994522.92	23994523.03	0.0140	0.0119
Venus	60982-11-10 19:41 G	23994592.11	23994592.32	23994592.54	0.0140	0.0031

Venus	60983-06-25 04:34 G	23994818.47	23994818.69	23994818.91	0.0140	0.0004
Venus	60984-02-06 13:12 G	23995044.84	23995045.05	23995045.26	0.0139	0.0038
Venus	60984-09-19 21:36 G	23995271.23	23995271.40	23995271.60	0.0139	0.0073
Venus	60985-05-04 06:00 G	23995497.63	23995497.75	23995497.90	0.0139	0.0107
Earth	60987-11-24 15:07 G	23996432.09	23996432.13	23996432.21	0.0138	0.0134
Moon	60987-11-24 15:22 G	23996432.11	23996432.14	23996432.23	0.0138	0.0134 *
Moon	60988-11-28 03:50 G	23996801.46	23996801.66	23996801.87	0.0138	0.0074
Earth	60988-11-28 04:48 G	23996801.51	23996801.70	23996801.93	0.0138	0.0079 *
Earth	60989-12-02 17:46 G	23997171.00	23997171.24	23997171.50	0.0137	0.0023
Moon	60989-12-02 19:12 G	23997171.05	23997171.30	23997171.56	0.0137	0.0030 *
Moon	60990-12-07 04:48 G	23997540.46	23997540.70	23997540.93	0.0137	0.0038
Earth	60990-12-07 06:00 G	23997540.51	23997540.75	23997541.01	0.0137	0.0032 *
Earth	60991-12-11 17:31 G	23997910.04	23997910.23	23997910.44	0.0137	0.0086
Moon	60991-12-11 19:26 G	23997910.12	23997910.31	23997910.54	0.0137	0.0080 *

62ND MILLENNIUM CE

This is a list of transits visible from Uranus in the 62nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	61007-06-29 18:58 G	24003588.10	24003588.29	24003588.52	0.0134	0.0105		
Jupiter	61016-06-05 22:34 G	24006852.14	24006852.44	24006852.79	0.0135	0.0101		
Mercury	61023-12-29 07:26 G	24009614.77	24009614.81	24009614.87	0.0137	0.0127		
Mercury	61024-03-26 10:48 G	24009702.88	24009702.95	24009703.05	0.0138	0.0107		
Mercury	61024-06-22 14:38 G	24009791.00	24009791.11	24009791.22	0.0138	0.0086		

Mercury	61024-09-18 18:00 G	24009879.14	24009879.25	24009879.38	0.0138	0.0066
Mercury	61024-12-15 21:36 G	24009967.27	24009967.40	24009967.53	0.0138	0.0045
Venus	61024-12-27 16:48 G	24009979.11	24009979.20	24009979.31	0.0138	0.0121
Mercury	61025-03-14 01:12 G	24010055.41	24010055.55	24010055.68	0.0138	0.0025
Mercury	61025-06-10 04:34 G	24010143.56	24010143.69	24010143.83	0.0138	0.0005
Venus	61025-08-11 00:43 G	24010205.38	24010205.53	24010205.71	0.0138	0.0088
Mercury	61025-09-06 07:55 G	24010231.70	24010231.83	24010231.97	0.0138	0.0017
Mercury	61025-12-03 11:31 G	24010319.85	24010319.98	24010320.11	0.0138	0.0036
Mercury	61026-03-01 14:53 G	24010408.00	24010408.12	24010408.24	0.0138	0.0056
Venus	61026-03-25 09:07 G	24010431.68	24010431.88	24010432.08	0.0138	0.0054
Mercury	61026-05-28 18:14 G	24010496.15	24010496.26	24010496.37	0.0138	0.0076
Mercury	61026-08-24 21:36 G	24010584.31	24010584.40	24010584.50	0.0138	0.0097
Venus	61026-11-06 17:17 G	24010658.01	24010658.22	24010658.44	0.0138	0.0021
Mercury	61026-11-21 00:58 G	24010672.48	24010672.54	24010672.62	0.0138	0.0117
Mercury	61027-02-17 04:19 G	24010760.67	24010760.68	24010760.71	0.0138	0.0137
Venus	61027-06-21 01:41 G	24010884.36	24010884.57	24010884.79	0.0139	0.0014
Venus	61028-02-02 10:19 G	24011110.73	24011110.93	24011111.14	0.0139	0.0048
Venus	61028-09-15 18:58 G	24011337.12	24011337.29	24011337.47	0.0139	0.0082
Venus	61029-04-30 03:50 G	24011563.55	24011563.66	24011563.79	0.0139	0.0117
Earth	61032-05-26 16:05 G	24012685.99	24012686.17	24012686.37	0.0140	0.0095
Moon	61032-05-26 18:00 G	24012686.05	24012686.25	24012686.44	0.0140	0.0088 *
Moon	61033-05-31 10:34 G	24013055.68	24013055.94	24013056.19	0.0141	0.0039
Earth	61033-05-31 11:02 G	24013055.72	24013055.96	24013056.22	0.0141	0.0036 *
Earth	61034-06-05 06:43 G	24013425.53	24013425.78	24013426.03	0.0141	0.0024
Moon	61034-06-05 06:58 G	24013425.55	24013425.79	24013426.04	0.0141	0.0024 *
Moon	61035-06-10 02:53 G	24013795.42	24013795.62	24013795.84	0.0141	0.0088
Earth	61035-06-10 02:53 G	24013795.43	24013795.62	24013795.83	0.0141	0.0084 *
Moon	61036-06-13 23:02 G	24014165.41	24014165.46	24014165.52	0.0142	0.0138
Mercury	61064-07-21 00:00 G	24024429.46	24024429.50	24024429.56	0.0141	0.0135
Mercury	61064-10-17 07:12 G	24024517.69	24024517.80	24024517.93	0.0141	0.0106

Mercury	61065-01-13 14:10 G	24024605.95	24024606.09	24024606.26	0.0140	0.0078
Mercury	61065-04-11 21:36 G	24024694.23	24024694.40	24024694.58	0.0140	0.0048
Venus	61065-04-15 09:22 G	24024697.78	24024697.89	24024698.02	0.0140	0.0117
Mercury	61065-07-09 04:48 G	24024782.52	24024782.70	24024782.89	0.0140	0.0020
Mercury	61065-10-05 12:00 G	24024870.82	24024871.00	24024871.19	0.0140	0.0011
Venus	61065-11-27 18:43 G	24024924.10	24024924.28	24024924.46	0.0140	0.0082
Mercury	61066-01-01 19:12 G	24024959.13	24024959.30	24024959.49	0.0140	0.0040
Mercury	61066-03-31 02:38 G	24025047.45	24025047.61	24025047.78	0.0140	0.0068
Mercury	61066-06-27 09:50 G	24025135.79	24025135.91	24025136.05	0.0140	0.0098
Venus	61066-07-12 03:50 G	24025150.45	24025150.66	24025150.86	0.0140	0.0046
Mercury	61066-09-23 17:17 G	24025224.15	24025224.22	24025224.30	0.0140	0.0127
Venus	61067-02-23 12:43 G	24025376.81	24025377.03	24025377.25	0.0140	0.0011
Venus	61067-10-07 21:22 G	24025603.18	24025603.39	24025603.61	0.0139	0.0024
Venus	61068-05-21 05:46 G	24025829.56	24025829.74	24025829.95	0.0139	0.0059
Venus	61069-01-02 14:24 G	24026055.95	24026056.10	24026056.27	0.0139	0.0092
Venus	61069-08-16 22:48 G	24026282.38	24026282.45	24026282.55	0.0139	0.0126
Earth	61071-11-26 01:41 G	24027113.50	24027113.57	24027113.67	0.0138	0.0129
Moon	61071-11-26 02:10 G	24027113.51	24027113.59	24027113.70	0.0138	0.0128 *
Earth	61072-11-29 15:22 G	24027482.93	24027483.14	24027483.36	0.0138	0.0074
Moon	61072-11-29 14:53 G	24027482.94	24027483.12	24027483.34	0.0138	0.0078 *
Earth	61073-12-04 04:05 G	24027852.43	24027852.67	24027852.93	0.0137	0.0020
Moon	61073-12-04 05:02 G	24027852.45	24027852.71	24027852.98	0.0137	0.0013 *
Moon	61074-12-08 15:22 G	24028221.90	24028222.14	24028222.38	0.0137	0.0028
Earth	61074-12-08 16:19 G	24028221.94	24028222.18	24028222.43	0.0137	0.0036 *
Earth	61075-12-13 03:50 G	24028591.47	24028591.66	24028591.85	0.0137	0.0089
Moon	61075-12-13 04:48 G	24028591.51	24028591.70	24028591.89	0.0137	0.0095 *
Jupiter	61099-05-04 19:12 G	24037135.15	24037135.30	24037135.46	0.0135	0.0127
Mercury	61108-01-19 14:38 G	24040316.05	24040316.11	24040316.17	0.0137	0.0122
Mercury	61108-04-16 18:00 G	24040404.16	24040404.25	24040404.34	0.0138	0.0102
Mercury	61108-07-13 21:36 G	24040492.29	24040492.40	24040492.51	0.0138	0.0081

Venus	61108-08-28 00:43 G	24040537.50	24040537.53	24040537.56	0.0138	0.0136
Mercury	61108-10-10 00:58 G	24040580.42	24040580.54	24040580.67	0.0138	0.0061
Mercury	61109-01-06 04:34 G	24040668.56	24040668.69	24040668.82	0.0138	0.0040
Mercury	61109-04-04 08:10 G	24040756.70	24040756.84	24040756.97	0.0138	0.0020
Venus	61109-04-11 08:38 G	24040763.72	24040763.86	24040764.00	0.0138	0.0103
Mercury	61109-07-01 11:31 G	24040844.85	24040844.98	24040845.12	0.0138	0.0002
Mercury	61109-09-27 15:07 G	24040932.99	24040933.13	24040933.26	0.0138	0.0021
Venus	61109-11-23 16:19 G	24040990.01	24040990.18	24040990.38	0.0138	0.0071
Mercury	61109-12-24 18:29 G	24041021.14	24041021.27	24041021.40	0.0138	0.0041
Mercury	61110-03-22 21:50 G	24041109.29	24041109.41	24041109.53	0.0138	0.0061
Mercury	61110-06-19 01:12 G	24041197.45	24041197.55	24041197.66	0.0138	0.0081
Venus	61110-07-08 00:43 G	24041216.33	24041216.53	24041216.75	0.0138	0.0036
Mercury	61110-09-15 04:34 G	24041285.61	24041285.69	24041285.79	0.0138	0.0101
Mercury	61110-12-12 07:55 G	24041373.78	24041373.83	24041373.90	0.0138	0.0122
Venus	61111-02-19 09:22 G	24041442.67	24041442.89	24041443.11	0.0138	0.0002
Venus	61111-10-03 17:46 G	24041669.03	24041669.24	24041669.46	0.0139	0.0032
Venus	61112-05-17 02:24 G	24041895.41	24041895.60	24041895.79	0.0139	0.0066
Venus	61112-12-29 10:48 G	24042121.82	24042121.95	24042122.12	0.0139	0.0102
Venus	61113-08-12 19:55 G	24042348.29	24042348.33	24042348.39	0.0139	0.0136
Earth	61116-05-28 00:58 G	24043367.35	24043367.54	24043367.74	0.0140	0.0091
Moon	61116-05-28 02:38 G	24043367.44	24043367.61	24043367.80	0.0140	0.0098 *
Moon	61117-06-01 18:00 G	24043737.00	24043737.25	24043737.52	0.0141	0.0027
Earth	61117-06-01 19:55 G	24043737.08	24043737.33	24043737.58	0.0141	0.0032 *
Earth	61118-06-06 15:36 G	24044106.89	24044107.15	24044107.40	0.0141	0.0028
Moon	61118-06-06 16:34 G	24044106.95	24044107.19	24044107.43	0.0141	0.0027 *
Moon	61119-06-11 11:02 G	24044476.76	24044476.96	24044477.18	0.0141	0.0084
Earth	61119-06-11 11:31 G	24044476.79	24044476.98	24044477.19	0.0141	0.0088 *
Mars	61132-07-31 16:19 G	24049276.01	24049276.18	24049276.38	0.0144	0.0108
Jupiter	61140-12-08 12:00 G	24052327.46	24052328.00	24052328.56	0.0143	0.0011
Mercury	61148-08-11 07:12 G	24055130.73	24055130.80	24055130.88	0.0141	0.0127

Mercury	61148-11-07 14:10 G	24055218.97	24055219.09	24055219.23	0.0141	0.0099
Venus	61148-12-14 16:48 G	24055256.15	24055256.20	24055256.28	0.0141	0.0133
Mercury	61149-02-03 21:22 G	24055307.24	24055307.39	24055307.56	0.0140	0.0070
Mercury	61149-05-03 04:48 G	24055395.52	24055395.70	24055395.88	0.0140	0.0041
Venus	61149-07-29 02:24 G	24055482.45	24055482.60	24055482.76	0.0140	0.0097
Mercury	61149-07-30 12:00 G	24055483.82	24055484.00	24055484.19	0.0140	0.0011
Mercury	61149-10-26 19:12 G	24055572.12	24055572.30	24055572.49	0.0140	0.0018
Mercury	61150-01-23 02:24 G	24055660.43	24055660.60	24055660.78	0.0140	0.0047
Venus	61150-03-12 11:31 G	24055708.79	24055708.98	24055709.18	0.0140	0.0062
Mercury	61150-04-21 09:50 G	24055748.76	24055748.91	24055749.07	0.0140	0.0076
Mercury	61150-07-18 17:02 G	24055837.10	24055837.21	24055837.34	0.0140	0.0106
Mercury	61150-10-15 00:29 G	24055925.48	24055925.52	24055925.57	0.0140	0.0135
Venus	61150-10-24 20:38 G	24055935.15	24055935.36	24055935.58	0.0140	0.0027
Venus	61151-06-08 05:31 G	24056161.51	24056161.73	24056161.95	0.0140	0.0008
Venus	61152-01-20 14:10 G	24056387.89	24056388.09	24056388.30	0.0139	0.0043
Venus	61152-09-02 22:48 G	24056614.28	24056614.45	24056614.64	0.0139	0.0077
Venus	61153-04-17 07:26 G	24056840.69	24056840.81	24056840.95	0.0139	0.0111
Moon	61155-11-27 11:02 G	24057794.86	24057794.96	24057795.10	0.0138	0.0123
Earth	61155-11-27 12:14 G	24057794.91	24057795.01	24057795.13	0.0138	0.0124 *
Earth	61156-12-01 01:41 G	24058164.36	24058164.57	24058164.80	0.0138	0.0070
Moon	61156-12-01 01:41 G	24058164.37	24058164.57	24058164.80	0.0138	0.0067 *
Moon	61157-12-05 14:24 G	24058533.85	24058534.10	24058534.37	0.0137	0.0021
Earth	61157-12-05 14:38 G	24058533.86	24058534.11	24058534.37	0.0137	0.0014 *
Moon	61158-12-10 02:24 G	24058903.37	24058903.60	24058903.83	0.0137	0.0046
Earth	61158-12-10 02:24 G	24058903.37	24058903.60	24058903.86	0.0137	0.0040 *
Earth	61159-12-14 13:55 G	24059272.90	24059273.08	24059273.27	0.0137	0.0093
Moon	61159-12-14 14:53 G	24059272.92	24059273.12	24059273.32	0.0137	0.0086 *
Mars	61174-11-15 10:34 G	24064722.62	24064722.94	24064723.28	0.0134	0.0030
Mercury	61192-02-08 21:22 G	24071017.32	24071017.39	24071017.46	0.0137	0.0118
Mercury	61192-05-07 00:43 G	24071105.44	24071105.53	24071105.63	0.0137	0.0098

Mercury	61192-08-03 04:19 G	24071193.57	24071193.68	24071193.80	0.0138	0.0077
Mercury	61192-10-30 07:55 G	24071281.71	24071281.83	24071281.96	0.0138	0.0057
Venus	61192-12-09 15:50 G	24071322.05	24071322.16	24071322.27	0.0138	0.0119
Mercury	61193-01-26 11:17 G	24071369.85	24071369.97	24071370.11	0.0138	0.0037
Mercury	61193-04-24 14:53 G	24071457.99	24071458.12	24071458.26	0.0138	0.0016
Mercury	61193-07-21 18:29 G	24071546.13	24071546.27	24071546.40	0.0138	0.0005
Venus	61193-07-23 23:31 G	24071548.32	24071548.48	24071548.66	0.0138	0.0086
Mercury	61193-10-17 21:50 G	24071634.28	24071634.41	24071634.54	0.0138	0.0025
Mercury	61194-01-14 01:12 G	24071722.43	24071722.55	24071722.68	0.0138	0.0045
Venus	61194-03-07 08:10 G	24071774.64	24071774.84	24071775.04	0.0138	0.0052
Mercury	61194-04-12 04:48 G	24071810.58	24071810.70	24071810.82	0.0138	0.0065
Mercury	61194-07-09 08:10 G	24071898.74	24071898.84	24071898.95	0.0138	0.0085
Mercury	61194-10-05 11:31 G	24071986.90	24071986.98	24071987.07	0.0138	0.0105
Venus	61194-10-19 16:19 G	24072000.97	24072001.18	24072001.40	0.0138	0.0019
Mercury	61195-01-01 14:53 G	24072075.07	24072075.12	24072075.18	0.0138	0.0126
Venus	61195-06-03 00:43 G	24072227.32	24072227.53	24072227.75	0.0139	0.0016
Venus	61196-01-15 09:22 G	24072453.69	24072453.89	24072454.10	0.0139	0.0050
Venus	61196-08-28 18:14 G	24072680.09	24072680.26	24072680.43	0.0139	0.0084
Venus	61197-04-12 02:53 G	24072906.52	24072906.62	24072906.74	0.0139	0.0119
Earth	61200-05-28 09:22 G	24074048.69	24074048.89	24074049.09	0.0140	0.0087
Moon	61200-05-28 11:46 G	24074048.80	24074048.99	24074049.21	0.0140	0.0080 *
Moon	61201-06-02 01:55 G	24074418.33	24074418.58	24074418.84	0.0141	0.0034
Earth	61201-06-02 04:05 G	24074418.43	24074418.67	24074418.93	0.0141	0.0028 *
Earth	61202-06-06 23:31 G	24074788.23	24074788.48	24074788.73	0.0141	0.0031
Moon	61202-06-07 01:12 G	24074788.31	24074788.55	24074788.80	0.0141	0.0033 *
Moon	61203-06-11 18:00 G	24075158.06	24075158.25	24075158.46	0.0142	0.0092
Earth	61203-06-11 19:55 G	24075158.14	24075158.33	24075158.53	0.0142	0.0091 *
Mars	61217-03-26 12:14 G	24080194.79	24080195.01	24080195.27	0.0144	0.0078
Mercury	61232-08-31 13:55 G	24085832.00	24085832.08	24085832.19	0.0141	0.0120
Mercury	61232-11-27 21:22 G	24085920.26	24085920.39	24085920.53	0.0141	0.0091

Mercury	61233-02-24 04:34 G	24086008.53	24086008.69	24086008.86	0.0140	0.0062
Venus	61233-03-28 10:05 G	24086040.80	24086040.92	24086041.05	0.0140	0.0114
Mercury	61233-05-23 11:46 G	24086096.81	24086096.99	24086097.17	0.0140	0.0033
Mercury	61233-08-19 18:58 G	24086185.11	24086185.29	24086185.48	0.0140	0.0005
Venus	61233-11-09 19:12 G	24086267.13	24086267.30	24086267.49	0.0140	0.0078
Mercury	61233-11-16 02:24 G	24086273.41	24086273.60	24086273.78	0.0140	0.0025
Mercury	61234-02-12 09:22 G	24086361.73	24086361.89	24086362.07	0.0140	0.0055
Mercury	61234-05-11 16:48 G	24086450.06	24086450.20	24086450.35	0.0140	0.0084
Venus	61234-06-24 04:19 G	24086493.48	24086493.68	24086493.89	0.0140	0.0043
Mercury	61234-08-08 00:14 G	24086538.41	24086538.51	24086538.62	0.0140	0.0113
Venus	61235-02-05 13:26 G	24086719.84	24086720.06	24086720.28	0.0140	0.0008
Venus	61235-09-19 22:19 G	24086946.22	24086946.43	24086946.65	0.0139	0.0027
Venus	61236-05-03 06:58 G	24087172.60	24087172.79	24087172.99	0.0139	0.0062
Venus	61236-12-15 15:22 G	24087399.00	24087399.14	24087399.31	0.0139	0.0096
Venus	61237-07-29 23:46 G	24087625.43	24087625.49	24087625.58	0.0139	0.0130
Moon	61239-11-27 21:07 G	24088476.28	24088476.38	24088476.54	0.0138	0.0120
Earth	61239-11-27 22:34 G	24088476.32	24088476.44	24088476.57	0.0138	0.0119 *
Earth	61240-12-01 11:46 G	24088845.78	24088845.99	24088846.23	0.0138	0.0065
Moon	61240-12-01 12:58 G	24088845.84	24088846.04	24088846.27	0.0138	0.0067 *
Moon	61241-12-06 00:14 G	24089215.25	24089215.51	24089215.78	0.0137	0.0005
Earth	61241-12-06 00:58 G	24089215.29	24089215.54	24089215.79	0.0137	0.0010 *
Earth	61242-12-10 12:29 G	24089584.80	24089585.02	24089585.28	0.0137	0.0045
Moon	61242-12-10 13:12 G	24089584.81	24089585.05	24089585.29	0.0137	0.0037 *
Moon	61243-12-14 23:17 G	24089954.32	24089954.47	24089954.66	0.0137	0.0104
Earth	61243-12-14 23:31 G	24089954.33	24089954.48	24089954.68	0.0137	0.0098 *
Mercury	61275-12-03 00:43 G	24101630.51	24101630.53	24101630.56	0.0137	0.0133
Mercury	61276-02-29 04:05 G	24101718.61	24101718.67	24101718.76	0.0137	0.0114
Mercury	61276-05-27 07:55 G	24101806.73	24101806.83	24101806.93	0.0137	0.0092
Venus	61276-08-08 23:17 G	24101880.45	24101880.47	24101880.53	0.0137	0.0135
Mercury	61276-08-23 11:17 G	24101894.86	24101894.97	24101895.09	0.0138	0.0072

Mercury	61276-11-19 14:53 G	24101983.00	24101983.12	24101983.25	0.0138	0.0052
Mercury	61277-02-15 18:29 G	24102071.14	24102071.27	24102071.40	0.0138	0.0031
Venus	61277-03-23 07:26 G	24102106.68	24102106.81	24102106.97	0.0138	0.0102
Mercury	61277-05-14 21:50 G	24102159.28	24102159.41	24102159.55	0.0138	0.0012
Mercury	61277-08-11 01:26 G	24102247.42	24102247.56	24102247.70	0.0138	0.0009
Venus	61277-11-04 15:36 G	24102332.97	24102333.15	24102333.35	0.0138	0.0068
Mercury	61277-11-07 04:48 G	24102335.57	24102335.70	24102335.84	0.0138	0.0030
Mercury	61278-02-03 08:10 G	24102423.72	24102423.84	24102423.97	0.0138	0.0050
Mercury	61278-05-02 11:46 G	24102511.88	24102511.99	24102512.11	0.0138	0.0070
Venus	61278-06-19 00:00 G	24102559.29	24102559.50	24102559.71	0.0138	0.0034
Mercury	61278-07-29 15:07 G	24102600.03	24102600.13	24102600.24	0.0138	0.0090
Mercury	61278-10-25 18:29 G	24102688.20	24102688.27	24102688.36	0.0138	0.0111
Mercury	61279-01-21 21:50 G	24102776.38	24102776.41	24102776.46	0.0138	0.0131
Venus	61279-01-31 08:24 G	24102785.63	24102785.85	24102786.07	0.0138	0.0002
Venus	61279-09-14 17:02 G	24103012.00	24103012.21	24103012.42	0.0139	0.0034
Venus	61280-04-28 01:12 G	24103238.38	24103238.55	24103238.76	0.0139	0.0069
Venus	61280-12-10 10:05 G	24103464.79	24103464.92	24103465.08	0.0139	0.0103
Venus	61281-07-24 18:58 G	24103691.27	24103691.29	24103691.33	0.0139	0.0138
Moon	61283-05-24 20:10 G	24104360.28	24104360.34	24104360.44	0.0140	0.0133
Earth	61283-05-25 00:00 G	24104360.49	24104360.50	24104360.53	0.0140	0.0139
Earth	61284-05-28 17:46 G	24104730.05	24104730.24	24104730.46	0.0140	0.0083
Moon	61284-05-28 20:38 G	24104730.18	24104730.36	24104730.57	0.0140	0.0090 *
Moon	61285-06-02 09:50 G	24105099.65	24105099.91	24105100.17	0.0141	0.0018
Earth	61285-06-02 12:43 G	24105099.78	24105100.03	24105100.29	0.0141	0.0024 *
Earth	61286-06-07 08:10 G	24105469.60	24105469.84	24105470.09	0.0141	0.0035
Moon	61286-06-07 10:34 G	24105469.70	24105469.94	24105470.19	0.0141	0.0033 *
Moon	61287-06-12 02:24 G	24105839.42	24105839.60	24105839.81	0.0141	0.0093
Earth	61287-06-12 04:05 G	24105839.50	24105839.67	24105839.88	0.0141	0.0096 *
Mercury	61316-09-21 20:53 G	24116533.28	24116533.37	24116533.50	0.0141	0.0113
Venus	61316-11-26 16:48 G	24116599.14	24116599.20	24116599.30	0.0141	0.0131

Mercury	61316-12-19 04:19 G	24116621.54	24116621.68	24116621.83	0.0141	0.0084
Mercury	61317-03-17 11:31 G	24116709.81	24116709.98	24116710.15	0.0140	0.0055
Mercury	61317-06-13 18:43 G	24116798.10	24116798.28	24116798.46	0.0140	0.0026
Venus	61317-07-11 02:38 G	24116825.45	24116825.61	24116825.77	0.0140	0.0095
Mercury	61317-09-10 01:55 G	24116886.40	24116886.58	24116886.77	0.0140	0.0004
Mercury	61317-12-07 09:07 G	24116974.71	24116974.88	24116975.07	0.0140	0.0033
Venus	61318-02-22 11:46 G	24117051.80	24117051.99	24117052.20	0.0140	0.0060
Mercury	61318-03-05 16:19 G	24117063.02	24117063.18	24117063.36	0.0140	0.0062
Mercury	61318-06-01 23:46 G	24117151.36	24117151.49	24117151.64	0.0140	0.0091
Mercury	61318-08-29 06:58 G	24117239.71	24117239.79	24117239.90	0.0140	0.0121
Venus	61318-10-06 21:07 G	24117278.17	24117278.38	24117278.59	0.0140	0.0024
Venus	61319-05-21 06:00 G	24117504.53	24117504.75	24117504.97	0.0140	0.0011
Venus	61320-01-02 14:38 G	24117730.91	24117731.11	24117731.32	0.0139	0.0046
Venus	61320-08-15 23:31 G	24117957.31	24117957.48	24117957.66	0.0139	0.0080
Venus	61321-03-30 07:41 G	24118183.72	24118183.82	24118183.97	0.0139	0.0115
Moon	61323-11-29 05:46 G	24119157.60	24119157.74	24119157.91	0.0138	0.0111
Earth	61323-11-29 08:24 G	24119157.71	24119157.85	24119157.99	0.0138	0.0114 *
Earth	61324-12-02 21:36 G	24119527.18	24119527.40	24119527.63	0.0138	0.0060
Moon	61324-12-02 23:02 G	24119527.24	24119527.46	24119527.69	0.0138	0.0058 *
Moon	61325-12-07 08:53 G	24119896.62	24119896.87	24119897.14	0.0137	0.0010
Earth	61325-12-07 10:34 G	24119896.68	24119896.94	24119897.19	0.0137	0.0005 *
Earth	61326-12-11 22:05 G	24120266.20	24120266.42	24120266.67	0.0137	0.0049
Moon	61326-12-11 23:17 G	24120266.26	24120266.47	24120266.71	0.0137	0.0055 *
Moon	61327-12-16 09:07 G	24120635.69	24120635.88	24120636.07	0.0137	0.0094
Earth	61327-12-16 09:22 G	24120635.74	24120635.89	24120636.07	0.0137	0.0102 *
Mercury	61359-12-24 07:26 G	24132331.78	24132331.81	24132331.87	0.0137	0.0130
Mercury	61360-03-21 11:17 G	24132419.89	24132419.97	24132420.06	0.0137	0.0108
Mercury	61360-06-17 14:53 G	24132508.02	24132508.12	24132508.23	0.0137	0.0088
Mercury	61360-09-13 18:14 G	24132596.15	24132596.26	24132596.39	0.0138	0.0068
Venus	61360-11-21 14:53 G	24132665.03	24132665.12	24132665.25	0.0138	0.0117

Mercury	61360-12-10 21:50 G	24132684.29	24132684.41	24132684.54	0.0138	0.0047
Mercury	61361-03-09 01:26 G	24132772.43	24132772.56	24132772.69	0.0138	0.0027
Mercury	61361-06-05 05:02 G	24132860.57	24132860.71	24132860.84	0.0138	0.0007
Venus	61361-07-05 23:02 G	24132891.30	24132891.46	24132891.65	0.0138	0.0084
Mercury	61361-09-01 08:24 G	24132948.72	24132948.85	24132948.99	0.0138	0.0014
Mercury	61361-11-28 11:46 G	24133036.86	24133036.99	24133037.13	0.0138	0.0035
Venus	61362-02-17 07:26 G	24133117.61	24133117.81	24133118.02	0.0138	0.0050
Mercury	61362-02-24 15:22 G	24133125.02	24133125.14	24133125.26	0.0138	0.0054
Mercury	61362-05-23 18:43 G	24133213.17	24133213.28	24133213.40	0.0138	0.0075
Mercury	61362-08-19 22:05 G	24133301.33	24133301.42	24133301.52	0.0138	0.0095
Venus	61362-10-01 15:50 G	24133343.95	24133344.16	24133344.38	0.0138	0.0016
Mercury	61362-11-16 01:26 G	24133389.50	24133389.56	24133389.64	0.0138	0.0115
Mercury	61363-02-12 05:02 G	24133477.68	24133477.71	24133477.74	0.0138	0.0135
Venus	61363-05-16 00:14 G	24133570.29	24133570.51	24133570.73	0.0138	0.0018
Venus	61363-12-28 08:38 G	24133796.66	24133796.86	24133797.07	0.0139	0.0053
Venus	61364-08-10 17:17 G	24134023.06	24134023.22	24134023.40	0.0139	0.0087
Venus	61365-03-25 02:24 G	24134249.50	24134249.60	24134249.70	0.0139	0.0122
Earth	61367-05-26 08:24 G	24135041.80	24135041.85	24135041.93	0.0140	0.0135
Earth	61368-05-30 02:10 G	24135411.40	24135411.59	24135411.82	0.0140	0.0079
Moon	61368-05-30 05:46 G	24135411.54	24135411.74	24135411.97	0.0140	0.0071 *
Moon	61369-06-03 18:00 G	24135781.01	24135781.25	24135781.51	0.0141	0.0027
Earth	61369-06-03 21:22 G	24135781.14	24135781.39	24135781.64	0.0141	0.0020 *
Earth	61370-06-08 16:34 G	24136150.95	24136151.19	24136151.44	0.0141	0.0040
Moon	61370-06-08 19:41 G	24136151.08	24136151.32	24136151.56	0.0141	0.0042 *
Moon	61371-06-13 10:05 G	24136520.75	24136520.92	24136521.12	0.0141	0.0099
Earth	61371-06-13 12:43 G	24136520.87	24136521.03	24136521.23	0.0141	0.0100 *
Mars	61384-08-13 22:19 G	24141331.18	24141331.43	24141331.69	0.0144	0.0063
Mercury	61400-07-16 20:53 G	24147146.33	24147146.37	24147146.44	0.0141	0.0134
Mercury	61400-10-13 04:19 G	24147234.56	24147234.68	24147234.80	0.0141	0.0105
Mercury	61401-01-09 11:17 G	24147322.83	24147322.97	24147323.13	0.0140	0.0076

Venus	61401-03-11 10:05 G	24147383.80	24147383.92	24147384.06	0.0140	0.0111
Mercury	61401-04-07 18:29 G	24147411.10	24147411.27	24147411.45	0.0140	0.0047
Mercury	61401-07-05 01:55 G	24147499.39	24147499.58	24147499.76	0.0140	0.0018
Mercury	61401-10-01 09:07 G	24147587.69	24147587.88	24147588.06	0.0140	0.0011
Venus	61401-10-23 19:26 G	24147610.14	24147610.31	24147610.50	0.0140	0.0075
Mercury	61401-12-28 16:19 G	24147676.00	24147676.18	24147676.36	0.0140	0.0040
Mercury	61402-03-26 23:46 G	24147764.32	24147764.49	24147764.65	0.0140	0.0070
Venus	61402-06-07 04:34 G	24147836.49	24147836.69	24147836.91	0.0140	0.0040
Mercury	61402-06-23 06:43 G	24147852.66	24147852.78	24147852.92	0.0140	0.0099
Mercury	61402-09-19 14:24 G	24147941.03	24147941.10	24147941.17	0.0140	0.0128
Venus	61403-01-19 13:55 G	24148062.86	24148063.08	24148063.30	0.0140	0.0005
Venus	61403-09-02 22:48 G	24148289.24	24148289.45	24148289.67	0.0139	0.0031
Venus	61404-04-16 07:26 G	24148515.63	24148515.81	24148516.01	0.0139	0.0066
Venus	61404-11-28 16:19 G	24148742.03	24148742.18	24148742.33	0.0139	0.0099
Venus	61405-07-13 00:43 G	24148968.48	24148968.53	24148968.59	0.0139	0.0133
Moon	61407-11-30 15:50 G	24149839.02	24149839.16	24149839.32	0.0138	0.0112
Earth	61407-11-30 17:46 G	24149839.11	24149839.24	24149839.41	0.0138	0.0110 *
Earth	61408-12-04 07:41 G	24150208.59	24150208.82	24150209.05	0.0138	0.0055
Moon	61408-12-04 09:50 G	24150208.69	24150208.91	24150209.14	0.0138	0.0056 *
Moon	61409-12-08 18:29 G	24150578.01	24150578.27	24150578.53	0.0137	0.0003
Earth	61409-12-08 20:24 G	24150578.10	24150578.35	24150578.60	0.0137	0.0001 *
Earth	61410-12-13 08:10 G	24150947.61	24150947.84	24150948.08	0.0137	0.0053
Moon	61410-12-13 09:50 G	24150947.68	24150947.91	24150948.14	0.0137	0.0046 *
Moon	61411-12-17 17:17 G	24151317.09	24151317.22	24151317.39	0.0137	0.0113
Earth	61411-12-17 19:12 G	24151317.16	24151317.30	24151317.47	0.0137	0.0106 *
Mars	61426-11-28 16:19 G	24156776.86	24156777.18	24156777.52	0.0134	0.0025
Mercury	61444-01-14 14:53 G	24163033.07	24163033.12	24163033.18	0.0137	0.0123
Mercury	61444-04-11 18:29 G	24163121.18	24163121.27	24163121.36	0.0137	0.0103
Mercury	61444-07-08 22:05 G	24163209.31	24163209.42	24163209.53	0.0137	0.0082
Venus	61444-07-22 23:46 G	24163223.43	24163223.49	24163223.56	0.0137	0.0131

Mercury	61444-10-05 01:41 G	24163297.45	24163297.57	24163297.69	0.0138	0.0062
Mercury	61445-01-01 05:02 G	24163385.59	24163385.71	24163385.85	0.0138	0.0042
Venus	61445-03-06 07:41 G	24163449.68	24163449.82	24163449.98	0.0138	0.0098
Mercury	61445-03-30 08:38 G	24163473.73	24163473.86	24163474.00	0.0138	0.0021
Mercury	61445-06-26 12:14 G	24163561.87	24163562.01	24163562.14	0.0138	0.0003
Mercury	61445-09-22 15:36 G	24163650.02	24163650.15	24163650.29	0.0138	0.0020
Venus	61445-10-18 15:36 G	24163675.97	24163676.15	24163676.36	0.0138	0.0065
Mercury	61445-12-19 18:58 G	24163738.17	24163738.29	24163738.43	0.0138	0.0040
Mercury	61446-03-17 22:34 G	24163826.32	24163826.44	24163826.56	0.0138	0.0060
Venus	61446-06-02 00:00 G	24163902.29	24163902.50	24163902.72	0.0138	0.0031
Mercury	61446-06-14 01:55 G	24163914.47	24163914.58	24163914.69	0.0138	0.0080
Mercury	61446-09-10 05:17 G	24164002.64	24164002.72	24164002.82	0.0138	0.0100
Mercury	61446-12-07 08:38 G	24164090.81	24164090.86	24164090.93	0.0138	0.0121
Venus	61447-01-14 08:24 G	24164128.63	24164128.85	24164129.07	0.0138	0.0004
Venus	61447-08-28 16:48 G	24164355.00	24164355.20	24164355.41	0.0139	0.0038
Venus	61448-04-11 01:26 G	24164581.38	24164581.56	24164581.75	0.0139	0.0072
Venus	61448-11-23 09:50 G	24164807.79	24164807.91	24164808.06	0.0139	0.0107
Moon	61451-05-27 14:38 G	24165723.01	24165723.11	24165723.23	0.0140	0.0125
Earth	61451-05-27 18:00 G	24165723.19	24165723.25	24165723.36	0.0140	0.0131 *
Earth	61452-05-31 12:14 G	24166092.80	24166093.01	24166093.24	0.0140	0.0074
Moon	61452-05-31 15:36 G	24166092.96	24166093.15	24166093.37	0.0140	0.0081 *
Moon	61453-06-05 03:22 G	24166462.39	24166462.64	24166462.90	0.0141	0.0009
Earth	61453-06-05 06:58 G	24166462.54	24166462.79	24166463.05	0.0141	0.0016 *
Earth	61454-06-10 02:24 G	24166832.37	24166832.60	24166832.85	0.0141	0.0044
Moon	61454-06-10 05:46 G	24166832.50	24166832.74	24166832.99	0.0141	0.0039 *
Moon	61455-06-14 19:55 G	24167202.16	24167202.33	24167202.52	0.0141	0.0103
Earth	61455-06-14 22:48 G	24167202.29	24167202.45	24167202.64	0.0141	0.0104 *
Mars	61469-04-09 19:12 G	24172250.19	24172250.30	24172250.45	0.0144	0.0128
Mercury	61484-08-06 04:19 G	24177847.61	24177847.68	24177847.77	0.0141	0.0126
Mercury	61484-11-02 11:31 G	24177935.85	24177935.98	24177936.12	0.0141	0.0097

Venus	61484-11-08 18:00 G	24177942.16	24177942.25	24177942.35	0.0141	0.0126
Mercury	61485-01-29 18:29 G	24178024.12	24178024.27	24178024.44	0.0140	0.0069
Mercury	61485-04-28 01:41 G	24178112.40	24178112.57	24178112.76	0.0140	0.0040
Venus	61485-06-23 03:22 G	24178168.48	24178168.64	24178168.81	0.0140	0.0091
Mercury	61485-07-25 09:07 G	24178200.70	24178200.88	24178201.06	0.0140	0.0010
Mercury	61485-10-21 16:19 G	24178289.00	24178289.18	24178289.36	0.0140	0.0019
Mercury	61486-01-17 23:31 G	24178377.31	24178377.48	24178377.66	0.0140	0.0048
Venus	61486-02-04 12:43 G	24178394.84	24178395.03	24178395.24	0.0140	0.0055
Mercury	61486-04-16 06:58 G	24178465.63	24178465.79	24178465.94	0.0140	0.0077
Mercury	61486-07-13 13:55 G	24178553.97	24178554.08	24178554.21	0.0140	0.0107
Venus	61486-09-18 22:05 G	24178621.21	24178621.42	24178621.64	0.0140	0.0020
Mercury	61486-10-09 21:36 G	24178642.36	24178642.40	24178642.44	0.0140	0.0136
Venus	61487-05-03 06:58 G	24178847.58	24178847.79	24178848.01	0.0140	0.0016
Venus	61487-12-15 15:50 G	24179073.96	24179074.16	24179074.37	0.0139	0.0050
Venus	61488-07-29 00:14 G	24179300.36	24179300.51	24179300.70	0.0139	0.0086
Venus	61489-03-12 08:53 G	24179526.77	24179526.87	24179526.99	0.0139	0.0119
Moon	61491-12-01 00:43 G	24180520.37	24180520.53	24180520.72	0.0138	0.0101
Earth	61491-12-01 03:50 G	24180520.52	24180520.66	24180520.84	0.0138	0.0106 *
Earth	61492-12-04 17:46 G	24180890.00	24180890.24	24180890.47	0.0138	0.0051
Moon	61492-12-04 19:55 G	24180890.11	24180890.33	24180890.57	0.0138	0.0051 *
Moon	61493-12-09 03:50 G	24181259.40	24181259.66	24181259.92	0.0137	0.0001
Earth	61493-12-09 06:29 G	24181259.52	24181259.77	24181260.03	0.0137	0.0003 *
Earth	61494-12-13 18:00 G	24181629.03	24181629.25	24181629.49	0.0137	0.0057
Moon	61494-12-13 20:38 G	24181629.14	24181629.36	24181629.58	0.0137	0.0062 *
Moon	61495-12-18 03:36 G	24181998.49	24181998.65	24181998.83	0.0137	0.0102
Earth	61495-12-18 05:17 G	24181998.59	24181998.72	24181998.89	0.0137	0.0110 *
Mercury	61528-02-04 21:50 G	24193734.35	24193734.41	24193734.49	0.0137	0.0119
Mercury	61528-05-03 01:41 G	24193822.47	24193822.57	24193822.66	0.0137	0.0098
Mercury	61528-07-30 05:02 G	24193910.60	24193910.71	24193910.83	0.0138	0.0078
Mercury	61528-10-26 08:38 G	24193998.74	24193998.86	24193998.99	0.0138	0.0057

Venus	61528-11-04 15:36 G	24194008.04	24194008.15	24194008.29	0.0138	0.0113
Mercury	61529-01-22 12:14 G	24194086.88	24194087.01	24194087.14	0.0138	0.0037
Mercury	61529-04-20 15:50 G	24194175.02	24194175.16	24194175.29	0.0138	0.0016
Venus	61529-06-18 23:46 G	24194234.31	24194234.49	24194234.67	0.0138	0.0079
Mercury	61529-07-17 19:12 G	24194263.17	24194263.30	24194263.44	0.0138	0.0005
Mercury	61529-10-13 22:34 G	24194351.31	24194351.44	24194351.58	0.0138	0.0025
Mercury	61530-01-10 02:10 G	24194439.46	24194439.59	24194439.72	0.0138	0.0045
Venus	61530-01-31 07:55 G	24194460.63	24194460.83	24194461.04	0.0138	0.0046
Mercury	61530-04-08 05:31 G	24194527.62	24194527.73	24194527.85	0.0138	0.0065
Mercury	61530-07-05 08:53 G	24194615.77	24194615.87	24194615.98	0.0138	0.0085
Venus	61530-09-14 16:05 G	24194686.96	24194687.17	24194687.39	0.0138	0.0012
Mercury	61530-10-01 12:14 G	24194703.94	24194704.01	24194704.11	0.0138	0.0106
Mercury	61530-12-28 15:36 G	24194792.11	24194792.15	24194792.22	0.0138	0.0126
Venus	61531-04-29 00:29 G	24194913.31	24194913.52	24194913.74	0.0139	0.0023
Venus	61531-12-11 08:53 G	24195139.67	24195139.87	24195140.07	0.0139	0.0057
Venus	61532-07-24 17:31 G	24195366.07	24195366.23	24195366.40	0.0139	0.0091
Venus	61533-03-08 02:10 G	24195592.51	24195592.59	24195592.69	0.0139	0.0126
Moon	61535-05-28 23:46 G	24196404.43	24196404.49	24196404.59	0.0140	0.0133
Earth	61535-05-29 03:22 G	24196404.55	24196404.64	24196404.76	0.0140	0.0127 *
Earth	61536-06-01 21:07 G	24196774.18	24196774.38	24196774.62	0.0140	0.0071
Moon	61536-06-02 00:58 G	24196774.33	24196774.54	24196774.79	0.0140	0.0063 *
Moon	61537-06-06 12:58 G	24197143.79	24197144.04	24197144.29	0.0141	0.0019
Earth	61537-06-06 16:19 G	24197143.93	24197144.18	24197144.44	0.0141	0.0012 *
Earth	61538-06-11 12:00 G	24197513.76	24197514.00	24197514.24	0.0141	0.0048
Moon	61538-06-11 15:22 G	24197513.92	24197514.14	24197514.39	0.0141	0.0052 *
Moon	61539-06-16 04:48 G	24197883.54	24197883.70	24197883.89	0.0141	0.0106
Earth	61539-06-16 08:10 G	24197883.70	24197883.84	24197884.03	0.0141	0.0108 *
Venus	61568-07-10 02:53 G	24208500.62	24208500.62	24208500.62	0.0141	0.0141
Mercury	61568-08-27 12:00 G	24208548.91	24208549.00	24208549.11	0.0141	0.0116
Mercury	61568-11-23 18:58 G	24208637.16	24208637.29	24208637.45	0.0141	0.0088

Mercury	61569-02-20 02:24 G	24208725.44	24208725.60	24208725.77	0.0140	0.0058
Venus	61569-02-21 12:00 G	24208726.87	24208727.00	24208727.16	0.0140	0.0105
Mercury	61569-05-19 09:36 G	24208813.72	24208813.90	24208814.08	0.0140	0.0029
Mercury	61569-08-15 16:48 G	24208902.02	24208902.20	24208902.38	0.0140	0.0001
Venus	61569-10-05 21:36 G	24208953.22	24208953.40	24208953.59	0.0140	0.0070
Mercury	61569-11-12 00:00 G	24208990.32	24208990.50	24208990.68	0.0140	0.0029
Mercury	61570-02-08 07:12 G	24209078.63	24209078.80	24209078.97	0.0140	0.0058
Mercury	61570-05-07 14:24 G	24209166.96	24209167.10	24209167.25	0.0140	0.0087
Venus	61570-05-20 06:43 G	24209179.58	24209179.78	24209180.00	0.0140	0.0034
Mercury	61570-08-03 21:50 G	24209255.31	24209255.41	24209255.51	0.0140	0.0116
Venus	61571-01-01 15:50 G	24209405.95	24209406.16	24209406.38	0.0140	0.0003
Venus	61571-08-16 00:43 G	24209632.33	24209632.53	24209632.75	0.0140	0.0037
Venus	61572-03-29 09:22 G	24209858.72	24209858.89	24209859.09	0.0139	0.0072
Venus	61572-11-10 18:00 G	24210085.12	24210085.25	24210085.40	0.0139	0.0106
Moon	61575-12-02 12:00 G	24211201.86	24211202.00	24211202.19	0.0138	0.0105
Earth	61575-12-02 15:22 G	24211201.98	24211202.14	24211202.32	0.0138	0.0101 *
Earth	61576-12-06 04:48 G	24211571.47	24211571.70	24211571.94	0.0138	0.0047
Moon	61576-12-06 07:55 G	24211571.61	24211571.83	24211572.07	0.0138	0.0046 *
Moon	61577-12-10 14:38 G	24211940.85	24211941.11	24211941.37	0.0137	0.0010
Earth	61577-12-10 17:31 G	24211940.98	24211941.23	24211941.49	0.0137	0.0008 *
Earth	61578-12-15 05:17 G	24212310.50	24212310.72	24212310.96	0.0137	0.0061
Moon	61578-12-15 07:55 G	24212310.61	24212310.83	24212311.07	0.0137	0.0055 *
Moon	61579-12-19 13:26 G	24212679.96	24212680.06	24212680.21	0.0137	0.0121
Earth	61579-12-19 16:34 G	24212680.06	24212680.19	24212680.34	0.0137	0.0114 *
Mars	61594-04-16 14:10 G	24217911.90	24217912.09	24217912.34	0.0134	0.0101
Mercury	61611-11-29 01:41 G	24224347.54	24224347.57	24224347.60	0.0137	0.0133
Mercury	61612-02-25 05:02 G	24224435.64	24224435.71	24224435.80	0.0137	0.0113
Mercury	61612-05-23 08:53 G	24224523.77	24224523.87	24224523.97	0.0137	0.0092
Venus	61612-07-05 00:14 G	24224566.44	24224566.51	24224566.61	0.0138	0.0127
Mercury	61612-08-19 12:14 G	24224611.90	24224612.01	24224612.14	0.0138	0.0072

Mercury	61612-11-15 16:05 G	24224700.04	24224700.17	24224700.29	0.0138	0.0051
Mercury	61613-02-11 19:26 G	24224788.18	24224788.31	24224788.45	0.0138	0.0031
Venus	61613-02-16 08:10 G	24224792.70	24224792.84	24224793.02	0.0138	0.0094
Mercury	61613-05-10 23:02 G	24224876.32	24224876.46	24224876.59	0.0138	0.0010
Mercury	61613-08-07 02:24 G	24224964.47	24224964.60	24224964.74	0.0138	0.0011
Venus	61613-09-30 16:19 G	24225018.99	24225019.18	24225019.39	0.0138	0.0060
Mercury	61613-11-03 06:00 G	24225052.62	24225052.75	24225052.88	0.0138	0.0030
Mercury	61614-01-30 09:22 G	24225140.77	24225140.89	24225141.02	0.0138	0.0051
Mercury	61614-04-28 12:43 G	24225228.92	24225229.03	24225229.15	0.0138	0.0071
Venus	61614-05-15 00:29 G	24225245.31	24225245.52	24225245.74	0.0138	0.0026
Mercury	61614-07-25 16:19 G	24225317.08	24225317.18	24225317.28	0.0138	0.0091
Mercury	61614-10-21 19:41 G	24225405.24	24225405.32	24225405.40	0.0138	0.0111
Venus	61614-12-27 08:53 G	24225471.65	24225471.87	24225472.09	0.0138	0.0008
Mercury	61615-01-17 23:02 G	24225493.42	24225493.46	24225493.51	0.0138	0.0131
Venus	61615-08-10 17:02 G	24225698.01	24225698.21	24225698.43	0.0139	0.0042
Venus	61616-03-24 01:41 G	24225924.40	24225924.57	24225924.76	0.0139	0.0077
Venus	61616-11-05 10:19 G	24226150.81	24226150.93	24226151.07	0.0139	0.0111
Moon	61619-05-29 10:19 G	24227085.81	24227085.93	24227086.08	0.0140	0.0118
Earth	61619-05-29 13:55 G	24227085.96	24227086.08	24227086.20	0.0140	0.0123 *
Earth	61620-06-02 07:41 G	24227455.60	24227455.82	24227456.05	0.0140	0.0065
Moon	61620-06-02 11:02 G	24227455.75	24227455.96	24227456.19	0.0140	0.0073 *
Moon	61621-06-06 23:02 G	24227825.20	24227825.46	24227825.71	0.0141	0.0002
Earth	61621-06-07 02:38 G	24227825.36	24227825.61	24227825.87	0.0141	0.0008 *
Earth	61622-06-11 22:19 G	24228195.20	24228195.43	24228195.67	0.0141	0.0052
Moon	61622-06-12 01:55 G	24228195.34	24228195.58	24228195.82	0.0141	0.0046 *
Moon	61623-06-16 15:36 G	24228564.99	24228565.15	24228565.31	0.0141	0.0112
Earth	61623-06-16 18:43 G	24228565.14	24228565.28	24228565.45	0.0141	0.0112 *
Mars	61636-08-28 09:36 G	24233386.62	24233386.90	24233387.19	0.0144	0.0005
Mercury	61652-06-20 12:29 G	24239161.99	24239162.02	24239162.09	0.0141	0.0135
Mercury	61652-09-16 19:55 G	24239250.21	24239250.33	24239250.45	0.0141	0.0106

Venus	61652-10-21 20:38 G	24239285.27	24239285.36	24239285.49	0.0141	0.0121
Mercury	61652-12-14 02:53 G	24239338.47	24239338.62	24239338.78	0.0141	0.0077
Mercury	61653-03-12 10:05 G	24239426.75	24239426.92	24239427.09	0.0140	0.0049
Venus	61653-06-05 06:14 G	24239511.60	24239511.76	24239511.94	0.0140	0.0085
Mercury	61653-06-08 17:17 G	24239515.04	24239515.22	24239515.40	0.0140	0.0020
Mercury	61653-09-05 00:29 G	24239603.34	24239603.52	24239603.70	0.0140	0.0009
Mercury	61653-12-02 07:41 G	24239691.64	24239691.82	24239692.00	0.0140	0.0039
Venus	61654-01-17 15:36 G	24239737.95	24239738.15	24239738.36	0.0140	0.0049
Mercury	61654-02-28 14:38 G	24239779.96	24239780.11	24239780.29	0.0140	0.0068
Mercury	61654-05-27 22:05 G	24239868.30	24239868.42	24239868.56	0.0140	0.0097
Mercury	61654-08-24 05:31 G	24239956.66	24239956.73	24239956.81	0.0140	0.0126
Venus	61654-09-01 00:58 G	24239964.33	24239964.54	24239964.76	0.0140	0.0014
Venus	61655-04-15 10:05 G	24240190.70	24240190.92	24240191.13	0.0140	0.0022
Venus	61655-11-27 18:43 G	24240417.08	24240417.28	24240417.48	0.0139	0.0057
Venus	61656-07-11 03:07 G	24240643.48	24240643.63	24240643.80	0.0139	0.0091
Venus	61657-02-22 11:46 G	24240869.90	24240869.99	24240870.09	0.0139	0.0125
Moon	61659-12-02 23:17 G	24241883.29	24241883.47	24241883.68	0.0138	0.0090
Earth	61659-12-03 02:53 G	24241883.45	24241883.62	24241883.82	0.0138	0.0096 *
Earth	61660-12-06 16:19 G	24242252.95	24242253.18	24242253.43	0.0138	0.0042
Moon	61660-12-06 19:41 G	24242253.08	24242253.32	24242253.56	0.0138	0.0042 *
Moon	61661-12-11 01:55 G	24242622.32	24242622.58	24242622.84	0.0137	0.0010
Earth	61661-12-11 05:17 G	24242622.47	24242622.72	24242622.98	0.0137	0.0013 *
Earth	61662-12-15 16:48 G	24242991.99	24242992.20	24242992.44	0.0137	0.0066
Moon	61662-12-15 19:55 G	24242992.13	24242992.33	24242992.55	0.0137	0.0071 *
Moon	61663-12-20 01:26 G	24243361.42	24243361.56	24243361.72	0.0137	0.0111
Earth	61663-12-20 04:05 G	24243361.57	24243361.67	24243361.82	0.0137	0.0119 *
Mars	61678-12-11 01:55 G	24248831.34	24248831.58	24248831.86	0.0134	0.0083
Mercury	61695-12-19 08:38 G	24255048.82	24255048.86	24255048.91	0.0137	0.0128
Mercury	61696-03-16 12:14 G	24255136.93	24255137.01	24255137.10	0.0137	0.0107
Mercury	61696-06-12 15:50 G	24255225.06	24255225.16	24255225.27	0.0137	0.0087

Mercury	61696-09-08 19:26 G	24255313.19	24255313.31	24255313.43	0.0138	0.0066
Venus	61696-10-16 16:19 G	24255351.05	24255351.18	24255351.32	0.0138	0.0109
Mercury	61696-12-05 23:02 G	24255401.33	24255401.46	24255401.59	0.0138	0.0046
Mercury	61697-03-04 02:24 G	24255489.47	24255489.60	24255489.74	0.0138	0.0026
Venus	61697-05-31 00:00 G	24255577.33	24255577.50	24255577.69	0.0138	0.0076
Mercury	61697-05-31 06:00 G	24255577.61	24255577.75	24255577.89	0.0138	0.0005 *
Mercury	61697-08-27 09:22 G	24255665.76	24255665.89	24255666.03	0.0138	0.0016
Mercury	61697-11-23 12:58 G	24255753.91	24255754.04	24255754.17	0.0138	0.0035
Venus	61698-01-12 08:10 G	24255803.64	24255803.84	24255804.05	0.0138	0.0042
Mercury	61698-02-19 16:19 G	24255842.06	24255842.18	24255842.31	0.0138	0.0056
Mercury	61698-05-18 19:55 G	24255930.22	24255930.33	24255930.44	0.0138	0.0075
Mercury	61698-08-14 23:17 G	24256018.38	24256018.47	24256018.57	0.0138	0.0095
Venus	61698-08-26 16:19 G	24256029.97	24256030.18	24256030.40	0.0138	0.0009
Mercury	61698-11-11 02:38 G	24256106.54	24256106.61	24256106.69	0.0138	0.0116
Mercury	61699-02-07 06:00 G	24256194.73	24256194.75	24256194.78	0.0138	0.0136
Venus	61699-04-10 00:43 G	24256256.32	24256256.53	24256256.75	0.0139	0.0027
Venus	61699-11-22 09:07 G	24256482.69	24256482.88	24256483.08	0.0139	0.0061
Venus	61700-07-06 17:46 G	24256709.08	24256709.24	24256709.40	0.0139	0.0095
Venus	61701-02-18 02:10 G	24256935.53	24256935.59	24256935.68	0.0139	0.0131
Moon	61703-05-30 19:26 G	24257767.21	24257767.31	24257767.45	0.0140	0.0123
Earth	61703-05-30 22:48 G	24257767.32	24257767.45	24257767.59	0.0140	0.0118 *
Earth	61704-06-03 16:34 G	24258136.97	24258137.19	24258137.43	0.0140	0.0062
Moon	61704-06-03 20:24 G	24258137.11	24258137.35	24258137.59	0.0140	0.0054 *
Moon	61705-06-08 08:38 G	24258506.61	24258506.86	24258507.11	0.0141	0.0011
Earth	61705-06-08 12:00 G	24258506.74	24258507.00	24258507.25	0.0141	0.0003 *
Earth	61706-06-13 07:41 G	24258876.59	24258876.82	24258877.06	0.0141	0.0056
Moon	61706-06-13 11:17 G	24258876.75	24258876.97	24258877.21	0.0141	0.0061 *
Moon	61707-06-18 00:29 G	24259246.37	24259246.52	24259246.68	0.0142	0.0112
Earth	61707-06-18 04:19 G	24259246.53	24259246.68	24259246.83	0.0142	0.0115 *
Venus	61736-06-22 05:31 G	24269843.69	24269843.73	24269843.80	0.0141	0.0136

Mercury	61736-07-11 20:10 G	24269863.28	24269863.34	24269863.44	0.0141	0.0125
Mercury	61736-10-08 03:36 G	24269951.52	24269951.65	24269951.78	0.0141	0.0096
Mercury	61737-01-04 10:34 G	24270039.79	24270039.94	24270040.11	0.0141	0.0067
Venus	61737-02-03 15:22 G	24270069.99	24270070.14	24270070.29	0.0141	0.0100
Mercury	61737-04-02 17:46 G	24270128.07	24270128.24	24270128.42	0.0140	0.0038
Mercury	61737-06-30 00:58 G	24270216.36	24270216.54	24270216.73	0.0140	0.0010
Venus	61737-09-18 00:43 G	24270296.34	24270296.53	24270296.73	0.0140	0.0064
Mercury	61737-09-26 08:10 G	24270304.66	24270304.84	24270305.03	0.0140	0.0020
Mercury	61737-12-23 15:22 G	24270392.97	24270393.14	24270393.32	0.0140	0.0049
Mercury	61738-03-21 22:34 G	24270481.29	24270481.44	24270481.60	0.0140	0.0078
Venus	61738-05-02 10:05 G	24270522.71	24270522.92	24270523.13	0.0140	0.0028
Mercury	61738-06-18 06:00 G	24270569.63	24270569.75	24270569.87	0.0140	0.0107
Mercury	61738-09-14 12:58 G	24270658.02	24270658.04	24270658.10	0.0140	0.0137
Venus	61738-12-14 18:58 G	24270749.08	24270749.29	24270749.51	0.0140	0.0008
Venus	61739-07-29 03:50 G	24270975.46	24270975.66	24270975.88	0.0140	0.0042
Venus	61740-03-11 12:29 G	24271201.85	24271202.02	24271202.21	0.0139	0.0077
Venus	61740-10-23 21:07 G	24271428.26	24271428.38	24271428.52	0.0139	0.0111
Moon	61742-11-30 04:48 G	24272195.67	24272195.70	24272195.73	0.0138	0.0137
Moon	61743-12-04 12:00 G	24272564.81	24272565.00	24272565.18	0.0138	0.0094
Earth	61743-12-04 15:07 G	24272564.95	24272565.13	24272565.34	0.0138	0.0090 *
Earth	61744-12-08 04:48 G	24272934.46	24272934.70	24272934.95	0.0138	0.0036
Moon	61744-12-08 08:24 G	24272934.61	24272934.85	24272935.10	0.0138	0.0034 *
Moon	61745-12-12 14:10 G	24273303.84	24273304.09	24273304.34	0.0137	0.0020
Earth	61745-12-12 17:31 G	24273303.98	24273304.23	24273304.48	0.0137	0.0018 *
Earth	61746-12-17 05:17 G	24273673.52	24273673.72	24273673.95	0.0137	0.0072
Moon	61746-12-17 08:38 G	24273673.65	24273673.86	24273674.09	0.0137	0.0066 *
Moon	61747-12-21 13:26 G	24274042.99	24274043.06	24274043.15	0.0137	0.0130
Earth	61747-12-21 16:48 G	24274043.11	24274043.20	24274043.32	0.0137	0.0124 *
Mercury	61780-01-09 15:50 G	24285750.11	24285750.16	24285750.23	0.0137	0.0122
Mercury	61780-04-06 19:26 G	24285838.23	24285838.31	24285838.41	0.0137	0.0101

Venus	61780-06-17 00:43 G	24285909.46	24285909.53	24285909.64	0.0137	0.0124
Mercury	61780-07-03 23:02 G	24285926.36	24285926.46	24285926.58	0.0137	0.0081
Mercury	61780-09-30 02:38 G	24286014.49	24286014.61	24286014.74	0.0138	0.0060
Mercury	61780-12-27 06:14 G	24286102.63	24286102.76	24286102.89	0.0138	0.0040
Venus	61781-01-29 08:38 G	24286135.71	24286135.86	24286136.04	0.0138	0.0091
Mercury	61781-03-25 09:50 G	24286190.77	24286190.91	24286191.04	0.0138	0.0020
Mercury	61781-06-21 13:12 G	24286278.92	24286279.05	24286279.19	0.0138	0.0002
Venus	61781-09-12 16:48 G	24286362.01	24286362.20	24286362.41	0.0138	0.0057
Mercury	61781-09-17 16:48 G	24286367.06	24286367.20	24286367.33	0.0138	0.0021
Mercury	61781-12-14 20:10 G	24286455.21	24286455.34	24286455.47	0.0138	0.0041
Mercury	61782-03-12 23:31 G	24286543.37	24286543.48	24286543.61	0.0138	0.0062
Venus	61782-04-27 00:58 G	24286588.33	24286588.54	24286588.76	0.0138	0.0023
Mercury	61782-06-09 03:07 G	24286631.52	24286631.63	24286631.74	0.0138	0.0081
Mercury	61782-09-05 06:29 G	24286719.68	24286719.77	24286719.86	0.0138	0.0101
Mercury	61782-12-02 09:50 G	24286807.85	24286807.91	24286807.98	0.0138	0.0121
Venus	61782-12-09 09:07 G	24286814.66	24286814.88	24286815.10	0.0138	0.0011
Venus	61783-07-23 17:17 G	24287041.02	24287041.22	24287041.43	0.0139	0.0046
Venus	61784-03-06 01:55 G	24287267.41	24287267.58	24287267.76	0.0139	0.0080
Venus	61784-10-18 10:19 G	24287493.83	24287493.93	24287494.07	0.0139	0.0115
Moon	61787-05-31 06:14 G	24288448.63	24288448.76	24288448.94	0.0140	0.0110
Earth	61787-05-31 08:53 G	24288448.74	24288448.87	24288449.04	0.0140	0.0113 *
Earth	61788-06-04 03:22 G	24288818.41	24288818.64	24288818.88	0.0140	0.0056
Moon	61788-06-04 06:14 G	24288818.53	24288818.76	24288819.00	0.0140	0.0062 *
Moon	61789-06-08 19:12 G	24289188.05	24289188.30	24289188.55	0.0141	0.0010
Earth	61789-06-08 22:34 G	24289188.18	24289188.44	24289188.69	0.0141	0.0002 *
Earth	61790-06-13 18:00 G	24289558.03	24289558.25	24289558.49	0.0141	0.0061
Moon	61790-06-13 21:22 G	24289558.16	24289558.39	24289558.63	0.0141	0.0055 *
Moon	61791-06-18 11:02 G	24289927.84	24289927.96	24289928.09	0.0142	0.0122
Earth	61791-06-18 14:38 G	24289927.98	24289928.11	24289928.25	0.0142	0.0120 *
Mars	61804-01-17 22:19 G	24294523.37	24294523.43	24294523.49	0.0144	0.0141

Mercury	61820-08-02 04:05 G	24300564.57	24300564.67	24300564.77	0.0141	0.0115
Venus	61820-10-04 23:31 G	24300628.37	24300628.48	24300628.61	0.0141	0.0116
Mercury	61820-10-29 11:02 G	24300652.82	24300652.96	24300653.11	0.0141	0.0087
Mercury	61821-01-25 18:14 G	24300741.09	24300741.26	24300741.43	0.0141	0.0058
Mercury	61821-04-24 01:12 G	24300829.38	24300829.55	24300829.74	0.0140	0.0030
Venus	61821-05-19 09:07 G	24300854.71	24300854.88	24300855.06	0.0140	0.0080
Mercury	61821-07-21 08:38 G	24300917.67	24300917.86	24300918.04	0.0140	0.0003
Mercury	61821-10-17 15:36 G	24301005.97	24301006.15	24301006.34	0.0140	0.0029
Venus	61821-12-31 18:14 G	24301081.06	24301081.26	24301081.48	0.0140	0.0045
Mercury	61822-01-13 22:48 G	24301094.29	24301094.45	24301094.62	0.0140	0.0058
Mercury	61822-04-12 06:00 G	24301182.62	24301182.75	24301182.90	0.0140	0.0088
Mercury	61822-07-09 13:26 G	24301270.96	24301271.06	24301271.17	0.0140	0.0117
Venus	61822-08-15 03:50 G	24301307.44	24301307.66	24301307.87	0.0140	0.0008
Venus	61823-03-29 12:43 G	24301533.82	24301534.03	24301534.25	0.0140	0.0027
Venus	61823-11-10 21:36 G	24301760.20	24301760.40	24301760.59	0.0140	0.0062
Venus	61824-06-24 06:00 G	24301986.60	24301986.75	24301986.91	0.0139	0.0097
Venus	61825-02-05 14:10 G	24302213.04	24302213.09	24302213.18	0.0139	0.0131
Moon	61827-12-05 23:02 G	24303246.26	24303246.46	24303246.68	0.0138	0.0078
Earth	61827-12-06 02:38 G	24303246.43	24303246.61	24303246.83	0.0138	0.0084 *
Earth	61828-12-09 16:19 G	24303615.94	24303616.18	24303616.43	0.0138	0.0030
Moon	61828-12-09 19:41 G	24303616.08	24303616.32	24303616.58	0.0138	0.0032 *
Moon	61829-12-14 01:26 G	24303985.32	24303985.56	24303985.82	0.0137	0.0023
Earth	61829-12-14 05:17 G	24303985.48	24303985.72	24303985.98	0.0137	0.0024 *
Earth	61830-12-18 17:17 G	24304355.02	24304355.22	24304355.44	0.0137	0.0077
Moon	61830-12-18 20:53 G	24304355.17	24304355.37	24304355.57	0.0137	0.0081 *
Moon	61831-12-23 01:26 G	24304724.46	24304724.56	24304724.68	0.0137	0.0122
Earth	61831-12-23 04:34 G	24304724.63	24304724.69	24304724.79	0.0137	0.0130 *
Mars	61846-04-30 07:55 G	24309966.51	24309966.83	24309967.16	0.0134	0.0034
Mercury	61863-11-03 19:26 G	24316363.31	24316363.31	24316363.32	0.0137	0.0137
Mercury	61864-01-30 23:02 G	24316451.39	24316451.46	24316451.54	0.0137	0.0116

Mercury	61864-04-28 02:38 G	24316539.52	24316539.61	24316539.71	0.0137	0.0096
Mercury	61864-07-25 06:14 G	24316627.65	24316627.76	24316627.88	0.0137	0.0075
Venus	61864-09-29 16:48 G	24316694.08	24316694.20	24316694.36	0.0137	0.0106
Mercury	61864-10-21 09:36 G	24316715.78	24316715.90	24316716.03	0.0137	0.0056
Mercury	61865-01-17 13:26 G	24316803.92	24316804.06	24316804.19	0.0138	0.0035
Mercury	61865-04-15 16:48 G	24316892.07	24316892.20	24316892.34	0.0138	0.0015
Venus	61865-05-14 00:43 G	24316920.35	24316920.53	24316920.72	0.0138	0.0072
Mercury	61865-07-12 20:24 G	24316980.21	24316980.35	24316980.48	0.0138	0.0006
Mercury	61865-10-08 23:46 G	24317068.36	24317068.49	24317068.63	0.0138	0.0026
Venus	61865-12-26 08:53 G	24317146.66	24317146.87	24317147.08	0.0138	0.0038
Mercury	61866-01-05 03:22 G	24317156.51	24317156.64	24317156.76	0.0138	0.0046
Mercury	61866-04-03 06:43 G	24317244.66	24317244.78	24317244.90	0.0138	0.0066
Mercury	61866-06-30 10:05 G	24317332.82	24317332.92	24317333.03	0.0138	0.0086
Venus	61866-08-09 16:48 G	24317372.99	24317373.20	24317373.42	0.0138	0.0006
Mercury	61866-09-26 13:26 G	24317420.98	24317421.06	24317421.15	0.0138	0.0107
Mercury	61866-12-23 16:48 G	24317509.16	24317509.20	24317509.26	0.0138	0.0127
Venus	61867-03-24 01:12 G	24317599.34	24317599.55	24317599.77	0.0138	0.0030
Venus	61867-11-05 09:22 G	24317825.71	24317825.89	24317826.10	0.0139	0.0065
Venus	61868-06-18 17:46 G	24318052.11	24318052.24	24318052.41	0.0139	0.0099
Venus	61869-01-31 02:38 G	24318278.56	24318278.61	24318278.68	0.0139	0.0133
Moon	61871-06-01 16:19 G	24319130.04	24319130.18	24319130.34	0.0140	0.0111
Earth	61871-06-01 18:14 G	24319130.12	24319130.26	24319130.44	0.0140	0.0108 *
Earth	61872-06-05 12:29 G	24319499.80	24319500.02	24319500.27	0.0140	0.0051
Moon	61872-06-05 15:22 G	24319499.90	24319500.14	24319500.39	0.0140	0.0044 *
Moon	61873-06-10 05:17 G	24319869.47	24319869.72	24319869.97	0.0141	0.0001
Earth	61873-06-10 07:55 G	24319869.57	24319869.83	24319870.08	0.0141	0.0007 *
Earth	61874-06-15 03:22 G	24320239.42	24320239.64	24320239.87	0.0141	0.0065
Moon	61874-06-15 06:58 G	24320239.57	24320239.79	24320240.01	0.0141	0.0072 *
Moon	61875-06-19 20:24 G	24320609.23	24320609.35	24320609.49	0.0142	0.0120
Earth	61875-06-19 23:17 G	24320609.38	24320609.47	24320609.62	0.0142	0.0125 *

Mars	61888-09-11 21:07 G	24325442.12	24325442.38	24325442.66	0.0144	0.0051
Mercury	61904-05-27 04:34 G	24331177.64	24331177.69	24331177.75	0.0141	0.0134
Venus	61904-06-05 07:41 G	24331186.76	24331186.82	24331186.92	0.0141	0.0131
Mercury	61904-08-23 11:31 G	24331265.87	24331265.98	24331266.11	0.0141	0.0106
Mercury	61904-11-19 18:29 G	24331354.13	24331354.27	24331354.43	0.0141	0.0078
Venus	61905-01-17 17:31 G	24331413.08	24331413.23	24331413.40	0.0141	0.0095
Mercury	61905-02-16 01:41 G	24331442.40	24331442.57	24331442.75	0.0141	0.0049
Mercury	61905-05-15 08:53 G	24331530.69	24331530.87	24331531.05	0.0141	0.0020
Mercury	61905-08-11 16:05 G	24331618.99	24331619.17	24331619.36	0.0140	0.0009
Venus	61905-09-01 02:53 G	24331639.44	24331639.62	24331639.83	0.0140	0.0060
Mercury	61905-11-07 23:17 G	24331707.29	24331707.47	24331707.65	0.0140	0.0038
Mercury	61906-02-04 06:29 G	24331795.61	24331795.77	24331795.93	0.0140	0.0067
Venus	61906-04-15 12:29 G	24331865.81	24331866.02	24331866.24	0.0140	0.0023
Mercury	61906-05-03 13:26 G	24331883.94	24331884.06	24331884.21	0.0140	0.0097
Mercury	61906-07-30 20:53 G	24331972.30	24331972.37	24331972.46	0.0140	0.0126
Venus	61906-11-27 21:36 G	24332092.18	24332092.40	24332092.61	0.0140	0.0012
Venus	61907-07-12 06:14 G	24332318.56	24332318.76	24332318.97	0.0140	0.0047
Venus	61908-02-23 14:53 G	24332544.96	24332545.12	24332545.31	0.0139	0.0082
Venus	61908-10-06 23:46 G	24332771.38	24332771.49	24332771.61	0.0139	0.0117
Earth	61910-12-03 00:14 G	24333558.45	24333558.51	24333558.59	0.0138	0.0133
Moon	61910-12-03 03:36 G	24333558.55	24333558.65	24333558.76	0.0138	0.0125 *
Moon	61911-12-07 11:17 G	24333927.78	24333927.97	24333928.18	0.0138	0.0083
Earth	61911-12-07 14:38 G	24333927.91	24333928.11	24333928.33	0.0138	0.0078 *
Earth	61912-12-11 04:34 G	24334297.44	24334297.69	24334297.94	0.0138	0.0024
Moon	61912-12-11 08:10 G	24334297.59	24334297.84	24334298.10	0.0138	0.0021 *
Moon	61913-12-15 13:55 G	24334666.84	24334667.08	24334667.33	0.0137	0.0030
Earth	61913-12-15 17:17 G	24334666.98	24334667.22	24334667.47	0.0137	0.0030 *
Earth	61914-12-20 05:17 G	24335036.53	24335036.72	24335036.94	0.0137	0.0083
Moon	61914-12-20 08:53 G	24335036.68	24335036.87	24335037.10	0.0137	0.0078 *
Earth	61915-12-24 16:48 G	24335406.18	24335406.20	24335406.27	0.0137	0.0135

Mercury	61947-11-25 02:38 G	24347064.58	24347064.61	24347064.67	0.0137	0.0131
Mercury	61948-02-21 06:29 G	24347152.69	24347152.77	24347152.86	0.0137	0.0109
Mercury	61948-05-19 09:50 G	24347240.82	24347240.91	24347241.03	0.0137	0.0090
Venus	61948-05-31 02:10 G	24347252.50	24347252.59	24347252.71	0.0137	0.0119
Mercury	61948-08-15 13:41 G	24347328.95	24347329.07	24347329.19	0.0137	0.0069
Mercury	61948-11-11 17:17 G	24347417.09	24347417.22	24347417.35	0.0138	0.0048
Venus	61949-01-12 10:05 G	24347478.76	24347478.92	24347479.10	0.0138	0.0086
Mercury	61949-02-07 20:38 G	24347505.23	24347505.36	24347505.50	0.0138	0.0028
Mercury	61949-05-07 00:14 G	24347593.37	24347593.51	24347593.65	0.0138	0.0008
Mercury	61949-08-03 03:50 G	24347681.52	24347681.66	24347681.79	0.0138	0.0013
Venus	61949-08-26 17:46 G	24347705.05	24347705.24	24347705.46	0.0138	0.0053
Mercury	61949-10-30 07:12 G	24347769.67	24347769.80	24347769.93	0.0138	0.0033
Mercury	61950-01-26 10:34 G	24347857.82	24347857.94	24347858.07	0.0138	0.0053
Venus	61950-04-10 02:10 G	24347931.37	24347931.59	24347931.81	0.0138	0.0019
Mercury	61950-04-24 13:55 G	24347945.98	24347946.08	24347946.20	0.0138	0.0073
Mercury	61950-07-21 17:31 G	24348034.13	24348034.23	24348034.33	0.0138	0.0093
Mercury	61950-10-17 20:53 G	24348122.30	24348122.37	24348122.45	0.0138	0.0113
Venus	61950-11-22 10:19 G	24348157.71	24348157.93	24348158.15	0.0138	0.0016
Mercury	61951-01-14 00:29 G	24348210.49	24348210.52	24348210.55	0.0138	0.0133
Venus	61951-07-06 18:29 G	24348384.07	24348384.27	24348384.48	0.0138	0.0050
Venus	61952-02-18 02:53 G	24348610.46	24348610.62	24348610.80	0.0139	0.0085
Venus	61952-10-01 11:31 G	24348836.88	24348836.98	24348837.10	0.0139	0.0119
Moon	61955-06-03 04:34 G	24349811.53	24349811.69	24349811.87	0.0140	0.0100
Earth	61955-06-03 06:00 G	24349811.59	24349811.75	24349811.93	0.0140	0.0102 *
Earth	61956-06-07 00:14 G	24350181.27	24350181.51	24350181.75	0.0140	0.0045
Moon	61956-06-07 01:55 G	24350181.35	24350181.58	24350181.84	0.0140	0.0052 *
Moon	61957-06-11 16:48 G	24350550.95	24350551.20	24350551.44	0.0141	0.0020
Earth	61957-06-11 19:12 G	24350551.05	24350551.30	24350551.56	0.0141	0.0012 *
Earth	61958-06-16 14:24 G	24350920.89	24350921.10	24350921.33	0.0141	0.0071
Moon	61958-06-16 17:02 G	24350920.99	24350921.21	24350921.46	0.0141	0.0064 *

Moon	61959-06-21 07:41 G	24351290.75	24351290.82	24351290.91	0.0141	0.0133
Earth	61959-06-21 10:34 G	24351290.86	24351290.94	24351291.07	0.0141	0.0130 *
Mercury	61988-06-16 12:14 G	24361878.93	24361879.01	24361879.09	0.0141	0.0125
Mercury	61988-09-12 18:58 G	24361967.17	24361967.29	24361967.43	0.0141	0.0097
Venus	61988-09-17 02:10 G	24361971.46	24361971.59	24361971.72	0.0141	0.0110
Mercury	61988-12-10 01:55 G	24362055.44	24362055.58	24362055.75	0.0141	0.0069
Mercury	61989-03-08 09:22 G	24362143.71	24362143.89	24362144.07	0.0141	0.0039
Venus	61989-05-01 11:17 G	24362197.80	24362197.97	24362198.17	0.0141	0.0075
Mercury	61989-06-04 16:34 G	24362232.00	24362232.19	24362232.37	0.0141	0.0011
Mercury	61989-08-31 23:31 G	24362320.30	24362320.48	24362320.67	0.0140	0.0019
Mercury	61989-11-28 06:43 G	24362408.61	24362408.78	24362408.96	0.0140	0.0047
Venus	61989-12-13 20:53 G	24362424.16	24362424.37	24362424.58	0.0140	0.0039
Mercury	61990-02-24 13:55 G	24362496.93	24362497.08	24362497.24	0.0140	0.0077
Mercury	61990-05-23 21:22 G	24362585.27	24362585.39	24362585.51	0.0140	0.0106
Venus	61990-07-28 06:14 G	24362650.54	24362650.76	24362650.97	0.0140	0.0004
Mercury	61990-08-20 04:19 G	24362673.64	24362673.68	24362673.74	0.0140	0.0135
Venus	61991-03-11 15:07 G	24362876.92	24362877.13	24362877.34	0.0140	0.0033
Venus	61991-10-23 23:46 G	24363103.31	24363103.49	24363103.69	0.0140	0.0068
Venus	61992-06-06 08:24 G	24363329.72	24363329.85	24363330.01	0.0139	0.0103
Venus	61993-01-18 17:02 G	24363556.18	24363556.21	24363556.26	0.0139	0.0137
Earth	61994-12-03 11:31 G	24364239.90	24364239.98	24364240.10	0.0138	0.0128
Moon	61994-12-03 14:53 G	24364240.08	24364240.12	24364240.20	0.0138	0.0135 *
Moon	61995-12-07 23:02 G	24364609.26	24364609.46	24364609.70	0.0138	0.0066
Earth	61995-12-08 02:24 G	24364609.40	24364609.60	24364609.83	0.0138	0.0073 *
Earth	61996-12-11 16:05 G	24364978.93	24364979.17	24364979.43	0.0138	0.0019
Moon	61996-12-11 19:41 G	24364979.07	24364979.32	24364979.57	0.0138	0.0021 *
Moon	61997-12-16 01:26 G	24365348.33	24365348.56	24365348.82	0.0137	0.0036
Earth	61997-12-16 05:17 G	24365348.48	24365348.72	24365348.97	0.0137	0.0035 *
Earth	61998-12-20 17:17 G	24365718.04	24365718.22	24365718.43	0.0137	0.0088
Moon	61998-12-20 20:53 G	24365718.19	24365718.37	24365718.57	0.0137	0.0091 *

Moon 61999-12-25 01:26 G 24366087.52 24366087.56 24366087.63 0.0137 0.0133

63RD MILLENNIUM CE

This is a list of transits visible from Uranus in the 63rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	62024-09-22 22:48	G	24375125.99	24375126.45	24375126.94	0.0135	0.0031	
Mercury	62031-12-15 10:05	G	24377765.87	24377765.92	24377765.98	0.0137	0.0124	
Venus	62032-01-29 11:17	G	24377810.93	24377810.97	24377811.03	0.0137	0.0133	
Mercury	62032-03-12 13:41	G	24377853.99	24377854.07	24377854.17	0.0137	0.0104	
Mercury	62032-06-08 17:17	G	24377942.12	24377942.22	24377942.33	0.0137	0.0083	
Mercury	62032-09-04 20:53	G	24378030.25	24378030.37	24378030.50	0.0137	0.0063	
Venus	62032-09-11 18:58	G	24378037.15	24378037.29	24378037.45	0.0137	0.0100	
Mercury	62032-12-02 00:29	G	24378118.39	24378118.52	24378118.65	0.0138	0.0043	
Mercury	62033-02-28 04:05	G	24378206.53	24378206.67	24378206.80	0.0138	0.0022	
Venus	62033-04-26 02:38	G	24378263.43	24378263.61	24378263.81	0.0138	0.0067	
Mercury	62033-05-27 07:26	G	24378294.68	24378294.81	24378294.95	0.0138	0.0004	
Mercury	62033-08-23 11:02	G	24378382.82	24378382.96	24378383.09	0.0138	0.0018	
Mercury	62033-11-19 14:24	G	24378470.97	24378471.10	24378471.23	0.0138	0.0039	
Venus	62033-12-08 10:34	G	24378489.74	24378489.94	24378490.16	0.0138	0.0033	
Mercury	62034-02-15 18:00	G	24378559.13	24378559.25	24378559.37	0.0138	0.0058	
Mercury	62034-05-14 21:22	G	24378647.28	24378647.39	24378647.50	0.0138	0.0079	
Venus	62034-07-22 18:43	G	24378716.07	24378716.28	24378716.50	0.0138	0.0002	
Mercury	62034-08-11 00:58	G	24378735.44	24378735.54	24378735.63	0.0138	0.0099	

Mercury	62034-11-07 04:19 G	24378823.61	24378823.68	24378823.75	0.0138	0.0118
Venus	62035-03-06 03:07 G	24378942.42	24378942.63	24378942.84	0.0138	0.0035
Venus	62035-10-18 11:31 G	24379168.79	24379168.98	24379169.17	0.0139	0.0070
Venus	62036-05-31 19:55 G	24379395.19	24379395.33	24379395.48	0.0139	0.0104
Venus	62037-01-13 04:34 G	24379621.69	24379621.69	24379621.71	0.0139	0.0139
Moon	62039-06-03 15:36 G	24380492.98	24380493.15	24380493.33	0.0140	0.0099
Earth	62039-06-03 16:34 G	24380493.02	24380493.19	24380493.38	0.0140	0.0097 *
Earth	62040-06-07 10:48 G	24380862.71	24380862.95	24380863.19	0.0140	0.0041
Moon	62040-06-07 12:00 G	24380862.76	24380863.00	24380863.27	0.0140	0.0036 *
Moon	62041-06-12 03:50 G	24381232.42	24381232.66	24381232.91	0.0141	0.0010
Earth	62041-06-12 05:31 G	24381232.48	24381232.73	24381232.99	0.0141	0.0017 *
Earth	62042-06-17 00:43 G	24381602.33	24381602.53	24381602.76	0.0141	0.0075
Moon	62042-06-17 03:22 G	24381602.44	24381602.64	24381602.87	0.0141	0.0082 *
Moon	62043-06-21 18:29 G	24381972.18	24381972.27	24381972.39	0.0141	0.0129
Earth	62043-06-21 20:53 G	24381972.31	24381972.37	24381972.47	0.0141	0.0134 *
Mars	62056-01-31 11:31 G	24386578.76	24386578.98	24386579.24	0.0144	0.0081
Venus	62072-05-17 10:34 G	24392529.86	24392529.94	24392530.06	0.0141	0.0125
Mercury	62072-07-06 19:55 G	24392580.23	24392580.33	24392580.44	0.0141	0.0115
Mercury	62072-10-03 02:53 G	24392668.49	24392668.62	24392668.77	0.0141	0.0087
Venus	62072-12-29 20:24 G	24392756.19	24392756.35	24392756.53	0.0141	0.0089
Mercury	62072-12-30 10:05 G	24392756.76	24392756.92	24392757.09	0.0141	0.0058
Mercury	62073-03-28 17:02 G	24392845.04	24392845.21	24392845.40	0.0141	0.0030
Mercury	62073-06-25 00:14 G	24392933.33	24392933.51	24392933.70	0.0141	0.0002
Venus	62073-08-13 06:00 G	24392982.56	24392982.75	24392982.96	0.0141	0.0053
Mercury	62073-09-21 07:26 G	24393021.63	24393021.81	24393021.99	0.0141	0.0028
Mercury	62073-12-18 14:38 G	24393109.94	24393110.11	24393110.28	0.0140	0.0057
Mercury	62074-03-16 21:50 G	24393198.27	24393198.41	24393198.56	0.0140	0.0087
Venus	62074-03-27 15:22 G	24393208.93	24393209.14	24393209.36	0.0140	0.0017
Mercury	62074-06-13 04:48 G	24393286.61	24393286.70	24393286.82	0.0140	0.0116
Venus	62074-11-09 00:29 G	24393435.31	24393435.52	24393435.74	0.0140	0.0019

Venus	62075-06-23 09:22 G	24393661.69	24393661.89	24393662.09	0.0140	0.0054
Venus	62076-02-04 18:14 G	24393888.09	24393888.26	24393888.43	0.0140	0.0089
Venus	62076-09-18 02:38 G	24394114.53	24394114.61	24394114.73	0.0139	0.0124
Earth	62078-12-04 00:43 G	24394921.42	24394921.53	24394921.65	0.0138	0.0122
Moon	62078-12-04 03:22 G	24394921.50	24394921.64	24394921.79	0.0138	0.0114 *
Moon	62079-12-08 12:14 G	24395290.81	24395291.01	24395291.23	0.0138	0.0073
Earth	62079-12-08 15:07 G	24395290.92	24395291.13	24395291.36	0.0138	0.0067 *
Earth	62080-12-12 05:02 G	24395660.46	24395660.71	24395660.97	0.0138	0.0013
Moon	62080-12-12 08:24 G	24395660.60	24395660.85	24395661.11	0.0138	0.0009 *
Moon	62081-12-16 14:53 G	24396029.89	24396030.12	24396030.37	0.0137	0.0040
Earth	62081-12-16 18:14 G	24396030.02	24396030.26	24396030.50	0.0137	0.0040 *
Earth	62082-12-21 06:14 G	24396399.58	24396399.76	24396399.95	0.0137	0.0093
Moon	62082-12-21 09:50 G	24396399.73	24396399.91	24396400.12	0.0137	0.0089 *
Mars	62098-05-13 08:24 G	24402021.54	24402021.85	24402022.18	0.0134	0.0042
Mercury	62115-10-09 14:10 G	24408379.09	24408379.09	24408379.10	0.0137	0.0137
Mercury	62116-01-05 17:46 G	24408467.17	24408467.24	24408467.31	0.0137	0.0117
Mercury	62116-04-02 21:22 G	24408555.29	24408555.39	24408555.49	0.0137	0.0096
Venus	62116-05-13 05:02 G	24408595.59	24408595.71	24408595.83	0.0137	0.0113
Mercury	62116-06-30 00:58 G	24408643.43	24408643.54	24408643.66	0.0137	0.0076
Mercury	62116-09-26 04:34 G	24408731.56	24408731.69	24408731.81	0.0137	0.0055
Mercury	62116-12-23 07:55 G	24408819.70	24408819.83	24408819.97	0.0138	0.0036
Venus	62116-12-25 12:29 G	24408821.85	24408822.02	24408822.21	0.0138	0.0080
Mercury	62117-03-21 11:31 G	24408907.85	24408907.98	24408908.12	0.0138	0.0015
Mercury	62117-06-17 15:07 G	24408995.99	24408996.13	24408996.27	0.0138	0.0005
Venus	62117-08-08 20:38 G	24409048.15	24409048.36	24409048.56	0.0138	0.0046
Mercury	62117-09-13 18:29 G	24409084.14	24409084.27	24409084.41	0.0138	0.0026
Mercury	62117-12-10 22:05 G	24409172.29	24409172.42	24409172.55	0.0138	0.0046
Mercury	62118-03-09 01:26 G	24409260.45	24409260.56	24409260.68	0.0138	0.0066
Venus	62118-03-23 04:34 G	24409274.48	24409274.69	24409274.91	0.0138	0.0013
Mercury	62118-06-05 04:48 G	24409348.60	24409348.70	24409348.81	0.0138	0.0086

Mercury	62118-09-01 08:24 G	24409436.77	24409436.85	24409436.94	0.0138	0.0106
Venus	62118-11-04 12:43 G	24409500.82	24409501.03	24409501.25	0.0138	0.0022
Mercury	62118-11-28 11:46 G	24409524.94	24409524.99	24409525.05	0.0138	0.0126
Venus	62119-06-18 20:53 G	24409727.18	24409727.37	24409727.58	0.0138	0.0057
Venus	62120-01-31 05:31 G	24409953.57	24409953.73	24409953.90	0.0139	0.0091
Venus	62120-09-13 14:10 G	24410180.01	24410180.09	24410180.19	0.0139	0.0125
Moon	62123-06-05 04:48 G	24411174.52	24411174.70	24411174.89	0.0140	0.0091
Earth	62123-06-05 04:48 G	24411174.53	24411174.70	24411174.91	0.0140	0.0092 *
Earth	62124-06-08 23:02 G	24411544.22	24411544.46	24411544.71	0.0140	0.0035
Moon	62124-06-09 00:00 G	24411544.25	24411544.50	24411544.75	0.0140	0.0040 *
Moon	62125-06-13 16:19 G	24411913.94	24411914.18	24411914.42	0.0141	0.0030
Earth	62125-06-13 17:46 G	24411913.99	24411914.24	24411914.50	0.0141	0.0022 *
Earth	62126-06-18 12:58 G	24412283.84	24412284.04	24412284.26	0.0141	0.0080
Moon	62126-06-18 14:24 G	24412283.89	24412284.10	24412284.34	0.0141	0.0073 *
Earth	62127-06-23 08:53 G	24412653.84	24412653.87	24412653.95	0.0142	0.0139
Mars	62140-09-26 13:55 G	24417497.93	24417498.08	24417498.27	0.0144	0.0116
Jupiter	62149-03-24 17:31 G	24420598.75	24420599.23	24420599.78	0.0143	0.0050
Venus	62156-01-16 19:55 G	24423088.31	24423088.33	24423088.38	0.0141	0.0140
Mercury	62156-04-30 20:53 G	24423193.32	24423193.37	24423193.44	0.0141	0.0133
Mercury	62156-07-28 03:50 G	24423281.55	24423281.66	24423281.79	0.0141	0.0105
Venus	62156-08-30 06:00 G	24423314.61	24423314.75	24423314.90	0.0141	0.0103
Mercury	62156-10-24 11:02 G	24423369.81	24423369.96	24423370.11	0.0141	0.0076
Mercury	62157-01-20 18:00 G	24423458.08	24423458.25	24423458.43	0.0141	0.0048
Venus	62157-04-13 15:36 G	24423540.96	24423541.15	24423541.34	0.0141	0.0067
Mercury	62157-04-19 01:12 G	24423546.37	24423546.55	24423546.73	0.0141	0.0019
Mercury	62157-07-16 08:24 G	24423634.66	24423634.85	24423635.03	0.0141	0.0011
Mercury	62157-10-12 15:22 G	24423722.97	24423723.14	24423723.32	0.0141	0.0040
Venus	62157-11-26 00:43 G	24423767.33	24423767.53	24423767.75	0.0140	0.0032
Mercury	62158-01-08 22:34 G	24423811.28	24423811.44	24423811.61	0.0140	0.0069
Mercury	62158-04-07 05:46 G	24423899.62	24423899.74	24423899.88	0.0140	0.0098

Mercury	62158-07-04 12:58 G	24423987.97	24423988.04	24423988.13	0.0140	0.0127
Venus	62158-07-10 10:05 G	24423993.70	24423993.92	24423994.14	0.0140	0.0005
Venus	62159-02-21 19:12 G	24424220.09	24424220.30	24424220.51	0.0140	0.0040
Venus	62159-10-06 03:50 G	24424446.49	24424446.66	24424446.86	0.0140	0.0076
Venus	62160-05-19 12:29 G	24424672.91	24424673.02	24424673.17	0.0139	0.0111
Earth	62162-12-05 13:41 G	24425602.95	24425603.07	24425603.22	0.0138	0.0116
Moon	62162-12-05 16:34 G	24425603.08	24425603.19	24425603.32	0.0138	0.0123 *
Moon	62163-12-10 01:55 G	24425972.36	24425972.58	24425972.82	0.0138	0.0055
Earth	62163-12-10 04:34 G	24425972.47	24425972.69	24425972.92	0.0138	0.0061 *
Earth	62164-12-13 18:14 G	24426342.01	24426342.26	24426342.52	0.0138	0.0007
Moon	62164-12-13 21:07 G	24426342.13	24426342.38	24426342.64	0.0138	0.0011 *
Moon	62165-12-18 04:05 G	24426711.44	24426711.67	24426711.91	0.0137	0.0047
Earth	62165-12-18 07:12 G	24426711.57	24426711.80	24426712.05	0.0137	0.0046 *
Earth	62166-12-22 19:12 G	24427081.14	24427081.30	24427081.49	0.0137	0.0098
Moon	62166-12-22 22:34 G	24427081.27	24427081.44	24427081.62	0.0137	0.0100 *
Mercury	62199-10-29 21:36 G	24439080.36	24439080.40	24439080.44	0.0137	0.0130
Venus	62200-01-11 14:10 G	24439154.02	24439154.09	24439154.18	0.0137	0.0127
Mercury	62200-01-26 00:58 G	24439168.47	24439168.54	24439168.63	0.0137	0.0110
Mercury	62200-04-24 04:48 G	24439256.59	24439256.70	24439256.80	0.0137	0.0090
Mercury	62200-07-21 08:10 G	24439344.73	24439344.84	24439344.97	0.0137	0.0070
Venus	62200-08-25 21:50 G	24439380.26	24439380.41	24439380.58	0.0137	0.0094
Mercury	62200-10-17 11:46 G	24439432.87	24439432.99	24439433.12	0.0137	0.0049
Mercury	62201-01-13 15:22 G	24439521.01	24439521.14	24439521.28	0.0137	0.0029
Venus	62201-04-09 05:46 G	24439606.55	24439606.74	24439606.94	0.0138	0.0060
Mercury	62201-04-11 18:58 G	24439609.15	24439609.29	24439609.43	0.0138	0.0009
Mercury	62201-07-08 22:19 G	24439697.30	24439697.43	24439697.57	0.0138	0.0013
Mercury	62201-10-05 01:55 G	24439785.45	24439785.58	24439785.71	0.0138	0.0032
Venus	62201-11-21 13:26 G	24439832.86	24439833.06	24439833.29	0.0138	0.0027
Mercury	62202-01-01 05:31 G	24439873.60	24439873.73	24439873.85	0.0138	0.0052
Mercury	62202-03-30 08:53 G	24439961.76	24439961.87	24439961.99	0.0138	0.0072

Mercury	62202-06-26 12:14 G	24440049.92	24440050.01	24440050.12	0.0138	0.0092
Venus	62202-07-05 21:50 G	24440059.19	24440059.41	24440059.62	0.0138	0.0008
Mercury	62202-09-22 15:36 G	24440138.08	24440138.15	24440138.24	0.0138	0.0113
Mercury	62202-12-19 19:12 G	24440226.27	24440226.30	24440226.34	0.0138	0.0132
Venus	62203-02-17 06:00 G	24440285.55	24440285.75	24440285.96	0.0138	0.0042
Venus	62203-10-01 14:10 G	24440511.92	24440512.09	24440512.29	0.0138	0.0077
Venus	62204-05-14 22:48 G	24440738.33	24440738.45	24440738.59	0.0139	0.0111
Earth	62207-06-06 15:50 G	24441855.97	24441856.16	24441856.36	0.0140	0.0087
Moon	62207-06-06 15:50 G	24441855.98	24441856.16	24441856.36	0.0140	0.0088 *
Earth	62208-06-10 09:36 G	24442225.66	24442225.90	24442226.16	0.0140	0.0031
Moon	62208-06-10 10:05 G	24442225.66	24442225.92	24442226.18	0.0140	0.0027 *
Moon	62209-06-15 03:50 G	24442595.41	24442595.66	24442595.90	0.0141	0.0020
Earth	62209-06-15 04:05 G	24442595.43	24442595.67	24442595.93	0.0141	0.0027 *
Earth	62210-06-19 23:17 G	24442965.28	24442965.47	24442965.69	0.0141	0.0084
Moon	62210-06-20 00:43 G	24442965.35	24442965.53	24442965.75	0.0141	0.0092 *
Moon	62211-06-24 17:46 G	24443335.20	24443335.24	24443335.33	0.0142	0.0137
Venus	62240-04-30 15:07 G	24453873.03	24453873.13	24453873.26	0.0141	0.0118
Mercury	62240-05-22 04:48 G	24453894.62	24453894.70	24453894.80	0.0141	0.0122
Mercury	62240-08-18 11:46 G	24453982.87	24453982.99	24453983.14	0.0141	0.0094
Mercury	62240-11-14 18:58 G	24454071.14	24454071.29	24454071.46	0.0141	0.0065
Venus	62240-12-13 00:43 G	24454099.37	24454099.53	24454099.72	0.0141	0.0082
Mercury	62241-02-11 02:10 G	24454159.41	24454159.59	24454159.77	0.0141	0.0036
Mercury	62241-05-10 09:22 G	24454247.70	24454247.89	24454248.07	0.0141	0.0008
Venus	62241-07-27 10:19 G	24454325.74	24454325.93	24454326.15	0.0141	0.0046
Mercury	62241-08-06 16:19 G	24454336.00	24454336.18	24454336.37	0.0141	0.0022
Mercury	62241-11-02 23:31 G	24454424.31	24454424.48	24454424.66	0.0141	0.0051
Mercury	62242-01-30 06:29 G	24454512.63	24454512.77	24454512.94	0.0140	0.0081
Venus	62242-03-10 19:55 G	24454552.12	24454552.33	24454552.55	0.0140	0.0010
Mercury	62242-04-28 13:55 G	24454600.97	24454601.08	24454601.20	0.0140	0.0109
Mercury	62242-07-25 21:07 G	24454689.37	24454689.38	24454689.42	0.0140	0.0139

Venus	62242-10-23 05:17 G	24454778.50	24454778.72	24454778.93	0.0140	0.0027
Venus	62243-06-06 14:10 G	24455004.90	24455005.09	24455005.29	0.0140	0.0062
Venus	62244-01-18 23:02 G	24455231.31	24455231.46	24455231.62	0.0140	0.0097
Venus	62244-09-01 07:41 G	24455457.77	24455457.82	24455457.91	0.0139	0.0132
Earth	62246-12-07 03:36 G	24456284.52	24456284.65	24456284.82	0.0138	0.0110
Moon	62246-12-07 05:46 G	24456284.57	24456284.74	24456284.92	0.0138	0.0102 *
Moon	62247-12-11 16:05 G	24456653.96	24456654.17	24456654.40	0.0138	0.0062
Earth	62247-12-11 18:29 G	24456654.04	24456654.27	24456654.51	0.0138	0.0055 *
Earth	62248-12-15 08:24 G	24457023.59	24457023.85	24457024.10	0.0138	0.0002
Moon	62248-12-15 11:02 G	24457023.70	24457023.96	24457024.22	0.0138	0.0004 *
Moon	62249-12-19 18:43 G	24457393.05	24457393.28	24457393.51	0.0137	0.0050
Earth	62249-12-19 21:22 G	24457393.16	24457393.39	24457393.63	0.0137	0.0052 *
Earth	62250-12-24 08:53 G	24457762.73	24457762.87	24457763.06	0.0137	0.0104
Moon	62250-12-24 12:29 G	24457762.85	24457763.02	24457763.20	0.0137	0.0100 *
Mars	62265-09-30 21:36 G	24463157.13	24463157.40	24463157.70	0.0134	0.0067
Mercury	62283-11-20 05:17 G	24469781.66	24469781.72	24469781.78	0.0137	0.0122
Mercury	62284-02-16 08:38 G	24469869.78	24469869.86	24469869.96	0.0137	0.0102
Venus	62284-04-25 07:55 G	24469938.71	24469938.83	24469938.98	0.0137	0.0107
Mercury	62284-05-14 12:14 G	24469957.91	24469958.01	24469958.13	0.0137	0.0082
Mercury	62284-08-10 15:50 G	24470046.04	24470046.16	24470046.29	0.0137	0.0062
Mercury	62284-11-06 19:26 G	24470134.18	24470134.31	24470134.44	0.0137	0.0041
Venus	62284-12-07 15:50 G	24470164.98	24470165.16	24470165.34	0.0137	0.0074
Mercury	62285-02-02 23:02 G	24470222.32	24470222.46	24470222.60	0.0137	0.0021
Mercury	62285-05-02 02:38 G	24470310.47	24470310.61	24470310.74	0.0138	0.0003
Venus	62285-07-21 23:31 G	24470391.28	24470391.48	24470391.70	0.0138	0.0040
Mercury	62285-07-29 06:00 G	24470398.62	24470398.75	24470398.89	0.0138	0.0020
Mercury	62285-10-25 09:36 G	24470486.77	24470486.90	24470487.03	0.0138	0.0040
Mercury	62286-01-21 12:58 G	24470574.92	24470575.04	24470575.17	0.0138	0.0060
Venus	62286-03-05 07:41 G	24470617.61	24470617.82	24470618.04	0.0138	0.0007
Mercury	62286-04-19 16:34 G	24470663.08	24470663.19	24470663.30	0.0138	0.0080

Mercury	62286-07-16 19:55 G	24470751.24	24470751.33	24470751.43	0.0138	0.0100
Mercury	62286-10-12 23:17 G	24470839.41	24470839.47	24470839.54	0.0138	0.0120
Venus	62286-10-17 15:50 G	24470843.95	24470844.16	24470844.38	0.0138	0.0028
Venus	62287-06-01 00:00 G	24471070.32	24471070.50	24471070.70	0.0138	0.0063
Venus	62288-01-13 08:38 G	24471296.71	24471296.86	24471297.02	0.0139	0.0097
Venus	62288-08-26 16:48 G	24471523.15	24471523.20	24471523.29	0.0139	0.0132
Moon	62290-06-02 10:19 G	24472167.85	24472167.93	24472168.02	0.0140	0.0132
Earth	62290-06-02 11:17 G	24472167.93	24472167.97	24472168.03	0.0140	0.0136 *
Earth	62291-06-07 04:05 G	24472537.48	24472537.67	24472537.89	0.0140	0.0081
Moon	62291-06-07 05:02 G	24472537.52	24472537.71	24472537.92	0.0140	0.0082 *
Moon	62292-06-10 21:22 G	24472907.14	24472907.39	24472907.66	0.0140	0.0029
Earth	62292-06-10 21:50 G	24472907.17	24472907.41	24472907.67	0.0140	0.0026 *
Moon	62293-06-15 16:05 G	24473276.94	24473277.17	24473277.42	0.0141	0.0039
Earth	62293-06-15 16:34 G	24473276.94	24473277.19	24473277.44	0.0141	0.0032 *
Moon	62294-06-20 11:46 G	24473646.79	24473646.99	24473647.22	0.0141	0.0082
Earth	62294-06-20 11:46 G	24473646.80	24473646.99	24473647.19	0.0141	0.0089 *
Mars	62308-02-16 06:29 G	24478634.49	24478634.77	24478635.06	0.0144	0.0014
Venus	62323-12-31 00:14 G	24484431.45	24484431.51	24484431.60	0.0141	0.0133
Mercury	62324-03-16 06:00 G	24484507.73	24484507.75	24484507.78	0.0141	0.0139
Mercury	62324-06-12 12:43 G	24484595.94	24484596.03	24484596.16	0.0141	0.0111
Venus	62324-08-13 10:34 G	24484657.78	24484657.94	24484658.10	0.0141	0.0096
Mercury	62324-09-08 20:10 G	24484684.19	24484684.34	24484684.48	0.0141	0.0082
Mercury	62324-12-06 02:53 G	24484772.46	24484772.62	24484772.80	0.0141	0.0054
Mercury	62325-03-04 10:05 G	24484860.75	24484860.92	24484861.11	0.0141	0.0025
Venus	62325-03-27 20:10 G	24484884.14	24484884.34	24484884.54	0.0141	0.0060
Mercury	62325-05-31 17:17 G	24484949.04	24484949.22	24484949.41	0.0141	0.0005
Mercury	62325-08-28 00:29 G	24485037.34	24485037.52	24485037.70	0.0141	0.0033
Venus	62325-11-09 05:31 G	24485110.52	24485110.73	24485110.95	0.0141	0.0024
Mercury	62325-11-24 07:26 G	24485125.66	24485125.81	24485125.99	0.0140	0.0063
Mercury	62326-02-20 14:53 G	24485213.98	24485214.12	24485214.26	0.0140	0.0092

Mercury	62326-05-19 21:50 G	24485302.33	24485302.41	24485302.52	0.0140	0.0121
Venus	62326-06-23 14:53 G	24485336.90	24485337.12	24485337.34	0.0140	0.0012
Venus	62327-02-04 23:46 G	24485563.30	24485563.49	24485563.71	0.0140	0.0048
Venus	62327-09-19 09:07 G	24485789.71	24485789.88	24485790.06	0.0140	0.0083
Venus	62328-05-02 18:00 G	24486016.14	24486016.25	24486016.37	0.0140	0.0118
Earth	62330-12-08 17:17 G	24486966.07	24486966.22	24486966.41	0.0138	0.0103
Moon	62330-12-08 18:58 G	24486966.15	24486966.29	24486966.47	0.0138	0.0110 *
Moon	62331-12-13 06:29 G	24487335.54	24487335.77	24487336.01	0.0138	0.0041
Earth	62331-12-13 08:10 G	24487335.61	24487335.84	24487336.08	0.0138	0.0048 *
Earth	62332-12-16 21:50 G	24487705.16	24487705.41	24487705.67	0.0138	0.0006
Moon	62332-12-17 00:14 G	24487705.24	24487705.51	24487705.77	0.0138	0.0002 *
Moon	62333-12-21 08:10 G	24488074.63	24488074.84	24488075.07	0.0137	0.0060
Earth	62333-12-21 10:34 G	24488074.73	24488074.94	24488075.19	0.0137	0.0059 *
Earth	62334-12-25 22:34 G	24488444.31	24488444.44	24488444.61	0.0137	0.0110
Moon	62334-12-26 01:12 G	24488444.41	24488444.55	24488444.71	0.0137	0.0111 *
Mars	62350-05-28 13:55 G	24494076.94	24494077.08	24494077.23	0.0134	0.0120
Mercury	62367-09-14 08:53 G	24500394.86	24500394.87	24500394.89	0.0137	0.0136
Mercury	62367-12-11 12:43 G	24500482.96	24500483.03	24500483.10	0.0137	0.0115
Venus	62367-12-25 17:17 G	24500497.14	24500497.22	24500497.34	0.0137	0.0121
Mercury	62368-03-08 16:05 G	24500571.08	24500571.17	24500571.28	0.0137	0.0095
Mercury	62368-06-04 19:41 G	24500659.21	24500659.32	24500659.44	0.0137	0.0075
Venus	62368-08-08 01:26 G	24500723.39	24500723.56	24500723.72	0.0137	0.0088
Mercury	62368-08-31 23:17 G	24500747.35	24500747.47	24500747.60	0.0137	0.0055
Mercury	62368-11-28 02:53 G	24500835.49	24500835.62	24500835.76	0.0137	0.0034
Mercury	62369-02-24 06:29 G	24500923.63	24500923.77	24500923.91	0.0137	0.0014
Venus	62369-03-22 09:07 G	24500949.69	24500949.88	24500950.09	0.0137	0.0054
Mercury	62369-05-23 10:05 G	24501011.78	24501011.92	24501012.05	0.0137	0.0007
Mercury	62369-08-19 13:26 G	24501099.93	24501100.06	24501100.20	0.0138	0.0027
Venus	62369-11-03 17:02 G	24501176.00	24501176.21	24501176.43	0.0138	0.0021
Mercury	62369-11-15 17:02 G	24501188.08	24501188.21	24501188.34	0.0138	0.0047

Mercury	62370-02-11 20:24 G	24501276.24	24501276.35	24501276.47	0.0138	0.0067
Mercury	62370-05-10 23:46 G	24501364.39	24501364.49	24501364.60	0.0138	0.0087
Venus	62370-06-18 00:58 G	24501402.33	24501402.54	24501402.76	0.0138	0.0014
Mercury	62370-08-07 03:22 G	24501452.56	24501452.64	24501452.73	0.0138	0.0107
Mercury	62370-11-03 06:43 G	24501540.74	24501540.78	24501540.84	0.0138	0.0127
Venus	62371-01-30 09:07 G	24501628.68	24501628.88	24501629.09	0.0138	0.0048
Venus	62371-09-13 17:17 G	24501855.06	24501855.22	24501855.41	0.0138	0.0083
Venus	62372-04-27 01:55 G	24502081.48	24502081.58	24502081.71	0.0139	0.0117
Moon	62374-06-03 19:55 G	24502849.29	24502849.33	24502849.41	0.0139	0.0136
Earth	62374-06-03 21:50 G	24502849.35	24502849.41	24502849.52	0.0139	0.0131 *
Earth	62375-06-08 14:53 G	24503218.92	24503219.12	24503219.35	0.0140	0.0076
Moon	62375-06-08 16:19 G	24503218.98	24503219.18	24503219.39	0.0140	0.0075 *
Moon	62376-06-12 07:41 G	24503588.56	24503588.82	24503589.09	0.0140	0.0017
Earth	62376-06-12 08:38 G	24503588.61	24503588.86	24503589.12	0.0140	0.0020 *
Earth	62377-06-17 02:53 G	24503958.38	24503958.62	24503958.87	0.0141	0.0037
Moon	62377-06-17 03:36 G	24503958.42	24503958.65	24503958.89	0.0141	0.0032 *
Earth	62378-06-21 21:50 G	24504328.24	24504328.41	24504328.62	0.0141	0.0094
Moon	62378-06-21 22:19 G	24504328.26	24504328.43	24504328.62	0.0141	0.0101 *
Mercury	62408-04-05 13:41 G	24515209.01	24515209.07	24515209.15	0.0141	0.0129
Venus	62408-04-12 18:58 G	24515216.17	24515216.29	24515216.44	0.0141	0.0112
Mercury	62408-07-02 20:38 G	24515297.25	24515297.36	24515297.50	0.0141	0.0101
Mercury	62408-09-29 03:50 G	24515385.51	24515385.66	24515385.82	0.0141	0.0072
Venus	62408-11-25 05:02 G	24515442.53	24515442.71	24515442.89	0.0141	0.0075
Mercury	62408-12-26 11:02 G	24515473.78	24515473.96	24515474.13	0.0141	0.0043
Mercury	62409-03-24 18:00 G	24515562.07	24515562.25	24515562.44	0.0141	0.0015
Mercury	62409-06-21 01:12 G	24515650.37	24515650.55	24515650.73	0.0141	0.0015
Venus	62409-07-09 14:38 G	24515668.90	24515669.11	24515669.32	0.0141	0.0039
Mercury	62409-09-17 08:24 G	24515738.67	24515738.85	24515739.02	0.0141	0.0044
Mercury	62409-12-14 15:36 G	24515826.99	24515827.15	24515827.31	0.0141	0.0073
Venus	62410-02-21 00:14 G	24515895.29	24515895.51	24515895.72	0.0140	0.0004

Mercury	62410-03-12 22:34 G	24515915.33	24515915.44	24515915.58	0.0140	0.0103
Mercury	62410-06-09 06:00 G	24516003.69	24516003.75	24516003.82	0.0140	0.0132
Venus	62410-10-05 09:22 G	24516121.69	24516121.89	24516122.11	0.0140	0.0034
Venus	62411-05-19 18:29 G	24516348.09	24516348.27	24516348.47	0.0140	0.0069
Venus	62412-01-01 03:36 G	24516574.51	24516574.65	24516574.80	0.0140	0.0104
Venus	62412-08-14 12:29 G	24516801.01	24516801.02	24516801.05	0.0139	0.0139
Earth	62414-12-09 06:14 G	24517647.60	24517647.76	24517647.96	0.0139	0.0097
Moon	62414-12-09 07:12 G	24517647.61	24517647.80	24517648.01	0.0139	0.0089 *
Moon	62415-12-13 19:55 G	24518017.10	24518017.33	24518017.56	0.0138	0.0049
Earth	62415-12-13 21:07 G	24518017.15	24518017.38	24518017.63	0.0138	0.0042 *
Earth	62416-12-17 11:02 G	24518386.71	24518386.96	24518387.22	0.0138	0.0012
Moon	62416-12-17 12:43 G	24518386.78	24518387.03	24518387.30	0.0138	0.0017 *
Moon	62417-12-21 22:05 G	24518756.22	24518756.42	24518756.66	0.0137	0.0063
Earth	62417-12-22 00:00 G	24518756.29	24518756.50	24518756.73	0.0137	0.0064 *
Earth	62418-12-26 11:46 G	24519125.88	24519125.99	24519126.15	0.0137	0.0116
Moon	62418-12-26 14:38 G	24519125.97	24519126.11	24519126.26	0.0137	0.0113 *
Venus	62451-08-25 04:05 G	24531055.64	24531055.67	24531055.73	0.0137	0.0134
Mercury	62451-10-04 16:48 G	24531096.15	24531096.20	24531096.25	0.0137	0.0127
Mercury	62451-12-31 20:10 G	24531184.27	24531184.34	24531184.44	0.0137	0.0107
Mercury	62452-03-28 23:46 G	24531272.39	24531272.49	24531272.61	0.0137	0.0087
Venus	62452-04-07 11:46 G	24531281.86	24531281.99	24531282.15	0.0137	0.0101
Mercury	62452-06-25 03:36 G	24531360.53	24531360.65	24531360.77	0.0137	0.0066
Mercury	62452-09-21 07:12 G	24531448.67	24531448.80	24531448.93	0.0137	0.0046
Venus	62452-11-19 19:26 G	24531508.13	24531508.31	24531508.51	0.0137	0.0068
Mercury	62452-12-18 10:34 G	24531536.81	24531536.94	24531537.08	0.0137	0.0026
Mercury	62453-03-16 14:10 G	24531624.96	24531625.09	24531625.23	0.0137	0.0006
Mercury	62453-06-12 17:46 G	24531713.10	24531713.24	24531713.38	0.0137	0.0015
Venus	62453-07-04 03:22 G	24531734.43	24531734.64	24531734.86	0.0137	0.0034
Mercury	62453-09-08 21:07 G	24531801.25	24531801.38	24531801.52	0.0137	0.0035
Mercury	62453-12-06 00:43 G	24531889.41	24531889.53	24531889.66	0.0138	0.0055

Venus	62454-02-15 11:31 G	24531960.76	24531960.98	24531961.20	0.0138	0.0001
Mercury	62454-03-04 04:05 G	24531977.56	24531977.67	24531977.79	0.0138	0.0075
Mercury	62454-05-31 07:41 G	24532065.72	24532065.82	24532065.92	0.0138	0.0095
Mercury	62454-08-27 11:02 G	24532153.89	24532153.96	24532154.04	0.0138	0.0115
Venus	62454-09-29 19:26 G	24532187.10	24532187.31	24532187.53	0.0138	0.0034
Mercury	62454-11-23 14:24 G	24532242.08	24532242.10	24532242.13	0.0138	0.0135
Venus	62455-05-14 03:36 G	24532413.47	24532413.65	24532413.84	0.0138	0.0069
Venus	62455-12-26 11:31 G	24532639.86	24532639.98	24532640.15	0.0138	0.0104
Venus	62456-08-08 20:10 G	24532866.33	24532866.34	24532866.38	0.0139	0.0138
Moon	62458-06-04 08:53 G	24533530.74	24533530.87	24533531.01	0.0139	0.0119
Earth	62458-06-04 11:02 G	24533530.85	24533530.96	24533531.08	0.0139	0.0124 *
Earth	62459-06-09 03:50 G	24533900.44	24533900.66	24533900.88	0.0140	0.0069
Moon	62459-06-09 05:46 G	24533900.53	24533900.74	24533900.96	0.0140	0.0071 *
Moon	62460-06-12 19:26 G	24534270.06	24534270.31	24534270.58	0.0140	0.0016
Earth	62460-06-12 21:22 G	24534270.13	24534270.39	24534270.64	0.0140	0.0014 *
Earth	62461-06-17 15:36 G	24534639.91	24534640.15	24534640.39	0.0141	0.0043
Moon	62461-06-17 16:19 G	24534639.96	24534640.18	24534640.42	0.0141	0.0050 *
Moon	62462-06-22 09:36 G	24535009.72	24535009.90	24535010.11	0.0141	0.0093
Earth	62462-06-22 10:48 G	24535009.77	24535009.95	24535010.13	0.0141	0.0100 *
Mars	62475-07-05 21:22 G	24539771.39	24539771.39	24539771.41	0.0144	0.0144
Venus	62491-12-12 04:05 G	24545774.58	24545774.67	24545774.77	0.0141	0.0127
Mercury	62492-04-25 21:50 G	24545910.32	24545910.41	24545910.51	0.0141	0.0118
Mercury	62492-07-23 04:34 G	24545998.57	24545998.69	24545998.84	0.0141	0.0091
Venus	62492-07-25 13:55 G	24546000.92	24546001.08	24546001.26	0.0141	0.0090
Mercury	62492-10-19 11:46 G	24546086.83	24546086.99	24546087.16	0.0141	0.0061
Mercury	62493-01-15 18:43 G	24546175.11	24546175.28	24546175.47	0.0141	0.0033
Venus	62493-03-08 23:46 G	24546227.30	24546227.49	24546227.70	0.0141	0.0054
Mercury	62493-04-14 02:10 G	24546263.40	24546263.59	24546263.77	0.0141	0.0005
Mercury	62493-07-11 09:07 G	24546351.70	24546351.88	24546352.06	0.0141	0.0026
Mercury	62493-10-07 16:19 G	24546440.01	24546440.18	24546440.35	0.0141	0.0055

Venus	62493-10-21 09:22 G	24546453.68	24546453.89	24546454.11	0.0141	0.0018
Mercury	62494-01-03 23:31 G	24546528.34	24546528.48	24546528.63	0.0141	0.0084
Mercury	62494-04-02 06:29 G	24546616.68	24546616.77	24546616.89	0.0140	0.0114
Venus	62494-06-04 18:58 G	24546680.07	24546680.29	24546680.51	0.0140	0.0019
Venus	62495-01-17 04:05 G	24546906.48	24546906.67	24546906.88	0.0140	0.0055
Venus	62495-08-31 13:12 G	24547132.90	24547133.05	24547133.23	0.0140	0.0090
Venus	62496-04-13 22:19 G	24547359.34	24547359.43	24547359.53	0.0140	0.0125
Earth	62498-12-09 19:12 G	24548329.12	24548329.30	24548329.51	0.0139	0.0090
Moon	62498-12-09 19:55 G	24548329.16	24548329.33	24548329.54	0.0139	0.0097 *
Moon	62499-12-14 09:36 G	24548698.66	24548698.90	24548699.14	0.0138	0.0028
Earth	62499-12-14 10:05 G	24548698.68	24548698.92	24548699.17	0.0138	0.0036 *
Earth	62500-12-19 00:00 G	24549068.25	24549068.50	24549068.76	0.0138	0.0018
Moon	62500-12-19 01:12 G	24549068.29	24549068.55	24549068.82	0.0138	0.0013 *
Moon	62501-12-23 11:31 G	24549437.78	24549437.98	24549438.19	0.0137	0.0073
Earth	62501-12-23 12:43 G	24549437.83	24549438.03	24549438.27	0.0137	0.0071 *
Earth	62502-12-28 00:58 G	24549807.45	24549807.54	24549807.67	0.0137	0.0122
Moon	62502-12-28 02:24 G	24549807.50	24549807.60	24549807.74	0.0137	0.0122 *
Mars	62517-10-15 07:26 G	24555212.49	24555212.81	24555213.15	0.0134	0.0019
Mercury	62535-10-26 00:14 G	24561797.45	24561797.51	24561797.59	0.0137	0.0120
Venus	62535-12-07 22:19 G	24561840.31	24561840.43	24561840.55	0.0137	0.0113
Mercury	62536-01-22 04:05 G	24561885.58	24561885.67	24561885.77	0.0137	0.0099
Mercury	62536-04-19 07:26 G	24561973.71	24561973.81	24561973.93	0.0137	0.0079
Mercury	62536-07-16 11:17 G	24562061.84	24562061.97	24562062.09	0.0137	0.0058
Venus	62536-07-21 05:46 G	24562066.57	24562066.74	24562066.92	0.0137	0.0080
Mercury	62536-10-12 14:53 G	24562149.98	24562150.12	24562150.25	0.0137	0.0038
Mercury	62537-01-08 18:29 G	24562238.13	24562238.27	24562238.40	0.0137	0.0018
Venus	62537-03-04 13:26 G	24562292.87	24562293.06	24562293.28	0.0137	0.0047
Mercury	62537-04-06 21:50 G	24562326.28	24562326.41	24562326.55	0.0137	0.0003
Mercury	62537-07-04 01:26 G	24562414.42	24562414.56	24562414.69	0.0137	0.0022
Mercury	62537-09-30 04:48 G	24562502.57	24562502.70	24562502.83	0.0137	0.0043

Venus	62537-10-16 21:22 G	24562519.18	24562519.39	24562519.61	0.0137	0.0013
Mercury	62537-12-27 08:10 G	24562590.73	24562590.84	24562590.97	0.0138	0.0063
Mercury	62538-03-25 11:46 G	24562678.89	24562678.99	24562679.10	0.0138	0.0082
Venus	62538-05-31 05:17 G	24562745.51	24562745.72	24562745.94	0.0138	0.0021
Mercury	62538-06-21 15:22 G	24562767.05	24562767.14	24562767.23	0.0138	0.0102
Mercury	62538-09-17 18:43 G	24562855.22	24562855.28	24562855.34	0.0138	0.0122
Venus	62539-01-12 13:12 G	24562971.86	24562972.05	24562972.26	0.0138	0.0055
Venus	62539-08-26 21:22 G	24563198.23	24563198.39	24563198.57	0.0138	0.0089
Venus	62540-04-09 05:46 G	24563424.66	24563424.74	24563424.85	0.0138	0.0124
Moon	62542-06-05 19:41 G	24564212.22	24564212.32	24564212.45	0.0139	0.0125
Earth	62542-06-05 22:48 G	24564212.33	24564212.45	24564212.59	0.0139	0.0118 *
Earth	62543-06-10 15:22 G	24564581.92	24564582.14	24564582.37	0.0140	0.0064
Moon	62543-06-10 17:46 G	24564582.02	24564582.24	24564582.46	0.0140	0.0062 *
Moon	62544-06-14 06:43 G	24564951.52	24564951.78	24564952.05	0.0140	0.0007
Earth	62544-06-14 08:53 G	24564951.62	24564951.87	24564952.13	0.0140	0.0009 *
Earth	62545-06-19 02:53 G	24565321.39	24565321.62	24565321.87	0.0141	0.0049
Moon	62545-06-19 04:48 G	24565321.47	24565321.70	24565321.94	0.0141	0.0044 *
Moon	62546-06-23 20:53 G	24565691.24	24565691.37	24565691.55	0.0141	0.0113
Earth	62546-06-23 22:05 G	24565691.26	24565691.42	24565691.60	0.0141	0.0105 *
Mars	62560-02-29 21:50 G	24570690.15	24570690.41	24570690.69	0.0144	0.0050
Mercury	62576-02-18 22:19 G	24576523.41	24576523.43	24576523.48	0.0141	0.0138
Venus	62576-03-25 22:34 G	24576559.31	24576559.44	24576559.59	0.0141	0.0105
Mercury	62576-05-17 05:17 G	24576611.62	24576611.72	24576611.85	0.0141	0.0109
Mercury	62576-08-13 12:29 G	24576699.88	24576700.02	24576700.17	0.0141	0.0080
Venus	62576-11-07 08:38 G	24576785.67	24576785.86	24576786.05	0.0141	0.0069
Mercury	62576-11-09 19:41 G	24576788.15	24576788.32	24576788.49	0.0141	0.0051
Mercury	62577-02-06 02:38 G	24576876.43	24576876.61	24576876.79	0.0141	0.0023
Mercury	62577-05-05 09:50 G	24576964.73	24576964.91	24576965.09	0.0141	0.0006
Venus	62577-06-21 18:14 G	24577012.05	24577012.26	24577012.48	0.0141	0.0032
Mercury	62577-08-01 16:48 G	24577053.03	24577053.20	24577053.39	0.0141	0.0036

Mercury	62577-10-29 00:00 G	24577141.35	24577141.50	24577141.67	0.0141	0.0065
Mercury	62578-01-25 07:26 G	24577229.67	24577229.81	24577229.95	0.0141	0.0094
Venus	62578-02-03 03:50 G	24577238.45	24577238.66	24577238.88	0.0141	0.0005
Mercury	62578-04-23 14:24 G	24577318.03	24577318.10	24577318.20	0.0141	0.0124
Venus	62578-09-17 13:26 G	24577464.85	24577465.06	24577465.27	0.0140	0.0040
Venus	62579-05-01 22:34 G	24577691.27	24577691.44	24577691.63	0.0140	0.0076
Venus	62579-12-14 07:41 G	24577917.70	24577917.82	24577917.96	0.0140	0.0111
Earth	62581-12-06 16:34 G	24578641.17	24578641.19	24578641.21	0.0139	0.0139
Moon	62582-12-11 07:26 G	24579010.61	24579010.81	24579011.04	0.0139	0.0078
Earth	62582-12-11 07:55 G	24579010.64	24579010.83	24579011.04	0.0139	0.0085 *
Moon	62583-12-15 22:19 G	24579380.20	24579380.43	24579380.67	0.0138	0.0037
Earth	62583-12-15 22:48 G	24579380.21	24579380.45	24579380.70	0.0138	0.0031 *
Earth	62584-12-19 12:43 G	24579749.79	24579750.03	24579750.29	0.0138	0.0023
Moon	62584-12-19 13:26 G	24579749.81	24579750.06	24579750.32	0.0138	0.0029 *
Moon	62585-12-24 01:12 G	24580119.35	24580119.55	24580119.76	0.0138	0.0073
Earth	62585-12-24 01:55 G	24580119.38	24580119.58	24580119.80	0.0138	0.0076 *
Earth	62586-12-28 13:55 G	24580489.01	24580489.08	24580489.19	0.0137	0.0127
Moon	62586-12-28 15:50 G	24580489.06	24580489.16	24580489.26	0.0137	0.0126 *
Venus	62619-08-08 09:07 G	24592398.81	24592398.88	24592398.98	0.0137	0.0126
Mercury	62619-08-20 04:34 G	24592410.66	24592410.69	24592410.73	0.0137	0.0131
Mercury	62619-11-16 08:10 G	24592498.77	24592498.84	24592498.93	0.0137	0.0111
Mercury	62620-02-12 12:00 G	24592586.89	24592587.00	24592587.10	0.0137	0.0090
Venus	62620-03-21 16:34 G	24592625.05	24592625.19	24592625.37	0.0137	0.0093
Mercury	62620-05-10 15:22 G	24592675.03	24592675.14	24592675.27	0.0137	0.0070
Mercury	62620-08-06 18:58 G	24592763.17	24592763.29	24592763.42	0.0137	0.0050
Mercury	62620-11-02 22:34 G	24592851.31	24592851.44	24592851.58	0.0137	0.0030
Venus	62620-11-03 00:29 G	24592851.33	24592851.52	24592851.72	0.0137	0.0059 *
Mercury	62621-01-30 02:10 G	24592939.45	24592939.59	24592939.73	0.0137	0.0009
Mercury	62621-04-28 05:46 G	24593027.60	24593027.74	24593027.88	0.0137	0.0011
Venus	62621-06-17 08:10 G	24593077.63	24593077.84	24593078.06	0.0137	0.0026

Mercury	62621-07-25 09:07 G	24593115.75	24593115.88	24593116.02	0.0137	0.0031
Mercury	62621-10-21 12:43 G	24593203.90	24593204.03	24593204.16	0.0138	0.0051
Mercury	62622-01-17 16:05 G	24593292.06	24593292.17	24593292.29	0.0138	0.0071
Venus	62622-01-29 16:05 G	24593303.95	24593304.17	24593304.39	0.0138	0.0008
Mercury	62622-04-15 19:41 G	24593380.22	24593380.32	24593380.42	0.0138	0.0091
Mercury	62622-07-12 23:02 G	24593468.38	24593468.46	24593468.54	0.0138	0.0111
Venus	62622-09-13 00:00 G	24593530.29	24593530.50	24593530.71	0.0138	0.0042
Mercury	62622-10-09 02:24 G	24593556.57	24593556.60	24593556.65	0.0138	0.0131
Venus	62623-04-27 08:10 G	24593756.66	24593756.84	24593757.02	0.0138	0.0077
Venus	62623-12-09 15:50 G	24593983.05	24593983.16	24593983.31	0.0138	0.0112
Moon	62626-06-07 09:36 G	24594893.74	24594893.90	24594894.08	0.0139	0.0106
Earth	62626-06-07 12:14 G	24594893.88	24594894.01	24594894.18	0.0139	0.0113 *
Earth	62627-06-12 05:02 G	24595263.48	24595263.71	24595263.95	0.0140	0.0058
Moon	62627-06-12 07:55 G	24595263.61	24595263.83	24595264.06	0.0140	0.0061 *
Moon	62628-06-15 19:55 G	24595633.07	24595633.33	24595633.59	0.0140	0.0003
Earth	62628-06-15 22:34 G	24595633.18	24595633.44	24595633.69	0.0140	0.0002 *
Earth	62629-06-20 16:34 G	24596002.97	24596003.19	24596003.44	0.0141	0.0055
Moon	62629-06-20 18:29 G	24596003.06	24596003.27	24596003.50	0.0141	0.0061 *
Moon	62630-06-25 09:36 G	24596372.75	24596372.90	24596373.10	0.0141	0.0105
Earth	62630-06-25 11:31 G	24596372.85	24596372.98	24596373.16	0.0141	0.0112 *
Venus	62659-11-25 08:10 G	24607117.74	24607117.84	24607117.96	0.0141	0.0120
Mercury	62660-03-11 06:43 G	24607224.71	24607224.78	24607224.87	0.0141	0.0126
Mercury	62660-06-07 13:41 G	24607312.95	24607313.07	24607313.21	0.0141	0.0097
Venus	62660-07-08 18:00 G	24607344.09	24607344.25	24607344.44	0.0141	0.0083
Mercury	62660-09-03 20:53 G	24607401.21	24607401.37	24607401.53	0.0141	0.0068
Mercury	62660-12-01 03:50 G	24607489.49	24607489.66	24607489.84	0.0141	0.0040
Venus	62661-02-20 04:05 G	24607570.47	24607570.67	24607570.88	0.0141	0.0046
Mercury	62661-02-27 11:02 G	24607577.78	24607577.96	24607578.14	0.0141	0.0011
Mercury	62661-05-26 18:00 G	24607666.07	24607666.25	24607666.44	0.0141	0.0019
Mercury	62661-08-23 01:12 G	24607754.38	24607754.55	24607754.73	0.0141	0.0047

Venus	62661-10-04 13:55 G	24607796.86	24607797.08	24607797.30	0.0141	0.0010
Mercury	62661-11-19 08:24 G	24607842.70	24607842.85	24607843.01	0.0141	0.0077
Mercury	62662-02-15 15:36 G	24607931.04	24607931.15	24607931.27	0.0141	0.0106
Mercury	62662-05-14 22:34 G	24608019.41	24608019.44	24608019.50	0.0141	0.0136
Venus	62662-05-18 23:17 G	24608023.26	24608023.47	24608023.69	0.0141	0.0027
Venus	62662-12-31 08:38 G	24608249.67	24608249.86	24608250.06	0.0140	0.0062
Venus	62663-08-14 17:31 G	24608476.09	24608476.23	24608476.40	0.0140	0.0098
Venus	62664-03-28 02:38 G	24608702.56	24608702.61	24608702.68	0.0140	0.0133
Earth	62665-12-08 05:31 G	24609322.68	24609322.73	24609322.82	0.0139	0.0133
Moon	62665-12-08 06:58 G	24609322.72	24609322.79	24609322.89	0.0139	0.0130 *
Moon	62666-12-12 20:53 G	24609692.17	24609692.37	24609692.59	0.0139	0.0085
Earth	62666-12-12 21:07 G	24609692.19	24609692.38	24609692.60	0.0139	0.0079 *
Earth	62667-12-17 12:00 G	24610061.76	24610062.00	24610062.26	0.0138	0.0026
Moon	62667-12-17 12:43 G	24610061.79	24610062.03	24610062.28	0.0138	0.0017 *
Moon	62668-12-21 02:10 G	24610431.34	24610431.59	24610431.86	0.0138	0.0023
Earth	62668-12-21 02:10 G	24610431.35	24610431.59	24610431.84	0.0138	0.0029 *
Moon	62669-12-25 14:38 G	24610800.93	24610801.11	24610801.31	0.0138	0.0085
Earth	62669-12-25 15:22 G	24610800.94	24610801.14	24610801.35	0.0138	0.0081 *
Earth	62670-12-30 03:36 G	24611170.60	24611170.65	24611170.73	0.0137	0.0133
Moon	62670-12-30 04:05 G	24611170.61	24611170.67	24611170.75	0.0137	0.0132 *
Mars	62685-03-04 01:41 G	24616348.33	24616348.57	24616348.85	0.0134	0.0083
Mercury	62703-09-10 12:14 G	24623111.96	24623112.01	24623112.08	0.0137	0.0123
Venus	62703-11-21 03:36 G	24623183.52	24623183.65	24623183.80	0.0137	0.0105
Mercury	62703-12-07 16:05 G	24623200.08	24623200.17	24623200.26	0.0137	0.0102
Mercury	62704-03-04 19:41 G	24623288.21	24623288.32	24623288.43	0.0137	0.0082
Mercury	62704-05-31 23:02 G	24623376.35	24623376.46	24623376.59	0.0137	0.0062
Venus	62704-07-04 11:02 G	24623409.78	24623409.96	24623410.15	0.0137	0.0072
Mercury	62704-08-28 02:53 G	24623464.49	24623464.62	24623464.75	0.0137	0.0041
Mercury	62704-11-24 06:29 G	24623552.63	24623552.77	24623552.90	0.0137	0.0022
Venus	62705-02-15 18:43 G	24623636.08	24623636.28	24623636.50	0.0137	0.0038

Mercury	62705-02-20 09:50 G	24623640.78	24623640.91	24623641.05	0.0137	0.0004
Mercury	62705-05-19 13:26 G	24623728.92	24623729.06	24623729.20	0.0137	0.0019
Mercury	62705-08-15 16:48 G	24623817.07	24623817.20	24623817.34	0.0137	0.0039
Venus	62705-09-30 02:38 G	24623862.39	24623862.61	24623862.83	0.0137	0.0005
Mercury	62705-11-11 20:24 G	24623905.23	24623905.35	24623905.47	0.0138	0.0059
Mercury	62706-02-07 23:46 G	24623993.38	24623993.49	24623993.61	0.0138	0.0079
Mercury	62706-05-07 03:07 G	24624081.55	24624081.63	24624081.73	0.0138	0.0099
Venus	62706-05-14 10:19 G	24624088.72	24624088.93	24624089.14	0.0138	0.0030
Mercury	62706-08-03 06:29 G	24624169.72	24624169.77	24624169.85	0.0138	0.0119
Venus	62706-12-26 18:00 G	24624315.07	24624315.25	24624315.45	0.0138	0.0064
Venus	62707-08-10 01:55 G	24624541.45	24624541.58	24624541.75	0.0138	0.0099
Venus	62708-03-23 10:19 G	24624767.89	24624767.93	24624768.01	0.0138	0.0133
Moon	62710-06-08 21:50 G	24625575.26	24625575.41	24625575.56	0.0139	0.0114
Earth	62710-06-09 01:26 G	24625575.40	24625575.56	24625575.72	0.0139	0.0107 *
Earth	62711-06-13 17:17 G	24625945.00	24625945.22	24625945.47	0.0140	0.0053
Moon	62711-06-13 20:24 G	24625945.12	24625945.35	24625945.59	0.0140	0.0050 *
Moon	62712-06-17 07:55 G	24626314.58	24626314.83	24626315.10	0.0140	0.0005
Earth	62712-06-17 11:02 G	24626314.71	24626314.96	24626315.22	0.0140	0.0003 *
Earth	62713-06-22 05:02 G	24626684.49	24626684.71	24626684.95	0.0140	0.0060
Moon	62713-06-22 07:55 G	24626684.60	24626684.83	24626685.06	0.0140	0.0056 *
Moon	62714-06-26 22:34 G	24627054.32	24627054.44	24627054.56	0.0141	0.0123
Earth	62714-06-27 00:29 G	24627054.38	24627054.52	24627054.67	0.0141	0.0116 *
Mars	62727-07-21 14:24 G	24631826.87	24631827.10	24631827.36	0.0144	0.0075
Venus	62743-07-26 17:02 G	24637676.16	24637676.21	24637676.29	0.0142	0.0135
Venus	62744-03-09 03:22 G	24637902.49	24637902.64	24637902.80	0.0141	0.0098
Mercury	62744-04-01 14:53 G	24637926.02	24637926.12	24637926.22	0.0141	0.0115
Mercury	62744-06-28 21:36 G	24638014.27	24638014.40	24638014.55	0.0141	0.0087
Mercury	62744-09-25 04:48 G	24638102.54	24638102.70	24638102.87	0.0141	0.0058
Venus	62744-10-21 13:12 G	24638128.86	24638129.05	24638129.25	0.0141	0.0061
Mercury	62744-12-22 11:46 G	24638190.82	24638190.99	24638191.17	0.0141	0.0029

Mercury	62745-03-20 18:58 G	24638279.11	24638279.29	24638279.47	0.0141	0.0002
Venus	62745-06-04 23:02 G	24638355.25	24638355.46	24638355.68	0.0141	0.0024
Mercury	62745-06-17 02:10 G	24638367.41	24638367.59	24638367.77	0.0141	0.0029
Mercury	62745-09-13 09:07 G	24638455.72	24638455.88	24638456.05	0.0141	0.0059
Mercury	62745-12-10 16:19 G	24638544.04	24638544.18	24638544.33	0.0141	0.0088
Venus	62746-01-17 08:38 G	24638581.65	24638581.86	24638582.08	0.0141	0.0013
Mercury	62746-03-08 23:31 G	24638632.39	24638632.48	24638632.59	0.0141	0.0117
Venus	62746-08-31 18:14 G	24638808.06	24638808.26	24638808.47	0.0141	0.0049
Venus	62747-04-15 03:22 G	24639034.47	24639034.64	24639034.82	0.0140	0.0084
Venus	62747-11-27 12:14 G	24639260.91	24639261.01	24639261.13	0.0140	0.0120
Earth	62749-12-09 18:43 G	24640004.19	24640004.28	24640004.39	0.0139	0.0127
Moon	62749-12-09 20:10 G	24640004.27	24640004.34	24640004.42	0.0139	0.0132 *
Moon	62750-12-14 09:07 G	24640373.65	24640373.88	24640374.11	0.0139	0.0067
Earth	62750-12-14 10:19 G	24640373.73	24640373.93	24640374.16	0.0139	0.0074 *
Earth	62751-12-19 01:26 G	24640743.31	24640743.56	24640743.82	0.0138	0.0019
Moon	62751-12-19 02:10 G	24640743.35	24640743.59	24640743.83	0.0138	0.0026 *
Moon	62752-12-22 14:53 G	24641112.88	24641113.12	24641113.38	0.0138	0.0041
Earth	62752-12-22 15:22 G	24641112.91	24641113.14	24641113.40	0.0138	0.0034 *
Earth	62753-12-27 04:34 G	24641482.51	24641482.69	24641482.90	0.0138	0.0087
Moon	62753-12-27 05:02 G	24641482.52	24641482.71	24641482.91	0.0138	0.0083 *
Mars	62769-10-29 18:58 G	24647268.09	24647268.29	24647268.50	0.0134	0.0105
Mercury	62787-07-04 16:34 G	24653725.17	24653725.19	24653725.22	0.0137	0.0134
Venus	62787-07-21 14:24 G	24653742.01	24653742.10	24653742.23	0.0137	0.0118
Mercury	62787-09-30 20:10 G	24653813.27	24653813.34	24653813.43	0.0137	0.0114
Mercury	62787-12-28 00:00 G	24653901.40	24653901.50	24653901.60	0.0137	0.0093
Venus	62788-03-03 22:19 G	24653968.26	24653968.43	24653968.60	0.0137	0.0084
Mercury	62788-03-25 03:36 G	24653989.53	24653989.65	24653989.77	0.0137	0.0073
Mercury	62788-06-21 06:58 G	24654077.67	24654077.79	24654077.92	0.0137	0.0053
Mercury	62788-09-17 10:34 G	24654165.81	24654165.94	24654166.08	0.0137	0.0033
Venus	62788-10-16 05:31 G	24654194.54	24654194.73	24654194.94	0.0137	0.0052

Mercury	62788-12-14 14:10 G	24654253.95	24654254.09	24654254.23	0.0137	0.0013
Mercury	62789-03-12 17:46 G	24654342.10	24654342.24	24654342.38	0.0137	0.0008
Venus	62789-05-30 13:12 G	24654420.84	24654421.05	24654421.27	0.0137	0.0018
Mercury	62789-06-08 21:07 G	24654430.25	24654430.38	24654430.52	0.0137	0.0028
Mercury	62789-09-05 00:43 G	24654518.40	24654518.53	24654518.66	0.0137	0.0047
Mercury	62789-12-02 04:05 G	24654606.56	24654606.67	24654606.79	0.0138	0.0067
Venus	62790-01-11 20:53 G	24654647.16	24654647.37	24654647.59	0.0138	0.0017
Mercury	62790-02-28 07:26 G	24654694.72	24654694.81	24654694.92	0.0138	0.0088
Mercury	62790-05-27 11:02 G	24654782.88	24654782.96	24654783.05	0.0138	0.0107
Mercury	62790-08-23 14:24 G	24654871.06	24654871.10	24654871.16	0.0138	0.0127
Venus	62790-08-26 04:34 G	24654873.50	24654873.69	24654873.91	0.0138	0.0051
Venus	62791-04-09 12:43 G	24655099.87	24655100.03	24655100.21	0.0138	0.0085
Venus	62791-11-21 20:38 G	24655326.27	24655326.36	24655326.49	0.0138	0.0120
Moon	62794-06-09 11:17 G	24656256.80	24656256.97	24656257.17	0.0139	0.0094
Earth	62794-06-09 14:38 G	24656256.95	24656257.11	24656257.30	0.0139	0.0101 *
Earth	62795-06-14 07:12 G	24656626.57	24656626.80	24656627.05	0.0140	0.0046
Moon	62795-06-14 10:48 G	24656626.72	24656626.95	24656627.19	0.0140	0.0050 *
Moon	62796-06-17 21:36 G	24656996.14	24656996.40	24656996.66	0.0140	0.0010
Earth	62796-06-18 00:43 G	24656996.28	24656996.53	24656996.79	0.0140	0.0010 *
Earth	62797-06-22 18:58 G	24657366.07	24657366.29	24657366.52	0.0140	0.0066
Moon	62797-06-22 21:50 G	24657366.20	24657366.41	24657366.63	0.0140	0.0071 *
Moon	62798-06-27 11:02 G	24657735.83	24657735.96	24657736.13	0.0141	0.0116
Earth	62798-06-27 14:10 G	24657735.97	24657736.09	24657736.22	0.0141	0.0122 *
Mars	62812-03-15 20:24 G	24662746.23	24662746.35	24662746.52	0.0144	0.0126
Venus	62827-11-07 12:58 G	24668460.92	24668461.04	24668461.18	0.0142	0.0113
Mercury	62828-01-24 16:19 G	24668539.11	24668539.18	24668539.24	0.0141	0.0131
Mercury	62828-04-21 23:02 G	24668627.35	24668627.46	24668627.59	0.0141	0.0103
Venus	62828-06-20 23:02 G	24668687.28	24668687.46	24668687.65	0.0141	0.0076
Mercury	62828-07-19 06:00 G	24668715.60	24668715.75	24668715.91	0.0141	0.0074
Mercury	62828-10-15 13:12 G	24668803.88	24668804.05	24668804.22	0.0141	0.0045

Mercury	62829-01-11 20:10 G	24668892.16	24668892.34	24668892.52	0.0141	0.0017
Venus	62829-02-02 08:53 G	24668913.67	24668913.87	24668914.09	0.0141	0.0039
Mercury	62829-04-10 03:22 G	24668980.46	24668980.64	24668980.82	0.0141	0.0013
Mercury	62829-07-07 10:19 G	24669068.76	24669068.93	24669069.11	0.0141	0.0042
Venus	62829-09-16 18:43 G	24669140.07	24669140.28	24669140.50	0.0141	0.0004
Mercury	62829-10-03 17:31 G	24669157.08	24669157.23	24669157.39	0.0141	0.0071
Mercury	62829-12-31 00:43 G	24669245.41	24669245.53	24669245.66	0.0141	0.0100
Mercury	62830-03-29 07:41 G	24669333.77	24669333.82	24669333.91	0.0141	0.0130
Venus	62830-05-01 04:19 G	24669366.47	24669366.68	24669366.89	0.0141	0.0034
Venus	62830-12-13 13:26 G	24669592.88	24669593.06	24669593.26	0.0140	0.0071
Venus	62831-07-27 22:34 G	24669819.31	24669819.44	24669819.59	0.0140	0.0106
Earth	62833-12-10 08:53 G	24670685.75	24670685.87	24670686.00	0.0139	0.0121
Moon	62833-12-10 11:02 G	24670685.85	24670685.96	24670686.10	0.0139	0.0119 *
Moon	62834-12-14 23:17 G	24671055.25	24671055.47	24671055.69	0.0139	0.0072
Earth	62834-12-15 00:43 G	24671055.31	24671055.53	24671055.76	0.0139	0.0066 *
Earth	62835-12-19 15:36 G	24671424.90	24671425.15	24671425.41	0.0138	0.0013
Moon	62835-12-19 17:17 G	24671424.97	24671425.22	24671425.46	0.0138	0.0005 *
Moon	62836-12-23 04:48 G	24671794.45	24671794.70	24671794.96	0.0138	0.0034
Earth	62836-12-23 05:46 G	24671794.50	24671794.74	24671794.99	0.0138	0.0041 *
Earth	62837-12-27 18:58 G	24672164.11	24672164.29	24672164.49	0.0138	0.0093
Moon	62837-12-27 19:12 G	24672164.15	24672164.30	24672164.50	0.0138	0.0098 *
Venus	62871-03-21 01:55 G	24684300.51	24684300.58	24684300.64	0.0136	0.0130
Mercury	62871-07-25 00:14 G	24684426.47	24684426.51	24684426.57	0.0137	0.0126
Mercury	62871-10-21 04:05 G	24684514.58	24684514.67	24684514.76	0.0137	0.0105
Venus	62871-11-02 08:38 G	24684526.73	24684526.86	24684527.03	0.0137	0.0098
Mercury	62872-01-17 07:41 G	24684602.71	24684602.82	24684602.93	0.0137	0.0085
Mercury	62872-04-14 11:17 G	24684690.85	24684690.97	24684691.09	0.0137	0.0065
Venus	62872-06-15 16:19 G	24684752.99	24684753.18	24684753.37	0.0137	0.0064
Mercury	62872-07-11 14:38 G	24684778.99	24684779.11	24684779.25	0.0137	0.0045
Mercury	62872-10-07 18:14 G	24684867.13	24684867.26	24684867.40	0.0137	0.0025

Mercury	62873-01-03 21:50 G	24684955.28	24684955.41	24684955.55	0.0137	0.0005
Venus	62873-01-27 23:46 G	24684979.28	24684979.49	24684979.71	0.0137	0.0031
Mercury	62873-04-02 01:26 G	24685043.42	24685043.56	24685043.70	0.0137	0.0016
Mercury	62873-06-29 04:48 G	24685131.57	24685131.70	24685131.84	0.0137	0.0036
Venus	62873-09-11 07:26 G	24685205.59	24685205.81	24685206.03	0.0137	0.0003
Mercury	62873-09-25 08:24 G	24685219.73	24685219.85	24685219.98	0.0137	0.0055
Mercury	62873-12-22 11:46 G	24685307.88	24685307.99	24685308.11	0.0137	0.0075
Mercury	62874-03-20 15:07 G	24685396.04	24685396.13	24685396.24	0.0138	0.0096
Venus	62874-04-25 15:07 G	24685431.92	24685432.13	24685432.34	0.0138	0.0037
Mercury	62874-06-16 18:43 G	24685484.21	24685484.28	24685484.36	0.0138	0.0115
Mercury	62874-09-12 22:05 G	24685572.40	24685572.42	24685572.45	0.0138	0.0135
Venus	62874-12-07 23:02 G	24685658.28	24685658.46	24685658.65	0.0138	0.0071
Venus	62875-07-22 06:58 G	24685884.66	24685884.79	24685884.94	0.0138	0.0105
Moon	62878-06-10 00:00 G	24686938.33	24686938.50	24686938.68	0.0139	0.0101
Earth	62878-06-10 03:22 G	24686938.48	24686938.64	24686938.85	0.0139	0.0095 *
Earth	62879-06-14 20:10 G	24687308.10	24687308.34	24687308.58	0.0140	0.0040
Moon	62879-06-14 23:17 G	24687308.24	24687308.47	24687308.72	0.0140	0.0037 *
Moon	62880-06-18 10:05 G	24687677.66	24687677.92	24687678.17	0.0140	0.0015
Earth	62880-06-18 13:41 G	24687677.81	24687678.07	24687678.32	0.0140	0.0015 *
Earth	62881-06-23 07:26 G	24688047.60	24688047.81	24688048.04	0.0140	0.0072
Moon	62881-06-23 10:34 G	24688047.74	24688047.94	24688048.18	0.0140	0.0069 *
Moon	62882-06-27 23:46 G	24688417.42	24688417.49	24688417.57	0.0141	0.0134
Earth	62882-06-28 02:38 G	24688417.51	24688417.61	24688417.72	0.0141	0.0127 *
Venus	62911-07-08 20:53 G	24699019.30	24699019.37	24699019.48	0.0142	0.0129
Mercury	62912-02-14 23:46 G	24699240.41	24699240.49	24699240.59	0.0142	0.0121
Venus	62912-02-20 07:12 G	24699245.65	24699245.80	24699245.98	0.0142	0.0092
Mercury	62912-05-13 06:58 G	24699328.65	24699328.79	24699328.92	0.0141	0.0093
Mercury	62912-08-09 13:41 G	24699416.92	24699417.07	24699417.24	0.0141	0.0064
Venus	62912-10-03 17:31 G	24699472.03	24699472.23	24699472.43	0.0141	0.0054
Mercury	62912-11-05 20:53 G	24699505.19	24699505.37	24699505.54	0.0141	0.0036

Mercury	62913-02-02 03:50 G	24699593.48	24699593.66	24699593.84	0.0141	0.0007
Mercury	62913-05-01 11:02 G	24699681.78	24699681.96	24699682.14	0.0141	0.0022
Venus	62913-05-18 03:07 G	24699698.42	24699698.63	24699698.85	0.0141	0.0018
Mercury	62913-07-28 18:00 G	24699770.09	24699770.25	24699770.43	0.0141	0.0052
Mercury	62913-10-25 00:58 G	24699858.40	24699858.54	24699858.70	0.0141	0.0081
Venus	62913-12-30 12:58 G	24699924.82	24699925.04	24699925.25	0.0141	0.0019
Mercury	62914-01-21 08:24 G	24699946.74	24699946.85	24699946.97	0.0141	0.0110
Mercury	62914-04-19 15:50 G	24700035.13	24700035.16	24700035.18	0.0141	0.0139
Venus	62914-08-13 22:05 G	24700151.24	24700151.42	24700151.63	0.0141	0.0056
Venus	62915-03-28 07:26 G	24700377.66	24700377.81	24700377.99	0.0140	0.0091
Venus	62915-11-09 16:48 G	24700604.11	24700604.20	24700604.29	0.0140	0.0127
Earth	62917-12-11 20:53 G	24701367.24	24701367.37	24701367.52	0.0139	0.0115
Moon	62917-12-11 22:48 G	24701367.34	24701367.45	24701367.60	0.0139	0.0119 *
Moon	62918-12-16 10:34 G	24701736.70	24701736.94	24701737.18	0.0139	0.0055
Earth	62918-12-16 13:12 G	24701736.82	24701737.05	24701737.28	0.0139	0.0060 *
Earth	62919-12-21 04:19 G	24702106.43	24702106.68	24702106.93	0.0138	0.0006
Moon	62919-12-21 06:00 G	24702106.50	24702106.75	24702106.99	0.0138	0.0014 *
Moon	62920-12-24 16:34 G	24702475.97	24702476.19	24702476.45	0.0138	0.0054
Earth	62920-12-24 18:43 G	24702476.04	24702476.28	24702476.52	0.0138	0.0046 *
Earth	62921-12-29 07:55 G	24702845.67	24702845.83	24702846.02	0.0138	0.0099
Moon	62921-12-29 09:22 G	24702845.72	24702845.89	24702846.08	0.0138	0.0094 *
Mars	62937-03-18 14:53 G	24708403.79	24708404.12	24708404.45	0.0134	0.0004
Venus	62955-07-03 19:26 G	24715085.20	24715085.31	24715085.45	0.0137	0.0111
Mercury	62955-08-15 08:10 G	24715127.77	24715127.84	24715127.91	0.0137	0.0117
Mercury	62955-11-11 11:46 G	24715215.90	24715215.99	24715216.09	0.0137	0.0097
Mercury	62956-02-07 15:22 G	24715304.03	24715304.14	24715304.26	0.0137	0.0076
Venus	62956-02-15 02:53 G	24715311.45	24715311.62	24715311.81	0.0137	0.0078
Mercury	62956-05-05 18:58 G	24715392.17	24715392.29	24715392.42	0.0137	0.0056
Mercury	62956-08-01 22:34 G	24715480.31	24715480.44	24715480.57	0.0137	0.0036
Venus	62956-09-28 10:19 G	24715537.73	24715537.93	24715538.14	0.0137	0.0044

Mercury	62956-10-29 02:10 G	24715568.45	24715568.59	24715568.73	0.0137	0.0016
Mercury	62957-01-25 05:31 G	24715656.60	24715656.73	24715656.87	0.0137	0.0006
Mercury	62957-04-23 09:07 G	24715744.75	24715744.88	24715745.02	0.0137	0.0024
Venus	62957-05-12 18:00 G	24715764.03	24715764.25	24715764.47	0.0137	0.0010
Mercury	62957-07-20 12:29 G	24715832.90	24715833.02	24715833.16	0.0137	0.0044
Mercury	62957-10-16 16:05 G	24715921.05	24715921.17	24715921.29	0.0137	0.0064
Venus	62957-12-25 01:26 G	24715990.35	24715990.56	24715990.78	0.0137	0.0024
Mercury	62958-01-12 19:26 G	24716009.21	24716009.31	24716009.42	0.0137	0.0084
Mercury	62958-04-10 22:48 G	24716097.37	24716097.45	24716097.55	0.0138	0.0104
Mercury	62958-07-08 02:24 G	24716185.55	24716185.60	24716185.66	0.0138	0.0123
Venus	62958-08-08 09:07 G	24716216.69	24716216.88	24716217.09	0.0138	0.0058
Venus	62959-03-22 17:02 G	24716443.07	24716443.21	24716443.39	0.0138	0.0092
Venus	62959-11-04 01:12 G	24716669.48	24716669.55	24716669.65	0.0138	0.0126
Moon	62962-06-11 13:26 G	24717619.86	24717620.06	24717620.27	0.0139	0.0080
Earth	62962-06-11 16:48 G	24717620.02	24717620.20	24717620.41	0.0139	0.0087 *
Earth	62963-06-16 09:22 G	24717989.65	24717989.89	24717990.14	0.0140	0.0033
Moon	62963-06-16 13:12 G	24717989.81	24717990.05	24717990.30	0.0140	0.0037 *
Moon	62964-06-19 23:17 G	24718359.22	24718359.47	24718359.73	0.0140	0.0024
Earth	62964-06-20 02:53 G	24718359.37	24718359.62	24718359.87	0.0140	0.0022 *
Earth	62965-06-24 20:53 G	24718729.16	24718729.37	24718729.59	0.0140	0.0078
Moon	62965-06-25 00:14 G	24718729.31	24718729.51	24718729.72	0.0140	0.0082 *
Moon	62966-06-29 12:00 G	24719098.92	24719099.00	24719099.13	0.0141	0.0128
Earth	62966-06-29 15:36 G	24719099.09	24719099.15	24719099.24	0.0141	0.0134 *
Mars	62979-08-04 11:17 G	24723882.68	24723882.97	24723883.26	0.0144	0.0003
Venus	62995-10-20 16:19 G	24729804.05	24729804.18	24729804.33	0.0142	0.0107
Mercury	62995-12-09 00:43 G	24729853.51	24729853.53	24729853.58	0.0142	0.0139
Mercury	62996-03-06 07:41 G	24729941.72	24729941.82	24729941.94	0.0142	0.0111
Mercury	62996-06-02 14:53 G	24730029.97	24730030.12	24730030.27	0.0141	0.0082
Venus	62996-06-03 02:24 G	24730030.42	24730030.60	24730030.79	0.0141	0.0070
Mercury	62996-08-29 21:36 G	24730118.24	24730118.40	24730118.58	0.0141	0.0054

Mercury	62996-11-26 04:48 G	24730206.52	24730206.70	24730206.88	0.0141	0.0025
Venus	62997-01-15 12:14 G	24730256.81	24730257.01	24730257.23	0.0141	0.0033
Mercury	62997-02-22 11:46 G	24730294.81	24730294.99	24730295.18	0.0141	0.0006
Mercury	62997-05-21 18:58 G	24730383.11	24730383.29	24730383.47	0.0141	0.0033
Mercury	62997-08-18 02:10 G	24730471.42	24730471.59	24730471.75	0.0141	0.0062
Venus	62997-08-29 22:19 G	24730483.21	24730483.43	24730483.64	0.0141	0.0004
Mercury	62997-11-14 08:53 G	24730559.75	24730559.87	24730560.02	0.0141	0.0092
Mercury	62998-02-10 16:19 G	24730648.09	24730648.18	24730648.28	0.0141	0.0121
Venus	62998-04-13 07:41 G	24730709.62	24730709.82	24730710.03	0.0141	0.0041
Venus	62998-11-25 16:48 G	24730936.03	24730936.20	24730936.40	0.0141	0.0077
Venus	62999-07-10 01:55 G	24731162.47	24731162.58	24731162.72	0.0140	0.0113

64TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 64th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	63001-12-13 10:05 G	24732048.76	24732048.92	24732049.08	0.0139	0.0108		
Moon	63001-12-13 12:58 G	24732048.89	24732049.04	24732049.21	0.0139	0.0107	*	
Moon	63002-12-17 23:46 G	24732418.26	24732418.49	24732418.73	0.0139	0.0059		
Earth	63002-12-18 01:55 G	24732418.36	24732418.58	24732418.83	0.0139	0.0054	*	
Earth	63003-12-22 17:31 G	24732787.97	24732788.23	24732788.48	0.0138	0.0002		
Moon	63003-12-22 19:55 G	24732788.08	24732788.33	24732788.58	0.0138	0.0008	*	
Moon	63004-12-26 05:46 G	24733157.50	24733157.74	24733158.00	0.0138	0.0046		
Earth	63004-12-26 07:41 G	24733157.60	24733157.82	24733158.07	0.0138	0.0054	*	

Earth	63005-12-30 21:22 G	24733527.24	24733527.39	24733527.56	0.0138	0.0105
Moon	63005-12-30 22:48 G	24733527.32	24733527.45	24733527.61	0.0138	0.0111 *
Jupiter	63033-01-29 02:53 G	24743418.23	24743418.62	24743419.07	0.0135	0.0070
Venus	63039-03-04 06:43 G	24745643.69	24745643.78	24745643.88	0.0136	0.0123
Mercury	63039-06-09 12:14 G	24745740.97	24745741.01	24745741.06	0.0136	0.0129
Mercury	63039-09-05 15:50 G	24745829.08	24745829.16	24745829.25	0.0137	0.0108
Venus	63039-10-16 13:55 G	24745869.92	24745870.08	24745870.25	0.0137	0.0090
Mercury	63039-12-02 19:26 G	24745917.21	24745917.31	24745917.42	0.0137	0.0088
Mercury	63040-02-28 23:17 G	24746005.35	24746005.47	24746005.59	0.0137	0.0068
Mercury	63040-05-27 02:38 G	24746093.49	24746093.61	24746093.74	0.0137	0.0048
Venus	63040-05-29 21:07 G	24746096.19	24746096.38	24746096.58	0.0137	0.0057
Mercury	63040-08-23 06:14 G	24746181.63	24746181.76	24746181.90	0.0137	0.0028
Mercury	63040-11-19 09:50 G	24746269.77	24746269.91	24746270.05	0.0137	0.0008
Venus	63041-01-11 04:34 G	24746322.48	24746322.69	24746322.91	0.0137	0.0024
Mercury	63041-02-15 13:26 G	24746357.92	24746358.06	24746358.20	0.0137	0.0012
Mercury	63041-05-14 16:48 G	24746446.07	24746446.20	24746446.34	0.0137	0.0032
Mercury	63041-08-10 20:10 G	24746534.22	24746534.34	24746534.48	0.0137	0.0053
Venus	63041-08-25 12:14 G	24746548.79	24746549.01	24746549.22	0.0137	0.0010
Mercury	63041-11-06 23:46 G	24746622.38	24746622.49	24746622.61	0.0137	0.0072
Mercury	63042-02-03 03:22 G	24746710.54	24746710.64	24746710.74	0.0137	0.0092
Venus	63042-04-08 19:41 G	24746775.12	24746775.32	24746775.54	0.0137	0.0045
Mercury	63042-05-02 06:29 G	24746798.71	24746798.77	24746798.86	0.0137	0.0112
Mercury	63042-07-29 10:05 G	24746886.89	24746886.92	24746886.96	0.0138	0.0131
Venus	63042-11-21 03:50 G	24747001.48	24747001.66	24747001.84	0.0138	0.0078
Venus	63043-07-05 11:46 G	24747227.87	24747227.99	24747228.12	0.0138	0.0112
Earth	63045-06-08 14:38 G	24747932.05	24747932.11	24747932.18	0.0139	0.0133
Moon	63045-06-08 17:46 G	24747932.15	24747932.24	24747932.37	0.0139	0.0126 *
Moon	63046-06-13 02:24 G	24748301.42	24748301.60	24748301.81	0.0139	0.0088
Earth	63046-06-13 06:14 G	24748301.56	24748301.76	24748301.97	0.0139	0.0080 *
Earth	63047-06-17 22:34 G	24748671.19	24748671.44	24748671.69	0.0139	0.0026

Moon	63047-06-18 01:55 G	24748671.33	24748671.58	24748671.84	0.0139	0.0022 *
Moon	63048-06-21 11:46 G	24749040.75	24749040.99	24749041.25	0.0140	0.0028
Earth	63048-06-21 15:36 G	24749040.91	24749041.15	24749041.41	0.0140	0.0029 *
Earth	63049-06-26 09:22 G	24749410.70	24749410.89	24749411.11	0.0140	0.0084
Moon	63049-06-26 12:58 G	24749410.85	24749411.04	24749411.26	0.0140	0.0081 *
Earth	63050-07-01 03:50 G	24749780.65	24749780.66	24749780.72	0.0141	0.0140
Venus	63079-06-20 23:46 G	24760362.39	24760362.49	24760362.60	0.0142	0.0123
Mercury	63079-12-30 08:10 G	24760554.78	24760554.84	24760554.91	0.0142	0.0131
Venus	63080-02-02 10:05 G	24760588.75	24760588.92	24760589.09	0.0142	0.0086
Mercury	63080-03-27 14:53 G	24760643.01	24760643.12	24760643.25	0.0142	0.0103
Mercury	63080-06-23 22:05 G	24760731.27	24760731.42	24760731.57	0.0142	0.0074
Venus	63080-09-15 19:55 G	24760815.14	24760815.33	24760815.54	0.0141	0.0049
Mercury	63080-09-20 05:02 G	24760819.54	24760819.71	24760819.88	0.0141	0.0045
Mercury	63080-12-17 12:00 G	24760907.82	24760908.00	24760908.18	0.0141	0.0017
Mercury	63081-03-15 19:12 G	24760996.12	24760996.30	24760996.48	0.0141	0.0013
Venus	63081-04-30 06:00 G	24761041.53	24761041.75	24761041.97	0.0141	0.0012
Mercury	63081-06-12 02:10 G	24761084.42	24761084.59	24761084.77	0.0141	0.0041
Mercury	63081-09-08 09:22 G	24761172.73	24761172.89	24761173.05	0.0141	0.0071
Mercury	63081-12-05 16:19 G	24761261.06	24761261.18	24761261.32	0.0141	0.0100
Venus	63081-12-12 15:22 G	24761267.93	24761268.14	24761268.36	0.0141	0.0025
Mercury	63082-03-03 23:31 G	24761349.42	24761349.48	24761349.56	0.0141	0.0129
Venus	63082-07-27 00:58 G	24761494.35	24761494.54	24761494.74	0.0141	0.0061
Venus	63083-03-10 10:19 G	24761720.78	24761720.93	24761721.09	0.0140	0.0097
Venus	63083-10-22 19:26 G	24761947.25	24761947.31	24761947.39	0.0140	0.0132
Earth	63085-12-13 20:53 G	24762730.21	24762730.37	24762730.55	0.0139	0.0103
Moon	63085-12-13 23:46 G	24762730.34	24762730.49	24762730.67	0.0139	0.0105 *
Moon	63086-12-18 10:05 G	24763099.68	24763099.92	24763100.17	0.0139	0.0044
Earth	63086-12-18 13:26 G	24763099.83	24763100.06	24763100.30	0.0139	0.0048 *
Earth	63087-12-23 05:02 G	24763469.45	24763469.71	24763469.96	0.0139	0.0006
Moon	63087-12-23 07:26 G	24763469.56	24763469.81	24763470.06	0.0139	0.0002 *

Moon	63088-12-26 16:34 G	24763838.98	24763839.19	24763839.43	0.0138	0.0066
Earth	63088-12-26 19:12 G	24763839.08	24763839.30	24763839.54	0.0138	0.0059 *
Earth	63089-12-31 09:07 G	24764208.74	24764208.88	24764209.04	0.0138	0.0110
Moon	63089-12-31 11:17 G	24764208.82	24764208.97	24764209.14	0.0138	0.0105 *
Mars	63104-08-06 08:53 G	24769539.66	24769539.87	24769540.11	0.0134	0.0097
Venus	63122-11-02 17:17 G	24776202.22	24776202.22	24776202.27	0.0136	0.0136
Venus	63123-06-17 00:29 G	24776428.39	24776428.52	24776428.68	0.0136	0.0103
Mercury	63123-06-30 19:55 G	24776442.27	24776442.33	24776442.40	0.0137	0.0120
Mercury	63123-09-26 23:46 G	24776530.40	24776530.49	24776530.58	0.0137	0.0100
Mercury	63123-12-24 03:22 G	24776618.53	24776618.64	24776618.75	0.0137	0.0080
Venus	63124-01-29 07:41 G	24776654.65	24776654.82	24776655.02	0.0137	0.0070
Mercury	63124-03-21 06:58 G	24776706.66	24776706.79	24776706.91	0.0137	0.0060
Mercury	63124-06-17 10:19 G	24776794.80	24776794.93	24776795.07	0.0137	0.0040
Venus	63124-09-11 15:22 G	24776880.93	24776881.14	24776881.35	0.0137	0.0036
Mercury	63124-09-13 13:55 G	24776882.95	24776883.08	24776883.22	0.0137	0.0020
Mercury	63124-12-10 17:31 G	24776971.09	24776971.23	24776971.37	0.0137	0.0002
Mercury	63125-03-08 21:07 G	24777059.24	24777059.38	24777059.52	0.0137	0.0020
Venus	63125-04-25 22:48 G	24777107.23	24777107.45	24777107.67	0.0137	0.0003
Mercury	63125-06-05 00:43 G	24777147.39	24777147.53	24777147.66	0.0137	0.0040
Mercury	63125-09-01 04:05 G	24777235.55	24777235.67	24777235.79	0.0137	0.0060
Mercury	63125-11-28 07:26 G	24777323.71	24777323.81	24777323.93	0.0137	0.0080
Venus	63125-12-08 06:14 G	24777333.56	24777333.76	24777333.98	0.0137	0.0032
Mercury	63126-02-24 11:02 G	24777411.87	24777411.96	24777412.05	0.0137	0.0100
Mercury	63126-05-23 14:24 G	24777500.04	24777500.10	24777500.17	0.0137	0.0120
Venus	63126-07-22 13:55 G	24777559.90	24777560.08	24777560.28	0.0138	0.0066
Venus	63127-03-05 22:19 G	24777786.28	24777786.43	24777786.58	0.0138	0.0099
Venus	63127-10-18 06:14 G	24778012.71	24778012.76	24778012.82	0.0138	0.0133
Earth	63129-06-10 03:50 G	24778613.58	24778613.66	24778613.79	0.0139	0.0127
Moon	63129-06-10 07:12 G	24778613.75	24778613.80	24778613.88	0.0139	0.0134 *
Moon	63130-06-14 16:19 G	24778982.97	24778983.18	24778983.41	0.0139	0.0067

Earth	63130-06-14 19:26 G	24778983.11	24778983.31	24778983.54	0.0139	0.0074	*
Earth	63131-06-19 12:00 G	24779352.75	24779353.00	24779353.25	0.0139	0.0020	
Moon	63131-06-19 15:36 G	24779352.91	24779353.15	24779353.41	0.0139	0.0026	*
Moon	63132-06-23 01:26 G	24779722.33	24779722.56	24779722.82	0.0140	0.0037	
Earth	63132-06-23 05:02 G	24779722.47	24779722.71	24779722.96	0.0140	0.0035	*
Earth	63133-06-27 22:19 G	24780092.26	24780092.43	24780092.65	0.0140	0.0091	
Moon	63133-06-28 02:24 G	24780092.42	24780092.60	24780092.80	0.0140	0.0094	*
Moon	63134-07-02 13:26 G	24780462.05	24780462.06	24780462.11	0.0141	0.0140	
Mars	63146-12-23 23:46 G	24785019.39	24785019.49	24785019.64	0.0144	0.0130	
Jupiter	63157-07-19 08:38 G	24788879.35	24788879.86	24788880.41	0.0144	0.0037	
Venus	63163-02-19 08:38 G	24790920.81	24790920.86	24790920.90	0.0142	0.0138	
Venus	63163-10-03 18:43 G	24791147.13	24791147.28	24791147.44	0.0142	0.0101	
Mercury	63164-01-20 15:50 G	24791256.08	24791256.16	24791256.26	0.0142	0.0121	
Mercury	63164-04-17 22:48 G	24791344.32	24791344.45	24791344.59	0.0142	0.0093	
Venus	63164-05-17 04:34 G	24791373.51	24791373.69	24791373.90	0.0142	0.0065	
Mercury	63164-07-15 05:46 G	24791432.59	24791432.74	24791432.91	0.0142	0.0064	
Mercury	63164-10-11 12:43 G	24791520.86	24791521.03	24791521.21	0.0141	0.0036	
Venus	63164-12-29 14:38 G	24791599.90	24791600.11	24791600.33	0.0141	0.0027	
Mercury	63165-01-07 19:55 G	24791609.15	24791609.33	24791609.51	0.0141	0.0006	
Mercury	63165-04-06 02:53 G	24791697.44	24791697.62	24791697.80	0.0141	0.0023	
Mercury	63165-07-03 10:05 G	24791785.75	24791785.92	24791786.09	0.0141	0.0052	
Venus	63165-08-13 00:29 G	24791826.31	24791826.52	24791826.74	0.0141	0.0010	
Mercury	63165-09-29 17:02 G	24791874.07	24791874.21	24791874.37	0.0141	0.0081	
Mercury	63165-12-27 00:14 G	24791962.40	24791962.51	24791962.63	0.0141	0.0110	
Mercury	63166-03-25 07:26 G	24792050.79	24792050.81	24792050.84	0.0141	0.0139	
Venus	63166-03-27 10:05 G	24792052.72	24792052.92	24792053.13	0.0141	0.0046	
Venus	63166-11-08 19:12 G	24792279.14	24792279.30	24792279.49	0.0141	0.0083	
Venus	63167-06-23 04:34 G	24792505.59	24792505.69	24792505.82	0.0140	0.0118	
Earth	63169-12-15 09:36 G	24793411.72	24793411.90	24793412.09	0.0139	0.0097	
Moon	63169-12-15 12:58 G	24793411.87	24793412.04	24793412.23	0.0139	0.0097	*

Moon	63170-12-19 22:48 G	24793781.22	24793781.45	24793781.70	0.0139	0.0048
Earth	63170-12-20 01:55 G	24793781.35	24793781.58	24793781.83	0.0139	0.0043 *
Earth	63171-12-24 17:31 G	24794150.98	24794151.23	24794151.48	0.0139	0.0011
Moon	63171-12-24 20:38 G	24794151.12	24794151.36	24794151.61	0.0139	0.0018 *
Moon	63172-12-28 05:17 G	24794520.49	24794520.72	24794520.96	0.0138	0.0056
Earth	63172-12-28 07:55 G	24794520.62	24794520.83	24794521.07	0.0138	0.0064 *
Earth	63174-01-01 22:05 G	24794890.28	24794890.42	24794890.56	0.0138	0.0115
Moon	63174-01-02 00:14 G	24794890.41	24794890.51	24794890.64	0.0138	0.0122 *
Mars	63189-04-01 23:17 G	24800459.25	24800459.47	24800459.74	0.0134	0.0089
Venus	63207-02-14 11:46 G	24806986.88	24806986.99	24806987.11	0.0136	0.0115
Mercury	63207-04-24 00:00 G	24807055.48	24807055.50	24807055.54	0.0136	0.0133
Mercury	63207-07-21 03:50 G	24807143.59	24807143.66	24807143.74	0.0137	0.0112
Venus	63207-09-28 18:58 G	24807213.12	24807213.29	24807213.47	0.0137	0.0082
Mercury	63207-10-17 07:26 G	24807231.71	24807231.81	24807231.92	0.0137	0.0092
Mercury	63208-01-13 11:02 G	24807319.85	24807319.96	24807320.08	0.0137	0.0072
Mercury	63208-04-10 14:38 G	24807407.98	24807408.11	24807408.24	0.0137	0.0051
Venus	63208-05-12 02:10 G	24807439.39	24807439.59	24807439.80	0.0137	0.0049
Mercury	63208-07-07 18:14 G	24807496.13	24807496.26	24807496.40	0.0137	0.0031
Mercury	63208-10-03 21:50 G	24807584.27	24807584.41	24807584.55	0.0137	0.0011
Venus	63208-12-24 09:36 G	24807665.68	24807665.90	24807666.12	0.0137	0.0015
Mercury	63208-12-31 01:26 G	24807672.42	24807672.56	24807672.69	0.0137	0.0009
Mercury	63209-03-29 04:48 G	24807760.57	24807760.70	24807760.84	0.0137	0.0029
Mercury	63209-06-25 08:24 G	24807848.72	24807848.85	24807848.98	0.0137	0.0049
Venus	63209-08-07 17:17 G	24807892.00	24807892.22	24807892.43	0.0137	0.0019
Mercury	63209-09-21 11:46 G	24807936.88	24807936.99	24807937.11	0.0137	0.0069
Mercury	63209-12-18 15:22 G	24808025.04	24808025.14	24808025.24	0.0137	0.0088
Mercury	63210-03-16 18:43 G	24808113.20	24808113.28	24808113.37	0.0137	0.0108
Venus	63210-03-22 00:58 G	24808118.34	24808118.54	24808118.74	0.0137	0.0052
Mercury	63210-06-12 22:05 G	24808201.38	24808201.42	24808201.48	0.0137	0.0128
Venus	63210-11-03 08:38 G	24808344.70	24808344.86	24808345.04	0.0138	0.0087

Venus	63211-06-17 16:34 G	24808571.10	24808571.19	24808571.31	0.0138	0.0121
Earth	63213-06-10 17:31 G	24809295.12	24809295.23	24809295.37	0.0139	0.0121
Moon	63213-06-10 20:53 G	24809295.23	24809295.37	24809295.53	0.0139	0.0113 *
Moon	63214-06-15 06:00 G	24809664.55	24809664.75	24809664.97	0.0139	0.0076
Earth	63214-06-15 09:07 G	24809664.67	24809664.88	24809665.11	0.0139	0.0068 *
Earth	63215-06-20 01:12 G	24810034.31	24810034.55	24810034.81	0.0139	0.0015
Moon	63215-06-20 04:48 G	24810034.44	24810034.70	24810034.95	0.0139	0.0009 *
Moon	63216-06-23 14:24 G	24810403.87	24810404.10	24810404.35	0.0140	0.0039
Earth	63216-06-23 18:14 G	24810404.02	24810404.26	24810404.51	0.0140	0.0041 *
Earth	63217-06-28 11:46 G	24810773.81	24810773.99	24810774.18	0.0140	0.0095
Moon	63217-06-28 15:07 G	24810773.95	24810774.13	24810774.33	0.0140	0.0094 *
Mars	63231-08-19 02:38 G	24815938.37	24815938.61	24815938.88	0.0144	0.0065
Venus	63247-06-03 02:24 G	24821705.48	24821705.60	24821705.72	0.0142	0.0117
Mercury	63247-11-13 16:19 G	24821869.17	24821869.18	24821869.21	0.0142	0.0141
Venus	63248-01-15 12:29 G	24821931.84	24821932.02	24821932.20	0.0142	0.0080
Mercury	63248-02-09 23:02 G	24821957.37	24821957.46	24821957.58	0.0142	0.0113
Mercury	63248-05-08 06:14 G	24822045.62	24822045.76	24822045.91	0.0142	0.0084
Mercury	63248-08-04 13:12 G	24822133.89	24822134.05	24822134.22	0.0142	0.0055
Venus	63248-08-28 22:34 G	24822158.24	24822158.44	24822158.65	0.0142	0.0043
Mercury	63248-10-31 20:10 G	24822222.17	24822222.34	24822222.52	0.0141	0.0027
Mercury	63249-01-28 03:07 G	24822310.45	24822310.63	24822310.82	0.0141	0.0004
Venus	63249-04-12 08:38 G	24822384.64	24822384.86	24822385.07	0.0141	0.0007
Mercury	63249-04-26 10:19 G	24822398.75	24822398.93	24822399.11	0.0141	0.0031
Mercury	63249-07-23 17:17 G	24822487.06	24822487.22	24822487.39	0.0141	0.0060
Mercury	63249-10-20 00:29 G	24822575.38	24822575.52	24822575.66	0.0141	0.0089
Venus	63249-11-24 18:00 G	24822611.05	24822611.25	24822611.47	0.0141	0.0031
Mercury	63250-01-16 07:26 G	24822663.73	24822663.81	24822663.92	0.0141	0.0119
Venus	63250-07-09 03:36 G	24822837.46	24822837.65	24822837.84	0.0141	0.0067
Venus	63251-02-20 12:43 G	24823063.90	24823064.03	24823064.19	0.0141	0.0104
Venus	63251-10-04 22:34 G	24823290.41	24823290.44	24823290.47	0.0140	0.0139

Earth	63253-12-15 20:24 G	24824093.18	24824093.35	24824093.56	0.0139	0.0093
Moon	63253-12-16 00:14 G	24824093.33	24824093.51	24824093.70	0.0139	0.0094 *
Moon	63254-12-20 09:22 G	24824462.65	24824462.89	24824463.15	0.0139	0.0035
Earth	63254-12-20 13:12 G	24824462.81	24824463.05	24824463.30	0.0139	0.0038 *
Earth	63255-12-25 04:48 G	24824832.45	24824832.70	24824832.95	0.0139	0.0016
Moon	63255-12-25 07:55 G	24824832.58	24824832.83	24824833.08	0.0139	0.0009 *
Moon	63256-12-28 15:50 G	24825201.96	24825202.16	24825202.39	0.0138	0.0076
Earth	63256-12-28 19:12 G	24825202.09	24825202.30	24825202.53	0.0138	0.0068 *
Earth	63258-01-02 08:53 G	24825571.77	24825571.87	24825572.01	0.0138	0.0120
Moon	63258-01-02 11:46 G	24825571.87	24825571.99	24825572.15	0.0138	0.0114 *
Venus	63290-10-14 22:19 G	24837545.37	24837545.43	24837545.52	0.0136	0.0128
Mercury	63291-05-14 07:55 G	24837756.78	24837756.83	24837756.89	0.0136	0.0124
Venus	63291-05-29 05:31 G	24837771.58	24837771.73	24837771.89	0.0136	0.0095
Mercury	63291-08-10 11:31 G	24837844.90	24837844.98	24837845.07	0.0137	0.0104
Mercury	63291-11-06 15:07 G	24837933.03	24837933.13	24837933.25	0.0137	0.0084
Venus	63292-01-10 12:43 G	24837997.84	24837998.03	24837998.23	0.0137	0.0062
Mercury	63292-02-02 18:43 G	24838021.16	24838021.28	24838021.41	0.0137	0.0064
Mercury	63292-04-30 22:19 G	24838109.30	24838109.43	24838109.57	0.0137	0.0043
Mercury	63292-07-28 01:55 G	24838197.45	24838197.58	24838197.72	0.0137	0.0023
Venus	63292-08-23 20:10 G	24838224.13	24838224.34	24838224.56	0.0137	0.0028
Mercury	63292-10-24 05:31 G	24838285.59	24838285.73	24838285.87	0.0137	0.0003
Mercury	63293-01-20 09:07 G	24838373.74	24838373.88	24838374.02	0.0137	0.0017
Venus	63293-04-07 03:50 G	24838450.44	24838450.66	24838450.88	0.0137	0.0005
Mercury	63293-04-18 12:29 G	24838461.89	24838462.02	24838462.16	0.0137	0.0037
Mercury	63293-07-15 15:50 G	24838550.05	24838550.16	24838550.30	0.0137	0.0058
Mercury	63293-10-11 19:41 G	24838638.20	24838638.32	24838638.43	0.0137	0.0077
Venus	63293-11-19 11:17 G	24838676.77	24838676.97	24838677.19	0.0137	0.0040
Mercury	63294-01-07 23:02 G	24838726.37	24838726.46	24838726.56	0.0137	0.0096
Mercury	63294-04-06 02:24 G	24838814.54	24838814.60	24838814.68	0.0137	0.0116
Mercury	63294-07-03 06:00 G	24838902.73	24838902.75	24838902.77	0.0137	0.0136

Venus	63294-07-03 18:58 G	24838903.12	24838903.29	24838903.49	0.0137	0.0074
Venus	63295-02-15 02:53 G	24839129.50	24839129.62	24839129.77	0.0138	0.0108
Earth	63297-06-11 06:43 G	24839976.66	24839976.78	24839976.94	0.0139	0.0115
Moon	63297-06-11 09:07 G	24839976.78	24839976.88	24839977.03	0.0139	0.0122 *
Moon	63298-06-15 19:12 G	24840346.09	24840346.30	24840346.54	0.0139	0.0055
Earth	63298-06-15 22:19 G	24840346.21	24840346.43	24840346.66	0.0139	0.0062 *
Earth	63299-06-20 14:24 G	24840715.85	24840716.10	24840716.36	0.0139	0.0008
Moon	63299-06-20 17:46 G	24840715.98	24840716.24	24840716.50	0.0139	0.0014 *
Moon	63300-06-25 03:50 G	24841085.44	24841085.66	24841085.91	0.0140	0.0049
Earth	63300-06-25 07:12 G	24841085.57	24841085.80	24841086.05	0.0140	0.0046 *
Earth	63301-06-30 00:29 G	24841455.35	24841455.52	24841455.71	0.0140	0.0101
Moon	63301-06-30 04:05 G	24841455.51	24841455.67	24841455.86	0.0140	0.0104 *
Venus	63331-02-01 10:48 G	24852263.90	24852263.95	24852264.04	0.0142	0.0133
Venus	63331-09-15 21:22 G	24852490.24	24852490.39	24852490.56	0.0142	0.0096
Mercury	63331-12-05 00:14 G	24852570.45	24852570.51	24852570.59	0.0142	0.0130
Mercury	63332-03-02 07:12 G	24852658.68	24852658.80	24852658.93	0.0142	0.0102
Venus	63332-04-29 07:26 G	24852716.62	24852716.81	24852717.02	0.0142	0.0059
Mercury	63332-05-29 13:55 G	24852746.94	24852747.08	24852747.25	0.0142	0.0074
Mercury	63332-08-25 21:07 G	24852835.21	24852835.38	24852835.55	0.0141	0.0045
Mercury	63332-11-22 04:05 G	24852923.50	24852923.67	24852923.85	0.0141	0.0016
Venus	63332-12-11 17:31 G	24852943.02	24852943.23	24852943.45	0.0141	0.0021
Mercury	63333-02-18 11:17 G	24853011.79	24853011.97	24853012.15	0.0141	0.0013
Mercury	63333-05-17 18:14 G	24853100.09	24853100.26	24853100.44	0.0141	0.0042
Venus	63333-07-26 03:22 G	24853169.42	24853169.64	24853169.86	0.0141	0.0016
Mercury	63333-08-14 01:12 G	24853188.40	24853188.55	24853188.72	0.0141	0.0071
Mercury	63333-11-10 08:24 G	24853276.73	24853276.85	24853276.98	0.0141	0.0100
Mercury	63334-02-06 15:22 G	24853365.09	24853365.14	24853365.23	0.0141	0.0130
Venus	63334-03-09 12:43 G	24853395.84	24853396.03	24853396.25	0.0141	0.0053
Venus	63334-10-21 22:34 G	24853622.28	24853622.44	24853622.61	0.0141	0.0089
Venus	63335-06-05 07:41 G	24853848.74	24853848.82	24853848.93	0.0140	0.0125

Moon	63336-12-12 12:58 G	24854404.99	24854405.04	24854405.10	0.0140	0.0136
Earth	63337-12-17 09:50 G	24854774.71	24854774.91	24854775.11	0.0139	0.0086
Moon	63337-12-17 13:26 G	24854774.87	24854775.06	24854775.27	0.0139	0.0087 *
Moon	63338-12-21 22:48 G	24855144.21	24855144.45	24855144.70	0.0139	0.0036
Earth	63338-12-22 02:24 G	24855144.35	24855144.60	24855144.85	0.0139	0.0032 *
Earth	63339-12-26 17:46 G	24855513.99	24855514.24	24855514.49	0.0139	0.0021
Moon	63339-12-26 21:22 G	24855514.15	24855514.39	24855514.64	0.0139	0.0028 *
Moon	63340-12-30 04:48 G	24855883.49	24855883.70	24855883.94	0.0138	0.0067
Earth	63340-12-30 08:24 G	24855883.64	24855883.85	24855884.07	0.0138	0.0074 *
Earth	63342-01-03 21:36 G	24856253.32	24856253.40	24856253.53	0.0138	0.0125
Moon	63342-01-04 00:58 G	24856253.49	24856253.54	24856253.64	0.0138	0.0132 *
Mars	63356-08-19 14:10 G	24861594.77	24861595.09	24861595.42	0.0134	0.0020
Venus	63375-01-27 16:19 G	24868330.06	24868330.18	24868330.32	0.0136	0.0108
Mercury	63375-03-08 12:00 G	24868369.99	24868370.00	24868370.01	0.0136	0.0136
Mercury	63375-06-04 15:36 G	24868458.08	24868458.15	24868458.23	0.0136	0.0116
Mercury	63375-08-31 19:12 G	24868546.21	24868546.30	24868546.41	0.0136	0.0095
Venus	63375-09-10 23:31 G	24868556.30	24868556.48	24868556.67	0.0137	0.0075
Mercury	63375-11-27 22:48 G	24868634.34	24868634.45	24868634.57	0.0137	0.0075
Mercury	63376-02-24 02:38 G	24868722.48	24868722.61	24868722.73	0.0137	0.0055
Venus	63376-04-24 06:43 G	24868782.58	24868782.78	24868783.00	0.0137	0.0042
Mercury	63376-05-22 06:14 G	24868810.62	24868810.76	24868810.89	0.0137	0.0035
Mercury	63376-08-18 09:36 G	24868898.77	24868898.90	24868899.04	0.0137	0.0015
Mercury	63376-11-14 13:12 G	24868986.91	24868987.05	24868987.19	0.0137	0.0006
Venus	63376-12-06 14:24 G	24869008.88	24869009.10	24869009.32	0.0137	0.0008
Mercury	63377-02-10 16:48 G	24869075.06	24869075.20	24869075.34	0.0137	0.0025
Mercury	63377-05-09 20:24 G	24869163.22	24869163.35	24869163.48	0.0137	0.0045
Venus	63377-07-20 21:50 G	24869235.20	24869235.41	24869235.63	0.0137	0.0026
Mercury	63377-08-05 23:46 G	24869251.37	24869251.49	24869251.61	0.0137	0.0065
Mercury	63377-11-02 03:07 G	24869339.53	24869339.63	24869339.74	0.0137	0.0085
Mercury	63378-01-29 06:43 G	24869427.70	24869427.78	24869427.87	0.0137	0.0105

Venus	63378-03-04 05:31 G	24869461.55	24869461.73	24869461.94	0.0137	0.0060
Mercury	63378-04-27 10:05 G	24869515.87	24869515.92	24869515.98	0.0137	0.0124
Venus	63378-10-16 13:12 G	24869687.91	24869688.05	24869688.23	0.0138	0.0095
Venus	63379-05-30 21:36 G	24869914.33	24869914.40	24869914.48	0.0138	0.0128
Earth	63381-06-12 20:10 G	24870658.19	24870658.34	24870658.50	0.0139	0.0108
Moon	63381-06-12 22:34 G	24870658.27	24870658.44	24870658.63	0.0139	0.0101 *
Moon	63382-06-17 08:53 G	24871027.66	24871027.87	24871028.10	0.0139	0.0064
Earth	63382-06-17 11:17 G	24871027.75	24871027.97	24871028.21	0.0139	0.0056 *
Earth	63383-06-22 03:22 G	24871397.39	24871397.64	24871397.89	0.0139	0.0003
Moon	63383-06-22 06:14 G	24871397.50	24871397.76	24871398.02	0.0139	0.0003 *
Moon	63384-06-25 16:34 G	24871766.97	24871767.19	24871767.43	0.0140	0.0049
Earth	63384-06-25 19:41 G	24871767.10	24871767.32	24871767.57	0.0140	0.0052 *
Earth	63385-06-30 12:58 G	24872136.89	24872137.04	24872137.22	0.0140	0.0106
Moon	63385-06-30 16:34 G	24872137.02	24872137.19	24872137.36	0.0140	0.0105 *
Mars	63399-01-06 16:05 G	24877074.92	24877075.17	24877075.45	0.0144	0.0062
Venus	63415-05-17 04:34 G	24883048.58	24883048.69	24883048.84	0.0142	0.0113
Mercury	63415-12-26 07:27 G	24883271.74	24883271.81	24883271.92	0.0142	0.0122
Venus	63415-12-29 14:53 G	24883274.95	24883275.12	24883275.32	0.0142	0.0076
Mercury	63416-03-23 14:39 G	24883359.98	24883360.11	24883360.25	0.0142	0.0093
Mercury	63416-06-19 21:22 G	24883448.24	24883448.39	24883448.56	0.0142	0.0065
Venus	63416-08-12 01:12 G	24883501.34	24883501.55	24883501.76	0.0141	0.0038
Mercury	63416-09-16 04:19 G	24883536.51	24883536.68	24883536.86	0.0141	0.0036
Mercury	63416-12-13 11:31 G	24883624.80	24883624.98	24883625.16	0.0141	0.0007
Mercury	63417-03-11 18:29 G	24883713.09	24883713.27	24883713.45	0.0141	0.0022
Venus	63417-03-26 11:17 G	24883727.75	24883727.97	24883728.19	0.0141	0.0001
Mercury	63417-06-08 01:27 G	24883801.40	24883801.56	24883801.74	0.0141	0.0051
Mercury	63417-09-04 08:24 G	24883889.71	24883889.85	24883890.01	0.0141	0.0081
Venus	63417-11-07 20:53 G	24883954.17	24883954.37	24883954.59	0.0141	0.0036
Mercury	63417-12-01 15:36 G	24883978.05	24883978.15	24883978.28	0.0141	0.0109
Mercury	63418-02-27 22:34 G	24884066.43	24884066.44	24884066.49	0.0141	0.0139

Venus	63418-06-22 06:29 G	24884180.59	24884180.77	24884180.96	0.0141	0.0073
Venus	63419-02-03 16:05 G	24884407.03	24884407.17	24884407.31	0.0141	0.0109
Moon	63420-12-14 00:15 G	24885086.51	24885086.51	24885086.53	0.0140	0.0140
Earth	63420-12-14 03:36 G	24885086.59	24885086.65	24885086.72	0.0140	0.0134
Earth	63421-12-18 20:39 G	24885456.17	24885456.36	24885456.58	0.0139	0.0081
Moon	63421-12-19 00:15 G	24885456.32	24885456.51	24885456.73	0.0139	0.0081 *
Moon	63422-12-23 09:36 G	24885825.65	24885825.90	24885826.15	0.0139	0.0024
Earth	63422-12-23 13:12 G	24885825.81	24885826.05	24885826.30	0.0139	0.0027 *
Earth	63423-12-28 04:34 G	24886195.45	24886195.69	24886195.95	0.0139	0.0027
Moon	63423-12-28 08:10 G	24886195.59	24886195.84	24886196.09	0.0139	0.0020 *
Moon	63424-12-31 15:22 G	24886564.96	24886565.14	24886565.35	0.0138	0.0087
Earth	63424-12-31 19:12 G	24886565.10	24886565.30	24886565.52	0.0138	0.0079 *
Earth	63426-01-05 09:07 G	24886934.80	24886934.88	24886934.97	0.0138	0.0129
Moon	63426-01-05 12:00 G	24886934.91	24886935.00	24886935.14	0.0138	0.0123 *
Venus	63458-09-28 02:39 G	24898888.52	24898888.61	24898888.71	0.0136	0.0121
Mercury	63459-03-29 19:27 G	24899071.27	24899071.31	24899071.36	0.0136	0.0128
Venus	63459-05-12 09:36 G	24899114.75	24899114.90	24899115.08	0.0136	0.0089
Mercury	63459-06-25 23:17 G	24899159.39	24899159.47	24899159.55	0.0136	0.0108
Mercury	63459-09-22 02:53 G	24899247.51	24899247.62	24899247.73	0.0136	0.0087
Mercury	63459-12-19 06:29 G	24899335.65	24899335.77	24899335.89	0.0137	0.0067
Venus	63459-12-24 16:48 G	24899341.01	24899341.20	24899341.41	0.0137	0.0056
Mercury	63460-03-16 10:05 G	24899423.79	24899423.92	24899424.05	0.0137	0.0047
Mercury	63460-06-12 13:41 G	24899511.94	24899512.07	24899512.21	0.0137	0.0027
Venus	63460-08-07 00:29 G	24899567.30	24899567.52	24899567.73	0.0137	0.0022
Mercury	63460-09-08 17:17 G	24899600.08	24899600.22	24899600.36	0.0137	0.0007
Mercury	63460-12-05 20:53 G	24899688.23	24899688.37	24899688.51	0.0137	0.0013
Mercury	63461-03-04 00:15 G	24899776.38	24899776.51	24899776.65	0.0137	0.0033
Venus	63461-03-21 08:10 G	24899793.62	24899793.84	24899794.06	0.0137	0.0012
Mercury	63461-05-31 03:51 G	24899864.54	24899864.66	24899864.79	0.0137	0.0053
Mercury	63461-08-27 07:12 G	24899952.69	24899952.80	24899952.93	0.0137	0.0073

Venus	63461-11-02 15:36 G	24900019.95	24900020.15	24900020.36	0.0137	0.0046
Mercury	63461-11-23 10:48 G	24900040.85	24900040.95	24900041.05	0.0137	0.0093
Mercury	63462-02-19 14:10 G	24900129.02	24900129.09	24900129.18	0.0137	0.0112
Mercury	63462-05-18 17:46 G	24900217.21	24900217.24	24900217.28	0.0137	0.0132
Venus	63462-06-16 23:31 G	24900246.30	24900246.48	24900246.66	0.0137	0.0080
Venus	63463-01-29 07:12 G	24900472.69	24900472.80	24900472.93	0.0138	0.0114
Earth	63465-06-14 08:10 G	24901339.68	24901339.84	24901340.03	0.0139	0.0102
Moon	63465-06-14 09:51 G	24901339.76	24901339.91	24901340.08	0.0139	0.0108 *
Moon	63466-06-18 21:07 G	24901709.16	24901709.38	24901709.63	0.0139	0.0043
Earth	63466-06-18 23:17 G	24901709.24	24901709.47	24901709.72	0.0139	0.0050 *
Earth	63467-06-23 15:22 G	24902078.88	24902079.14	24902079.39	0.0139	0.0004
Moon	63467-06-23 17:46 G	24902078.98	24902079.24	24902079.50	0.0139	0.0004 *
Moon	63468-06-27 05:17 G	24902448.51	24902448.72	24902448.95	0.0140	0.0061
Earth	63468-06-27 07:55 G	24902448.60	24902448.83	24902449.06	0.0140	0.0057 *
Earth	63469-07-02 00:58 G	24902818.40	24902818.54	24902818.70	0.0140	0.0112
Moon	63469-07-02 04:05 G	24902818.54	24902818.67	24902818.84	0.0140	0.0113 *
Mars	63483-09-02 20:10 G	24907994.23	24907994.34	24907994.47	0.0144	0.0131
Venus	63499-01-14 12:43 G	24913606.95	24913607.03	24913607.13	0.0142	0.0129
Venus	63499-08-28 23:03 G	24913833.31	24913833.46	24913833.64	0.0142	0.0092
Mercury	63499-10-19 08:24 G	24913884.83	24913884.85	24913884.89	0.0142	0.0140
Mercury	63500-01-15 15:07 G	24913973.04	24913973.13	24913973.25	0.0142	0.0112
Venus	63500-04-12 09:22 G	24914059.70	24914059.89	24914060.10	0.0142	0.0055
Mercury	63500-04-13 22:05 G	24914061.29	24914061.42	24914061.57	0.0142	0.0084
Mercury	63500-07-11 05:17 G	24914149.55	24914149.72	24914149.88	0.0141	0.0055
Mercury	63500-10-07 12:00 G	24914237.83	24914238.00	24914238.18	0.0141	0.0027
Venus	63500-11-24 19:27 G	24914286.10	24914286.31	24914286.53	0.0141	0.0018
Mercury	63501-01-03 19:12 G	24914326.12	24914326.30	24914326.48	0.0141	0.0003
Mercury	63501-04-02 02:10 G	24914414.42	24914414.59	24914414.77	0.0141	0.0032
Mercury	63501-06-29 09:07 G	24914502.72	24914502.88	24914503.05	0.0141	0.0061
Venus	63501-07-09 05:31 G	24914512.51	24914512.73	24914512.94	0.0141	0.0020

Mercury	63501-09-25 16:05 G	24914591.04	24914591.17	24914591.32	0.0141	0.0090
Mercury	63501-12-22 23:17 G	24914679.39	24914679.47	24914679.58	0.0141	0.0119
Venus	63502-02-20 15:07 G	24914738.93	24914739.13	24914739.33	0.0141	0.0057
Venus	63502-10-05 00:29 G	24914965.38	24914965.52	24914965.70	0.0141	0.0094
Venus	63503-05-19 10:05 G	24915191.85	24915191.92	24915192.02	0.0140	0.0130
Moon	63504-12-15 11:31 G	24915767.89	24915767.98	24915768.12	0.0140	0.0124
Earth	63504-12-15 15:22 G	24915768.05	24915768.14	24915768.25	0.0140	0.0128 *
Earth	63505-12-20 08:24 G	24916137.65	24916137.85	24916138.08	0.0139	0.0075
Moon	63505-12-20 12:00 G	24916137.79	24916138.00	24916138.22	0.0139	0.0076 *
Moon	63506-12-24 21:36 G	24916507.15	24916507.40	24916507.65	0.0139	0.0024
Earth	63506-12-25 00:58 G	24916507.30	24916507.54	24916507.80	0.0139	0.0021 *
Earth	63507-12-29 16:34 G	24916876.94	24916877.19	24916877.44	0.0139	0.0032
Moon	63507-12-29 19:55 G	24916877.10	24916877.33	24916877.59	0.0139	0.0039 *
Moon	63509-01-02 03:22 G	24917246.45	24917246.64	24917246.87	0.0138	0.0078
Earth	63509-01-02 06:58 G	24917246.61	24917246.79	24917247.01	0.0138	0.0085 *
Earth	63510-01-06 20:39 G	24917616.33	24917616.36	24917616.43	0.0138	0.0135
Mars	63524-01-08 03:22 G	24922730.58	24922730.64	24922730.75	0.0134	0.0130
Venus	63542-05-29 12:43 G	24929447.02	24929447.03	24929447.08	0.0136	0.0135
Venus	63543-01-10 19:55 G	24929673.20	24929673.33	24929673.48	0.0136	0.0102
Mercury	63543-04-20 02:53 G	24929772.57	24929772.62	24929772.70	0.0136	0.0121
Mercury	63543-07-17 06:43 G	24929860.69	24929860.78	24929860.88	0.0136	0.0100
Venus	63543-08-25 03:07 G	24929899.45	24929899.63	24929899.83	0.0136	0.0069
Mercury	63543-10-13 10:19 G	24929948.82	24929948.93	24929949.05	0.0136	0.0080
Mercury	63544-01-09 13:55 G	24930036.96	24930037.08	24930037.21	0.0137	0.0060
Mercury	63544-04-06 17:31 G	24930125.10	24930125.23	24930125.37	0.0137	0.0040
Venus	63544-04-07 10:48 G	24930125.74	24930125.95	24930126.16	0.0137	0.0036
Mercury	63544-07-03 21:22 G	24930213.25	24930213.39	24930213.53	0.0137	0.0019
Mercury	63544-09-30 00:58 G	24930301.40	24930301.54	24930301.68	0.0137	0.0003
Venus	63544-11-19 18:15 G	24930352.04	24930352.26	24930352.48	0.0137	0.0002
Mercury	63544-12-27 04:19 G	24930389.55	24930389.68	24930389.82	0.0137	0.0021

Mercury	63545-03-25 07:55 G	24930477.70	24930477.83	24930477.96	0.0137	0.0041
Mercury	63545-06-21 11:31 G	24930565.86	24930565.98	24930566.10	0.0137	0.0060
Venus	63545-07-04 01:27 G	24930578.36	24930578.56	24930578.78	0.0137	0.0032
Mercury	63545-09-17 14:53 G	24930654.01	24930654.12	24930654.24	0.0137	0.0080
Mercury	63545-12-14 18:15 G	24930742.18	24930742.26	24930742.36	0.0137	0.0101
Venus	63546-02-15 09:07 G	24930804.70	24930804.88	24930805.08	0.0137	0.0066
Mercury	63546-03-12 21:51 G	24930830.35	24930830.41	24930830.48	0.0137	0.0120
Venus	63546-09-29 17:17 G	24931031.07	24931031.22	24931031.37	0.0137	0.0100
Venus	63547-05-14 01:12 G	24931257.51	24931257.55	24931257.60	0.0138	0.0134
Earth	63549-06-15 20:10 G	24932021.17	24932021.34	24932021.54	0.0139	0.0096
Moon	63549-06-15 21:51 G	24932021.22	24932021.41	24932021.62	0.0139	0.0089 *
Moon	63550-06-20 10:05 G	24932390.70	24932390.92	24932391.16	0.0139	0.0051
Earth	63550-06-20 11:31 G	24932390.74	24932390.98	24932391.23	0.0139	0.0043 *
Earth	63551-06-25 03:22 G	24932760.39	24932760.64	24932760.89	0.0139	0.0009
Moon	63551-06-25 05:17 G	24932760.46	24932760.72	24932760.98	0.0139	0.0015 *
Moon	63552-06-28 17:03 G	24933130.00	24933130.21	24933130.45	0.0140	0.0060
Earth	63552-06-28 19:55 G	24933130.10	24933130.33	24933130.55	0.0140	0.0063 *
Earth	63553-07-03 12:58 G	24933499.91	24933500.04	24933500.19	0.0140	0.0117
Moon	63553-07-03 15:22 G	24933500.01	24933500.14	24933500.30	0.0140	0.0117 *
Venus	63583-04-29 06:00 G	24944391.62	24944391.75	24944391.90	0.0142	0.0109
Mercury	63583-11-09 15:22 G	24944586.09	24944586.14	24944586.21	0.0142	0.0133
Venus	63583-12-11 16:19 G	24944618.00	24944618.18	24944618.37	0.0142	0.0072
Mercury	63584-02-05 22:05 G	24944674.32	24944674.42	24944674.55	0.0142	0.0105
Mercury	63584-05-04 05:17 G	24944762.57	24944762.72	24944762.87	0.0142	0.0076
Venus	63584-07-25 02:24 G	24944844.40	24944844.60	24944844.82	0.0141	0.0034
Mercury	63584-07-31 12:15 G	24944850.84	24944851.01	24944851.18	0.0141	0.0047
Mercury	63584-10-27 19:12 G	24944939.12	24944939.30	24944939.48	0.0141	0.0019
Mercury	63585-01-24 02:10 G	24945027.41	24945027.59	24945027.77	0.0141	0.0010
Venus	63585-03-08 12:29 G	24945070.81	24945071.02	24945071.24	0.0141	0.0004
Mercury	63585-04-22 09:07 G	24945115.71	24945115.88	24945116.06	0.0141	0.0039

Mercury	63585-07-19 16:05 G	24945204.02	24945204.17	24945204.34	0.0141	0.0069
Mercury	63585-10-15 23:17 G	24945292.35	24945292.47	24945292.61	0.0141	0.0097
Venus	63585-10-20 22:19 G	24945297.23	24945297.43	24945297.65	0.0141	0.0040
Mercury	63586-01-12 06:15 G	24945380.70	24945380.76	24945380.85	0.0141	0.0127
Venus	63586-06-04 07:55 G	24945523.66	24945523.83	24945524.02	0.0141	0.0077
Venus	63587-01-16 17:31 G	24945750.11	24945750.23	24945750.36	0.0141	0.0113
Moon	63588-12-15 22:19 G	24946449.34	24946449.43	24946449.53	0.0140	0.0129
Earth	63588-12-16 00:43 G	24946449.42	24946449.53	24946449.66	0.0140	0.0123 *
Earth	63589-12-20 18:00 G	24946819.04	24946819.25	24946819.48	0.0139	0.0070
Moon	63589-12-20 21:22 G	24946819.18	24946819.39	24946819.63	0.0139	0.0069 *
Moon	63590-12-25 07:12 G	24947188.55	24947188.80	24947189.05	0.0139	0.0015
Earth	63590-12-25 10:34 G	24947188.69	24947188.94	24947189.19	0.0139	0.0016 *
Earth	63591-12-30 01:55 G	24947558.34	24947558.58	24947558.83	0.0139	0.0037
Moon	63591-12-30 05:17 G	24947558.48	24947558.72	24947558.98	0.0139	0.0031 *
Moon	63593-01-02 12:43 G	24947927.87	24947928.03	24947928.23	0.0138	0.0097
Earth	63593-01-02 16:34 G	24947928.01	24947928.19	24947928.40	0.0138	0.0089 *
Moon	63594-01-07 09:36 G	24948297.85	24948297.90	24948298.00	0.0138	0.0132
Mars	63608-09-02 12:15 G	24953649.72	24953650.01	24953650.33	0.0134	0.0050
Venus	63626-09-10 06:00 G	24960231.65	24960231.75	24960231.88	0.0136	0.0116
Mercury	63627-02-11 06:43 G	24960385.77	24960385.78	24960385.82	0.0136	0.0134
Venus	63627-04-24 13:12 G	24960457.89	24960458.05	24960458.23	0.0136	0.0083
Mercury	63627-05-10 10:19 G	24960473.87	24960473.93	24960474.02	0.0136	0.0114
Mercury	63627-08-06 14:10 G	24960562.00	24960562.09	24960562.20	0.0136	0.0093
Mercury	63627-11-02 17:46 G	24960650.13	24960650.24	24960650.37	0.0136	0.0073
Venus	63627-12-06 20:24 G	24960684.16	24960684.35	24960684.56	0.0136	0.0050
Mercury	63628-01-29 21:36 G	24960738.27	24960738.40	24960738.53	0.0137	0.0052
Mercury	63628-04-27 01:12 G	24960826.42	24960826.55	24960826.69	0.0137	0.0032
Venus	63628-07-20 03:51 G	24960910.45	24960910.66	24960910.88	0.0137	0.0016
Mercury	63628-07-24 04:48 G	24960914.56	24960914.70	24960914.84	0.0137	0.0012
Mercury	63628-10-20 08:24 G	24961002.71	24961002.85	24961002.99	0.0137	0.0008

Mercury	63629-01-16 12:00 G	24961090.86	24961091.00	24961091.13	0.0137	0.0028
Venus	63629-03-03 11:31 G	24961136.76	24961136.98	24961137.20	0.0137	0.0018
Mercury	63629-04-14 15:22 G	24961179.02	24961179.14	24961179.27	0.0137	0.0048
Mercury	63629-07-11 18:43 G	24961267.17	24961267.28	24961267.41	0.0137	0.0068
Mercury	63629-10-07 22:19 G	24961355.33	24961355.43	24961355.54	0.0137	0.0088
Venus	63629-10-15 18:58 G	24961363.09	24961363.29	24961363.50	0.0137	0.0052
Mercury	63630-01-04 01:41 G	24961443.50	24961443.57	24961443.67	0.0137	0.0108
Mercury	63630-04-02 05:31 G	24961531.68	24961531.73	24961531.78	0.0137	0.0127
Venus	63630-05-30 02:24 G	24961589.45	24961589.60	24961589.78	0.0137	0.0086
Venus	63631-01-11 10:34 G	24961815.84	24961815.94	24961816.04	0.0138	0.0120
Moon	63632-06-11 17:03 G	24962333.20	24962333.21	24962333.25	0.0138	0.0138
Earth	63633-06-16 07:55 G	24962702.65	24962702.83	24962703.03	0.0138	0.0090
Moon	63633-06-16 07:55 G	24962702.67	24962702.83	24962703.04	0.0138	0.0096 *
Moon	63634-06-20 21:51 G	24963072.18	24963072.41	24963072.65	0.0139	0.0031
Earth	63634-06-20 23:03 G	24963072.22	24963072.46	24963072.71	0.0139	0.0038 *
Earth	63635-06-25 14:39 G	24963441.86	24963442.11	24963442.36	0.0139	0.0015
Moon	63635-06-25 16:05 G	24963441.91	24963442.17	24963442.43	0.0139	0.0008 *
Moon	63636-06-29 05:31 G	24963811.53	24963811.73	24963811.95	0.0140	0.0073
Earth	63636-06-29 06:58 G	24963811.58	24963811.79	24963812.02	0.0140	0.0069 *
Earth	63637-07-04 00:00 G	24964181.40	24964181.50	24964181.65	0.0140	0.0123
Moon	63637-07-04 02:39 G	24964181.51	24964181.61	24964181.75	0.0140	0.0123 *
Mars	63651-01-21 06:00 G	24969130.46	24969130.75	24969131.04	0.0144	0.0002
Venus	63666-12-27 13:41 G	24974949.97	24974950.07	24974950.17	0.0142	0.0125
Venus	63667-08-10 23:46 G	24975176.33	24975176.49	24975176.67	0.0142	0.0088
Mercury	63667-11-29 22:48 G	24975287.37	24975287.45	24975287.54	0.0142	0.0124
Mercury	63668-02-26 05:46 G	24975375.61	24975375.74	24975375.87	0.0142	0.0096
Venus	63668-03-24 10:05 G	24975402.72	24975402.92	24975403.13	0.0142	0.0051
Mercury	63668-05-24 12:29 G	24975463.87	24975464.02	24975464.18	0.0142	0.0068
Mercury	63668-08-20 19:27 G	24975552.14	24975552.31	24975552.49	0.0141	0.0039
Venus	63668-11-05 20:10 G	24975629.13	24975629.34	24975629.56	0.0141	0.0014

Mercury	63668-11-17 02:24 G	24975640.42	24975640.60	24975640.78	0.0141	0.0011
Mercury	63669-02-13 09:22 G	24975728.72	24975728.89	24975729.08	0.0141	0.0019
Mercury	63669-05-12 16:34 G	24975817.02	24975817.19	24975817.36	0.0141	0.0048
Venus	63669-06-20 06:15 G	24975855.54	24975855.76	24975855.97	0.0141	0.0024
Mercury	63669-08-08 23:17 G	24975905.33	24975905.47	24975905.64	0.0141	0.0077
Mercury	63669-11-05 06:29 G	24975993.66	24975993.77	24975993.90	0.0141	0.0106
Venus	63670-02-01 15:51 G	24976081.97	24976082.16	24976082.36	0.0141	0.0061
Mercury	63670-02-01 13:41 G	24976082.03	24976082.07	24976082.13	0.0141	0.0135 *
Venus	63670-09-16 01:27 G	24976308.42	24976308.56	24976308.73	0.0141	0.0098
Venus	63671-04-30 10:48 G	24976534.90	24976534.95	24976535.03	0.0141	0.0134
Moon	63672-12-16 08:24 G	24977130.72	24977130.85	24977131.01	0.0140	0.0113
Earth	63672-12-16 11:31 G	24977130.85	24977130.98	24977131.11	0.0140	0.0118 *
Earth	63673-12-21 04:19 G	24977500.47	24977500.68	24977500.92	0.0140	0.0065
Moon	63673-12-21 06:58 G	24977500.58	24977500.79	24977501.03	0.0140	0.0068 *
Moon	63674-12-25 18:00 G	24977870.00	24977870.25	24977870.50	0.0139	0.0014
Earth	63674-12-25 21:07 G	24977870.12	24977870.38	24977870.63	0.0139	0.0011 *
Earth	63675-12-30 12:15 G	24978239.78	24978240.01	24978240.27	0.0139	0.0042
Moon	63675-12-30 15:36 G	24978239.92	24978240.15	24978240.41	0.0139	0.0047 *
Moon	63677-01-03 00:00 G	24978609.31	24978609.50	24978609.70	0.0138	0.0087
Earth	63677-01-03 03:07 G	24978609.46	24978609.63	24978609.83	0.0138	0.0093 *
Venus	63710-05-11 16:19 G	24990790.12	24990790.18	24990790.26	0.0136	0.0128
Venus	63710-12-23 23:03 G	24991016.33	24991016.46	24991016.63	0.0136	0.0096
Mercury	63711-03-04 14:39 G	24991087.06	24991087.11	24991087.16	0.0136	0.0126
Mercury	63711-05-31 18:15 G	24991175.17	24991175.26	24991175.35	0.0136	0.0105
Venus	63711-08-07 06:29 G	24991242.58	24991242.77	24991242.97	0.0136	0.0063
Mercury	63711-08-27 21:51 G	24991263.30	24991263.41	24991263.52	0.0136	0.0085
Mercury	63711-11-24 01:27 G	24991351.44	24991351.56	24991351.69	0.0137	0.0065
Mercury	63712-02-20 05:03 G	24991439.58	24991439.71	24991439.85	0.0137	0.0045
Venus	63712-03-20 13:55 G	24991468.87	24991469.08	24991469.30	0.0137	0.0030
Mercury	63712-05-18 08:39 G	24991527.73	24991527.86	24991528.00	0.0137	0.0025

Mercury	63712-08-14 12:15 G	24991615.87	24991616.01	24991616.15	0.0137	0.0006
Venus	63712-11-01 21:22 G	24991695.17	24991695.39	24991695.61	0.0137	0.0004
Mercury	63712-11-10 15:51 G	24991704.02	24991704.16	24991704.30	0.0137	0.0015
Mercury	63713-02-06 19:27 G	24991792.18	24991792.31	24991792.44	0.0137	0.0035
Mercury	63713-05-05 22:48 G	24991880.33	24991880.45	24991880.58	0.0137	0.0055
Venus	63713-06-16 04:48 G	24991921.49	24991921.70	24991921.91	0.0137	0.0038
Mercury	63713-08-02 02:24 G	24991968.49	24991968.60	24991968.72	0.0137	0.0075
Mercury	63713-10-29 06:00 G	24992056.65	24992056.75	24992056.85	0.0137	0.0094
Mercury	63714-01-25 09:07 G	24992144.82	24992144.88	24992144.97	0.0137	0.0115
Venus	63714-01-28 12:15 G	24992147.83	24992148.01	24992148.20	0.0137	0.0072
Mercury	63714-04-23 12:43 G	24992233.01	24992233.03	24992233.07	0.0137	0.0134
Venus	63714-09-11 19:41 G	24992374.20	24992374.32	24992374.48	0.0137	0.0107
Earth	63716-06-13 05:31 G	24993014.70	24993014.73	24993014.80	0.0138	0.0135
Moon	63716-06-13 06:00 G	24993014.74	24993014.75	24993014.80	0.0138	0.0137 *
Earth	63717-06-17 19:41 G	24993384.13	24993384.32	24993384.53	0.0138	0.0085
Moon	63717-06-17 19:55 G	24993384.13	24993384.33	24993384.56	0.0138	0.0079 *
Moon	63718-06-22 10:34 G	24993753.71	24993753.94	24993754.18	0.0139	0.0040
Earth	63718-06-22 10:48 G	24993753.71	24993753.95	24993754.20	0.0139	0.0032 *
Earth	63719-06-27 02:39 G	24994123.36	24994123.61	24994123.86	0.0139	0.0020
Moon	63719-06-27 03:22 G	24994123.38	24994123.64	24994123.90	0.0139	0.0027 *
Moon	63720-06-30 17:31 G	24994493.02	24994493.23	24994493.45	0.0140	0.0070
Earth	63720-06-30 18:43 G	24994493.08	24994493.28	24994493.51	0.0140	0.0074 *
Earth	63721-07-05 12:00 G	24994862.92	24994863.00	24994863.12	0.0140	0.0128
Moon	63721-07-05 13:41 G	24994862.98	24994863.07	24994863.18	0.0140	0.0129 *
Venus	63751-04-11 06:43 G	25005734.64	25005734.78	25005734.93	0.0142	0.0105
Venus	63751-11-23 16:48 G	25005961.02	25005961.20	25005961.41	0.0142	0.0068
Mercury	63751-12-21 05:46 G	25005988.65	25005988.74	25005988.85	0.0142	0.0117
Mercury	63752-03-18 12:43 G	25006076.89	25006077.03	25006077.17	0.0142	0.0089
Mercury	63752-06-14 19:27 G	25006165.16	25006165.31	25006165.48	0.0142	0.0061
Venus	63752-07-07 03:07 G	25006187.42	25006187.63	25006187.85	0.0141	0.0030

Mercury	63752-09-11 02:24 G	25006253.43	25006253.60	25006253.78	0.0141	0.0032
Mercury	63752-12-08 09:22 G	25006341.71	25006341.89	25006342.07	0.0141	0.0005
Venus	63753-02-18 13:12 G	25006413.83	25006414.05	25006414.27	0.0141	0.0007
Mercury	63753-03-06 16:19 G	25006430.01	25006430.18	25006430.36	0.0141	0.0026
Mercury	63753-06-02 23:31 G	25006518.31	25006518.48	25006518.65	0.0141	0.0055
Mercury	63753-08-30 06:29 G	25006606.63	25006606.77	25006606.92	0.0141	0.0084
Venus	63753-10-02 23:03 G	25006640.26	25006640.46	25006640.67	0.0141	0.0044
Mercury	63753-11-26 13:27 G	25006694.96	25006695.06	25006695.18	0.0141	0.0113
Venus	63754-05-17 08:39 G	25006866.69	25006866.86	25006867.04	0.0141	0.0081
Venus	63754-12-29 17:46 G	25007093.14	25007093.24	25007093.38	0.0141	0.0118
Moon	63756-12-17 18:29 G	25007812.16	25007812.27	25007812.40	0.0140	0.0121
Earth	63756-12-17 20:10 G	25007812.20	25007812.34	25007812.49	0.0140	0.0114 *
Earth	63757-12-22 13:27 G	25008181.83	25008182.06	25008182.29	0.0140	0.0061
Moon	63757-12-22 15:51 G	25008181.93	25008182.16	25008182.41	0.0140	0.0059 *
Moon	63758-12-27 03:22 G	25008551.39	25008551.64	25008551.89	0.0139	0.0008
Earth	63758-12-27 05:46 G	25008551.49	25008551.74	25008552.00	0.0139	0.0008 *
Earth	63759-12-31 21:22 G	25008921.15	25008921.39	25008921.63	0.0139	0.0045
Moon	63760-01-01 00:15 G	25008921.27	25008921.51	25008921.76	0.0139	0.0040 *
Moon	63761-01-04 09:07 G	25009290.72	25009290.88	25009291.05	0.0138	0.0104
Earth	63761-01-04 12:15 G	25009290.84	25009291.01	25009291.20	0.0138	0.0097 *
Mars	63776-01-20 20:39 G	25014785.10	25014785.36	25014785.67	0.0134	0.0066
Venus	63794-08-23 09:07 G	25021574.76	25021574.88	25021575.02	0.0136	0.0109
Mercury	63795-03-24 21:51 G	25021788.35	25021788.41	25021788.48	0.0136	0.0119
Venus	63795-04-06 16:19 G	25021801.01	25021801.18	25021801.37	0.0136	0.0076
Mercury	63795-06-21 01:41 G	25021876.47	25021876.57	25021876.67	0.0136	0.0099
Mercury	63795-09-17 05:17 G	25021964.61	25021964.72	25021964.84	0.0137	0.0079
Venus	63795-11-18 23:17 G	25022027.28	25022027.47	25022027.69	0.0137	0.0044
Mercury	63795-12-14 08:53 G	25022052.75	25022052.87	25022053.00	0.0137	0.0058
Mercury	63796-03-11 12:29 G	25022140.89	25022141.02	25022141.16	0.0137	0.0038
Mercury	63796-06-07 16:05 G	25022229.03	25022229.17	25022229.31	0.0137	0.0018

Venus	63796-07-02 06:58 G	25022253.57	25022253.79	25022254.00	0.0137	0.0010
Mercury	63796-09-03 19:41 G	25022317.18	25022317.32	25022317.46	0.0137	0.0002
Mercury	63796-11-30 23:17 G	25022405.33	25022405.47	25022405.61	0.0137	0.0022
Venus	63797-02-13 14:24 G	25022479.88	25022480.10	25022480.31	0.0137	0.0024
Mercury	63797-02-27 02:39 G	25022493.49	25022493.61	25022493.75	0.0137	0.0042
Mercury	63797-05-26 06:15 G	25022581.64	25022581.76	25022581.89	0.0137	0.0062
Mercury	63797-08-22 09:51 G	25022669.80	25022669.91	25022670.02	0.0137	0.0081
Venus	63797-09-27 21:36 G	25022706.21	25022706.40	25022706.61	0.0137	0.0059
Mercury	63797-11-18 13:12 G	25022757.96	25022758.05	25022758.15	0.0137	0.0101
Mercury	63798-02-14 16:48 G	25022846.14	25022846.20	25022846.26	0.0137	0.0120
Venus	63798-05-12 05:17 G	25022932.57	25022932.72	25022932.89	0.0137	0.0093
Venus	63798-12-24 12:43 G	25023158.97	25023159.03	25023159.14	0.0138	0.0127
Earth	63800-06-14 16:48 G	25023696.13	25023696.20	25023696.30	0.0138	0.0130
Moon	63800-06-14 17:17 G	25023696.15	25023696.22	25023696.33	0.0138	0.0128 *
Moon	63801-06-19 06:15 G	25024065.56	25024065.76	25024065.97	0.0138	0.0084
Earth	63801-06-19 06:58 G	25024065.60	25024065.79	25024066.01	0.0138	0.0080 *
Moon	63802-06-23 22:05 G	25024435.18	25024435.42	25024435.67	0.0139	0.0021
Earth	63802-06-23 22:05 G	25024435.18	25024435.42	25024435.67	0.0139	0.0028 *
Moon	63803-06-28 13:55 G	25024804.82	25024805.08	25024805.35	0.0139	0.0018
Earth	63803-06-28 13:41 G	25024804.83	25024805.07	25024805.33	0.0139	0.0026 *
Moon	63804-07-02 06:00 G	25025174.55	25025174.75	25025174.94	0.0140	0.0084
Earth	63804-07-02 06:15 G	25025174.56	25025174.76	25025174.98	0.0140	0.0079 *
Earth	63805-07-07 00:00 G	25025544.42	25025544.50	25025544.58	0.0140	0.0132
Moon	63805-07-07 00:58 G	25025544.47	25025544.54	25025544.65	0.0140	0.0131 *
Mars	63818-06-11 14:53 G	25030267.00	25030267.12	25030267.27	0.0144	0.0128
Venus	63834-12-10 14:24 G	25036292.99	25036293.10	25036293.22	0.0142	0.0121
Venus	63835-07-25 00:29 G	25036519.36	25036519.52	25036519.71	0.0142	0.0084
Mercury	63835-10-15 06:15 G	25036601.73	25036601.76	25036601.82	0.0142	0.0137
Mercury	63836-01-11 12:58 G	25036689.94	25036690.04	25036690.17	0.0142	0.0109
Venus	63836-03-07 10:48 G	25036745.75	25036745.95	25036746.16	0.0142	0.0047

Mercury	63836-04-08 19:55 G	25036778.19	25036778.33	25036778.49	0.0142	0.0080
Mercury	63836-07-06 02:53 G	25036866.46	25036866.62	25036866.79	0.0141	0.0052
Mercury	63836-10-02 09:51 G	25036954.74	25036954.91	25036955.09	0.0141	0.0023
Venus	63836-10-19 21:07 G	25036972.16	25036972.38	25036972.60	0.0141	0.0009
Mercury	63836-12-29 16:48 G	25037043.02	25037043.20	25037043.38	0.0141	0.0006
Mercury	63837-03-27 23:46 G	25037131.32	25037131.49	25037131.67	0.0141	0.0034
Venus	63837-06-03 06:58 G	25037198.58	25037198.79	25037199.00	0.0141	0.0028
Mercury	63837-06-24 06:43 G	25037219.62	25037219.78	25037219.95	0.0141	0.0063
Mercury	63837-09-20 13:41 G	25037307.94	25037308.07	25037308.22	0.0141	0.0092
Mercury	63837-12-17 20:53 G	25037396.29	25037396.37	25037396.47	0.0141	0.0121
Venus	63838-01-15 16:34 G	25037425.00	25037425.19	25037425.39	0.0141	0.0065
Venus	63838-08-30 02:10 G	25037651.45	25037651.59	25037651.75	0.0141	0.0102
Venus	63839-04-13 11:31 G	25037877.95	25037877.98	25037878.03	0.0141	0.0138
Moon	63840-12-19 04:48 G	25038493.55	25038493.70	25038493.88	0.0140	0.0104
Earth	63840-12-19 06:29 G	25038493.63	25038493.77	25038493.94	0.0140	0.0110 *
Earth	63841-12-23 23:31 G	25038863.26	25038863.48	25038863.72	0.0140	0.0057
Moon	63841-12-24 01:12 G	25038863.32	25038863.55	25038863.79	0.0140	0.0061 *
Moon	63842-12-28 13:55 G	25039232.84	25039233.08	25039233.33	0.0139	0.0004
Earth	63842-12-28 16:19 G	25039232.92	25039233.18	25039233.43	0.0139	0.0003 *
Earth	63844-01-02 07:55 G	25039602.59	25039602.83	25039603.07	0.0139	0.0049
Moon	63844-01-02 10:19 G	25039602.69	25039602.93	25039603.18	0.0139	0.0053 *
Moon	63845-01-05 20:10 G	25039972.17	25039972.34	25039972.52	0.0138	0.0095
Earth	63845-01-05 22:48 G	25039972.28	25039972.45	25039972.62	0.0138	0.0101 *
Mars	63860-09-16 05:46 G	25045704.57	25045704.74	25045704.93	0.0134	0.0113
Venus	63878-04-23 18:43 G	25052133.21	25052133.28	25052133.39	0.0136	0.0124
Venus	63878-12-06 01:55 G	25052359.43	25052359.58	25052359.75	0.0136	0.0090
Mercury	63879-01-17 01:41 G	25052401.54	25052401.57	25052401.60	0.0136	0.0132
Mercury	63879-04-15 05:17 G	25052489.65	25052489.72	25052489.80	0.0136	0.0112
Mercury	63879-07-12 09:07 G	25052577.78	25052577.88	25052577.98	0.0136	0.0092
Venus	63879-07-20 08:53 G	25052585.69	25052585.87	25052586.08	0.0136	0.0058

Mercury	63879-10-08 12:43 G	25052665.91	25052666.03	25052666.15	0.0137	0.0072
Mercury	63880-01-04 16:19 G	25052754.05	25052754.18	25052754.31	0.0137	0.0052
Venus	63880-03-02 16:19 G	25052811.97	25052812.18	25052812.40	0.0137	0.0024
Mercury	63880-04-01 19:55 G	25052842.20	25052842.33	25052842.47	0.0137	0.0032
Mercury	63880-06-28 23:31 G	25052930.34	25052930.48	25052930.62	0.0137	0.0011
Mercury	63880-09-25 03:07 G	25053018.49	25053018.63	25053018.77	0.0137	0.0009
Venus	63880-10-14 23:46 G	25053038.28	25053038.49	25053038.71	0.0137	0.0010
Mercury	63880-12-22 06:29 G	25053106.64	25053106.77	25053106.91	0.0137	0.0029
Mercury	63881-03-20 10:05 G	25053194.80	25053194.92	25053195.05	0.0137	0.0048
Venus	63881-05-29 06:58 G	25053264.59	25053264.79	25053265.01	0.0137	0.0045
Mercury	63881-06-16 13:41 G	25053282.95	25053283.07	25053283.19	0.0137	0.0068
Mercury	63881-09-12 17:03 G	25053371.11	25053371.21	25053371.32	0.0137	0.0088
Mercury	63881-12-09 20:39 G	25053459.28	25053459.36	25053459.45	0.0137	0.0107
Venus	63882-01-10 14:24 G	25053490.94	25053491.10	25053491.29	0.0137	0.0079
Mercury	63882-03-08 00:00 G	25053547.46	25053547.50	25053547.56	0.0137	0.0127
Venus	63882-08-24 22:05 G	25053717.31	25053717.42	25053717.56	0.0138	0.0113
Earth	63884-06-15 04:05 G	25054377.58	25054377.67	25054377.79	0.0138	0.0125
Moon	63884-06-15 06:15 G	25054377.66	25054377.76	25054377.86	0.0138	0.0126 *
Moon	63885-06-19 17:31 G	25054747.02	25054747.23	25054747.47	0.0138	0.0069
Earth	63885-06-19 18:15 G	25054747.07	25054747.26	25054747.49	0.0138	0.0075 *
Earth	63886-06-24 09:36 G	25055116.65	25055116.90	25055117.15	0.0139	0.0022
Moon	63886-06-24 10:34 G	25055116.70	25055116.94	25055117.18	0.0139	0.0029 *
Moon	63887-06-29 00:43 G	25055486.29	25055486.53	25055486.80	0.0139	0.0038
Earth	63887-06-29 01:12 G	25055486.31	25055486.55	25055486.81	0.0139	0.0031 *
Moon	63888-07-02 17:31 G	25055856.04	25055856.23	25055856.45	0.0140	0.0079
Earth	63888-07-02 17:46 G	25055856.05	25055856.24	25055856.45	0.0140	0.0084 *
Earth	63889-07-07 11:17 G	25056225.94	25056225.97	25056226.03	0.0140	0.0137
Moon	63889-07-07 11:31 G	25056225.98	25056225.98	25056226.01	0.0140	0.0140 *
Mars	63903-02-05 18:00 G	25061186.00	25061186.25	25061186.52	0.0144	0.0064
Venus	63918-08-10 21:36 G	25066851.35	25066851.40	25066851.44	0.0142	0.0139

Venus	63919-03-25 07:41 G	25067077.68	25067077.82	25067077.98	0.0142	0.0101
Mercury	63919-11-05 13:27 G	25067303.00	25067303.06	25067303.14	0.0142	0.0129
Venus	63919-11-06 18:00 G	25067304.06	25067304.25	25067304.45	0.0142	0.0064
Mercury	63920-02-01 20:10 G	25067391.23	25067391.34	25067391.48	0.0142	0.0101
Mercury	63920-04-30 03:07 G	25067479.48	25067479.63	25067479.79	0.0142	0.0073
Venus	63920-06-20 04:05 G	25067530.46	25067530.67	25067530.89	0.0141	0.0026
Mercury	63920-07-27 09:51 G	25067567.75	25067567.91	25067568.09	0.0141	0.0045
Mercury	63920-10-23 17:03 G	25067656.03	25067656.21	25067656.39	0.0141	0.0016
Mercury	63921-01-20 00:00 G	25067744.32	25067744.50	25067744.68	0.0141	0.0013
Venus	63921-02-01 14:10 G	25067756.87	25067757.09	25067757.31	0.0141	0.0011
Mercury	63921-04-18 06:43 G	25067832.61	25067832.78	25067832.96	0.0141	0.0042
Mercury	63921-07-15 13:55 G	25067920.92	25067921.08	25067921.24	0.0141	0.0071
Venus	63921-09-16 00:00 G	25067983.30	25067983.50	25067983.71	0.0141	0.0049
Mercury	63921-10-11 20:53 G	25068009.24	25068009.37	25068009.50	0.0141	0.0100
Mercury	63922-01-08 03:36 G	25068097.60	25068097.65	25068097.74	0.0141	0.0129
Venus	63922-04-30 09:36 G	25068209.73	25068209.90	25068210.07	0.0141	0.0085
Venus	63922-12-12 18:43 G	25068436.19	25068436.28	25068436.40	0.0141	0.0122
Earth	63924-12-20 16:05 G	25069175.00	25069175.17	25069175.33	0.0140	0.0105
Moon	63924-12-20 15:07 G	25069175.01	25069175.13	25069175.29	0.0140	0.0113 *
Earth	63925-12-25 08:53 G	25069544.65	25069544.87	25069545.12	0.0140	0.0053
Moon	63925-12-25 10:34 G	25069544.70	25069544.94	25069545.19	0.0140	0.0049 *
Moon	63926-12-30 00:15 G	25069914.27	25069914.51	25069914.76	0.0139	0.0001
Earth	63926-12-30 01:41 G	25069914.31	25069914.57	25069914.82	0.0139	0.0001 *
Earth	63928-01-03 17:03 G	25070283.99	25070284.21	25070284.45	0.0139	0.0054
Moon	63928-01-03 19:12 G	25070284.06	25070284.30	25070284.55	0.0139	0.0050 *
Moon	63929-01-07 05:31 G	25070653.60	25070653.73	25070653.89	0.0138	0.0112
Earth	63929-01-07 07:55 G	25070653.68	25070653.83	25070654.01	0.0138	0.0105 *
Venus	63962-08-06 10:48 G	25082917.83	25082917.95	25082918.11	0.0136	0.0105
Mercury	63963-02-07 08:39 G	25083102.82	25083102.86	25083102.92	0.0136	0.0127
Venus	63963-03-20 18:15 G	25083144.08	25083144.26	25083144.45	0.0136	0.0072

Mercury	63963-05-06 12:29 G	25083190.94	25083191.02	25083191.11	0.0136	0.0106
Mercury	63963-08-02 16:19 G	25083279.07	25083279.18	25083279.29	0.0137	0.0086
Mercury	63963-10-29 19:55 G	25083367.21	25083367.33	25083367.45	0.0137	0.0066
Venus	63963-11-02 01:27 G	25083370.36	25083370.56	25083370.77	0.0137	0.0039
Mercury	63964-01-25 23:31 G	25083455.35	25083455.48	25083455.61	0.0137	0.0046
Mercury	63964-04-23 03:07 G	25083543.50	25083543.63	25083543.77	0.0137	0.0026
Venus	63964-06-15 08:39 G	25083596.65	25083596.86	25083597.08	0.0137	0.0006
Mercury	63964-07-20 06:43 G	25083631.64	25083631.78	25083631.92	0.0137	0.0006
Mercury	63964-10-16 10:19 G	25083719.79	25083719.93	25083720.07	0.0137	0.0015
Mercury	63965-01-12 13:55 G	25083807.94	25083808.08	25083808.21	0.0137	0.0034
Venus	63965-01-27 16:05 G	25083822.96	25083823.17	25083823.38	0.0137	0.0029
Mercury	63965-04-10 17:31 G	25083896.10	25083896.23	25083896.35	0.0137	0.0054
Mercury	63965-07-07 20:53 G	25083984.26	25083984.37	25083984.49	0.0137	0.0074
Venus	63965-09-10 23:31 G	25084049.29	25084049.48	25084049.68	0.0137	0.0063
Mercury	63965-10-04 00:15 G	25084072.42	25084072.51	25084072.62	0.0137	0.0094
Mercury	63965-12-31 03:51 G	25084160.59	25084160.66	25084160.74	0.0137	0.0113
Mercury	63966-03-29 07:12 G	25084248.78	25084248.80	25084248.84	0.0137	0.0133
Venus	63966-04-25 06:58 G	25084275.65	25084275.79	25084275.96	0.0137	0.0098
Venus	63966-12-07 14:39 G	25084502.07	25084502.11	25084502.19	0.0138	0.0132
Earth	63968-06-16 15:07 G	25085059.01	25085059.13	25085059.26	0.0138	0.0120
Moon	63968-06-16 16:48 G	25085059.08	25085059.20	25085059.33	0.0138	0.0119 *
Moon	63969-06-21 02:53 G	25085428.42	25085428.62	25085428.86	0.0138	0.0073
Earth	63969-06-21 05:17 G	25085428.51	25085428.72	25085428.94	0.0138	0.0069 *
Earth	63970-06-25 20:24 G	25085798.10	25085798.35	25085798.60	0.0139	0.0017
Moon	63970-06-25 21:36 G	25085798.15	25085798.40	25085798.64	0.0139	0.0011 *
Moon	63971-06-30 11:03 G	25086167.71	25086167.96	25086168.22	0.0139	0.0028
Earth	63971-06-30 12:15 G	25086167.76	25086168.01	25086168.25	0.0139	0.0036 *
Earth	63972-07-04 04:34 G	25086537.51	25086537.69	25086537.90	0.0140	0.0089
Moon	63972-07-04 05:17 G	25086537.55	25086537.72	25086537.91	0.0140	0.0095 *
Moon	63973-07-08 22:05 G	25086907.41	25086907.42	25086907.47	0.0140	0.0139

65TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 65th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	64002-11-22 15:07	G	25097636.01	25097636.13	25097636.25	0.0142	0.0118	
Venus	64003-07-07 01:12	G	25097862.38	25097862.55	25097862.74	0.0142	0.0081	
Mercury	64003-11-25 20:39	G	25098004.28	25098004.36	25098004.46	0.0142	0.0121	
Venus	64004-02-18 11:17	G	25098088.77	25098088.97	25098089.19	0.0142	0.0044	
Mercury	64004-02-22 03:22	G	25098092.52	25098092.64	25098092.79	0.0142	0.0093	
Mercury	64004-05-20 10:19	G	25098180.78	25098180.93	25098181.09	0.0142	0.0064	
Mercury	64004-08-16 17:03	G	25098269.05	25098269.21	25098269.39	0.0141	0.0037	
Venus	64004-10-01 21:36	G	25098315.18	25098315.40	25098315.62	0.0141	0.0006	
Mercury	64004-11-13 00:15	G	25098357.33	25098357.51	25098357.69	0.0141	0.0008	
Mercury	64005-02-09 06:58	G	25098445.62	25098445.79	25098445.97	0.0141	0.0021	
Mercury	64005-05-08 13:55	G	25098533.92	25098534.08	25098534.25	0.0141	0.0050	
Venus	64005-05-16 07:27	G	25098541.60	25098541.81	25098542.02	0.0141	0.0032	
Mercury	64005-08-04 21:07	G	25098622.23	25098622.38	25098622.53	0.0141	0.0079	
Mercury	64005-11-01 04:05	G	25098710.55	25098710.67	25098710.79	0.0141	0.0107	
Venus	64005-12-28 16:48	G	25098768.02	25098768.20	25098768.40	0.0141	0.0069	
Mercury	64006-01-28 10:48	G	25098798.92	25098798.95	25098799.01	0.0141	0.0137	
Venus	64006-08-12 02:24	G	25098994.47	25098994.60	25098994.75	0.0141	0.0105	
Moon	64008-12-21 01:41	G	25099856.39	25099856.57	25099856.75	0.0140	0.0093	
Earth	64008-12-21 01:55	G	25099856.41	25099856.58	25099856.76	0.0140	0.0100	*

Earth	64009-12-25 19:12 G	25100226.06	25100226.30	25100226.54	0.0140	0.0047
Moon	64009-12-25 19:12 G	25100226.07	25100226.30	25100226.56	0.0140	0.0053 *
Moon	64010-12-30 10:48 G	25100595.70	25100595.95	25100596.19	0.0139	0.0008
Earth	64010-12-30 11:46 G	25100595.74	25100595.99	25100596.25	0.0139	0.0007 *
Earth	64012-01-04 03:36 G	25100965.42	25100965.65	25100965.88	0.0139	0.0058
Moon	64012-01-04 04:48 G	25100965.47	25100965.70	25100965.95	0.0139	0.0061 *
Moon	64013-01-07 16:48 G	25101335.05	25101335.20	25101335.37	0.0138	0.0105
Earth	64013-01-07 18:15 G	25101335.12	25101335.26	25101335.43	0.0138	0.0110 *
Mars	64028-02-03 12:29 G	25106839.70	25106840.02	25106840.35	0.0134	0.0007
Jupiter	64041-05-28 11:03 G	25111702.59	25111702.96	25111703.33	0.0135	0.0087
Venus	64046-04-05 20:24 G	25113476.25	25113476.35	25113476.46	0.0136	0.0119
Venus	64046-11-18 03:22 G	25113702.48	25113702.64	25113702.81	0.0136	0.0087
Mercury	64047-02-27 15:51 G	25113804.11	25113804.16	25113804.24	0.0136	0.0121
Mercury	64047-05-26 19:27 G	25113892.23	25113892.31	25113892.42	0.0136	0.0101
Venus	64047-07-02 10:19 G	25113928.73	25113928.93	25113929.14	0.0136	0.0053
Mercury	64047-08-22 23:31 G	25113980.36	25113980.48	25113980.59	0.0137	0.0080
Mercury	64047-11-19 03:07 G	25114068.50	25114068.63	25114068.76	0.0137	0.0060
Venus	64048-02-13 17:31 G	25114155.02	25114155.23	25114155.45	0.0137	0.0020
Mercury	64048-02-15 06:43 G	25114156.65	25114156.78	25114156.91	0.0137	0.0039
Mercury	64048-05-13 10:19 G	25114244.79	25114244.93	25114245.07	0.0137	0.0019
Mercury	64048-08-09 13:55 G	25114332.94	25114333.08	25114333.22	0.0137	0.0002
Venus	64048-09-27 00:58 G	25114381.32	25114381.54	25114381.76	0.0137	0.0014
Mercury	64048-11-05 17:31 G	25114421.09	25114421.23	25114421.37	0.0137	0.0021
Mercury	64049-02-01 21:07 G	25114509.25	25114509.38	25114509.51	0.0137	0.0040
Mercury	64049-05-01 00:29 G	25114597.40	25114597.52	25114597.65	0.0137	0.0061
Venus	64049-05-11 08:10 G	25114607.65	25114607.84	25114608.06	0.0137	0.0048
Mercury	64049-07-28 04:05 G	25114685.56	25114685.67	25114685.78	0.0137	0.0080
Mercury	64049-10-24 07:41 G	25114773.73	25114773.82	25114773.91	0.0137	0.0100
Venus	64049-12-23 15:36 G	25114833.99	25114834.15	25114834.34	0.0137	0.0083
Mercury	64050-01-20 11:03 G	25114861.90	25114861.96	25114862.03	0.0137	0.0119

Venus	64050-08-06 23:17 G	25115060.37	25115060.47	25115060.60	0.0137	0.0117
Earth	64052-06-17 01:12 G	25115740.43	25115740.55	25115740.71	0.0138	0.0114
Moon	64052-06-17 04:05 G	25115740.54	25115740.67	25115740.82	0.0138	0.0113 *
Moon	64053-06-21 13:41 G	25116109.85	25116110.07	25116110.32	0.0138	0.0060
Earth	64053-06-21 15:36 G	25116109.94	25116110.15	25116110.39	0.0138	0.0064 *
Earth	64054-06-26 06:58 G	25116479.54	25116479.79	25116480.04	0.0139	0.0011
Moon	64054-06-26 08:53 G	25116479.63	25116479.87	25116480.12	0.0139	0.0018 *
Moon	64055-06-30 21:22 G	25116849.14	25116849.39	25116849.64	0.0139	0.0048
Earth	64055-06-30 22:34 G	25116849.21	25116849.44	25116849.70	0.0139	0.0041 *
Earth	64056-07-04 15:22 G	25117218.96	25117219.14	25117219.34	0.0140	0.0094
Moon	64056-07-04 16:05 G	25117219.00	25117219.17	25117219.38	0.0140	0.0088 *
Mars	64070-06-25 01:12 G	25122322.30	25122322.55	25122322.81	0.0144	0.0070
Venus	64086-07-22 21:22 G	25128194.34	25128194.39	25128194.46	0.0142	0.0136
Venus	64087-03-06 07:41 G	25128420.68	25128420.82	25128420.99	0.0142	0.0099
Mercury	64087-09-18 20:53 G	25128617.37	25128617.37	25128617.38	0.0142	0.0142
Venus	64087-10-18 18:00 G	25128647.06	25128647.25	25128647.45	0.0142	0.0061
Mercury	64087-12-16 03:36 G	25128705.55	25128705.65	25128705.76	0.0142	0.0114
Mercury	64088-03-13 10:19 G	25128793.80	25128793.93	25128794.08	0.0142	0.0086
Venus	64088-06-01 04:05 G	25128873.46	25128873.67	25128873.89	0.0141	0.0023
Mercury	64088-06-09 17:17 G	25128882.06	25128882.22	25128882.38	0.0141	0.0058
Mercury	64088-09-06 00:00 G	25128970.33	25128970.50	25128970.68	0.0141	0.0030
Mercury	64088-12-03 06:58 G	25129058.61	25129058.79	25129058.97	0.0141	0.0001
Venus	64089-01-13 13:55 G	25129099.87	25129100.08	25129100.30	0.0141	0.0015
Mercury	64089-03-01 13:55 G	25129146.90	25129147.08	25129147.25	0.0141	0.0028
Mercury	64089-05-28 20:39 G	25129235.20	25129235.36	25129235.53	0.0141	0.0056
Mercury	64089-08-25 03:36 G	25129323.51	25129323.65	25129323.80	0.0141	0.0085
Venus	64089-08-27 23:46 G	25129326.29	25129326.49	25129326.70	0.0141	0.0051
Mercury	64089-11-21 10:34 G	25129411.85	25129411.94	25129412.06	0.0141	0.0114
Venus	64090-04-11 09:07 G	25129552.73	25129552.88	25129553.06	0.0141	0.0088
Venus	64090-11-23 18:43 G	25129779.19	25129779.28	25129779.39	0.0141	0.0124

Earth	64092-12-21 10:34 G	25130537.76	25130537.94	25130538.13	0.0140	0.0095
Moon	64092-12-21 11:03 G	25130537.81	25130537.96	25130538.14	0.0140	0.0103 *
Earth	64093-12-26 03:51 G	25130907.42	25130907.66	25130907.91	0.0139	0.0042
Moon	64093-12-26 03:51 G	25130907.42	25130907.66	25130907.93	0.0139	0.0038 *
Moon	64094-12-30 20:24 G	25131277.11	25131277.35	25131277.60	0.0139	0.0008
Earth	64094-12-30 20:39 G	25131277.11	25131277.36	25131277.62	0.0139	0.0011 *
Earth	64096-01-04 12:15 G	25131646.79	25131647.01	25131647.25	0.0139	0.0063
Moon	64096-01-04 12:58 G	25131646.82	25131647.04	25131647.29	0.0139	0.0061 *
Moon	64097-01-08 01:55 G	25132016.48	25132016.58	25132016.72	0.0138	0.0120
Earth	64097-01-08 03:22 G	25132016.51	25132016.64	25132016.79	0.0138	0.0114 *
Venus	64129-12-05 04:48 G	25144034.68	25144034.70	25144034.75	0.0136	0.0134
Venus	64130-07-19 11:46 G	25144260.86	25144260.99	25144261.15	0.0136	0.0102
Mercury	64130-12-22 19:12 G	25144417.30	25144417.30	25144417.33	0.0136	0.0136
Venus	64131-03-02 18:58 G	25144487.11	25144487.29	25144487.49	0.0136	0.0068
Mercury	64131-03-20 23:17 G	25144505.39	25144505.47	25144505.54	0.0136	0.0115
Mercury	64131-06-17 02:39 G	25144593.52	25144593.61	25144593.72	0.0136	0.0095
Mercury	64131-09-13 06:29 G	25144681.66	25144681.77	25144681.89	0.0137	0.0074
Venus	64131-10-15 02:10 G	25144713.39	25144713.59	25144713.81	0.0137	0.0035
Mercury	64131-12-10 10:05 G	25144769.80	25144769.92	25144770.05	0.0137	0.0054
Mercury	64132-03-07 13:41 G	25144857.94	25144858.07	25144858.21	0.0137	0.0035
Venus	64132-05-28 09:36 G	25144939.68	25144939.90	25144940.11	0.0137	0.0003
Mercury	64132-06-03 17:31 G	25144946.09	25144946.23	25144946.37	0.0137	0.0014
Mercury	64132-08-30 21:07 G	25145034.24	25145034.38	25145034.52	0.0137	0.0007
Mercury	64132-11-27 00:43 G	25145122.39	25145122.53	25145122.66	0.0137	0.0026
Venus	64133-01-09 16:34 G	25145165.99	25145166.19	25145166.41	0.0137	0.0033
Mercury	64133-02-23 04:05 G	25145210.54	25145210.67	25145210.81	0.0137	0.0046
Mercury	64133-05-22 07:41 G	25145298.70	25145298.82	25145298.94	0.0137	0.0066
Mercury	64133-08-18 11:17 G	25145386.86	25145386.97	25145387.08	0.0137	0.0085
Venus	64133-08-24 00:00 G	25145392.33	25145392.50	25145392.71	0.0137	0.0067
Mercury	64133-11-14 14:39 G	25145475.03	25145475.11	25145475.20	0.0137	0.0105

Mercury	64134-02-10 18:00 G	25145563.21	25145563.25	25145563.32	0.0137	0.0125
Venus	64134-04-07 08:10 G	25145618.69	25145618.84	25145618.99	0.0137	0.0101
Venus	64134-11-19 15:51 G	25145845.13	25145845.16	25145845.20	0.0138	0.0135
Earth	64136-06-18 11:46 G	25146421.83	25146421.99	25146422.14	0.0138	0.0109
Moon	64136-06-18 13:55 G	25146421.95	25146422.08	25146422.25	0.0138	0.0109 *
Moon	64137-06-22 22:34 G	25146791.23	25146791.44	25146791.69	0.0138	0.0061
Earth	64137-06-23 01:41 G	25146791.36	25146791.57	25146791.82	0.0138	0.0058 *
Earth	64138-06-27 17:03 G	25147160.96	25147161.21	25147161.47	0.0139	0.0007
Moon	64138-06-27 19:12 G	25147161.06	25147161.30	25147161.55	0.0139	0.0002 *
Moon	64139-07-02 06:29 G	25147530.53	25147530.77	25147531.03	0.0139	0.0038
Earth	64139-07-02 08:39 G	25147530.63	25147530.86	25147531.11	0.0139	0.0046 *
Earth	64140-07-06 01:12 G	25147900.38	25147900.55	25147900.74	0.0140	0.0099
Moon	64140-07-06 02:53 G	25147900.48	25147900.62	25147900.80	0.0140	0.0106 *
Mars	64155-02-19 01:41 G	25153241.41	25153241.57	25153241.74	0.0144	0.0118
Jupiter	64165-10-28 02:53 G	25157145.20	25157145.62	25157146.11	0.0143	0.0079
Venus	64170-11-04 14:10 G	25158978.98	25158979.09	25158979.23	0.0142	0.0116
Venus	64171-06-19 00:15 G	25159205.35	25159205.51	25159205.71	0.0142	0.0079
Mercury	64171-10-10 03:51 G	25159318.61	25159318.66	25159318.71	0.0142	0.0135
Mercury	64172-01-06 10:19 G	25159406.83	25159406.93	25159407.05	0.0142	0.0107
Venus	64172-01-31 10:48 G	25159431.74	25159431.95	25159432.16	0.0142	0.0041
Mercury	64172-04-03 17:03 G	25159495.07	25159495.21	25159495.37	0.0142	0.0080
Mercury	64172-07-01 00:00 G	25159583.34	25159583.50	25159583.67	0.0141	0.0051
Venus	64172-09-13 20:53 G	25159658.15	25159658.37	25159658.59	0.0141	0.0003
Mercury	64172-09-27 06:43 G	25159671.61	25159671.78	25159671.96	0.0141	0.0024
Mercury	64172-12-24 13:41 G	25159759.89	25159760.07	25159760.25	0.0141	0.0006
Mercury	64173-03-22 20:39 G	25159848.19	25159848.36	25159848.54	0.0141	0.0034
Venus	64173-04-28 06:29 G	25159884.57	25159884.77	25159884.99	0.0141	0.0034
Mercury	64173-06-19 03:22 G	25159936.49	25159936.64	25159936.81	0.0141	0.0063
Mercury	64173-09-15 10:34 G	25160024.80	25160024.94	25160025.08	0.0141	0.0092
Venus	64173-12-10 16:05 G	25160110.99	25160111.17	25160111.37	0.0141	0.0071

Mercury	64173-12-12 17:31 G	25160113.14	25160113.23	25160113.33	0.0141	0.0120
Venus	64174-07-25 01:41 G	25160337.44	25160337.57	25160337.72	0.0141	0.0107
Earth	64176-12-22 19:27 G	25161219.13	25161219.31	25161219.51	0.0140	0.0091
Moon	64176-12-22 20:10 G	25161219.16	25161219.34	25161219.55	0.0140	0.0084 *
Moon	64177-12-27 11:46 G	25161588.75	25161588.99	25161589.25	0.0139	0.0045
Earth	64177-12-27 12:58 G	25161588.80	25161589.04	25161589.29	0.0139	0.0038 *
Earth	64179-01-01 05:46 G	25161958.49	25161958.74	25161959.00	0.0139	0.0015
Moon	64179-01-01 05:46 G	25161958.51	25161958.74	25161958.99	0.0139	0.0018 *
Moon	64180-01-05 21:22 G	25162328.18	25162328.39	25162328.64	0.0139	0.0068
Earth	64180-01-05 21:36 G	25162328.19	25162328.40	25162328.63	0.0139	0.0067 *
Moon	64181-01-09 12:15 G	25162697.89	25162698.01	25162698.16	0.0138	0.0115
Earth	64181-01-09 12:15 G	25162697.91	25162698.01	25162698.17	0.0138	0.0119 *
Mars	64195-06-22 17:31 G	25167975.15	25167975.23	25167975.37	0.0135	0.0127
Venus	64214-03-19 20:39 G	25174819.26	25174819.36	25174819.49	0.0136	0.0116
Venus	64214-11-01 03:36 G	25175045.49	25175045.65	25175045.84	0.0136	0.0083
Mercury	64215-01-13 02:24 G	25175118.57	25175118.60	25175118.65	0.0136	0.0130
Mercury	64215-04-11 06:15 G	25175206.68	25175206.76	25175206.85	0.0136	0.0109
Venus	64215-06-15 10:48 G	25175271.75	25175271.95	25175272.16	0.0136	0.0050
Mercury	64215-07-08 09:51 G	25175294.81	25175294.91	25175295.02	0.0136	0.0089
Mercury	64215-10-04 13:41 G	25175382.95	25175383.07	25175383.19	0.0137	0.0069
Mercury	64215-12-31 17:17 G	25175471.09	25175471.22	25175471.35	0.0137	0.0049
Venus	64216-01-27 18:00 G	25175498.04	25175498.25	25175498.47	0.0137	0.0016
Mercury	64216-03-28 20:53 G	25175559.24	25175559.37	25175559.51	0.0137	0.0029
Mercury	64216-06-25 00:29 G	25175647.38	25175647.52	25175647.66	0.0137	0.0009
Venus	64216-09-10 01:27 G	25175724.34	25175724.56	25175724.78	0.0137	0.0018
Mercury	64216-09-21 04:05 G	25175735.53	25175735.67	25175735.81	0.0137	0.0012
Mercury	64216-12-18 07:41 G	25175823.69	25175823.82	25175823.96	0.0137	0.0032
Mercury	64217-03-16 11:17 G	25175911.84	25175911.97	25175912.10	0.0137	0.0051
Venus	64217-04-24 08:53 G	25175950.67	25175950.87	25175951.08	0.0137	0.0052
Mercury	64217-06-12 14:53 G	25176000.00	25176000.12	25176000.24	0.0137	0.0071

Mercury	64217-09-08 18:15 G	25176088.17	25176088.26	25176088.37	0.0137	0.0091
Mercury	64217-12-05 21:36 G	25176176.33	25176176.40	25176176.49	0.0137	0.0112
Venus	64217-12-06 16:34 G	25176177.02	25176177.19	25176177.36	0.0137	0.0086
Mercury	64218-03-04 01:12 G	25176264.52	25176264.55	25176264.60	0.0137	0.0131
Venus	64218-07-21 00:15 G	25176403.41	25176403.51	25176403.62	0.0137	0.0120
Earth	64220-06-19 21:51 G	25177103.25	25177103.41	25177103.58	0.0138	0.0103
Moon	64220-06-20 00:58 G	25177103.39	25177103.54	25177103.72	0.0138	0.0101 *
Moon	64221-06-24 09:07 G	25177472.65	25177472.88	25177473.13	0.0138	0.0051
Earth	64221-06-24 12:00 G	25177472.78	25177473.00	25177473.25	0.0138	0.0053 *
Earth	64222-06-29 03:07 G	25177842.38	25177842.63	25177842.89	0.0139	0.0002
Moon	64222-06-29 06:15 G	25177842.51	25177842.76	25177843.01	0.0139	0.0007 *
Moon	64223-07-03 16:19 G	25178211.95	25178212.18	25178212.42	0.0139	0.0057
Earth	64223-07-03 18:58 G	25178212.06	25178212.29	25178212.53	0.0139	0.0051 *
Earth	64224-07-07 11:03 G	25178581.81	25178581.96	25178582.15	0.0140	0.0104
Moon	64224-07-07 13:12 G	25178581.89	25178582.05	25178582.24	0.0140	0.0096 *
Venus	64254-07-05 20:10 G	25189537.29	25189537.34	25189537.43	0.0142	0.0134
Venus	64255-02-17 06:43 G	25189763.63	25189763.78	25189763.94	0.0142	0.0096
Venus	64255-10-01 16:48 G	25189990.02	25189990.20	25189990.41	0.0142	0.0059
Mercury	64255-10-31 10:05 G	25190019.87	25190019.92	25190020.01	0.0142	0.0130
Mercury	64256-01-27 17:03 G	25190108.10	25190108.21	25190108.34	0.0142	0.0102
Mercury	64256-04-24 23:46 G	25190196.35	25190196.49	25190196.65	0.0142	0.0074
Venus	64256-05-15 03:07 G	25190216.42	25190216.63	25190216.85	0.0142	0.0021
Mercury	64256-07-22 06:43 G	25190284.61	25190284.78	25190284.95	0.0141	0.0045
Mercury	64256-10-18 13:27 G	25190372.88	25190373.06	25190373.24	0.0141	0.0017
Venus	64256-12-27 12:58 G	25190442.82	25190443.04	25190443.26	0.0141	0.0016
Mercury	64257-01-14 20:24 G	25190461.17	25190461.35	25190461.53	0.0141	0.0011
Mercury	64257-04-13 03:07 G	25190549.46	25190549.63	25190549.81	0.0141	0.0040
Mercury	64257-07-10 10:05 G	25190637.77	25190637.92	25190638.08	0.0141	0.0069
Venus	64257-08-10 22:48 G	25190669.25	25190669.45	25190669.65	0.0141	0.0054
Mercury	64257-10-06 17:03 G	25190726.09	25190726.21	25190726.35	0.0141	0.0097

Mercury	64258-01-03 00:00 G	25190814.43	25190814.50	25190814.59	0.0141	0.0126
Venus	64258-03-25 08:10 G	25190895.68	25190895.84	25190896.01	0.0141	0.0090
Venus	64258-11-06 17:31 G	25191122.15	25191122.23	25191122.34	0.0141	0.0127
Moon	64259-12-20 07:12 G	25191530.74	25191530.80	25191530.89	0.0140	0.0134
Earth	64260-12-24 03:36 G	25191900.46	25191900.65	25191900.86	0.0140	0.0087
Moon	64260-12-24 05:31 G	25191900.56	25191900.73	25191900.93	0.0140	0.0095 *
Moon	64261-12-28 20:10 G	25192270.08	25192270.34	25192270.60	0.0139	0.0028
Earth	64261-12-28 21:22 G	25192270.14	25192270.39	25192270.64	0.0139	0.0034 *
Earth	64263-01-02 13:55 G	25192639.84	25192640.08	25192640.34	0.0139	0.0019
Moon	64263-01-02 15:22 G	25192639.89	25192640.14	25192640.38	0.0139	0.0015 *
Moon	64264-01-07 05:03 G	25193009.50	25193009.71	25193009.95	0.0139	0.0071
Earth	64264-01-07 05:46 G	25193009.53	25193009.74	25193009.97	0.0139	0.0071 *
Earth	64265-01-10 20:39 G	25193379.26	25193379.36	25193379.50	0.0138	0.0122
Moon	64265-01-10 20:53 G	25193379.29	25193379.37	25193379.49	0.0138	0.0126 *
Mars	64280-02-16 21:07 G	25198894.08	25198894.38	25198894.69	0.0135	0.0046
Venus	64297-11-17 05:17 G	25205377.67	25205377.72	25205377.79	0.0136	0.0130
Venus	64298-07-01 12:15 G	25205603.87	25205604.01	25205604.17	0.0136	0.0098
Mercury	64299-02-02 09:36 G	25205819.85	25205819.90	25205819.96	0.0136	0.0125
Venus	64299-02-12 19:12 G	25205830.12	25205830.30	25205830.50	0.0136	0.0065
Mercury	64299-05-01 13:12 G	25205907.97	25205908.05	25205908.15	0.0136	0.0104
Mercury	64299-07-28 17:03 G	25205996.10	25205996.21	25205996.32	0.0137	0.0084
Venus	64299-09-27 02:39 G	25206056.40	25206056.61	25206056.82	0.0137	0.0031
Mercury	64299-10-24 20:39 G	25206084.24	25206084.36	25206084.49	0.0137	0.0064
Mercury	64300-01-21 00:15 G	25206172.38	25206172.51	25206172.65	0.0137	0.0044
Mercury	64300-04-19 04:05 G	25206260.53	25206260.67	25206260.81	0.0137	0.0023
Venus	64300-05-11 10:05 G	25206282.70	25206282.92	25206283.13	0.0137	0.0004
Mercury	64300-07-16 07:41 G	25206348.68	25206348.82	25206348.96	0.0137	0.0003
Mercury	64300-10-12 11:17 G	25206436.83	25206436.97	25206437.11	0.0137	0.0017
Venus	64300-12-23 17:17 G	25206509.01	25206509.22	25206509.43	0.0137	0.0037
Mercury	64301-01-08 14:53 G	25206524.98	25206525.12	25206525.25	0.0137	0.0037

Mercury	64301-04-06 18:15 G	25206613.14	25206613.26	25206613.39	0.0137	0.0057
Mercury	64301-07-03 21:51 G	25206701.30	25206701.41	25206701.53	0.0137	0.0077
Venus	64301-08-07 00:43 G	25206735.35	25206735.53	25206735.73	0.0137	0.0071
Mercury	64301-09-30 01:27 G	25206789.47	25206789.56	25206789.66	0.0137	0.0096
Mercury	64301-12-27 04:48 G	25206877.64	25206877.70	25206877.78	0.0137	0.0116
Venus	64302-03-21 08:24 G	25206961.73	25206961.85	25206962.00	0.0137	0.0105
Mercury	64302-03-25 08:24 G	25206965.84	25206965.85	25206965.87	0.0137	0.0136
Earth	64304-06-21 07:41 G	25207784.66	25207784.82	25207785.01	0.0138	0.0099
Moon	64304-06-21 11:03 G	25207784.80	25207784.96	25207785.14	0.0138	0.0101 *
Moon	64305-06-25 18:15 G	25208154.03	25208154.26	25208154.51	0.0138	0.0050
Earth	64305-06-25 22:05 G	25208154.19	25208154.42	25208154.66	0.0138	0.0049 *
Earth	64306-06-30 12:58 G	25208523.79	25208524.04	25208524.30	0.0139	0.0004
Moon	64306-06-30 16:05 G	25208523.92	25208524.17	25208524.42	0.0139	0.0008 *
Moon	64307-07-05 01:27 G	25208893.33	25208893.56	25208893.81	0.0139	0.0047
Earth	64307-07-05 04:34 G	25208893.47	25208893.69	25208893.94	0.0139	0.0055 *
Earth	64308-07-08 20:53 G	25209263.22	25209263.37	25209263.54	0.0140	0.0107
Moon	64308-07-08 23:31 G	25209263.35	25209263.48	25209263.64	0.0140	0.0115 *
Mars	64322-07-10 05:46 G	25214377.45	25214377.74	25214378.03	0.0144	0.0016
Venus	64338-10-18 13:27 G	25220321.93	25220322.06	25220322.19	0.0142	0.0113
Venus	64339-06-01 23:31 G	25220548.30	25220548.48	25220548.67	0.0142	0.0076
Mercury	64339-11-21 17:17 G	25220721.14	25220721.22	25220721.31	0.0142	0.0123
Venus	64340-01-14 09:36 G	25220774.69	25220774.90	25220775.11	0.0142	0.0038
Mercury	64340-02-17 23:46 G	25220809.37	25220809.49	25220809.63	0.0142	0.0095
Mercury	64340-05-16 06:29 G	25220897.63	25220897.77	25220897.94	0.0141	0.0068
Mercury	64340-08-12 13:27 G	25220985.89	25220986.06	25220986.23	0.0141	0.0039
Venus	64340-08-27 19:41 G	25221001.10	25221001.32	25221001.54	0.0141	0.0002
Mercury	64340-11-08 20:24 G	25221074.17	25221074.35	25221074.52	0.0141	0.0011
Mercury	64341-02-05 03:07 G	25221162.45	25221162.63	25221162.81	0.0141	0.0018
Venus	64341-04-11 05:31 G	25221227.52	25221227.73	25221227.94	0.0141	0.0037
Mercury	64341-05-04 09:51 G	25221250.75	25221250.91	25221251.09	0.0141	0.0047

Mercury	64341-07-31 16:48 G	25221339.06	25221339.20	25221339.36	0.0141	0.0075
Mercury	64341-10-27 23:46 G	25221427.38	25221427.49	25221427.62	0.0141	0.0104
Venus	64341-11-23 14:53 G	25221453.95	25221454.12	25221454.32	0.0141	0.0074
Mercury	64342-01-24 06:43 G	25221515.73	25221515.78	25221515.85	0.0141	0.0133
Venus	64342-07-08 00:43 G	25221680.40	25221680.53	25221680.67	0.0141	0.0110
Earth	64343-12-21 18:00 G	25222212.21	25222212.25	25222212.33	0.0140	0.0137
Earth	64344-12-25 12:29 G	25222581.83	25222582.02	25222582.24	0.0140	0.0083
Moon	64344-12-25 14:39 G	25222581.91	25222582.11	25222582.33	0.0140	0.0076 *
Moon	64345-12-30 03:51 G	25222951.41	25222951.66	25222951.92	0.0139	0.0038
Earth	64345-12-30 06:15 G	25222951.52	25222951.76	25222952.02	0.0139	0.0030 *
Earth	64347-01-03 23:03 G	25223321.21	25223321.46	25223321.71	0.0139	0.0022
Moon	64347-01-04 00:29 G	25223321.28	25223321.52	25223321.76	0.0139	0.0026 *
Moon	64348-01-08 13:12 G	25223690.84	25223691.05	25223691.29	0.0139	0.0073
Earth	64348-01-08 14:53 G	25223690.91	25223691.12	25223691.34	0.0139	0.0074 *
Earth	64349-01-12 05:46 G	25224060.64	25224060.74	25224060.86	0.0138	0.0125
Moon	64349-01-12 06:43 G	25224060.68	25224060.78	25224060.91	0.0138	0.0123 *
Venus	64382-03-01 20:53 G	25236162.26	25236162.37	25236162.51	0.0136	0.0112
Venus	64382-10-14 03:51 G	25236388.50	25236388.66	25236388.85	0.0136	0.0080
Mercury	64383-02-23 16:34 G	25236521.13	25236521.19	25236521.27	0.0136	0.0119
Mercury	64383-05-22 20:24 G	25236609.26	25236609.35	25236609.45	0.0137	0.0099
Venus	64383-05-28 11:17 G	25236614.76	25236614.97	25236615.18	0.0137	0.0046
Mercury	64383-08-19 00:00 G	25236697.39	25236697.50	25236697.62	0.0137	0.0079
Mercury	64383-11-15 03:51 G	25236785.53	25236785.66	25236785.79	0.0137	0.0058
Venus	64384-01-09 18:29 G	25236841.05	25236841.27	25236841.49	0.0137	0.0012
Mercury	64384-02-11 07:27 G	25236873.68	25236873.81	25236873.95	0.0137	0.0038
Mercury	64384-05-09 11:03 G	25236961.83	25236961.96	25236962.10	0.0137	0.0018
Mercury	64384-08-05 14:53 G	25237049.98	25237050.12	25237050.26	0.0137	0.0004
Venus	64384-08-23 01:55 G	25237067.36	25237067.58	25237067.79	0.0137	0.0022
Mercury	64384-11-01 18:15 G	25237138.13	25237138.26	25237138.40	0.0137	0.0023
Mercury	64385-01-28 22:05 G	25237226.28	25237226.42	25237226.55	0.0137	0.0042

Venus	64385-04-06 09:22 G	25237293.70	25237293.89	25237294.10	0.0137	0.0056
Mercury	64385-04-27 01:27 G	25237314.44	25237314.56	25237314.69	0.0137	0.0062
Mercury	64385-07-24 05:03 G	25237402.60	25237402.71	25237402.82	0.0137	0.0082
Mercury	64385-10-20 08:24 G	25237490.77	25237490.85	25237490.95	0.0137	0.0102
Venus	64385-11-18 16:48 G	25237520.05	25237520.20	25237520.38	0.0137	0.0091
Mercury	64386-01-16 12:00 G	25237578.95	25237579.00	25237579.07	0.0137	0.0122
Venus	64386-07-03 00:29 G	25237746.45	25237746.52	25237746.63	0.0137	0.0125
Earth	64388-06-21 17:17 G	25238466.06	25238466.22	25238466.43	0.0138	0.0096
Moon	64388-06-21 21:07 G	25238466.21	25238466.38	25238466.58	0.0138	0.0092 *
Moon	64389-06-26 04:19 G	25238835.45	25238835.68	25238835.94	0.0138	0.0044
Earth	64389-06-26 07:55 G	25238835.60	25238835.83	25238836.08	0.0138	0.0045 *
Earth	64390-06-30 22:48 G	25239205.20	25239205.45	25239205.71	0.0139	0.0007
Moon	64390-07-01 02:24 G	25239205.35	25239205.60	25239205.86	0.0139	0.0003 *
Moon	64391-07-05 11:03 G	25239574.75	25239574.96	25239575.20	0.0139	0.0065
Earth	64391-07-05 14:39 G	25239574.88	25239575.11	25239575.34	0.0139	0.0059 *
Earth	64392-07-09 06:43 G	25239944.63	25239944.78	25239944.94	0.0140	0.0111
Moon	64392-07-09 09:22 G	25239944.75	25239944.89	25239945.08	0.0140	0.0104 *
Venus	64422-06-17 19:41 G	25250880.25	25250880.32	25250880.42	0.0142	0.0131
Venus	64423-01-30 06:15 G	25251106.60	25251106.76	25251106.92	0.0142	0.0093
Venus	64423-09-13 16:19 G	25251332.99	25251333.18	25251333.39	0.0142	0.0056
Mercury	64423-12-12 00:15 G	25251422.41	25251422.51	25251422.61	0.0142	0.0116
Mercury	64424-03-09 06:43 G	25251510.65	25251510.78	25251510.93	0.0141	0.0089
Venus	64424-04-27 02:39 G	25251559.39	25251559.61	25251559.82	0.0141	0.0018
Mercury	64424-06-05 13:27 G	25251598.91	25251599.06	25251599.23	0.0141	0.0061
Mercury	64424-09-01 20:24 G	25251687.18	25251687.35	25251687.52	0.0141	0.0032
Mercury	64424-11-29 03:07 G	25251775.46	25251775.63	25251775.81	0.0141	0.0005
Venus	64424-12-09 12:29 G	25251785.80	25251786.02	25251786.23	0.0141	0.0020
Mercury	64425-02-25 10:05 G	25251863.74	25251863.92	25251864.10	0.0141	0.0024
Mercury	64425-05-24 16:48 G	25251952.04	25251952.20	25251952.37	0.0141	0.0053
Venus	64425-07-23 21:51 G	25252012.23	25252012.41	25252012.62	0.0141	0.0057

Mercury	64425-08-20 23:31 G	25252040.35	25252040.48	25252040.64	0.0141	0.0082
Mercury	64425-11-17 06:58 G	25252128.68	25252128.79	25252128.90	0.0141	0.0110
Mercury	64426-02-13 13:41 G	25252217.06	25252217.07	25252217.10	0.0141	0.0139
Venus	64426-03-07 07:27 G	25252238.66	25252238.81	25252238.99	0.0141	0.0094
Venus	64426-10-19 17:17 G	25252465.15	25252465.22	25252465.31	0.0141	0.0130
Moon	64427-12-22 00:00 G	25252893.41	25252893.50	25252893.63	0.0140	0.0127
Earth	64427-12-22 03:07 G	25252893.57	25252893.63	25252893.73	0.0140	0.0133 *
Earth	64428-12-25 21:36 G	25253263.20	25253263.40	25253263.62	0.0140	0.0079
Moon	64428-12-26 00:43 G	25253263.34	25253263.53	25253263.73	0.0140	0.0086 *
Moon	64429-12-30 12:43 G	25253632.78	25253633.03	25253633.30	0.0139	0.0020
Earth	64429-12-30 15:07 G	25253632.89	25253633.13	25253633.39	0.0139	0.0027 *
Earth	64431-01-04 07:41 G	25254002.58	25254002.82	25254003.08	0.0139	0.0026
Moon	64431-01-04 10:19 G	25254002.68	25254002.93	25254003.17	0.0139	0.0020 *
Moon	64432-01-08 21:36 G	25254372.19	25254372.40	25254372.62	0.0139	0.0079
Earth	64432-01-08 23:31 G	25254372.27	25254372.48	25254372.69	0.0139	0.0077 *
Earth	64433-01-12 14:10 G	25254742.01	25254742.09	25254742.20	0.0138	0.0128
Moon	64433-01-12 15:36 G	25254742.09	25254742.15	25254742.25	0.0138	0.0131 *
Mars	64447-07-05 23:17 G	25260029.23	25260029.47	25260029.75	0.0135	0.0080
Venus	64465-10-30 05:17 G	25266720.66	25266720.72	25266720.81	0.0136	0.0127
Venus	64466-06-13 12:15 G	25266946.87	25266947.01	25266947.18	0.0136	0.0094
Mercury	64466-12-17 19:55 G	25267134.31	25267134.33	25267134.36	0.0136	0.0134
Venus	64467-01-25 19:41 G	25267173.12	25267173.32	25267173.51	0.0136	0.0061
Mercury	64467-03-15 23:46 G	25267222.41	25267222.49	25267222.57	0.0136	0.0114
Mercury	64467-06-12 03:22 G	25267310.54	25267310.64	25267310.75	0.0137	0.0094
Mercury	64467-09-08 06:58 G	25267398.68	25267398.79	25267398.92	0.0137	0.0074
Venus	64467-09-09 02:39 G	25267399.41	25267399.61	25267399.83	0.0137	0.0028
Mercury	64467-12-05 10:48 G	25267486.82	25267486.95	25267487.08	0.0137	0.0053
Mercury	64468-03-02 14:39 G	25267574.97	25267575.11	25267575.24	0.0137	0.0033
Venus	64468-04-22 10:19 G	25267625.71	25267625.93	25267626.15	0.0137	0.0007
Mercury	64468-05-29 18:15 G	25267663.12	25267663.26	25267663.40	0.0137	0.0013

Mercury	64468-08-25 21:51 G	25267751.27	25267751.41	25267751.55	0.0137	0.0008
Mercury	64468-11-22 01:27 G	25267839.42	25267839.56	25267839.70	0.0137	0.0028
Venus	64468-12-04 17:31 G	25267852.03	25267852.23	25267852.45	0.0137	0.0041
Mercury	64469-02-18 05:03 G	25267927.58	25267927.71	25267927.84	0.0137	0.0048
Mercury	64469-05-17 08:39 G	25268015.74	25268015.86	25268015.98	0.0137	0.0068
Venus	64469-07-19 00:58 G	25268078.38	25268078.54	25268078.74	0.0137	0.0076
Mercury	64469-08-13 12:15 G	25268103.90	25268104.01	25268104.11	0.0137	0.0087
Mercury	64469-11-09 15:36 G	25268192.07	25268192.15	25268192.24	0.0137	0.0107
Mercury	64470-02-05 18:58 G	25268280.25	25268280.29	25268280.35	0.0137	0.0128
Venus	64470-03-02 08:53 G	25268304.75	25268304.87	25268305.01	0.0137	0.0109
Moon	64471-06-18 10:19 G	25268777.88	25268777.93	25268778.01	0.0138	0.0133
Earth	64472-06-22 03:22 G	25269147.46	25269147.64	25269147.84	0.0138	0.0090
Moon	64472-06-22 06:43 G	25269147.61	25269147.78	25269147.98	0.0138	0.0093 *
Moon	64473-06-26 13:41 G	25269516.84	25269517.07	25269517.32	0.0139	0.0040
Earth	64473-06-26 17:17 G	25269516.99	25269517.22	25269517.48	0.0139	0.0041 *
Earth	64474-07-01 08:24 G	25269886.60	25269886.85	25269887.10	0.0139	0.0011
Moon	64474-07-01 11:46 G	25269886.74	25269886.99	25269887.25	0.0139	0.0015 *
Moon	64475-07-05 20:10 G	25270256.11	25270256.34	25270256.58	0.0139	0.0055
Earth	64475-07-06 00:00 G	25270256.28	25270256.50	25270256.73	0.0139	0.0063 *
Earth	64476-07-09 15:36 G	25270626.03	25270626.15	25270626.32	0.0140	0.0115
Moon	64476-07-09 19:12 G	25270626.19	25270626.30	25270626.44	0.0140	0.0122 *
Venus	64506-09-30 12:43 G	25281664.91	25281665.03	25281665.18	0.0142	0.0111
Venus	64507-05-14 23:03 G	25281891.29	25281891.46	25281891.66	0.0142	0.0074
Mercury	64507-10-06 00:15 G	25282035.48	25282035.51	25282035.57	0.0142	0.0137
Venus	64507-12-27 09:22 G	25282117.68	25282117.89	25282118.10	0.0142	0.0036
Mercury	64508-01-02 07:12 G	25282123.69	25282123.80	25282123.91	0.0142	0.0109
Mercury	64508-03-30 13:41 G	25282211.94	25282212.07	25282212.22	0.0141	0.0081
Mercury	64508-06-26 20:24 G	25282300.20	25282300.35	25282300.52	0.0141	0.0054
Venus	64508-08-09 19:27 G	25282344.09	25282344.31	25282344.53	0.0141	0.0002
Mercury	64508-09-23 03:22 G	25282388.47	25282388.64	25282388.82	0.0141	0.0025

Mercury	64508-12-20 10:05 G	25282476.75	25282476.92	25282477.10	0.0141	0.0005
Mercury	64509-03-18 17:03 G	25282565.04	25282565.21	25282565.39	0.0141	0.0032
Venus	64509-03-24 05:17 G	25282570.51	25282570.72	25282570.93	0.0141	0.0039
Mercury	64509-06-15 00:00 G	25282653.34	25282653.50	25282653.66	0.0141	0.0060
Mercury	64509-09-11 06:43 G	25282741.65	25282741.78	25282741.93	0.0141	0.0089
Venus	64509-11-05 14:39 G	25282796.95	25282797.11	25282797.31	0.0141	0.0077
Mercury	64509-12-08 13:27 G	25282829.98	25282830.06	25282830.18	0.0141	0.0118
Venus	64510-06-20 00:29 G	25283023.40	25283023.52	25283023.66	0.0141	0.0113
Moon	64511-12-23 09:22 G	25283574.80	25283574.89	25283574.98	0.0140	0.0131
Earth	64511-12-23 12:29 G	25283574.94	25283575.02	25283575.15	0.0140	0.0127 *
Earth	64512-12-27 06:43 G	25283944.58	25283944.78	25283945.01	0.0140	0.0075
Moon	64512-12-27 10:05 G	25283944.71	25283944.92	25283945.14	0.0140	0.0067 *
Moon	64513-12-31 21:22 G	25284314.14	25284314.39	25284314.65	0.0139	0.0030
Earth	64514-01-01 00:43 G	25284314.28	25284314.53	25284314.78	0.0139	0.0022 *
Earth	64515-01-05 17:03 G	25284683.96	25284684.21	25284684.46	0.0139	0.0030
Moon	64515-01-05 19:12 G	25284684.08	25284684.30	25284684.56	0.0139	0.0037 *
Moon	64516-01-10 06:15 G	25285053.55	25285053.76	25285053.97	0.0139	0.0078
Earth	64516-01-10 08:53 G	25285053.66	25285053.87	25285054.08	0.0139	0.0081 *
Earth	64517-01-13 23:17 G	25285423.41	25285423.47	25285423.57	0.0138	0.0132
Moon	64517-01-14 01:55 G	25285423.51	25285423.58	25285423.66	0.0138	0.0131 *
Mars	64532-03-01 02:39 G	25290948.38	25290948.61	25290948.86	0.0135	0.0091
Venus	64550-02-11 20:53 G	25297505.25	25297505.37	25297505.50	0.0136	0.0110
Venus	64550-09-26 03:51 G	25297731.49	25297731.66	25297731.85	0.0136	0.0077
Mercury	64551-01-08 02:39 G	25297835.58	25297835.61	25297835.67	0.0136	0.0130
Mercury	64551-04-06 06:43 G	25297923.70	25297923.78	25297923.87	0.0136	0.0109
Venus	64551-05-10 11:17 G	25297957.76	25297957.97	25297958.17	0.0136	0.0043
Mercury	64551-07-03 10:19 G	25298011.83	25298011.93	25298012.04	0.0137	0.0088
Mercury	64551-09-29 14:10 G	25298099.97	25298100.09	25298100.21	0.0137	0.0068
Venus	64551-12-22 18:29 G	25298184.05	25298184.27	25298184.49	0.0137	0.0009
Mercury	64551-12-26 17:46 G	25298188.11	25298188.24	25298188.38	0.0137	0.0048

Mercury	64552-03-23 21:36 G	25298276.26	25298276.40	25298276.54	0.0137	0.0027
Mercury	64552-06-20 01:12 G	25298364.41	25298364.55	25298364.69	0.0137	0.0007
Venus	64552-08-05 01:55 G	25298410.37	25298410.58	25298410.79	0.0137	0.0025
Mercury	64552-09-16 04:48 G	25298452.56	25298452.70	25298452.84	0.0137	0.0013
Mercury	64552-12-13 08:24 G	25298540.72	25298540.85	25298540.99	0.0137	0.0033
Mercury	64553-03-11 12:00 G	25298628.88	25298629.00	25298629.13	0.0137	0.0053
Venus	64553-03-19 09:22 G	25298636.70	25298636.89	25298637.10	0.0137	0.0059
Mercury	64553-06-07 15:36 G	25298717.04	25298717.15	25298717.27	0.0137	0.0073
Mercury	64553-09-03 18:58 G	25298805.20	25298805.29	25298805.40	0.0137	0.0094
Venus	64553-10-31 17:03 G	25298863.06	25298863.21	25298863.38	0.0137	0.0093
Mercury	64553-11-30 22:48 G	25298893.37	25298893.45	25298893.53	0.0137	0.0112
Mercury	64554-02-27 02:10 G	25298981.56	25298981.59	25298981.63	0.0137	0.0132
Venus	64554-06-15 00:43 G	25299089.46	25299089.53	25299089.62	0.0137	0.0128
Earth	64555-06-19 23:03 G	25299459.43	25299459.46	25299459.53	0.0138	0.0135
Earth	64556-06-23 12:15 G	25299828.83	25299829.01	25299829.23	0.0138	0.0086
Moon	64556-06-23 15:51 G	25299828.97	25299829.16	25299829.38	0.0138	0.0081 *
Moon	64557-06-27 23:17 G	25300198.23	25300198.47	25300198.72	0.0139	0.0036
Earth	64557-06-28 02:53 G	25300198.38	25300198.62	25300198.87	0.0139	0.0036 *
Earth	64558-07-02 17:31 G	25300567.98	25300568.23	25300568.49	0.0139	0.0015
Moon	64558-07-02 21:22 G	25300568.14	25300568.39	25300568.65	0.0139	0.0012 *
Moon	64559-07-07 05:31 G	25300937.52	25300937.73	25300937.95	0.0139	0.0073
Earth	64559-07-07 09:07 G	25300937.66	25300937.88	25300938.10	0.0139	0.0067 *
Earth	64560-07-11 00:58 G	25301307.43	25301307.54	25301307.69	0.0140	0.0119
Moon	64560-07-11 04:34 G	25301307.56	25301307.69	25301307.86	0.0140	0.0111 *
Mars	64574-07-23 09:36 G	25306432.62	25306432.90	25306433.19	0.0144	0.0035
Venus	64590-05-30 19:12 G	25312223.23	25312223.30	25312223.41	0.0142	0.0129
Venus	64591-01-12 05:46 G	25312449.58	25312449.74	25312449.91	0.0142	0.0091
Venus	64591-08-26 15:51 G	25312675.97	25312676.16	25312676.38	0.0142	0.0054
Mercury	64591-10-26 07:12 G	25312736.75	25312736.80	25312736.88	0.0142	0.0130
Mercury	64592-01-22 14:10 G	25312824.97	25312825.09	25312825.21	0.0141	0.0102

Venus	64592-04-09 02:10 G	25312902.38	25312902.59	25312902.81	0.0141	0.0016
Mercury	64592-04-19 20:39 G	25312913.22	25312913.36	25312913.52	0.0141	0.0074
Mercury	64592-07-17 03:22 G	25313001.48	25313001.64	25313001.82	0.0141	0.0046
Mercury	64592-10-13 10:19 G	25313089.75	25313089.93	25313090.11	0.0141	0.0018
Venus	64592-11-21 12:00 G	25313128.79	25313129.00	25313129.22	0.0141	0.0023
Mercury	64593-01-09 17:03 G	25313178.04	25313178.21	25313178.39	0.0141	0.0011
Mercury	64593-04-07 23:46 G	25313266.33	25313266.49	25313266.67	0.0141	0.0039
Mercury	64593-07-05 06:58 G	25313354.63	25313354.79	25313354.94	0.0141	0.0067
Venus	64593-07-05 21:51 G	25313355.22	25313355.41	25313355.61	0.0141	0.0059
Mercury	64593-10-01 13:41 G	25313442.94	25313443.07	25313443.21	0.0141	0.0096
Mercury	64593-12-28 20:24 G	25313531.28	25313531.35	25313531.45	0.0141	0.0125
Venus	64594-02-17 07:27 G	25313581.66	25313581.81	25313581.98	0.0141	0.0096
Venus	64594-10-01 16:48 G	25313808.15	25313808.20	25313808.29	0.0141	0.0133
Moon	64595-12-23 17:46 G	25314256.13	25314256.24	25314256.40	0.0140	0.0118
Earth	64595-12-23 21:51 G	25314256.29	25314256.41	25314256.54	0.0140	0.0122 *
Earth	64596-12-27 15:51 G	25314625.95	25314626.16	25314626.39	0.0140	0.0070
Moon	64596-12-27 19:41 G	25314626.11	25314626.32	25314626.53	0.0140	0.0076 *
Moon	64598-01-01 06:15 G	25314995.51	25314995.76	25314996.02	0.0139	0.0010
Earth	64598-01-01 09:22 G	25314995.64	25314995.89	25314996.15	0.0139	0.0018 *
Earth	64599-01-06 01:55 G	25315365.33	25315365.58	25315365.83	0.0139	0.0034
Moon	64599-01-06 05:03 G	25315365.47	25315365.71	25315365.96	0.0139	0.0028 *
Moon	64600-01-10 14:24 G	25315734.92	25315735.10	25315735.31	0.0139	0.0089
Earth	64600-01-10 17:31 G	25315735.04	25315735.23	25315735.44	0.0139	0.0085 *
Earth	64601-01-15 08:24 G	25316104.80	25316104.85	25316104.91	0.0138	0.0135
Moon	64601-01-15 10:34 G	25316104.92	25316104.94	25316105.00	0.0138	0.0137
Venus	64633-10-13 04:48 G	25328063.63	25328063.70	25328063.79	0.0136	0.0125
Venus	64634-05-27 11:46 G	25328289.84	25328289.99	25328290.16	0.0136	0.0092
Venus	64635-01-08 19:12 G	25328516.10	25328516.30	25328516.49	0.0136	0.0059
Mercury	64635-01-29 09:36 G	25328536.86	25328536.90	25328536.97	0.0136	0.0125
Mercury	64635-04-27 13:41 G	25328624.98	25328625.07	25328625.16	0.0136	0.0104

Mercury	64635-07-24 17:17 G	25328713.11	25328713.22	25328713.34	0.0137	0.0084
Venus	64635-08-23 02:10 G	25328742.39	25328742.59	25328742.81	0.0137	0.0026
Mercury	64635-10-20 21:07 G	25328801.26	25328801.38	25328801.50	0.0137	0.0063
Mercury	64636-01-17 00:43 G	25328889.40	25328889.53	25328889.67	0.0137	0.0043
Venus	64636-04-05 09:51 G	25328968.70	25328968.91	25328969.13	0.0137	0.0009
Mercury	64636-04-14 04:34 G	25328977.55	25328977.69	25328977.83	0.0137	0.0023
Mercury	64636-07-11 08:10 G	25329065.70	25329065.84	25329065.98	0.0137	0.0002
Mercury	64636-10-07 11:46 G	25329153.85	25329153.99	25329154.13	0.0137	0.0018
Venus	64636-11-17 17:17 G	25329195.02	25329195.22	25329195.43	0.0137	0.0043
Mercury	64637-01-03 15:22 G	25329242.01	25329242.14	25329242.28	0.0137	0.0038
Mercury	64637-04-01 18:58 G	25329330.17	25329330.29	25329330.42	0.0137	0.0058
Mercury	64637-06-28 22:19 G	25329418.33	25329418.43	25329418.56	0.0137	0.0079
Venus	64637-07-02 00:43 G	25329421.36	25329421.53	25329421.72	0.0137	0.0077
Mercury	64637-09-25 02:10 G	25329506.50	25329506.59	25329506.69	0.0137	0.0097
Mercury	64637-12-22 05:31 G	25329594.67	25329594.73	25329594.81	0.0137	0.0118
Venus	64638-02-13 08:24 G	25329647.74	25329647.85	25329647.99	0.0137	0.0112
Mercury	64638-03-20 09:22 G	25329682.88	25329682.89	25329682.90	0.0137	0.0137
Moon	64639-06-21 05:17 G	25330140.62	25330140.72	25330140.83	0.0138	0.0123
Earth	64639-06-21 07:55 G	25330140.76	25330140.83	25330140.92	0.0138	0.0130 *
Earth	64640-06-24 21:07 G	25330510.19	25330510.38	25330510.60	0.0138	0.0082
Moon	64640-06-25 00:29 G	25330510.34	25330510.52	25330510.74	0.0138	0.0085 *
Moon	64641-06-29 08:10 G	25330879.60	25330879.84	25330880.09	0.0139	0.0029
Earth	64641-06-29 11:31 G	25330879.74	25330879.98	25330880.23	0.0139	0.0031 *
Earth	64642-07-04 02:10 G	25331249.35	25331249.59	25331249.85	0.0139	0.0020
Moon	64642-07-04 05:46 G	25331249.49	25331249.74	25331249.99	0.0139	0.0023 *
Moon	64643-07-08 14:24 G	25331618.87	25331619.10	25331619.32	0.0139	0.0065
Earth	64643-07-08 17:46 G	25331619.03	25331619.24	25331619.47	0.0139	0.0071 *
Earth	64644-07-12 09:51 G	25331988.81	25331988.91	25331989.05	0.0140	0.0123
Moon	64644-07-12 13:27 G	25331988.98	25331989.06	25331989.16	0.0140	0.0130 *
Venus	64674-09-12 12:15 G	25343007.88	25343008.01	25343008.16	0.0142	0.0109

Venus	64675-04-26 22:19 G	25343234.26	25343234.43	25343234.64	0.0142	0.0072
Mercury	64675-11-16 14:10 G	25343438.01	25343438.09	25343438.19	0.0141	0.0123
Venus	64675-12-09 08:53 G	25343460.66	25343460.87	25343461.08	0.0141	0.0033
Mercury	64676-02-12 20:39 G	25343526.25	25343526.36	25343526.50	0.0141	0.0096
Mercury	64676-05-11 03:36 G	25343614.50	25343614.65	25343614.81	0.0141	0.0067
Venus	64676-07-22 18:43 G	25343687.07	25343687.28	25343687.50	0.0141	0.0005
Mercury	64676-08-07 10:19 G	25343702.76	25343702.93	25343703.10	0.0141	0.0039
Mercury	64676-11-03 17:03 G	25343791.04	25343791.21	25343791.39	0.0141	0.0012
Mercury	64677-01-31 00:00 G	25343879.32	25343879.50	25343879.68	0.0141	0.0017
Venus	64677-03-06 04:48 G	25343913.49	25343913.70	25343913.91	0.0141	0.0041
Mercury	64677-04-29 06:43 G	25343967.61	25343967.78	25343967.95	0.0141	0.0046
Mercury	64677-07-26 13:41 G	25344055.92	25344056.07	25344056.22	0.0141	0.0074
Venus	64677-10-18 14:24 G	25344139.93	25344140.10	25344140.29	0.0141	0.0079
Mercury	64677-10-22 20:24 G	25344144.24	25344144.35	25344144.48	0.0141	0.0103
Mercury	64678-01-19 03:07 G	25344232.59	25344232.63	25344232.71	0.0141	0.0132
Venus	64678-06-02 00:15 G	25344366.39	25344366.51	25344366.63	0.0141	0.0115
Moon	64679-12-25 02:39 G	25344937.51	25344937.61	25344937.77	0.0140	0.0121
Earth	64679-12-25 06:43 G	25344937.65	25344937.78	25344937.92	0.0140	0.0117 *
Earth	64680-12-29 00:43 G	25345307.31	25345307.53	25345307.76	0.0140	0.0065
Moon	64680-12-29 04:19 G	25345307.45	25345307.68	25345307.91	0.0140	0.0058 *
Moon	64682-01-02 14:24 G	25345676.85	25345677.10	25345677.36	0.0139	0.0021
Earth	64682-01-02 18:15 G	25345677.01	25345677.26	25345677.51	0.0139	0.0013 *
Earth	64683-01-07 10:19 G	25346046.69	25346046.93	25346047.18	0.0139	0.0039
Moon	64683-01-07 13:41 G	25346046.84	25346047.07	25346047.31	0.0139	0.0045 *
Moon	64684-01-11 22:48 G	25346416.25	25346416.45	25346416.66	0.0139	0.0085
Earth	64684-01-12 01:55 G	25346416.41	25346416.58	25346416.79	0.0139	0.0090 *
Mars	64699-07-19 05:03 G	25352083.41	25352083.71	25352084.04	0.0135	0.0034
Venus	64718-01-25 20:10 G	25358848.21	25358848.34	25358848.48	0.0136	0.0107
Venus	64718-09-09 03:07 G	25359074.46	25359074.63	25359074.82	0.0136	0.0075
Mercury	64719-02-19 16:48 G	25359238.14	25359238.20	25359238.27	0.0136	0.0119

Venus	64719-04-23 10:34 G	25359300.73	25359300.94	25359301.15	0.0136	0.0041
Mercury	64719-05-18 20:39 G	25359326.26	25359326.36	25359326.46	0.0136	0.0099
Mercury	64719-08-15 00:15 G	25359414.40	25359414.51	25359414.63	0.0137	0.0079
Mercury	64719-11-11 04:05 G	25359502.54	25359502.67	25359502.80	0.0137	0.0058
Venus	64719-12-05 17:46 G	25359527.03	25359527.24	25359527.46	0.0137	0.0008
Mercury	64720-02-07 07:41 G	25359590.69	25359590.82	25359590.96	0.0137	0.0038
Mercury	64720-05-05 11:31 G	25359678.84	25359678.98	25359679.12	0.0137	0.0018
Venus	64720-07-19 01:12 G	25359753.34	25359753.55	25359753.77	0.0137	0.0027
Mercury	64720-08-01 15:07 G	25359766.99	25359767.13	25359767.27	0.0137	0.0003
Mercury	64720-10-28 18:43 G	25359855.14	25359855.28	25359855.42	0.0137	0.0023
Mercury	64721-01-24 22:19 G	25359943.30	25359943.43	25359943.56	0.0137	0.0043
Venus	64721-03-02 08:39 G	25359979.67	25359979.86	25359980.06	0.0137	0.0061
Mercury	64721-04-23 01:55 G	25360031.46	25360031.58	25360031.71	0.0137	0.0063
Mercury	64721-07-20 05:31 G	25360119.62	25360119.73	25360119.84	0.0137	0.0082
Venus	64721-10-14 16:19 G	25360206.03	25360206.18	25360206.34	0.0137	0.0096
Mercury	64721-10-16 08:53 G	25360207.79	25360207.87	25360207.97	0.0137	0.0103
Mercury	64722-01-12 12:29 G	25360295.97	25360296.02	25360296.09	0.0137	0.0122
Venus	64722-05-29 00:00 G	25360432.44	25360432.50	25360432.58	0.0137	0.0130
Moon	64723-06-22 13:41 G	25360822.03	25360822.07	25360822.15	0.0138	0.0133
Earth	64723-06-22 16:34 G	25360822.11	25360822.19	25360822.31	0.0138	0.0126 *
Earth	64724-06-26 05:46 G	25361191.55	25361191.74	25361191.97	0.0138	0.0077
Moon	64724-06-26 08:39 G	25361191.65	25361191.86	25361192.09	0.0138	0.0071 *
Moon	64725-06-30 17:03 G	25361560.98	25361561.21	25361561.46	0.0139	0.0029
Earth	64725-06-30 20:24 G	25361561.10	25361561.35	25361561.60	0.0139	0.0027 *
Earth	64726-07-05 11:03 G	25361930.71	25361930.96	25361931.21	0.0139	0.0024
Moon	64726-07-05 14:24 G	25361930.85	25361931.10	25361931.36	0.0139	0.0022 *
Moon	64727-07-09 23:03 G	25362300.27	25362300.46	25362300.68	0.0139	0.0080
Earth	64727-07-10 02:24 G	25362300.40	25362300.60	25362300.82	0.0139	0.0075 *
Earth	64728-07-13 18:43 G	25362670.19	25362670.28	25362670.39	0.0140	0.0127
Moon	64728-07-13 22:19 G	25362670.31	25362670.43	25362670.58	0.0140	0.0119 *

Mars	64741-12-11 08:24 G	25367568.66	25367568.85	25367569.08	0.0143	0.0102
Venus	64758-05-13 18:29 G	25373566.19	25373566.27	25373566.38	0.0142	0.0127
Venus	64758-12-26 05:03 G	25373792.54	25373792.71	25373792.88	0.0142	0.0089
Venus	64759-08-09 15:07 G	25374018.94	25374019.13	25374019.34	0.0142	0.0052
Mercury	64759-12-07 20:53 G	25374139.29	25374139.37	25374139.48	0.0141	0.0116
Mercury	64760-03-05 03:36 G	25374227.52	25374227.65	25374227.80	0.0141	0.0089
Venus	64760-03-23 01:27 G	25374245.34	25374245.56	25374245.78	0.0141	0.0013
Mercury	64760-06-01 10:34 G	25374315.78	25374315.94	25374316.10	0.0141	0.0061
Mercury	64760-08-28 17:03 G	25374404.04	25374404.21	25374404.39	0.0141	0.0033
Venus	64760-11-04 11:31 G	25374471.76	25374471.98	25374472.19	0.0141	0.0024
Mercury	64760-11-25 00:00 G	25374492.32	25374492.50	25374492.68	0.0141	0.0005
Mercury	64761-02-21 06:43 G	25374580.60	25374580.78	25374580.96	0.0141	0.0024
Mercury	64761-05-20 13:27 G	25374668.90	25374669.06	25374669.23	0.0141	0.0052
Venus	64761-06-18 21:07 G	25374698.19	25374698.38	25374698.58	0.0141	0.0061
Mercury	64761-08-16 20:10 G	25374757.21	25374757.34	25374757.50	0.0141	0.0081
Mercury	64761-11-13 03:22 G	25374845.53	25374845.64	25374845.75	0.0141	0.0109
Venus	64762-01-31 06:58 G	25374924.63	25374924.79	25374924.94	0.0141	0.0098
Mercury	64762-02-09 10:05 G	25374933.90	25374933.92	25374933.96	0.0141	0.0138
Venus	64762-09-14 16:19 G	25375151.13	25375151.18	25375151.25	0.0141	0.0135
Moon	64763-12-26 11:17 G	25375618.83	25375618.97	25375619.14	0.0140	0.0110
Earth	64763-12-26 15:07 G	25375618.99	25375619.13	25375619.29	0.0140	0.0113 *
Earth	64764-12-30 09:07 G	25375988.66	25375988.88	25375989.12	0.0140	0.0061
Moon	64764-12-30 12:29 G	25375988.81	25375989.02	25375989.26	0.0140	0.0067 *
Moon	64766-01-03 22:48 G	25376358.20	25376358.45	25376358.71	0.0139	0.0003
Earth	64766-01-04 02:24 G	25376358.35	25376358.60	25376358.86	0.0139	0.0009 *
Earth	64767-01-08 18:43 G	25376728.04	25376728.28	25376728.53	0.0139	0.0043
Moon	64767-01-08 22:19 G	25376728.20	25376728.43	25376728.69	0.0139	0.0035 *
Moon	64768-01-13 06:58 G	25377097.62	25377097.79	25377097.98	0.0139	0.0098
Earth	64768-01-13 10:19 G	25377097.76	25377097.93	25377098.13	0.0139	0.0093 *
Venus	64801-09-25 03:51 G	25389406.59	25389406.66	25389406.77	0.0136	0.0123

Venus	64802-05-09 11:17 G	25389632.81	25389632.97	25389633.14	0.0136	0.0090
Mercury	64802-12-13 19:41 G	25389851.32	25389851.32	25389851.35	0.0136	0.0136
Venus	64802-12-21 18:15 G	25389859.07	25389859.26	25389859.47	0.0136	0.0056
Mercury	64803-03-11 23:46 G	25389939.42	25389939.49	25389939.57	0.0136	0.0115
Mercury	64803-06-08 03:22 G	25390027.55	25390027.64	25390027.75	0.0137	0.0095
Venus	64803-08-05 01:41 G	25390085.35	25390085.57	25390085.78	0.0137	0.0023
Mercury	64803-09-04 07:12 G	25390115.69	25390115.80	25390115.92	0.0137	0.0074
Mercury	64803-12-01 10:48 G	25390203.83	25390203.95	25390204.09	0.0137	0.0054
Mercury	64804-02-27 14:39 G	25390291.98	25390292.11	25390292.25	0.0137	0.0033
Venus	64804-03-18 09:07 G	25390311.66	25390311.88	25390312.10	0.0137	0.0011
Mercury	64804-05-25 18:15 G	25390380.13	25390380.26	25390380.40	0.0137	0.0014
Mercury	64804-08-21 22:05 G	25390468.28	25390468.42	25390468.56	0.0137	0.0007
Venus	64804-10-30 16:19 G	25390537.98	25390538.18	25390538.39	0.0137	0.0046
Mercury	64804-11-18 01:41 G	25390556.43	25390556.57	25390556.71	0.0137	0.0027
Mercury	64805-02-14 05:17 G	25390644.59	25390644.72	25390644.85	0.0137	0.0047
Mercury	64805-05-13 08:39 G	25390732.75	25390732.86	25390732.99	0.0137	0.0068
Venus	64805-06-13 23:46 G	25390764.32	25390764.49	25390764.68	0.0137	0.0080
Mercury	64805-08-09 12:15 G	25390820.91	25390821.01	25390821.13	0.0137	0.0087
Mercury	64805-11-05 16:05 G	25390909.08	25390909.17	25390909.25	0.0137	0.0107
Venus	64806-01-26 07:12 G	25390990.70	25390990.80	25390990.94	0.0137	0.0115
Mercury	64806-02-01 19:27 G	25390997.26	25390997.31	25390997.37	0.0137	0.0126
Moon	64807-06-22 23:17 G	25391503.35	25391503.47	25391503.62	0.0138	0.0115
Earth	64807-06-23 01:12 G	25391503.45	25391503.55	25391503.68	0.0138	0.0122 *
Earth	64808-06-26 14:24 G	25391872.90	25391873.10	25391873.33	0.0138	0.0073
Moon	64808-06-26 17:03 G	25391873.01	25391873.21	25391873.44	0.0138	0.0078 *
Moon	64809-07-01 02:24 G	25392242.35	25392242.60	25392242.84	0.0139	0.0020
Earth	64809-07-01 04:48 G	25392242.45	25392242.70	25392242.95	0.0139	0.0023 *
Earth	64810-07-05 19:27 G	25392612.07	25392612.31	25392612.57	0.0139	0.0028
Moon	64810-07-05 22:34 G	25392612.18	25392612.44	25392612.69	0.0139	0.0029 *
Moon	64811-07-10 07:41 G	25392981.63	25392981.82	25392982.05	0.0139	0.0075

Earth	64811-07-10 11:03 G	25392981.76	25392981.96	25392982.18	0.0139	0.0079	*
Earth	64812-07-14 03:22 G	25393351.57	25393351.64	25393351.74	0.0140	0.0131	
Moon	64812-07-14 06:15 G	25393351.74	25393351.76	25393351.83	0.0140	0.0138	*
Mars	64826-08-06 09:36 G	25398487.66	25398487.90	25398488.14	0.0143	0.0085	
Venus	64842-08-25 11:17 G	25404350.84	25404350.97	25404351.12	0.0142	0.0107	
Venus	64843-04-08 21:36 G	25404577.22	25404577.40	25404577.60	0.0142	0.0069	
Mercury	64843-09-30 21:07 G	25404752.35	25404752.38	25404752.43	0.0142	0.0138	
Venus	64843-11-21 07:55 G	25404803.62	25404803.83	25404804.05	0.0141	0.0031	
Mercury	64843-12-28 03:51 G	25404840.56	25404840.66	25404840.78	0.0141	0.0110	
Mercury	64844-03-25 10:19 G	25404928.80	25404928.93	25404929.09	0.0141	0.0083	
Mercury	64844-06-21 17:17 G	25405017.06	25405017.22	25405017.38	0.0141	0.0054	
Venus	64844-07-04 18:00 G	25405030.03	25405030.25	25405030.47	0.0141	0.0007	
Mercury	64844-09-18 00:00 G	25405105.33	25405105.50	25405105.67	0.0141	0.0026	
Mercury	64844-12-15 06:43 G	25405193.60	25405193.78	25405193.96	0.0141	0.0002	
Venus	64845-02-16 03:36 G	25405256.45	25405256.65	25405256.87	0.0141	0.0045	
Mercury	64845-03-13 13:27 G	25405281.89	25405282.06	25405282.24	0.0141	0.0030	
Mercury	64845-06-09 20:24 G	25405370.18	25405370.35	25405370.51	0.0141	0.0058	
Mercury	64845-09-06 02:53 G	25405458.49	25405458.62	25405458.77	0.0141	0.0087	
Venus	64845-09-30 13:41 G	25405482.90	25405483.07	25405483.25	0.0141	0.0081	
Mercury	64845-12-03 10:05 G	25405546.82	25405546.92	25405547.02	0.0141	0.0115	
Venus	64846-05-14 23:03 G	25405709.35	25405709.46	25405709.59	0.0141	0.0118	
Moon	64847-12-26 20:24 G	25406300.20	25406300.35	25406300.51	0.0140	0.0110	
Earth	64847-12-26 23:31 G	25406300.33	25406300.48	25406300.64	0.0140	0.0109	*
Earth	64848-12-30 17:31 G	25406670.00	25406670.23	25406670.46	0.0140	0.0057	
Moon	64848-12-30 20:53 G	25406670.14	25406670.37	25406670.62	0.0140	0.0051	*
Moon	64850-01-04 07:12 G	25407039.55	25407039.80	25407040.05	0.0139	0.0013	
Earth	64850-01-04 10:48 G	25407039.70	25407039.95	25407040.21	0.0139	0.0005	*
Earth	64851-01-09 03:07 G	25407409.39	25407409.63	25407409.88	0.0139	0.0046	
Moon	64851-01-09 06:29 G	25407409.54	25407409.77	25407410.02	0.0139	0.0053	*
Moon	64852-01-13 15:07 G	25407778.95	25407779.13	25407779.33	0.0139	0.0091	

Earth	64852-01-13 18:43 G	25407779.11	25407779.28	25407779.48	0.0139	0.0097	*
Venus	64886-01-06 19:41 G	25420191.18	25420191.32	25420191.46	0.0136	0.0105	
Venus	64886-08-21 02:24 G	25420417.42	25420417.60	25420417.80	0.0136	0.0072	
Mercury	64887-01-03 02:39 G	25420552.58	25420552.61	25420552.66	0.0136	0.0131	
Mercury	64887-04-01 06:43 G	25420640.70	25420640.78	25420640.86	0.0137	0.0110	
Venus	64887-04-04 09:51 G	25420643.70	25420643.91	25420644.12	0.0137	0.0038	
Mercury	64887-06-28 10:19 G	25420728.83	25420728.93	25420729.04	0.0137	0.0090	
Mercury	64887-09-24 14:10 G	25420816.97	25420817.09	25420817.21	0.0137	0.0069	
Venus	64887-11-16 17:03 G	25420869.99	25420870.21	25420870.43	0.0137	0.0004	
Mercury	64887-12-21 18:00 G	25420905.12	25420905.25	25420905.38	0.0137	0.0049	
Mercury	64888-03-18 21:36 G	25420993.26	25420993.40	25420993.54	0.0137	0.0029	
Mercury	64888-06-15 01:12 G	25421081.41	25421081.55	25421081.69	0.0137	0.0009	
Venus	64888-06-30 00:15 G	25421096.30	25421096.51	25421096.73	0.0137	0.0030	
Mercury	64888-09-11 05:03 G	25421169.57	25421169.71	25421169.85	0.0137	0.0012	
Mercury	64888-12-08 08:39 G	25421257.72	25421257.86	25421257.99	0.0137	0.0032	
Venus	64889-02-11 07:41 G	25421322.63	25421322.82	25421323.02	0.0137	0.0064	
Mercury	64889-03-06 12:00 G	25421345.88	25421346.00	25421346.14	0.0137	0.0052	
Mercury	64889-06-02 15:51 G	25421434.04	25421434.16	25421434.28	0.0137	0.0072	
Mercury	64889-08-29 19:12 G	25421522.21	25421522.30	25421522.41	0.0137	0.0092	
Venus	64889-09-25 15:22 G	25421548.99	25421549.14	25421549.29	0.0137	0.0099	
Mercury	64889-11-25 22:48 G	25421610.38	25421610.45	25421610.54	0.0137	0.0111	
Mercury	64890-02-22 02:24 G	25421698.57	25421698.60	25421698.64	0.0137	0.0131	
Venus	64890-05-09 23:03 G	25421775.42	25421775.46	25421775.52	0.0138	0.0133	
Moon	64891-06-23 07:55 G	25422184.76	25422184.83	25422184.96	0.0138	0.0126	
Earth	64891-06-23 09:51 G	25422184.80	25422184.91	25422185.06	0.0138	0.0118	*
Earth	64892-06-26 23:17 G	25422554.26	25422554.47	25422554.70	0.0138	0.0069	
Moon	64892-06-27 00:58 G	25422554.32	25422554.54	25422554.78	0.0138	0.0062	*
Moon	64893-07-01 11:31 G	25422923.74	25422923.98	25422924.22	0.0139	0.0022	
Earth	64893-07-01 13:27 G	25422923.82	25422924.06	25422924.32	0.0139	0.0020	*
Earth	64894-07-06 04:19 G	25423293.44	25423293.68	25423293.94	0.0139	0.0032	

Moon	64894-07-06 06:58 G	25423293.54	25423293.79	25423294.05	0.0139	0.0031	*
Moon	64895-07-10 17:46 G	25423663.05	25423663.24	25423663.43	0.0139	0.0087	
Earth	64895-07-10 19:41 G	25423663.14	25423663.32	25423663.55	0.0139	0.0084	*
Earth	64896-07-14 12:15 G	25424032.97	25424033.01	25424033.10	0.0140	0.0135	
Moon	64896-07-14 15:51 G	25424033.06	25424033.16	25424033.28	0.0140	0.0127	*
Venus	64926-04-25 18:00 G	25434909.16	25434909.25	25434909.37	0.0142	0.0124	
Venus	64926-12-08 04:34 G	25435135.52	25435135.69	25435135.86	0.0142	0.0086	
Venus	64927-07-22 14:39 G	25435361.91	25435362.11	25435362.32	0.0142	0.0048	
Mercury	64927-10-22 04:05 G	25435453.62	25435453.67	25435453.75	0.0142	0.0131	
Mercury	64928-01-18 11:03 G	25435541.84	25435541.96	25435542.08	0.0141	0.0103	
Venus	64928-03-05 00:58 G	25435588.32	25435588.54	25435588.75	0.0141	0.0011	
Mercury	64928-04-15 17:31 G	25435630.08	25435630.23	25435630.38	0.0141	0.0075	
Mercury	64928-07-13 00:15 G	25435718.34	25435718.51	25435718.68	0.0141	0.0047	
Mercury	64928-10-09 06:58 G	25435806.61	25435806.79	25435806.96	0.0141	0.0020	
Venus	64928-10-17 10:48 G	25435814.74	25435814.95	25435815.17	0.0141	0.0027	
Mercury	64929-01-05 13:41 G	25435894.89	25435895.07	25435895.25	0.0141	0.0009	
Mercury	64929-04-03 20:10 G	25435983.18	25435983.34	25435983.52	0.0141	0.0037	
Venus	64929-05-31 20:39 G	25436041.17	25436041.36	25436041.55	0.0141	0.0064	
Mercury	64929-07-01 03:07 G	25436071.48	25436071.63	25436071.79	0.0141	0.0065	
Mercury	64929-09-27 10:05 G	25436159.79	25436159.92	25436160.05	0.0141	0.0093	
Mercury	64929-12-24 16:48 G	25436248.12	25436248.20	25436248.30	0.0141	0.0122	
Venus	64930-01-13 06:15 G	25436267.61	25436267.76	25436267.91	0.0141	0.0101	
Venus	64930-08-27 15:22 G	25436494.11	25436494.14	25436494.19	0.0141	0.0138	
Moon	64931-12-28 04:48 G	25436981.55	25436981.70	25436981.88	0.0140	0.0105	
Earth	64931-12-28 07:55 G	25436981.68	25436981.83	25436982.01	0.0140	0.0106	*
Earth	64933-01-01 01:55 G	25437351.36	25437351.58	25437351.83	0.0140	0.0054	
Moon	64933-01-01 05:17 G	25437351.49	25437351.72	25437351.96	0.0140	0.0058	*
Moon	64934-01-05 16:05 G	25437720.92	25437721.17	25437721.42	0.0139	0.0005	
Earth	64934-01-05 19:27 G	25437721.06	25437721.31	25437721.57	0.0139	0.0002	*
Earth	64935-01-10 11:31 G	25438090.76	25438090.98	25438091.23	0.0139	0.0050	

Moon	64935-01-10 15:36 G	25438090.90	25438091.15	25438091.39	0.0139	0.0042 *
Moon	64936-01-15 00:00 G	25438460.35	25438460.50	25438460.68	0.0139	0.0106
Earth	64936-01-15 03:22 G	25438460.48	25438460.64	25438460.83	0.0139	0.0100 *
Mars	64951-08-01 09:22 G	25444137.57	25444137.89	25444138.21	0.0135	0.0012
Venus	64969-09-07 03:22 G	25450749.55	25450749.64	25450749.75	0.0136	0.0120
Venus	64970-04-21 10:48 G	25450975.78	25450975.95	25450976.11	0.0136	0.0087
Venus	64970-12-03 17:31 G	25451202.04	25451202.23	25451202.44	0.0136	0.0054
Mercury	64971-01-24 09:51 G	25451253.86	25451253.91	25451253.96	0.0137	0.0126
Mercury	64971-04-22 13:27 G	25451341.98	25451342.06	25451342.15	0.0137	0.0106
Venus	64971-07-18 00:43 G	25451428.32	25451428.53	25451428.75	0.0137	0.0020
Mercury	64971-07-19 17:17 G	25451430.11	25451430.22	25451430.33	0.0137	0.0085
Mercury	64971-10-15 20:53 G	25451518.25	25451518.37	25451518.50	0.0137	0.0065
Mercury	64972-01-12 00:43 G	25451606.40	25451606.53	25451606.67	0.0137	0.0045
Venus	64972-02-29 08:10 G	25451654.62	25451654.84	25451655.06	0.0137	0.0014
Mercury	64972-04-09 04:34 G	25451694.55	25451694.69	25451694.83	0.0137	0.0024
Mercury	64972-07-06 08:10 G	25451782.70	25451782.84	25451782.98	0.0137	0.0004
Mercury	64972-10-02 11:46 G	25451870.85	25451870.99	25451871.13	0.0137	0.0016
Venus	64972-10-12 15:22 G	25451880.95	25451881.14	25451881.35	0.0137	0.0049
Mercury	64972-12-29 15:22 G	25451959.01	25451959.14	25451959.28	0.0137	0.0036
Mercury	64973-03-27 18:58 G	25452047.17	25452047.29	25452047.42	0.0137	0.0056
Venus	64973-05-26 22:48 G	25452107.29	25452107.45	25452107.63	0.0137	0.0083
Mercury	64973-06-23 22:34 G	25452135.33	25452135.44	25452135.56	0.0137	0.0076
Mercury	64973-09-20 02:10 G	25452223.50	25452223.59	25452223.69	0.0137	0.0096
Mercury	64973-12-17 05:46 G	25452311.67	25452311.74	25452311.82	0.0137	0.0116
Venus	64974-01-08 06:15 G	25452333.67	25452333.76	25452333.89	0.0137	0.0118
Mercury	64974-03-15 09:07 G	25452399.87	25452399.88	25452399.91	0.0138	0.0136
Moon	64975-06-24 17:46 G	25452866.11	25452866.24	25452866.42	0.0138	0.0108
Earth	64975-06-24 18:43 G	25452866.15	25452866.28	25452866.43	0.0138	0.0114 *
Earth	64976-06-28 08:10 G	25453235.62	25453235.84	25453236.07	0.0138	0.0065
Moon	64976-06-28 09:36 G	25453235.68	25453235.90	25453236.13	0.0138	0.0071 *

Moon	64977-07-02 21:07 G	25453605.14	25453605.38	25453605.63	0.0139	0.0011
Earth	64977-07-02 22:34 G	25453605.19	25453605.44	25453605.69	0.0139	0.0016 *
Earth	64978-07-07 13:12 G	25453974.81	25453975.05	25453975.30	0.0139	0.0035
Moon	64978-07-07 15:07 G	25453974.88	25453975.13	25453975.39	0.0139	0.0035 *
Moon	64979-07-12 02:24 G	25454344.42	25454344.60	25454344.82	0.0139	0.0084
Earth	64979-07-12 05:03 G	25454344.52	25454344.71	25454344.92	0.0139	0.0086 *
Earth	64980-07-15 21:22 G	25454714.37	25454714.39	25454714.45	0.0140	0.0138
Mars	64993-12-24 08:10 G	25459623.58	25459623.84	25459624.13	0.0143	0.0052

66TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 66th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	65009-12-25 00:43 G	25465467.53	25465467.53	25465467.56	0.0142	0.0142		
Venus	65010-08-08 11:03 G	25465693.83	25465693.96	25465694.12	0.0142	0.0104		
Venus	65011-03-22 21:36 G	25465920.21	25465920.40	25465920.60	0.0142	0.0066		
Venus	65011-11-04 07:55 G	25466146.62	25466146.83	25466147.04	0.0142	0.0028		
Mercury	65011-11-12 11:31 G	25466154.89	25466154.98	25466155.06	0.0141	0.0123		
Mercury	65012-02-08 17:46 G	25466243.12	25466243.24	25466243.38	0.0141	0.0096		
Mercury	65012-05-07 00:29 G	25466331.37	25466331.52	25466331.68	0.0141	0.0068		
Venus	65012-06-17 17:46 G	25466373.03	25466373.24	25466373.46	0.0141	0.0010		
Mercury	65012-08-03 07:12 G	25466419.63	25466419.80	25466419.97	0.0141	0.0040		
Mercury	65012-10-30 13:55 G	25466507.90	25466508.08	25466508.26	0.0141	0.0012		
Mercury	65013-01-26 20:39 G	25466596.18	25466596.36	25466596.54	0.0141	0.0016		

Venus	65013-01-30 03:36 G	25466599.45	25466599.65	25466599.86	0.0141	0.0047
Mercury	65013-04-25 03:07 G	25466684.47	25466684.63	25466684.81	0.0141	0.0044
Mercury	65013-07-22 10:05 G	25466772.77	25466772.92	25466773.08	0.0141	0.0072
Venus	65013-09-13 12:58 G	25466825.89	25466826.04	25466826.23	0.0141	0.0085
Mercury	65013-10-18 17:03 G	25466861.08	25466861.21	25466861.33	0.0141	0.0100
Mercury	65014-01-14 23:31 G	25466949.43	25466949.48	25466949.57	0.0141	0.0129
Venus	65014-04-27 22:48 G	25467052.35	25467052.45	25467052.56	0.0141	0.0121
Moon	65015-12-29 14:53 G	25467662.97	25467663.12	25467663.31	0.0140	0.0102
Earth	65015-12-29 17:17 G	25467663.06	25467663.22	25467663.41	0.0140	0.0102 *
Earth	65017-01-02 11:03 G	25468032.73	25468032.96	25468033.21	0.0140	0.0050
Moon	65017-01-02 13:55 G	25468032.85	25468033.08	25468033.34	0.0140	0.0045 *
Moon	65018-01-07 01:41 G	25468402.32	25468402.57	25468402.82	0.0139	0.0005
Earth	65018-01-07 04:34 G	25468402.44	25468402.69	25468402.95	0.0139	0.0003 *
Earth	65019-01-11 20:53 G	25468772.14	25468772.37	25468772.61	0.0139	0.0054
Moon	65019-01-12 00:00 G	25468772.28	25468772.50	25468772.75	0.0139	0.0061 *
Moon	65020-01-16 09:22 G	25469141.71	25469141.89	25469142.07	0.0139	0.0097
Earth	65020-01-16 12:29 G	25469141.87	25469142.02	25469142.21	0.0139	0.0104 *
Jupiter	65049-09-08 01:41 G	25479969.11	25479969.57	25479970.06	0.0135	0.0036
Venus	65053-05-08 11:46 G	25481307.98	25481307.99	25481308.02	0.0136	0.0135
Venus	65053-12-20 18:43 G	25481534.14	25481534.28	25481534.43	0.0136	0.0102
Venus	65054-08-04 01:27 G	25481760.39	25481760.56	25481760.76	0.0136	0.0070
Mercury	65055-02-14 16:19 G	25481955.13	25481955.18	25481955.26	0.0137	0.0122
Venus	65055-03-18 08:53 G	25481986.67	25481986.87	25481987.09	0.0137	0.0035
Mercury	65055-05-13 20:24 G	25482043.26	25482043.35	25482043.45	0.0137	0.0101
Mercury	65055-08-10 00:00 G	25482131.40	25482131.50	25482131.62	0.0137	0.0081
Venus	65055-10-30 16:19 G	25482212.96	25482213.18	25482213.39	0.0137	0.0003
Mercury	65055-11-06 03:51 G	25482219.54	25482219.66	25482219.79	0.0137	0.0060
Mercury	65056-02-02 07:41 G	25482307.69	25482307.82	25482307.96	0.0137	0.0040
Mercury	65056-04-30 11:17 G	25482395.84	25482395.97	25482396.12	0.0137	0.0020
Venus	65056-06-12 23:17 G	25482439.27	25482439.47	25482439.69	0.0137	0.0033

Mercury	65056-07-27 15:07 G	25482483.99	25482484.13	25482484.27	0.0137	0.0001
Mercury	65056-10-23 18:43 G	25482572.14	25482572.28	25482572.42	0.0137	0.0021
Mercury	65057-01-19 22:19 G	25482660.30	25482660.43	25482660.57	0.0137	0.0041
Venus	65057-01-25 06:29 G	25482665.60	25482665.77	25482665.98	0.0137	0.0068
Mercury	65057-04-18 01:55 G	25482748.46	25482748.58	25482748.71	0.0137	0.0061
Mercury	65057-07-15 05:46 G	25482836.62	25482836.74	25482836.85	0.0137	0.0081
Venus	65057-09-08 14:10 G	25482891.96	25482892.09	25482892.25	0.0137	0.0101
Mercury	65057-10-11 09:07 G	25482924.79	25482924.88	25482924.98	0.0137	0.0101
Mercury	65058-01-07 12:29 G	25483012.97	25483013.02	25483013.10	0.0137	0.0121
Venus	65058-04-22 22:05 G	25483118.40	25483118.42	25483118.46	0.0138	0.0136
Earth	65059-06-26 03:36 G	25483547.51	25483547.65	25483547.81	0.0138	0.0110
Moon	65059-06-26 03:22 G	25483547.52	25483547.64	25483547.77	0.0138	0.0117 *
Earth	65060-06-29 17:03 G	25483916.99	25483917.21	25483917.45	0.0138	0.0061
Moon	65060-06-29 17:31 G	25483916.99	25483917.23	25483917.47	0.0138	0.0054 *
Moon	65061-07-04 06:29 G	25484286.53	25484286.77	25484287.02	0.0139	0.0015
Earth	65061-07-04 07:27 G	25484286.56	25484286.81	25484287.07	0.0139	0.0011 *
Earth	65062-07-08 22:34 G	25484656.20	25484656.44	25484656.68	0.0139	0.0039
Moon	65062-07-08 23:31 G	25484656.24	25484656.48	25484656.74	0.0139	0.0041 *
Moon	65063-07-13 12:58 G	25485025.86	25485026.04	25485026.22	0.0139	0.0093
Earth	65063-07-13 13:55 G	25485025.91	25485026.08	25485026.29	0.0139	0.0091 *
Moon	65064-07-17 08:53 G	25485395.82	25485395.87	25485395.95	0.0140	0.0135
Mars	65078-08-20 10:48 G	25490542.86	25490542.95	25490543.06	0.0143	0.0135
Venus	65094-04-07 18:15 G	25496252.16	25496252.26	25496252.38	0.0142	0.0121
Venus	65094-11-20 04:19 G	25496478.52	25496478.68	25496478.87	0.0142	0.0084
Venus	65095-07-04 14:39 G	25496704.91	25496705.11	25496705.32	0.0142	0.0046
Mercury	65095-12-02 18:15 G	25496856.17	25496856.26	25496856.37	0.0141	0.0116
Venus	65096-02-16 00:43 G	25496931.32	25496931.53	25496931.75	0.0141	0.0008
Mercury	65096-02-29 00:43 G	25496944.41	25496944.53	25496944.68	0.0141	0.0089
Mercury	65096-05-27 07:41 G	25497032.66	25497032.82	25497032.98	0.0141	0.0061
Mercury	65096-08-23 14:10 G	25497120.92	25497121.09	25497121.26	0.0141	0.0033

Venus	65096-09-29 10:48 G	25497157.74	25497157.95	25497158.17	0.0141	0.0030
Mercury	65096-11-19 20:53 G	25497209.19	25497209.37	25497209.55	0.0141	0.0005
Mercury	65097-02-16 03:36 G	25497297.47	25497297.65	25497297.83	0.0141	0.0023
Venus	65097-05-13 20:24 G	25497384.17	25497384.35	25497384.55	0.0141	0.0068
Mercury	65097-05-15 10:19 G	25497385.77	25497385.93	25497386.10	0.0141	0.0051
Mercury	65097-08-11 17:03 G	25497474.07	25497474.21	25497474.36	0.0141	0.0079
Mercury	65097-11-07 23:46 G	25497562.38	25497562.49	25497562.61	0.0141	0.0108
Venus	65097-12-26 06:00 G	25497610.61	25497610.75	25497610.90	0.0141	0.0104
Mercury	65098-02-04 06:43 G	25497650.74	25497650.78	25497650.83	0.0141	0.0136
Venus	65098-08-09 15:22 G	25497837.14	25497837.14	25497837.15	0.0141	0.0141
Moon	65099-12-30 00:00 G	25498344.35	25498344.50	25498344.70	0.0140	0.0098
Earth	65099-12-30 02:39 G	25498344.43	25498344.61	25498344.80	0.0140	0.0097 *
Earth	65101-01-03 20:24 G	25498714.12	25498714.35	25498714.60	0.0140	0.0045
Moon	65101-01-03 22:34 G	25498714.21	25498714.44	25498714.70	0.0140	0.0048 *
Moon	65102-01-08 11:17 G	25499083.73	25499083.97	25499084.22	0.0139	0.0014
Earth	65102-01-08 13:55 G	25499083.83	25499084.08	25499084.34	0.0139	0.0008 *
Earth	65103-01-13 06:29 G	25499453.54	25499453.77	25499454.01	0.0139	0.0058
Moon	65103-01-13 09:22 G	25499453.66	25499453.89	25499454.15	0.0139	0.0050 *
Moon	65104-01-17 19:12 G	25499823.18	25499823.30	25499823.46	0.0139	0.0115
Earth	65104-01-17 22:19 G	25499823.28	25499823.43	25499823.60	0.0139	0.0108 *
Mars	65118-12-19 14:53 G	25505272.97	25505273.12	25505273.33	0.0135	0.0111
Venus	65137-08-21 02:24 G	25512092.50	25512092.60	25512092.71	0.0136	0.0118
Venus	65138-04-04 09:22 G	25512318.73	25512318.89	25512319.07	0.0136	0.0085
Venus	65138-11-16 16:34 G	25512544.99	25512545.19	25512545.39	0.0136	0.0052
Mercury	65139-03-07 23:31 G	25512656.41	25512656.48	25512656.55	0.0137	0.0117
Mercury	65139-06-04 03:07 G	25512744.54	25512744.63	25512744.74	0.0137	0.0097
Venus	65139-06-30 23:46 G	25512771.27	25512771.49	25512771.70	0.0137	0.0018
Mercury	65139-08-31 06:58 G	25512832.68	25512832.79	25512832.91	0.0137	0.0076
Mercury	65139-11-27 10:48 G	25512920.82	25512920.95	25512921.08	0.0137	0.0056
Venus	65140-02-12 06:58 G	25512997.57	25512997.79	25512998.01	0.0137	0.0016

Mercury	65140-02-23 14:24 G	25513008.97	25513009.10	25513009.24	0.0137	0.0036
Mercury	65140-05-21 18:15 G	25513097.12	25513097.26	25513097.40	0.0137	0.0015
Mercury	65140-08-17 21:51 G	25513185.27	25513185.41	25513185.55	0.0137	0.0005
Venus	65140-09-25 14:24 G	25513223.90	25513224.10	25513224.30	0.0137	0.0050
Mercury	65140-11-14 01:41 G	25513273.43	25513273.57	25513273.70	0.0137	0.0026
Mercury	65141-02-10 05:17 G	25513361.59	25513361.72	25513361.85	0.0137	0.0045
Mercury	65141-05-09 08:39 G	25513449.75	25513449.86	25513449.99	0.0137	0.0066
Venus	65141-05-09 21:36 G	25513450.24	25513450.40	25513450.59	0.0137	0.0085
Mercury	65141-08-05 12:15 G	25513537.91	25513538.01	25513538.13	0.0137	0.0085
Mercury	65141-11-01 16:05 G	25513626.08	25513626.17	25513626.26	0.0137	0.0105
Venus	65141-12-22 05:17 G	25513676.63	25513676.72	25513676.84	0.0137	0.0119
Mercury	65142-01-28 19:27 G	25513714.26	25513714.31	25513714.38	0.0137	0.0125
Earth	65143-06-27 12:15 G	25514228.85	25514229.01	25514229.18	0.0138	0.0105
Moon	65143-06-27 12:43 G	25514228.88	25514229.03	25514229.22	0.0138	0.0099 *
Moon	65144-07-01 01:41 G	25514598.35	25514598.57	25514598.82	0.0138	0.0063
Earth	65144-07-01 01:41 G	25514598.35	25514598.57	25514598.81	0.0138	0.0056 *
Earth	65145-07-05 16:19 G	25514967.92	25514968.18	25514968.43	0.0139	0.0007
Moon	65145-07-05 16:19 G	25514967.93	25514968.18	25514968.42	0.0139	0.0003 *
Earth	65146-07-10 06:58 G	25515337.56	25515337.79	25515338.04	0.0139	0.0044
Moon	65146-07-10 07:41 G	25515337.57	25515337.82	25515338.08	0.0139	0.0042 *
Moon	65147-07-14 21:51 G	25515707.24	25515707.41	25515707.60	0.0139	0.0093
Earth	65147-07-14 23:03 G	25515707.28	25515707.46	25515707.65	0.0139	0.0094 *
Venus	65177-12-07 00:58 G	25526810.51	25526810.54	25526810.58	0.0142	0.0139
Venus	65178-07-21 11:31 G	25527036.83	25527036.98	25527037.13	0.0142	0.0101
Venus	65179-03-04 21:22 G	25527263.21	25527263.39	25527263.60	0.0142	0.0064
Mercury	65179-09-26 18:43 G	25527469.24	25527469.28	25527469.34	0.0142	0.0136
Venus	65179-10-17 07:41 G	25527489.61	25527489.82	25527490.04	0.0142	0.0026
Mercury	65179-12-24 01:12 G	25527557.45	25527557.55	25527557.67	0.0141	0.0109
Mercury	65180-03-21 07:41 G	25527645.69	25527645.82	25527645.97	0.0141	0.0082
Venus	65180-05-30 17:46 G	25527716.03	25527716.24	25527716.46	0.0141	0.0012

Mercury	65180-06-17 14:24 G	25527733.94	25527734.10	25527734.27	0.0141	0.0054
Mercury	65180-09-13 21:07 G	25527822.21	25527822.38	25527822.56	0.0141	0.0026
Mercury	65180-12-11 03:51 G	25527910.48	25527910.66	25527910.84	0.0141	0.0002
Venus	65181-01-12 03:22 G	25527942.45	25527942.64	25527942.85	0.0141	0.0050
Mercury	65181-03-09 10:34 G	25527998.76	25527998.94	25527999.11	0.0141	0.0030
Mercury	65181-06-05 17:17 G	25528087.06	25528087.22	25528087.38	0.0141	0.0058
Venus	65181-08-26 12:58 G	25528168.88	25528169.04	25528169.22	0.0141	0.0087
Mercury	65181-09-02 00:00 G	25528175.36	25528175.50	25528175.64	0.0141	0.0086
Mercury	65181-11-29 06:29 G	25528263.68	25528263.77	25528263.89	0.0141	0.0115
Venus	65182-04-09 22:19 G	25528395.35	25528395.43	25528395.55	0.0141	0.0124
Moon	65183-12-31 11:03 G	25529025.77	25529025.96	25529026.15	0.0140	0.0089
Earth	65183-12-31 12:00 G	25529025.81	25529026.00	25529026.20	0.0140	0.0091 *
Earth	65185-01-04 05:46 G	25529395.51	25529395.74	25529396.00	0.0140	0.0040
Moon	65185-01-04 07:55 G	25529395.59	25529395.83	25529396.09	0.0140	0.0036 *
Moon	65186-01-08 21:36 G	25529765.15	25529765.40	25529765.65	0.0139	0.0006
Earth	65186-01-08 23:31 G	25529765.23	25529765.48	25529765.74	0.0139	0.0012 *
Earth	65187-01-13 15:51 G	25530134.95	25530135.16	25530135.40	0.0139	0.0063
Moon	65187-01-13 18:29 G	25530135.06	25530135.27	25530135.51	0.0139	0.0070 *
Moon	65188-01-18 04:48 G	25530504.56	25530504.70	25530504.88	0.0139	0.0106
Earth	65188-01-18 07:41 G	25530504.69	25530504.82	25530504.98	0.0139	0.0113 *
Mars	65203-08-14 17:17 G	25536191.95	25536192.22	25536192.53	0.0135	0.0060
Venus	65221-04-20 10:19 G	25542650.92	25542650.93	25542650.99	0.0136	0.0134
Venus	65221-12-02 17:17 G	25542877.09	25542877.22	25542877.38	0.0136	0.0101
Venus	65222-07-17 00:29 G	25543103.33	25543103.52	25543103.71	0.0136	0.0068
Mercury	65222-12-30 02:24 G	25543269.58	25543269.60	25543269.64	0.0136	0.0133
Venus	65223-02-28 07:41 G	25543329.61	25543329.82	25543330.03	0.0137	0.0034
Mercury	65223-03-28 06:00 G	25543357.69	25543357.75	25543357.84	0.0137	0.0113
Mercury	65223-06-24 10:05 G	25543445.82	25543445.92	25543446.03	0.0137	0.0092
Mercury	65223-09-20 13:41 G	25543533.96	25543534.07	25543534.20	0.0137	0.0072
Venus	65223-10-12 14:53 G	25543555.90	25543556.12	25543556.34	0.0137	0.0001

Mercury	65223-12-17 17:31 G	25543622.10	25543622.23	25543622.37	0.0137	0.0051
Mercury	65224-03-14 21:22 G	25543710.25	25543710.39	25543710.53	0.0137	0.0031
Venus	65224-05-25 22:05 G	25543782.21	25543782.42	25543782.63	0.0137	0.0034
Mercury	65224-06-11 00:58 G	25543798.40	25543798.54	25543798.69	0.0137	0.0011
Mercury	65224-09-07 04:48 G	25543886.56	25543886.70	25543886.84	0.0137	0.0010
Mercury	65224-12-04 08:24 G	25543974.72	25543974.85	25543974.99	0.0137	0.0030
Venus	65225-01-07 05:31 G	25544008.54	25544008.73	25544008.92	0.0137	0.0068
Mercury	65225-03-02 12:00 G	25544062.87	25544063.00	25544063.13	0.0137	0.0050
Mercury	65225-05-29 15:36 G	25544151.04	25544151.15	25544151.28	0.0137	0.0070
Venus	65225-08-21 13:12 G	25544234.91	25544235.05	25544235.19	0.0137	0.0103
Mercury	65225-08-25 19:12 G	25544239.20	25544239.30	25544239.41	0.0137	0.0090
Mercury	65225-11-21 22:48 G	25544327.38	25544327.45	25544327.54	0.0137	0.0110
Mercury	65226-02-18 02:24 G	25544415.56	25544415.60	25544415.65	0.0137	0.0129
Venus	65226-04-04 20:53 G	25544461.37	25544461.37	25544461.39	0.0137	0.0137
Earth	65227-06-27 21:07 G	25544910.21	25544910.38	25544910.56	0.0138	0.0100
Moon	65227-06-27 21:36 G	25544910.27	25544910.40	25544910.57	0.0138	0.0108 *
Moon	65228-07-01 09:22 G	25545279.66	25545279.89	25545280.15	0.0138	0.0045
Earth	65228-07-01 10:48 G	25545279.72	25545279.95	25545280.19	0.0138	0.0052 *
Earth	65229-07-06 01:12 G	25545649.29	25545649.55	25545649.80	0.0139	0.0003
Moon	65229-07-06 01:27 G	25545649.32	25545649.56	25545649.81	0.0139	0.0007 *
Moon	65230-07-10 15:51 G	25546018.93	25546019.16	25546019.42	0.0139	0.0051
Earth	65230-07-10 16:05 G	25546018.94	25546019.17	25546019.41	0.0139	0.0048 *
Earth	65231-07-15 07:27 G	25546388.65	25546388.81	25546389.01	0.0139	0.0100
Moon	65231-07-15 07:41 G	25546388.66	25546388.82	25546389.00	0.0139	0.0100 *
Mars	65246-01-07 08:53 G	25551678.57	25551678.87	25551679.17	0.0143	0.0002
Venus	65262-03-20 18:00 G	25557595.14	25557595.25	25557595.37	0.0142	0.0119
Venus	65262-11-02 04:19 G	25557821.51	25557821.68	25557821.86	0.0142	0.0081
Venus	65263-06-16 14:39 G	25558047.90	25558048.11	25558048.32	0.0142	0.0043
Mercury	65263-10-17 01:41 G	25558170.51	25558170.57	25558170.65	0.0142	0.0129
Mercury	65264-01-13 08:10 G	25558258.73	25558258.84	25558258.97	0.0141	0.0102

Venus	65264-01-29 00:29 G	25558274.31	25558274.52	25558274.74	0.0141	0.0006
Mercury	65264-04-10 14:39 G	25558346.97	25558347.11	25558347.27	0.0141	0.0075
Mercury	65264-07-07 21:22 G	25558435.23	25558435.39	25558435.56	0.0141	0.0047
Venus	65264-09-11 10:34 G	25558500.73	25558500.94	25558501.15	0.0141	0.0032
Mercury	65264-10-04 04:05 G	25558523.49	25558523.67	25558523.84	0.0141	0.0019
Mercury	65264-12-31 10:48 G	25558611.77	25558611.95	25558612.12	0.0141	0.0009
Mercury	65265-03-29 17:17 G	25558700.05	25558700.22	25558700.40	0.0141	0.0037
Venus	65265-04-25 20:10 G	25558727.16	25558727.34	25558727.54	0.0141	0.0070
Mercury	65265-06-26 00:00 G	25558788.35	25558788.50	25558788.67	0.0141	0.0065
Mercury	65265-09-22 06:58 G	25558876.66	25558876.79	25558876.92	0.0141	0.0093
Venus	65265-12-08 05:31 G	25558953.61	25558953.73	25558953.89	0.0141	0.0107
Mercury	65265-12-19 13:27 G	25558964.99	25558965.06	25558965.16	0.0141	0.0122
Moon	65266-12-27 01:55 G	25559337.52	25559337.58	25559337.69	0.0140	0.0133
Earth	65266-12-27 02:10 G	25559337.57	25559337.59	25559337.65	0.0140	0.0138 *
Moon	65267-12-31 19:55 G	25559707.16	25559707.33	25559707.54	0.0140	0.0088
Earth	65267-12-31 21:07 G	25559707.19	25559707.38	25559707.59	0.0140	0.0086 *
Earth	65269-01-04 15:22 G	25560076.90	25560077.14	25560077.39	0.0140	0.0035
Moon	65269-01-04 16:19 G	25560076.93	25560077.18	25560077.44	0.0140	0.0036 *
Moon	65270-01-09 07:12 G	25560446.56	25560446.80	25560447.05	0.0139	0.0023
Earth	65270-01-09 08:53 G	25560446.62	25560446.87	25560447.13	0.0139	0.0017 *
Earth	65271-01-14 01:12 G	25560816.34	25560816.55	25560816.79	0.0139	0.0068
Moon	65271-01-14 03:22 G	25560816.42	25560816.64	25560816.89	0.0139	0.0060 *
Moon	65272-01-18 15:22 G	25561186.04	25561186.14	25561186.25	0.0139	0.0124
Earth	65272-01-18 17:17 G	25561186.10	25561186.22	25561186.37	0.0139	0.0117 *
Venus	65305-08-03 00:43 G	25573435.44	25573435.53	25573435.66	0.0136	0.0117
Venus	65306-03-17 08:10 G	25573661.67	25573661.84	25573662.02	0.0136	0.0083
Venus	65306-10-29 15:07 G	25573887.93	25573888.13	25573888.34	0.0136	0.0050
Mercury	65307-01-20 09:07 G	25573970.84	25573970.88	25573970.93	0.0136	0.0129
Mercury	65307-04-18 13:12 G	25574058.96	25574059.05	25574059.13	0.0137	0.0108
Venus	65307-06-12 22:19 G	25574114.21	25574114.43	25574114.65	0.0137	0.0016

Mercury	65307-07-15 16:48 G	25574147.10	25574147.20	25574147.31	0.0137	0.0088
Mercury	65307-10-11 20:39 G	25574235.24	25574235.36	25574235.49	0.0137	0.0067
Mercury	65308-01-08 00:29 G	25574323.39	25574323.52	25574323.65	0.0137	0.0047
Venus	65308-01-25 05:31 G	25574340.52	25574340.73	25574340.95	0.0137	0.0018
Mercury	65308-04-05 04:05 G	25574411.54	25574411.67	25574411.81	0.0137	0.0027
Mercury	65308-07-02 07:55 G	25574499.69	25574499.83	25574499.97	0.0137	0.0006
Venus	65308-09-07 12:58 G	25574566.84	25574567.04	25574567.24	0.0137	0.0052
Mercury	65308-09-28 11:31 G	25574587.84	25574587.98	25574588.12	0.0137	0.0014
Mercury	65308-12-25 15:07 G	25574676.00	25574676.13	25574676.27	0.0137	0.0035
Mercury	65309-03-23 18:58 G	25574764.16	25574764.29	25574764.42	0.0137	0.0054
Venus	65309-04-21 20:39 G	25574793.19	25574793.36	25574793.53	0.0137	0.0086
Mercury	65309-06-19 22:34 G	25574852.32	25574852.44	25574852.56	0.0137	0.0074
Mercury	65309-09-16 01:55 G	25574940.49	25574940.58	25574940.69	0.0137	0.0095
Venus	65309-12-04 04:19 G	25575019.58	25575019.68	25575019.78	0.0137	0.0121
Mercury	65309-12-13 05:31 G	25575028.67	25575028.73	25575028.82	0.0137	0.0114
Mercury	65310-03-11 09:22 G	25575116.86	25575116.89	25575116.92	0.0137	0.0134
Earth	65311-06-29 05:17 G	25575591.55	25575591.72	25575591.91	0.0138	0.0096
Moon	65311-06-29 07:27 G	25575591.64	25575591.81	25575592.01	0.0138	0.0090 *
Moon	65312-07-02 17:46 G	25575961.01	25575961.24	25575961.49	0.0138	0.0054
Earth	65312-07-02 18:58 G	25575961.06	25575961.29	25575961.54	0.0138	0.0048 *
Earth	65313-07-07 09:36 G	25576330.64	25576330.90	25576331.15	0.0139	0.0003
Moon	65313-07-07 10:48 G	25576330.70	25576330.95	25576331.20	0.0139	0.0009 *
Moon	65314-07-11 23:17 G	25576700.24	25576700.47	25576700.73	0.0139	0.0049
Earth	65314-07-12 00:15 G	25576700.29	25576700.51	25576700.76	0.0139	0.0053 *
Earth	65315-07-16 15:36 G	25577070.01	25577070.15	25577070.35	0.0139	0.0104
Moon	65315-07-16 16:19 G	25577070.02	25577070.18	25577070.35	0.0139	0.0103 *
Venus	65345-11-19 00:15 G	25588153.47	25588153.51	25588153.59	0.0142	0.0137
Venus	65346-07-03 10:48 G	25588379.81	25588379.95	25588380.12	0.0142	0.0099
Venus	65347-02-14 21:07 G	25588606.19	25588606.38	25588606.58	0.0142	0.0061
Venus	65347-09-29 07:27 G	25588832.60	25588832.81	25588833.03	0.0142	0.0023

Mercury	65347-11-07 08:39 G	25588871.78	25588871.86	25588871.95	0.0142	0.0122
Mercury	65348-02-03 15:07 G	25588960.01	25588960.13	25588960.27	0.0141	0.0095
Mercury	65348-05-01 21:36 G	25589048.26	25589048.40	25589048.56	0.0141	0.0068
Venus	65348-05-12 17:31 G	25589059.01	25589059.23	25589059.45	0.0141	0.0015
Mercury	65348-07-29 04:19 G	25589136.51	25589136.68	25589136.85	0.0141	0.0040
Mercury	65348-10-25 11:03 G	25589224.78	25589224.96	25589225.13	0.0141	0.0012
Venus	65348-12-25 03:22 G	25589285.44	25589285.64	25589285.84	0.0141	0.0053
Mercury	65349-01-21 17:31 G	25589313.06	25589313.23	25589313.41	0.0141	0.0016
Mercury	65349-04-20 00:15 G	25589401.35	25589401.51	25589401.68	0.0141	0.0044
Mercury	65349-07-17 06:58 G	25589489.64	25589489.79	25589489.95	0.0141	0.0072
Venus	65349-08-08 12:43 G	25589511.87	25589512.03	25589512.21	0.0141	0.0090
Mercury	65349-10-13 13:55 G	25589577.95	25589578.08	25589578.20	0.0141	0.0100
Mercury	65350-01-09 20:24 G	25589666.29	25589666.35	25589666.43	0.0141	0.0129
Venus	65350-03-22 22:05 G	25589738.35	25589738.42	25589738.53	0.0141	0.0127
Earth	65350-12-28 11:17 G	25590018.91	25590018.97	25590019.06	0.0140	0.0134
Moon	65350-12-28 11:17 G	25590018.94	25590018.97	25590019.01	0.0140	0.0139 *
Earth	65352-01-02 06:43 G	25590388.57	25590388.78	25590388.99	0.0140	0.0081
Moon	65352-01-02 06:43 G	25590388.59	25590388.78	25590388.99	0.0140	0.0078 *
Earth	65353-01-06 00:43 G	25590758.29	25590758.53	25590758.79	0.0140	0.0030
Moon	65353-01-06 01:41 G	25590758.31	25590758.57	25590758.83	0.0140	0.0028 *
Moon	65354-01-10 17:31 G	25591127.99	25591128.23	25591128.48	0.0139	0.0018
Earth	65354-01-10 18:29 G	25591128.02	25591128.27	25591128.52	0.0139	0.0022 *
Earth	65355-01-15 11:03 G	25591497.75	25591497.96	25591498.18	0.0139	0.0072
Moon	65355-01-15 12:00 G	25591497.81	25591498.00	25591498.24	0.0139	0.0079 *
Moon	65356-01-20 00:43 G	25591867.41	25591867.53	25591867.69	0.0139	0.0115
Earth	65356-01-20 02:39 G	25591867.51	25591867.61	25591867.75	0.0139	0.0122 *
Mars	65371-01-01 02:39 G	25597327.34	25597327.61	25597327.92	0.0135	0.0058
Venus	65389-04-02 09:22 G	25603993.86	25603993.89	25603993.96	0.0136	0.0132
Venus	65389-11-14 16:34 G	25604220.04	25604220.19	25604220.34	0.0136	0.0099
Venus	65390-06-28 23:17 G	25604446.29	25604446.47	25604446.67	0.0136	0.0065

Mercury	65391-02-09 16:05 G	25604672.12	25604672.17	25604672.24	0.0136	0.0124
Venus	65391-02-10 06:29 G	25604672.56	25604672.77	25604672.98	0.0136	0.0032
Mercury	65391-05-08 20:10 G	25604760.25	25604760.34	25604760.43	0.0137	0.0103
Mercury	65391-08-04 23:46 G	25604848.38	25604848.49	25604848.61	0.0137	0.0083
Venus	65391-09-24 13:41 G	25604898.85	25604899.07	25604899.29	0.0137	0.0003
Mercury	65391-11-01 03:36 G	25604936.53	25604936.65	25604936.78	0.0137	0.0062
Mercury	65392-01-28 07:27 G	25605024.67	25605024.81	25605024.94	0.0137	0.0042
Mercury	65392-04-25 11:03 G	25605112.83	25605112.96	25605113.10	0.0137	0.0022
Venus	65392-05-07 20:53 G	25605125.17	25605125.37	25605125.59	0.0137	0.0037
Mercury	65392-07-22 14:53 G	25605200.98	25605201.12	25605201.26	0.0137	0.0001
Mercury	65392-10-18 18:29 G	25605289.14	25605289.27	25605289.41	0.0137	0.0019
Venus	65392-12-20 04:19 G	25605351.51	25605351.68	25605351.88	0.0137	0.0071
Mercury	65393-01-14 22:19 G	25605377.29	25605377.43	25605377.56	0.0137	0.0039
Mercury	65393-04-13 01:55 G	25605465.45	25605465.58	25605465.71	0.0137	0.0059
Mercury	65393-07-10 05:31 G	25605553.62	25605553.73	25605553.84	0.0137	0.0079
Venus	65393-08-03 12:00 G	25605577.87	25605578.00	25605578.15	0.0137	0.0105
Mercury	65393-10-06 09:07 G	25605641.79	25605641.88	25605641.98	0.0137	0.0099
Mercury	65394-01-02 12:29 G	25605729.97	25605730.02	25605730.10	0.0137	0.0120
Moon	65394-06-24 22:48 G	25605903.44	25605903.45	25605903.49	0.0138	0.0137
Earth	65395-06-29 14:24 G	25606272.93	25606273.10	25606273.31	0.0138	0.0092
Moon	65395-06-29 16:34 G	25606273.03	25606273.19	25606273.38	0.0138	0.0098 *
Moon	65396-07-03 01:55 G	25606642.33	25606642.58	25606642.84	0.0138	0.0035
Earth	65396-07-03 04:19 G	25606642.44	25606642.68	25606642.93	0.0138	0.0043 *
Earth	65397-07-07 18:29 G	25607012.02	25607012.27	25607012.52	0.0139	0.0007
Moon	65397-07-07 20:10 G	25607012.09	25607012.34	25607012.59	0.0139	0.0000 *
Moon	65398-07-12 07:41 G	25607381.60	25607381.82	25607382.07	0.0139	0.0061
Earth	65398-07-12 09:36 G	25607381.66	25607381.90	25607382.13	0.0139	0.0056 *
Earth	65399-07-17 00:58 G	25607751.39	25607751.54	25607751.71	0.0139	0.0107
Moon	65399-07-17 02:10 G	25607751.44	25607751.59	25607751.76	0.0139	0.0106 *
Mars	65413-05-28 04:48 G	25612814.65	25612814.70	25612814.80	0.0143	0.0139

Venus	65430-03-03 17:31 G	25618938.12	25618938.23	25618938.36	0.0142	0.0116
Venus	65430-10-16 04:05 G	25619164.49	25619164.67	25619164.86	0.0142	0.0078
Venus	65431-05-30 14:24 G	25619390.89	25619391.10	25619391.31	0.0142	0.0040
Mercury	65431-11-28 15:51 G	25619573.06	25619573.16	25619573.26	0.0142	0.0115
Venus	65432-01-12 00:29 G	25619617.30	25619617.52	25619617.74	0.0141	0.0002
Mercury	65432-02-24 22:05 G	25619661.29	25619661.42	25619661.56	0.0141	0.0088
Mercury	65432-05-23 04:34 G	25619749.54	25619749.69	25619749.86	0.0141	0.0061
Mercury	65432-08-19 11:17 G	25619837.80	25619837.97	25619838.14	0.0141	0.0033
Venus	65432-08-25 10:19 G	25619843.72	25619843.93	25619844.14	0.0141	0.0036
Mercury	65432-11-15 18:00 G	25619926.07	25619926.25	25619926.43	0.0141	0.0005
Mercury	65433-02-12 00:29 G	25620014.35	25620014.52	25620014.70	0.0141	0.0023
Venus	65433-04-08 19:55 G	25620070.16	25620070.33	25620070.53	0.0141	0.0073
Mercury	65433-05-11 07:12 G	25620102.64	25620102.80	25620102.97	0.0141	0.0051
Mercury	65433-08-07 13:55 G	25620190.94	25620191.08	25620191.23	0.0141	0.0079
Mercury	65433-11-03 20:53 G	25620279.26	25620279.37	25620279.49	0.0141	0.0107
Venus	65433-11-21 05:46 G	25620296.61	25620296.74	25620296.88	0.0141	0.0110
Mercury	65434-01-31 03:22 G	25620367.61	25620367.64	25620367.70	0.0141	0.0136
Moon	65434-12-29 19:41 G	25620700.19	25620700.32	25620700.45	0.0140	0.0122
Earth	65434-12-29 21:07 G	25620700.29	25620700.38	25620700.48	0.0140	0.0129 *
Earth	65436-01-03 15:51 G	25621069.96	25621070.16	25621070.39	0.0140	0.0077
Moon	65436-01-03 16:19 G	25621069.99	25621070.18	25621070.39	0.0140	0.0080 *
Moon	65437-01-07 10:05 G	25621439.66	25621439.92	25621440.18	0.0140	0.0025
Earth	65437-01-07 10:19 G	25621439.69	25621439.93	25621440.19	0.0140	0.0026 *
Moon	65438-01-12 03:36 G	25621809.41	25621809.65	25621809.90	0.0139	0.0030
Earth	65438-01-12 04:05 G	25621809.42	25621809.67	25621809.92	0.0139	0.0026 *
Earth	65439-01-16 20:24 G	25622179.15	25622179.35	25622179.57	0.0139	0.0076
Moon	65439-01-16 21:07 G	25622179.17	25622179.38	25622179.62	0.0139	0.0069 *
Moon	65440-01-21 11:17 G	25622548.92	25622548.97	25622549.06	0.0139	0.0133
Earth	65440-01-21 12:00 G	25622548.92	25622549.00	25622549.13	0.0139	0.0126 *
Mars	65455-08-28 03:36 G	25628246.50	25628246.65	25628246.87	0.0135	0.0111

Venus	65473-07-16 00:15 G	25634778.41	25634778.51	25634778.64	0.0136	0.0114
Venus	65474-02-27 07:27 G	25635004.64	25635004.81	25635004.99	0.0136	0.0081
Venus	65474-10-11 14:24 G	25635230.90	25635231.10	25635231.31	0.0136	0.0047
Mercury	65475-03-02 22:48 G	25635373.40	25635373.45	25635373.53	0.0137	0.0120
Venus	65475-05-25 21:36 G	25635457.19	25635457.40	25635457.62	0.0137	0.0013
Mercury	65475-05-30 02:53 G	25635461.53	25635461.62	25635461.72	0.0137	0.0098
Mercury	65475-08-26 06:43 G	25635549.67	25635549.78	25635549.90	0.0137	0.0078
Mercury	65475-11-22 10:34 G	25635637.81	25635637.94	25635638.07	0.0137	0.0058
Venus	65476-01-07 04:48 G	25635683.49	25635683.70	25635683.92	0.0137	0.0021
Mercury	65476-02-18 14:24 G	25635725.96	25635726.10	25635726.23	0.0137	0.0037
Mercury	65476-05-16 18:00 G	25635814.11	25635814.25	25635814.39	0.0137	0.0017
Mercury	65476-08-12 21:51 G	25635902.27	25635902.41	25635902.55	0.0137	0.0004
Venus	65476-08-20 12:15 G	25635909.81	25635910.01	25635910.21	0.0137	0.0055
Mercury	65476-11-09 01:27 G	25635990.42	25635990.56	25635990.70	0.0137	0.0024
Mercury	65477-02-05 05:03 G	25636078.58	25636078.71	25636078.85	0.0137	0.0044
Venus	65477-04-03 19:55 G	25636136.17	25636136.33	25636136.50	0.0137	0.0090
Mercury	65477-05-04 08:39 G	25636166.75	25636166.86	25636166.99	0.0137	0.0064
Mercury	65477-07-31 12:15 G	25636254.91	25636255.01	25636255.13	0.0137	0.0084
Mercury	65477-10-27 16:05 G	25636343.08	25636343.17	25636343.26	0.0137	0.0104
Venus	65477-11-16 03:22 G	25636362.57	25636362.64	25636362.75	0.0137	0.0124
Mercury	65478-01-23 19:41 G	25636431.26	25636431.32	25636431.38	0.0137	0.0124
Earth	65478-06-26 10:19 G	25636584.91	25636584.93	25636585.00	0.0138	0.0136
Earth	65479-06-30 23:17 G	25636954.29	25636954.47	25636954.68	0.0138	0.0088
Moon	65479-07-01 02:10 G	25636954.41	25636954.59	25636954.81	0.0138	0.0083 *
Moon	65480-07-04 10:19 G	25637323.69	25637323.93	25637324.18	0.0138	0.0046
Earth	65480-07-04 12:43 G	25637323.80	25637324.03	25637324.29	0.0138	0.0040 *
Earth	65481-07-09 03:07 G	25637693.38	25637693.63	25637693.88	0.0139	0.0010
Moon	65481-07-09 05:31 G	25637693.49	25637693.73	25637693.98	0.0139	0.0018 *
Moon	65482-07-13 15:22 G	25638062.92	25638063.14	25638063.40	0.0139	0.0055
Earth	65482-07-13 17:46 G	25638063.02	25638063.24	25638063.48	0.0139	0.0060 *

Earth	65483-07-18 09:07 G	25638432.74	25638432.88	25638433.05	0.0139	0.0110
Moon	65483-07-18 10:48 G	25638432.82	25638432.95	25638433.11	0.0139	0.0112 *
Mars	65498-01-21 08:10 G	25643733.57	25643733.84	25643734.12	0.0144	0.0049
Venus	65513-11-02 00:43 G	25649496.47	25649496.53	25649496.61	0.0142	0.0134
Venus	65514-06-16 11:17 G	25649722.81	25649722.97	25649723.13	0.0142	0.0095
Venus	65515-01-28 21:36 G	25649949.20	25649949.40	25649949.60	0.0142	0.0057
Venus	65515-09-12 07:55 G	25650175.61	25650175.83	25650176.04	0.0142	0.0019
Mercury	65515-09-22 16:19 G	25650186.14	25650186.18	25650186.24	0.0142	0.0134
Mercury	65515-12-19 22:48 G	25650274.35	25650274.45	25650274.57	0.0142	0.0107
Mercury	65516-03-17 05:31 G	25650362.59	25650362.73	25650362.87	0.0141	0.0080
Venus	65516-04-25 17:46 G	25650402.03	25650402.24	25650402.46	0.0141	0.0019
Mercury	65516-06-13 12:00 G	25650450.84	25650451.00	25650451.16	0.0141	0.0052
Mercury	65516-09-09 18:29 G	25650539.10	25650539.27	25650539.45	0.0141	0.0025
Mercury	65516-12-07 01:12 G	25650627.37	25650627.55	25650627.73	0.0141	0.0003
Venus	65516-12-08 03:51 G	25650628.46	25650628.66	25650628.86	0.0141	0.0057
Mercury	65517-03-05 07:41 G	25650715.66	25650715.82	25650716.00	0.0141	0.0031
Mercury	65517-06-01 14:24 G	25650803.95	25650804.10	25650804.27	0.0141	0.0059
Venus	65517-07-22 13:12 G	25650854.90	25650855.05	25650855.22	0.0141	0.0094
Mercury	65517-08-28 21:07 G	25650892.25	25650892.38	25650892.53	0.0141	0.0087
Mercury	65517-11-25 04:05 G	25650980.57	25650980.67	25650980.77	0.0141	0.0115
Venus	65518-03-05 22:48 G	25651081.39	25651081.45	25651081.54	0.0141	0.0131
Moon	65518-12-31 05:31 G	25651381.65	25651381.73	25651381.84	0.0140	0.0131
Earth	65518-12-31 07:12 G	25651381.69	25651381.80	25651381.92	0.0140	0.0124 *
Earth	65520-01-05 02:10 G	25651751.38	25651751.59	25651751.82	0.0140	0.0073
Moon	65520-01-05 03:36 G	25651751.45	25651751.65	25651751.88	0.0140	0.0068 *
Moon	65521-01-08 20:10 G	25652121.08	25652121.34	25652121.60	0.0140	0.0021
Earth	65521-01-08 20:39 G	25652121.11	25652121.36	25652121.62	0.0140	0.0021 *
Earth	65522-01-13 13:55 G	25652490.84	25652491.08	25652491.34	0.0139	0.0031
Moon	65522-01-13 14:39 G	25652490.87	25652491.11	25652491.35	0.0139	0.0027 *
Moon	65523-01-18 06:15 G	25652860.57	25652860.76	25652860.99	0.0139	0.0086

Earth	65523-01-18 06:29 G	25652860.57	25652860.77	25652860.99	0.0139	0.0080	*
Moon	65524-01-22 21:36 G	25653230.30	25653230.40	25653230.52	0.0139	0.0122	
Earth	65524-01-22 21:51 G	25653230.35	25653230.41	25653230.53	0.0139	0.0130	*
Venus	65557-03-16 08:53 G	25665336.83	25665336.87	25665336.96	0.0136	0.0129	
Venus	65557-10-28 16:19 G	25665563.02	25665563.18	25665563.33	0.0136	0.0096	
Venus	65558-06-11 23:03 G	25665789.27	25665789.46	25665789.66	0.0136	0.0062	
Mercury	65558-12-26 02:24 G	25665986.57	25665986.60	25665986.62	0.0136	0.0134	
Venus	65559-01-24 06:15 G	25666015.55	25666015.76	25666015.97	0.0136	0.0028	
Mercury	65559-03-24 06:00 G	25666074.68	25666074.75	25666074.84	0.0137	0.0114	
Mercury	65559-06-20 09:51 G	25666162.82	25666162.91	25666163.02	0.0137	0.0093	
Venus	65559-09-07 13:27 G	25666241.84	25666242.06	25666242.28	0.0137	0.0006	
Mercury	65559-09-16 13:41 G	25666250.96	25666251.07	25666251.20	0.0137	0.0073	
Mercury	65559-12-13 17:31 G	25666339.10	25666339.23	25666339.37	0.0137	0.0052	
Mercury	65560-03-10 21:22 G	25666427.25	25666427.39	25666427.53	0.0137	0.0032	
Venus	65560-04-20 20:53 G	25666468.17	25666468.37	25666468.58	0.0137	0.0040	
Mercury	65560-06-07 01:12 G	25666515.41	25666515.55	25666515.69	0.0137	0.0011	
Mercury	65560-09-03 04:48 G	25666603.56	25666603.70	25666603.84	0.0137	0.0010	
Mercury	65560-11-30 08:39 G	25666691.72	25666691.86	25666692.00	0.0137	0.0029	
Venus	65560-12-03 04:19 G	25666694.50	25666694.68	25666694.87	0.0137	0.0074	
Mercury	65561-02-26 12:15 G	25666779.88	25666780.01	25666780.14	0.0137	0.0049	
Mercury	65561-05-25 15:51 G	25666868.05	25666868.16	25666868.29	0.0137	0.0070	
Venus	65561-07-17 12:00 G	25666920.87	25666921.00	25666921.13	0.0137	0.0109	
Mercury	65561-08-21 19:27 G	25666956.21	25666956.31	25666956.42	0.0137	0.0090	
Mercury	65561-11-17 23:03 G	25667044.39	25667044.46	25667044.55	0.0137	0.0110	
Mercury	65562-02-14 02:39 G	25667132.58	25667132.61	25667132.66	0.0137	0.0129	
Moon	65562-06-27 17:03 G	25667266.14	25667266.21	25667266.30	0.0138	0.0130	
Earth	65562-06-27 20:10 G	25667266.29	25667266.34	25667266.44	0.0138	0.0131	*
Earth	65563-07-02 09:07 G	25667635.68	25667635.88	25667636.09	0.0138	0.0083	
Moon	65563-07-02 12:00 G	25667635.82	25667636.00	25667636.20	0.0138	0.0089	*
Moon	65564-07-05 19:27 G	25668005.05	25668005.31	25668005.56	0.0138	0.0028	

Earth	65564-07-05 22:19 G	25668005.20	25668005.43	25668005.69	0.0138	0.0036	*
Earth	65565-07-10 12:29 G	25668374.77	25668375.02	25668375.28	0.0139	0.0015	
Moon	65565-07-10 15:07 G	25668374.89	25668375.13	25668375.38	0.0139	0.0008	*
Moon	65566-07-15 00:29 G	25668744.31	25668744.52	25668744.76	0.0139	0.0070	
Earth	65566-07-15 03:07 G	25668744.42	25668744.63	25668744.87	0.0139	0.0064	*
Earth	65567-07-19 18:43 G	25669114.14	25669114.28	25669114.43	0.0139	0.0114	
Moon	65567-07-19 20:53 G	25669114.24	25669114.37	25669114.54	0.0139	0.0111	*
Venus	65598-02-13 18:00 G	25680281.14	25680281.25	25680281.40	0.0142	0.0113	
Venus	65598-09-28 04:48 G	25680507.53	25680507.70	25680507.89	0.0142	0.0075	
Venus	65599-05-12 15:07 G	25680733.93	25680734.13	25680734.35	0.0142	0.0037	
Mercury	65599-10-12 23:46 G	25680887.42	25680887.49	25680887.57	0.0142	0.0126	
Venus	65599-12-25 01:27 G	25680960.34	25680960.56	25680960.78	0.0141	0.0002	
Mercury	65600-01-09 06:15 G	25680975.64	25680975.76	25680975.88	0.0141	0.0099	
Mercury	65600-04-06 12:43 G	25681063.88	25681064.03	25681064.18	0.0141	0.0072	
Mercury	65600-07-03 19:12 G	25681152.14	25681152.30	25681152.47	0.0141	0.0044	
Venus	65600-08-07 11:17 G	25681186.77	25681186.97	25681187.18	0.0141	0.0040	
Mercury	65600-09-30 01:55 G	25681240.40	25681240.58	25681240.75	0.0141	0.0017	
Mercury	65600-12-27 08:24 G	25681328.68	25681328.85	25681329.03	0.0141	0.0012	
Venus	65601-03-21 21:07 G	25681413.20	25681413.38	25681413.57	0.0141	0.0077	
Mercury	65601-03-25 15:07 G	25681416.96	25681417.13	25681417.30	0.0141	0.0039	
Mercury	65601-06-21 21:51 G	25681505.26	25681505.41	25681505.57	0.0141	0.0067	
Mercury	65601-09-18 04:19 G	25681593.56	25681593.68	25681593.82	0.0141	0.0096	
Venus	65601-11-03 06:58 G	25681639.67	25681639.79	25681639.92	0.0141	0.0114	
Mercury	65601-12-15 11:03 G	25681681.89	25681681.96	25681682.06	0.0141	0.0124	
Moon	65602-12-31 14:39 G	25682062.97	25682063.11	25682063.29	0.0140	0.0112	
Earth	65602-12-31 17:31 G	25682063.11	25682063.23	25682063.38	0.0140	0.0119	*
Earth	65604-01-05 12:29 G	25682432.81	25682433.02	25682433.26	0.0140	0.0067	
Moon	65604-01-05 14:24 G	25682432.89	25682433.10	25682433.31	0.0140	0.0071	*
Moon	65605-01-09 05:17 G	25682802.46	25682802.72	25682802.99	0.0140	0.0014	
Earth	65605-01-09 07:12 G	25682802.54	25682802.80	25682803.05	0.0140	0.0016	*

Earth	65606-01-14 00:15 G	25683172.28	25683172.51	25683172.77	0.0139	0.0036
Moon	65606-01-14 01:27 G	25683172.32	25683172.56	25683172.79	0.0139	0.0038 *
Moon	65607-01-18 16:19 G	25683541.97	25683542.18	25683542.40	0.0139	0.0078
Earth	65607-01-18 16:34 G	25683542.01	25683542.19	25683542.41	0.0139	0.0085 *
Earth	65608-01-23 08:10 G	25683911.80	25683911.84	25683911.93	0.0139	0.0134
Mars	65623-01-14 16:48 G	25689381.88	25689382.20	25689382.52	0.0135	0.0007
Venus	65641-06-28 00:15 G	25696121.40	25696121.51	25696121.64	0.0136	0.0111
Venus	65642-02-09 07:12 G	25696347.63	25696347.80	25696347.99	0.0136	0.0078
Venus	65642-09-23 14:24 G	25696573.90	25696574.10	25696574.31	0.0136	0.0044
Mercury	65643-01-15 09:07 G	25696687.84	25696687.88	25696687.93	0.0136	0.0129
Mercury	65643-04-13 12:58 G	25696775.96	25696776.04	25696776.13	0.0136	0.0108
Venus	65643-05-07 21:36 G	25696800.19	25696800.40	25696800.62	0.0137	0.0011
Mercury	65643-07-10 16:48 G	25696864.10	25696864.20	25696864.32	0.0137	0.0088
Mercury	65643-10-06 20:53 G	25696952.24	25696952.37	25696952.49	0.0137	0.0067
Venus	65643-12-20 05:03 G	25697026.49	25697026.71	25697026.92	0.0137	0.0024
Mercury	65644-01-03 00:29 G	25697040.39	25697040.52	25697040.66	0.0137	0.0047
Mercury	65644-03-31 04:19 G	25697128.54	25697128.68	25697128.82	0.0137	0.0026
Mercury	65644-06-27 08:10 G	25697216.70	25697216.84	25697216.98	0.0137	0.0006
Venus	65644-08-02 12:15 G	25697252.82	25697253.01	25697253.21	0.0137	0.0058
Mercury	65644-09-23 11:46 G	25697304.85	25697304.99	25697305.13	0.0137	0.0015
Mercury	65644-12-20 15:36 G	25697393.01	25697393.15	25697393.28	0.0137	0.0034
Venus	65645-03-16 19:41 G	25697479.17	25697479.32	25697479.49	0.0137	0.0093
Mercury	65645-03-18 19:12 G	25697481.17	25697481.30	25697481.43	0.0137	0.0055
Mercury	65645-06-14 22:48 G	25697569.34	25697569.45	25697569.57	0.0137	0.0075
Mercury	65645-09-11 02:24 G	25697657.51	25697657.60	25697657.71	0.0137	0.0095
Venus	65645-10-29 03:22 G	25697705.57	25697705.64	25697705.73	0.0137	0.0127
Mercury	65645-12-08 06:00 G	25697745.69	25697745.75	25697745.84	0.0137	0.0115
Mercury	65646-03-06 09:36 G	25697833.88	25697833.90	25697833.94	0.0137	0.0134
Moon	65646-06-28 01:41 G	25697947.49	25697947.57	25697947.68	0.0138	0.0128
Earth	65646-06-28 05:17 G	25697947.64	25697947.72	25697947.83	0.0138	0.0126 *

Earth	65647-07-02 17:46 G	25698317.05	25698317.24	25698317.46	0.0138	0.0079
Moon	65647-07-02 21:22 G	25698317.20	25698317.39	25698317.62	0.0138	0.0075 *
Moon	65648-07-06 04:05 G	25698686.43	25698686.67	25698686.92	0.0138	0.0037
Earth	65648-07-06 07:27 G	25698686.56	25698686.81	25698687.06	0.0138	0.0030 *
Earth	65649-07-10 21:22 G	25699056.14	25699056.39	25699056.64	0.0139	0.0018
Moon	65649-07-11 00:29 G	25699056.29	25699056.52	25699056.78	0.0139	0.0027 *
Moon	65650-07-15 08:53 G	25699425.65	25699425.87	25699426.11	0.0139	0.0061
Earth	65650-07-15 12:00 G	25699425.79	25699426.00	25699426.23	0.0139	0.0068 *
Earth	65651-07-20 03:07 G	25699795.51	25699795.63	25699795.78	0.0139	0.0118
Moon	65651-07-20 05:46 G	25699795.64	25699795.74	25699795.88	0.0139	0.0121 *
Mars	65665-06-10 05:46 G	25704869.53	25704869.74	25704870.00	0.0144	0.0088
Venus	65681-10-14 01:41 G	25710839.50	25710839.57	25710839.67	0.0142	0.0130
Venus	65682-05-28 12:15 G	25711065.86	25711066.01	25711066.19	0.0142	0.0092
Venus	65683-01-09 22:48 G	25711292.25	25711292.45	25711292.66	0.0142	0.0054
Venus	65683-08-24 09:07 G	25711518.67	25711518.88	25711519.10	0.0142	0.0015
Mercury	65683-11-02 06:58 G	25711588.70	25711588.79	25711588.89	0.0142	0.0117
Mercury	65684-01-29 13:27 G	25711676.94	25711677.06	25711677.20	0.0141	0.0090
Venus	65684-04-06 19:12 G	25711745.09	25711745.30	25711745.52	0.0141	0.0023
Mercury	65684-04-26 20:10 G	25711765.18	25711765.34	25711765.50	0.0141	0.0063
Mercury	65684-07-24 02:39 G	25711853.44	25711853.61	25711853.78	0.0141	0.0035
Mercury	65684-10-20 09:22 G	25711941.71	25711941.89	25711942.06	0.0141	0.0008
Venus	65684-11-19 05:17 G	25711971.52	25711971.72	25711971.92	0.0141	0.0060
Mercury	65685-01-16 15:51 G	25712029.99	25712030.16	25712030.34	0.0141	0.0020
Mercury	65685-04-14 22:34 G	25712118.27	25712118.44	25712118.61	0.0141	0.0048
Venus	65685-07-03 14:53 G	25712197.97	25712198.12	25712198.29	0.0141	0.0098
Mercury	65685-07-12 05:17 G	25712206.57	25712206.72	25712206.87	0.0141	0.0076
Mercury	65685-10-08 11:46 G	25712294.88	25712294.99	25712295.12	0.0141	0.0105
Mercury	65686-01-04 18:29 G	25712383.23	25712383.27	25712383.34	0.0141	0.0133
Venus	65686-02-15 00:29 G	25712424.47	25712424.52	25712424.59	0.0141	0.0135
Moon	65687-01-01 01:55 G	25712744.45	25712744.58	25712744.72	0.0140	0.0120

Earth	65687-01-01 04:19 G	25712744.54	25712744.68	25712744.84	0.0140	0.0113	*
Earth	65688-01-05 23:31 G	25713114.26	25713114.48	25713114.72	0.0140	0.0061	
Moon	65688-01-06 02:10 G	25713114.37	25713114.59	25713114.83	0.0140	0.0056	*
Moon	65689-01-09 16:05 G	25713483.91	25713484.17	25713484.44	0.0140	0.0012	
Earth	65689-01-09 18:00 G	25713484.00	25713484.25	25713484.51	0.0140	0.0010	*
Earth	65690-01-14 11:03 G	25713853.72	25713853.96	25713854.21	0.0139	0.0041	
Moon	65690-01-14 12:43 G	25713853.80	25713854.03	25713854.28	0.0139	0.0039	*
Moon	65691-01-19 02:24 G	25714223.41	25714223.60	25714223.80	0.0139	0.0094	
Earth	65691-01-19 03:22 G	25714223.46	25714223.64	25714223.85	0.0139	0.0090	*
Moon	65692-01-23 19:55 G	25714593.26	25714593.33	25714593.42	0.0139	0.0131	
Earth	65692-01-23 19:12 G	25714593.30	25714593.30	25714593.33	0.0139	0.0138	*
Venus	65725-02-26 09:22 G	25726679.82	25726679.89	25726679.97	0.0136	0.0126	
Venus	65725-10-10 16:05 G	25726906.03	25726906.17	25726906.34	0.0136	0.0093	
Venus	65726-05-24 23:17 G	25727132.28	25727132.47	25727132.67	0.0136	0.0060	
Venus	65727-01-06 06:29 G	25727358.55	25727358.77	25727358.98	0.0136	0.0026	
Mercury	65727-02-05 16:19 G	25727389.13	25727389.18	25727389.25	0.0136	0.0123	
Mercury	65727-05-04 20:10 G	25727477.25	25727477.34	25727477.44	0.0136	0.0102	
Mercury	65727-08-01 00:00 G	25727565.39	25727565.50	25727565.62	0.0137	0.0082	
Venus	65727-08-20 13:41 G	25727584.85	25727585.07	25727585.29	0.0137	0.0008	
Mercury	65727-10-28 03:51 G	25727653.54	25727653.66	25727653.79	0.0137	0.0061	
Mercury	65728-01-24 07:41 G	25727741.69	25727741.82	25727741.96	0.0137	0.0041	
Venus	65728-04-02 20:53 G	25727811.17	25727811.37	25727811.59	0.0137	0.0043	
Mercury	65728-04-21 11:31 G	25727829.84	25727829.98	25727830.12	0.0137	0.0020	
Mercury	65728-07-18 15:22 G	25727917.99	25727918.14	25727918.28	0.0137	0.0004	
Mercury	65728-10-14 18:58 G	25728006.15	25728006.29	25728006.43	0.0137	0.0020	
Venus	65728-11-15 04:19 G	25728037.51	25728037.68	25728037.87	0.0137	0.0077	
Mercury	65729-01-10 22:48 G	25728094.31	25728094.45	25728094.58	0.0137	0.0041	
Mercury	65729-04-09 02:24 G	25728182.47	25728182.60	25728182.73	0.0137	0.0060	
Venus	65729-06-29 11:46 G	25728263.88	25728263.99	25728264.13	0.0137	0.0112	
Mercury	65729-07-06 06:00 G	25728270.64	25728270.75	25728270.86	0.0137	0.0080	

Mercury	65729-10-02 09:36 G	25728358.81	25728358.90	25728359.00	0.0137	0.0100
Mercury	65729-12-29 13:12 G	25728446.99	25728447.05	25728447.12	0.0137	0.0120
Moon	65730-06-29 11:31 G	25728628.88	25728628.98	25728629.12	0.0138	0.0122
Earth	65730-06-29 15:07 G	25728629.03	25728629.13	25728629.27	0.0138	0.0121 *
Earth	65731-07-04 03:51 G	25728998.45	25728998.66	25728998.88	0.0138	0.0073
Moon	65731-07-04 07:27 G	25728998.60	25728998.81	25728999.01	0.0138	0.0078 *
Moon	65732-07-07 13:27 G	25729367.81	25729368.06	25729368.32	0.0138	0.0019
Earth	65732-07-07 17:17 G	25729367.97	25729368.22	25729368.47	0.0138	0.0026 *
Earth	65733-07-12 06:58 G	25729737.55	25729737.79	25729738.05	0.0139	0.0024
Moon	65733-07-12 10:19 G	25729737.69	25729737.93	25729738.18	0.0139	0.0016 *
Moon	65734-07-16 18:15 G	25730107.06	25730107.26	25730107.48	0.0139	0.0080
Earth	65734-07-16 21:51 G	25730107.20	25730107.41	25730107.63	0.0139	0.0073 *
Earth	65735-07-21 12:58 G	25730476.94	25730477.04	25730477.18	0.0139	0.0123
Moon	65735-07-21 16:34 G	25730477.06	25730477.19	25730477.32	0.0139	0.0118 *
Mars	65750-02-04 11:46 G	25735788.79	25735788.99	25735789.21	0.0144	0.0102
Venus	65766-01-26 19:41 G	25741624.19	25741624.32	25741624.46	0.0142	0.0109
Venus	65766-09-10 06:15 G	25741850.58	25741850.76	25741850.95	0.0142	0.0071
Venus	65767-04-24 16:34 G	25742076.99	25742077.19	25742077.41	0.0142	0.0033
Mercury	65767-08-27 07:55 G	25742201.79	25742201.83	25742201.88	0.0142	0.0136
Mercury	65767-11-23 14:24 G	25742290.00	25742290.10	25742290.21	0.0141	0.0109
Venus	65767-12-07 02:53 G	25742303.40	25742303.62	25742303.84	0.0141	0.0006
Mercury	65768-02-19 20:53 G	25742378.23	25742378.37	25742378.52	0.0141	0.0081
Mercury	65768-05-18 03:22 G	25742466.48	25742466.64	25742466.81	0.0141	0.0054
Venus	65768-07-20 12:58 G	25742529.83	25742530.04	25742530.25	0.0141	0.0043
Mercury	65768-08-14 10:05 G	25742554.74	25742554.92	25742555.09	0.0141	0.0027
Mercury	65768-11-10 16:34 G	25742643.02	25742643.19	25742643.37	0.0141	0.0002
Mercury	65769-02-06 23:03 G	25742731.29	25742731.46	25742731.64	0.0141	0.0030
Venus	65769-03-03 22:34 G	25742756.28	25742756.44	25742756.63	0.0141	0.0081
Mercury	65769-05-06 05:46 G	25742819.58	25742819.74	25742819.91	0.0141	0.0057
Mercury	65769-08-02 12:29 G	25742907.88	25742908.02	25742908.17	0.0141	0.0085

Venus	65769-10-16 08:39 G	25742982.75	25742982.86	25742982.98	0.0141	0.0118
Mercury	65769-10-29 19:12 G	25742996.20	25742996.30	25742996.41	0.0141	0.0113
Moon	65771-01-02 11:31 G	25743425.81	25743425.98	25743426.18	0.0140	0.0099
Earth	65771-01-02 15:22 G	25743425.97	25743426.14	25743426.30	0.0140	0.0107 *
Earth	65772-01-07 10:19 G	25743795.69	25743795.93	25743796.16	0.0140	0.0055
Moon	65772-01-07 12:29 G	25743795.81	25743796.02	25743796.26	0.0140	0.0061 *
Moon	65773-01-11 01:41 G	25744165.31	25744165.57	25744165.83	0.0140	0.0001
Earth	65773-01-11 04:34 G	25744165.43	25744165.69	25744165.94	0.0140	0.0005 *
Earth	65774-01-15 21:36 G	25744535.17	25744535.40	25744535.65	0.0139	0.0046
Moon	65774-01-15 23:31 G	25744535.26	25744535.48	25744535.72	0.0139	0.0048 *
Moon	65775-01-20 12:29 G	25744904.82	25744905.02	25744905.22	0.0139	0.0089
Earth	65775-01-20 13:55 G	25744904.91	25744905.08	25744905.28	0.0139	0.0096 *
Mars	65790-06-03 09:36 G	25750517.75	25750517.90	25750518.06	0.0135	0.0117
Venus	65809-06-11 00:29 G	25757464.40	25757464.52	25757464.66	0.0136	0.0109
Venus	65810-01-23 07:27 G	25757690.64	25757690.81	25757691.00	0.0136	0.0075
Venus	65810-09-06 14:39 G	25757916.90	25757917.11	25757917.32	0.0136	0.0042
Mercury	65811-02-26 23:17 G	25758090.41	25758090.47	25758090.55	0.0136	0.0118
Venus	65811-04-20 21:51 G	25758143.20	25758143.41	25758143.63	0.0136	0.0008
Mercury	65811-05-26 03:22 G	25758178.54	25758178.64	25758178.74	0.0136	0.0097
Mercury	65811-08-22 06:58 G	25758266.68	25758266.79	25758266.91	0.0137	0.0077
Mercury	65811-11-18 10:48 G	25758354.83	25758354.95	25758355.08	0.0137	0.0056
Venus	65811-12-03 05:03 G	25758369.50	25758369.71	25758369.93	0.0137	0.0026
Mercury	65812-02-14 14:39 G	25758442.98	25758443.11	25758443.25	0.0137	0.0036
Mercury	65812-05-12 18:29 G	25758531.13	25758531.27	25758531.41	0.0137	0.0015
Venus	65812-07-16 12:15 G	25758595.82	25758596.01	25758596.21	0.0137	0.0061
Mercury	65812-08-08 22:05 G	25758619.28	25758619.42	25758619.57	0.0137	0.0007
Mercury	65812-11-05 01:55 G	25758707.44	25758707.58	25758707.72	0.0137	0.0025
Mercury	65813-02-01 05:31 G	25758795.60	25758795.73	25758795.87	0.0137	0.0045
Venus	65813-02-27 19:41 G	25758822.17	25758822.32	25758822.48	0.0137	0.0095
Mercury	65813-04-30 09:22 G	25758883.77	25758883.89	25758884.01	0.0137	0.0065

Mercury	65813-07-27 12:58 G	25758971.93	25758972.04	25758972.15	0.0137	0.0085
Venus	65813-10-12 03:22 G	25759048.58	25759048.64	25759048.71	0.0137	0.0130
Mercury	65813-10-23 16:19 G	25759060.10	25759060.18	25759060.28	0.0137	0.0106
Mercury	65814-01-19 20:10 G	25759148.29	25759148.34	25759148.40	0.0137	0.0125
Moon	65814-06-30 20:10 G	25759310.23	25759310.34	25759310.49	0.0138	0.0117
Earth	65814-07-01 00:00 G	25759310.38	25759310.50	25759310.65	0.0138	0.0116 *
Earth	65815-07-05 12:29 G	25759679.81	25759680.02	25759680.25	0.0138	0.0069
Moon	65815-07-05 16:05 G	25759679.96	25759680.17	25759680.40	0.0138	0.0066 *
Moon	65816-07-08 22:19 G	25760049.18	25760049.43	25760049.68	0.0138	0.0027
Earth	65816-07-09 01:41 G	25760049.33	25760049.57	25760049.83	0.0138	0.0021 *
Earth	65817-07-13 15:36 G	25760418.91	25760419.15	25760419.41	0.0139	0.0028
Moon	65817-07-13 19:27 G	25760419.07	25760419.31	25760419.56	0.0139	0.0036 *
Moon	65818-07-18 02:53 G	25760788.41	25760788.62	25760788.85	0.0139	0.0070
Earth	65818-07-18 06:29 G	25760788.57	25760788.77	25760788.99	0.0139	0.0077 *
Earth	65819-07-22 21:36 G	25761158.31	25761158.40	25761158.52	0.0139	0.0127
Moon	65819-07-23 01:12 G	25761158.47	25761158.55	25761158.64	0.0139	0.0131 *
Venus	65849-09-27 03:22 G	25772182.55	25772182.64	25772182.74	0.0142	0.0126
Venus	65850-05-11 13:55 G	25772408.92	25772409.08	25772409.26	0.0142	0.0088
Venus	65850-12-24 00:15 G	25772635.32	25772635.51	25772635.73	0.0142	0.0050
Venus	65851-08-07 10:48 G	25772861.73	25772861.95	25772862.17	0.0142	0.0011
Mercury	65851-09-17 15:22 G	25772903.07	25772903.14	25772903.22	0.0142	0.0127
Mercury	65851-12-14 21:51 G	25772991.29	25772991.41	25772991.54	0.0142	0.0100
Mercury	65852-03-12 04:19 G	25773079.54	25773079.68	25773079.83	0.0141	0.0073
Venus	65852-03-20 20:53 G	25773088.16	25773088.37	25773088.59	0.0141	0.0027
Mercury	65852-06-08 10:48 G	25773167.79	25773167.95	25773168.12	0.0141	0.0045
Mercury	65852-09-04 17:31 G	25773256.05	25773256.23	25773256.40	0.0141	0.0018
Venus	65852-11-02 07:12 G	25773314.60	25773314.80	25773314.99	0.0141	0.0065
Mercury	65852-12-02 00:00 G	25773344.33	25773344.50	25773344.68	0.0141	0.0010
Mercury	65853-02-28 06:43 G	25773432.61	25773432.78	25773432.95	0.0141	0.0038
Mercury	65853-05-27 13:12 G	25773520.90	25773521.05	25773521.21	0.0141	0.0066

Venus	65853-06-16 16:34 G	25773541.06	25773541.19	25773541.36	0.0141	0.0103
Mercury	65853-08-23 19:55 G	25773609.21	25773609.33	25773609.47	0.0141	0.0094
Mercury	65853-11-20 02:53 G	25773697.53	25773697.62	25773697.70	0.0141	0.0122
Venus	65854-01-29 02:24 G	25773767.58	25773767.60	25773767.64	0.0141	0.0139
Moon	65855-01-03 22:34 G	25774107.29	25774107.44	25774107.61	0.0140	0.0109
Earth	65855-01-04 02:10 G	25774107.41	25774107.59	25774107.77	0.0140	0.0101 *
Earth	65856-01-08 20:53 G	25774477.14	25774477.37	25774477.62	0.0140	0.0050
Moon	65856-01-09 00:15 G	25774477.28	25774477.51	25774477.76	0.0140	0.0043 *
Moon	65857-01-12 12:43 G	25774846.77	25774847.03	25774847.29	0.0140	0.0003
Earth	65857-01-12 15:22 G	25774846.89	25774847.14	25774847.40	0.0140	0.0001 *
Earth	65858-01-17 08:24 G	25775216.62	25775216.85	25775217.09	0.0139	0.0051
Moon	65858-01-17 11:03 G	25775216.74	25775216.96	25775217.20	0.0139	0.0051 *
Moon	65859-01-21 22:19 G	25775586.28	25775586.43	25775586.62	0.0139	0.0104
Earth	65859-01-22 00:58 G	25775586.38	25775586.54	25775586.73	0.0139	0.0100 *
Mars	65875-01-28 12:43 G	25781436.75	25781437.03	25781437.33	0.0135	0.0054
Venus	65893-02-08 09:51 G	25788022.83	25788022.91	25788023.01	0.0136	0.0123
Venus	65893-09-22 16:34 G	25788249.04	25788249.19	25788249.37	0.0136	0.0090
Venus	65894-05-06 23:46 G	25788475.30	25788475.49	25788475.69	0.0136	0.0056
Venus	65894-12-19 06:58 G	25788701.57	25788701.79	25788702.00	0.0136	0.0023
Mercury	65894-12-21 02:39 G	25788703.58	25788703.61	25788703.65	0.0136	0.0132
Mercury	65895-03-19 06:29 G	25788791.70	25788791.77	25788791.86	0.0136	0.0111
Mercury	65895-06-15 10:19 G	25788879.83	25788879.93	25788880.04	0.0136	0.0091
Venus	65895-08-02 13:55 G	25788927.87	25788928.08	25788928.30	0.0137	0.0012
Mercury	65895-09-11 14:10 G	25788967.98	25788968.09	25788968.22	0.0137	0.0070
Mercury	65895-12-08 18:00 G	25789056.12	25789056.25	25789056.39	0.0137	0.0050
Mercury	65896-03-05 21:51 G	25789144.27	25789144.41	25789144.55	0.0137	0.0030
Venus	65896-03-15 21:07 G	25789154.18	25789154.38	25789154.59	0.0137	0.0046
Mercury	65896-06-02 01:41 G	25789232.43	25789232.57	25789232.71	0.0137	0.0009
Mercury	65896-08-29 05:17 G	25789320.58	25789320.72	25789320.87	0.0137	0.0012
Venus	65896-10-28 04:34 G	25789380.52	25789380.69	25789380.87	0.0137	0.0080

Mercury	65896-11-25 09:07 G	25789408.74	25789408.88	25789409.02	0.0137	0.0031
Mercury	65897-02-21 12:43 G	25789496.90	25789497.03	25789497.16	0.0137	0.0051
Mercury	65897-05-20 16:19 G	25789585.07	25789585.18	25789585.31	0.0137	0.0071
Venus	65897-06-11 12:00 G	25789606.89	25789607.00	25789607.12	0.0137	0.0114
Mercury	65897-08-16 19:55 G	25789673.24	25789673.33	25789673.44	0.0137	0.0092
Mercury	65897-11-12 23:31 G	25789761.41	25789761.48	25789761.57	0.0137	0.0111
Mercury	65898-02-09 03:22 G	25789849.60	25789849.64	25789849.68	0.0137	0.0131
Moon	65898-07-01 07:12 G	25789991.66	25789991.80	25789991.94	0.0138	0.0113
Earth	65898-07-01 10:19 G	25789991.79	25789991.93	25789992.08	0.0138	0.0111 *
Earth	65899-07-05 22:34 G	25790361.22	25790361.44	25790361.67	0.0138	0.0064
Moon	65899-07-06 01:55 G	25790361.37	25790361.58	25790361.81	0.0138	0.0068 *
Moon	65900-07-10 08:24 G	25790730.60	25790730.85	25790731.10	0.0138	0.0011
Earth	65900-07-10 12:00 G	25790730.75	25790731.00	25790731.25	0.0138	0.0016 *
Earth	65901-07-15 01:41 G	25791100.33	25791100.57	25791100.82	0.0139	0.0033
Moon	65901-07-15 05:03 G	25791100.47	25791100.71	25791100.97	0.0139	0.0026 *
Moon	65902-07-19 12:43 G	25791469.84	25791470.03	25791470.23	0.0139	0.0089
Earth	65902-07-19 16:19 G	25791469.99	25791470.18	25791470.39	0.0139	0.0082 *
Earth	65903-07-24 07:41 G	25791839.76	25791839.82	25791839.92	0.0139	0.0132
Moon	65903-07-24 11:31 G	25791839.88	25791839.98	25791840.09	0.0139	0.0126 *
Mars	65917-06-25 09:36 G	25796924.62	25796924.90	25796925.20	0.0144	0.0029
Venus	65934-01-09 21:07 G	25802967.25	25802967.38	25802967.54	0.0142	0.0105
Venus	65934-08-24 07:41 G	25803193.64	25803193.82	25803194.03	0.0142	0.0067
Venus	65935-04-07 18:29 G	25803420.05	25803420.27	25803420.48	0.0142	0.0028
Mercury	65935-10-08 22:34 G	25803604.36	25803604.44	25803604.55	0.0142	0.0119
Venus	65935-11-20 04:34 G	25803646.48	25803646.69	25803646.91	0.0142	0.0011
Mercury	65936-01-05 05:03 G	25803692.59	25803692.71	25803692.85	0.0142	0.0092
Mercury	65936-04-02 11:31 G	25803780.84	25803780.98	25803781.15	0.0141	0.0065
Mercury	65936-06-29 18:15 G	25803869.09	25803869.26	25803869.43	0.0141	0.0037
Venus	65936-07-03 14:39 G	25803872.91	25803873.11	25803873.32	0.0141	0.0048
Mercury	65936-09-26 00:43 G	25803957.36	25803957.53	25803957.71	0.0141	0.0010

Mercury	65936-12-23 07:27 G	25804045.63	25804045.81	25804045.98	0.0141	0.0019
Venus	65937-02-15 00:15 G	25804099.36	25804099.51	25804099.70	0.0141	0.0087
Mercury	65937-03-21 13:55 G	25804133.92	25804134.08	25804134.25	0.0141	0.0047
Mercury	65937-06-17 20:39 G	25804222.21	25804222.36	25804222.51	0.0141	0.0075
Mercury	65937-09-14 03:07 G	25804310.52	25804310.63	25804310.76	0.0141	0.0103
Venus	65937-09-29 10:19 G	25804325.84	25804325.93	25804326.05	0.0141	0.0123
Mercury	65937-12-11 09:51 G	25804398.86	25804398.91	25804398.99	0.0141	0.0131
Moon	65939-01-05 08:39 G	25804788.68	25804788.86	25804789.08	0.0141	0.0089
Earth	65939-01-05 12:43 G	25804788.85	25804789.03	25804789.22	0.0141	0.0096 *
Earth	65940-01-10 07:27 G	25805158.58	25805158.81	25805159.07	0.0140	0.0045
Moon	65940-01-10 10:48 G	25805158.72	25805158.95	25805159.19	0.0140	0.0051 *
Moon	65941-01-13 22:19 G	25805528.18	25805528.43	25805528.69	0.0140	0.0011
Earth	65941-01-14 01:55 G	25805528.33	25805528.58	25805528.84	0.0140	0.0006 *
Earth	65942-01-18 18:58 G	25805898.07	25805898.29	25805898.54	0.0139	0.0057
Moon	65942-01-18 21:51 G	25805898.19	25805898.41	25805898.65	0.0139	0.0057 *
Moon	65943-01-23 08:53 G	25806267.71	25806267.87	25806268.06	0.0139	0.0101
Earth	65943-01-23 11:46 G	25806267.84	25806267.99	25806268.17	0.0139	0.0106 *
Venus	65977-05-24 01:27 G	25818807.44	25818807.56	25818807.71	0.0136	0.0105
Venus	65978-01-05 08:24 G	25819033.67	25819033.85	25819034.04	0.0136	0.0071
Venus	65978-08-19 15:22 G	25819259.93	25819260.14	25819260.35	0.0136	0.0038
Mercury	65979-01-11 09:36 G	25819404.86	25819404.90	25819404.96	0.0136	0.0127
Venus	65979-04-02 22:34 G	25819486.22	25819486.44	25819486.66	0.0136	0.0004
Mercury	65979-04-09 13:41 G	25819492.98	25819493.07	25819493.16	0.0136	0.0106
Mercury	65979-07-06 17:17 G	25819581.12	25819581.22	25819581.34	0.0137	0.0086
Mercury	65979-10-02 21:22 G	25819669.26	25819669.39	25819669.51	0.0137	0.0065
Venus	65979-11-15 05:31 G	25819712.52	25819712.73	25819712.95	0.0137	0.0031
Mercury	65979-12-30 00:58 G	25819757.41	25819757.54	25819757.68	0.0137	0.0045
Mercury	65980-03-27 04:48 G	25819845.56	25819845.70	25819845.84	0.0137	0.0025
Mercury	65980-06-23 08:39 G	25819933.72	25819933.86	25819934.00	0.0137	0.0004
Venus	65980-06-28 12:29 G	25819938.84	25819939.02	25819939.23	0.0137	0.0065

Mercury	65980-09-19 12:29 G	25820021.88	25820022.02	25820022.16	0.0137	0.0016
Mercury	65980-12-16 16:05 G	25820110.04	25820110.17	25820110.31	0.0137	0.0036
Venus	65981-02-09 19:55 G	25820165.19	25820165.33	25820165.49	0.0137	0.0099
Mercury	65981-03-14 19:41 G	25820198.20	25820198.32	25820198.45	0.0137	0.0056
Mercury	65981-06-10 23:17 G	25820286.36	25820286.47	25820286.59	0.0137	0.0077
Mercury	65981-09-07 02:53 G	25820374.53	25820374.62	25820374.73	0.0137	0.0097
Venus	65981-09-24 03:22 G	25820391.61	25820391.64	25820391.70	0.0137	0.0134
Mercury	65981-12-04 06:29 G	25820462.71	25820462.77	25820462.86	0.0137	0.0116
Mercury	65982-03-02 10:19 G	25820550.92	25820550.93	25820550.95	0.0137	0.0136
Moon	65982-07-02 16:19 G	25820673.02	25820673.18	25820673.34	0.0138	0.0106
Earth	65982-07-02 19:27 G	25820673.16	25820673.31	25820673.47	0.0138	0.0107 *
Earth	65983-07-07 07:41 G	25821042.60	25821042.82	25821043.06	0.0138	0.0060
Moon	65983-07-07 11:03 G	25821042.73	25821042.96	25821043.20	0.0138	0.0058 *
Moon	65984-07-10 17:46 G	25821412.00	25821412.24	25821412.49	0.0138	0.0017
Earth	65984-07-10 21:07 G	25821412.13	25821412.38	25821412.63	0.0138	0.0012 *
Earth	65985-07-15 10:48 G	25821781.71	25821781.95	25821782.20	0.0139	0.0037
Moon	65985-07-15 14:24 G	25821781.87	25821782.10	25821782.35	0.0139	0.0045 *
Moon	65986-07-19 22:05 G	25822151.23	25822151.42	25822151.64	0.0139	0.0079
Earth	65986-07-20 01:41 G	25822151.38	25822151.57	25822151.78	0.0139	0.0086 *
Earth	65987-07-24 17:03 G	25822521.17	25822521.21	25822521.28	0.0139	0.0135

67TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 67th millennium CE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
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TIME

Venus	66017-09-09 05:03 G	25833525.61	25833525.71	25833525.84	0.0142	0.0122
Venus	66018-04-23 15:51 G	25833751.99	25833752.16	25833752.34	0.0142	0.0083
Venus	66018-12-06 02:24 G	25833978.40	25833978.60	25833978.81	0.0142	0.0044
Venus	66019-07-20 12:43 G	25834204.81	25834205.03	25834205.25	0.0142	0.0006
Mercury	66019-08-01 23:46 G	25834217.46	25834217.49	25834217.55	0.0142	0.0137
Mercury	66019-10-29 06:15 G	25834305.66	25834305.76	25834305.88	0.0142	0.0110
Mercury	66020-01-25 12:43 G	25834393.90	25834394.03	25834394.18	0.0142	0.0083
Venus	66020-03-02 22:48 G	25834431.24	25834431.45	25834431.67	0.0142	0.0032
Mercury	66020-04-22 19:27 G	25834482.15	25834482.31	25834482.47	0.0142	0.0055
Mercury	66020-07-20 01:55 G	25834570.41	25834570.58	25834570.75	0.0141	0.0028
Venus	66020-10-15 08:53 G	25834657.69	25834657.87	25834658.07	0.0141	0.0070
Mercury	66020-10-16 08:24 G	25834658.68	25834658.85	25834659.03	0.0141	0.0001
Mercury	66021-01-12 14:53 G	25834746.95	25834747.12	25834747.30	0.0141	0.0028
Mercury	66021-04-10 21:36 G	25834835.24	25834835.40	25834835.56	0.0141	0.0056
Venus	66021-05-29 18:43 G	25834884.15	25834884.28	25834884.43	0.0141	0.0108
Mercury	66021-07-08 04:19 G	25834923.54	25834923.68	25834923.82	0.0141	0.0084
Mercury	66021-10-04 10:34 G	25835011.85	25835011.94	25835012.06	0.0141	0.0113
Mercury	66021-12-31 17:31 G	25835100.22	25835100.23	25835100.26	0.0141	0.0140
Moon	66022-01-01 07:27 G	25835100.75	25835100.81	25835100.88	0.0141	0.0136
Moon	66023-01-05 20:10 G	25835470.17	25835470.34	25835470.53	0.0141	0.0099
Earth	66023-01-05 23:46 G	25835470.31	25835470.49	25835470.70	0.0141	0.0091 *
Earth	66024-01-10 18:43 G	25835840.05	25835840.28	25835840.54	0.0140	0.0040
Moon	66024-01-10 22:34 G	25835840.20	25835840.44	25835840.69	0.0140	0.0032 *
Moon	66025-01-14 10:05 G	25836209.66	25836209.92	25836210.17	0.0140	0.0007
Earth	66025-01-14 13:27 G	25836209.80	25836210.06	25836210.31	0.0140	0.0011 *
Earth	66026-01-19 06:15 G	25836579.55	25836579.76	25836580.01	0.0139	0.0062
Moon	66026-01-19 09:51 G	25836579.70	25836579.91	25836580.15	0.0139	0.0062 *
Moon	66027-01-23 19:55 G	25836949.20	25836949.33	25836949.50	0.0139	0.0113
Earth	66027-01-23 23:17 G	25836949.33	25836949.47	25836949.63	0.0139	0.0110 *

Mars	66042-06-17 10:19 G	25842572.64	25842572.93	25842573.23	0.0135	0.0051
Jupiter	66057-12-19 13:12 G	25848236.56	25848237.05	25848237.55	0.0135	0.0006
Venus	66061-01-21 11:31 G	25849365.88	25849365.98	25849366.09	0.0136	0.0118
Venus	66061-09-04 18:00 G	25849592.09	25849592.25	25849592.43	0.0136	0.0085
Venus	66062-04-19 00:58 G	25849818.35	25849818.54	25849818.75	0.0136	0.0052
Venus	66062-12-01 07:55 G	25850044.62	25850044.83	25850045.05	0.0136	0.0018
Mercury	66063-01-31 17:03 G	25850106.15	25850106.21	25850106.28	0.0136	0.0120
Mercury	66063-04-29 20:53 G	25850194.28	25850194.37	25850194.47	0.0136	0.0099
Venus	66063-07-15 14:53 G	25850270.91	25850271.12	25850271.34	0.0137	0.0017
Mercury	66063-07-27 00:43 G	25850282.42	25850282.53	25850282.65	0.0137	0.0079
Mercury	66063-10-23 04:34 G	25850370.56	25850370.69	25850370.82	0.0137	0.0058
Mercury	66064-01-19 08:24 G	25850458.71	25850458.85	25850458.99	0.0137	0.0038
Venus	66064-02-26 21:51 G	25850497.22	25850497.41	25850497.63	0.0137	0.0051
Mercury	66064-04-16 12:15 G	25850546.87	25850547.01	25850547.15	0.0137	0.0018
Mercury	66064-07-13 16:05 G	25850635.02	25850635.17	25850635.31	0.0137	0.0005
Mercury	66064-10-09 19:41 G	25850723.18	25850723.32	25850723.46	0.0137	0.0023
Venus	66064-10-10 05:31 G	25850723.56	25850723.73	25850723.90	0.0137	0.0084
Mercury	66065-01-05 23:17 G	25850811.34	25850811.47	25850811.61	0.0137	0.0043
Mercury	66065-04-04 02:53 G	25850899.51	25850899.62	25850899.76	0.0137	0.0063
Venus	66065-05-24 12:29 G	25850949.93	25850950.02	25850950.15	0.0137	0.0120
Mercury	66065-07-01 06:43 G	25850987.67	25850987.78	25850987.90	0.0137	0.0083
Mercury	66065-09-27 10:19 G	25851075.84	25851075.93	25851076.03	0.0137	0.0103
Mercury	66065-12-24 13:55 G	25851164.03	25851164.08	25851164.15	0.0137	0.0122
Moon	66066-07-03 04:05 G	25851354.52	25851354.67	25851354.83	0.0138	0.0105
Earth	66066-07-03 06:29 G	25851354.61	25851354.77	25851354.94	0.0138	0.0102 *
Earth	66067-07-07 18:29 G	25851724.05	25851724.27	25851724.52	0.0138	0.0055
Moon	66067-07-07 21:51 G	25851724.18	25851724.41	25851724.65	0.0138	0.0057 *
Moon	66068-07-11 05:03 G	25852093.46	25852093.71	25852093.96	0.0138	0.0002
Earth	66068-07-11 08:10 G	25852093.58	25852093.84	25852094.09	0.0138	0.0007 *
Earth	66069-07-15 21:51 G	25852463.18	25852463.41	25852463.66	0.0139	0.0042

Moon	66069-07-16 01:12 G	25852463.30	25852463.55	25852463.80	0.0139	0.0035 *
Moon	66070-07-20 08:53 G	25852832.71	25852832.87	25852833.06	0.0139	0.0099
Earth	66070-07-20 12:29 G	25852832.84	25852833.02	25852833.23	0.0139	0.0091 *
Moon	66071-07-25 07:27 G	25853202.76	25853202.81	25853202.90	0.0139	0.0134
Venus	66101-05-10 12:58 G	25864084.01	25864084.04	25864084.10	0.0142	0.0139
Venus	66101-12-23 00:00 G	25864310.34	25864310.50	25864310.65	0.0142	0.0100
Venus	66102-08-06 10:19 G	25864536.74	25864536.93	25864537.13	0.0142	0.0061
Venus	66103-03-20 20:53 G	25864763.16	25864763.37	25864763.59	0.0142	0.0022
Mercury	66103-08-23 07:41 G	25864918.75	25864918.82	25864918.90	0.0142	0.0127
Venus	66103-11-02 07:12 G	25864989.59	25864989.80	25864990.02	0.0142	0.0016
Mercury	66103-11-19 14:10 G	25865006.97	25865007.09	25865007.21	0.0142	0.0100
Mercury	66104-02-15 20:24 G	25865095.21	25865095.35	25865095.50	0.0142	0.0073
Mercury	66104-05-14 02:53 G	25865183.46	25865183.62	25865183.79	0.0142	0.0046
Venus	66104-06-15 17:17 G	25865216.02	25865216.22	25865216.42	0.0142	0.0054
Mercury	66104-08-10 09:22 G	25865271.72	25865271.89	25865272.07	0.0141	0.0018
Mercury	66104-11-06 16:05 G	25865359.99	25865360.17	25865360.34	0.0141	0.0010
Venus	66105-01-28 03:07 G	25865442.47	25865442.63	25865442.80	0.0141	0.0092
Mercury	66105-02-02 22:34 G	25865448.27	25865448.44	25865448.61	0.0141	0.0037
Mercury	66105-05-02 05:03 G	25865536.56	25865536.71	25865536.87	0.0141	0.0065
Mercury	66105-07-29 11:31 G	25865624.86	25865624.98	25865625.13	0.0141	0.0093
Venus	66105-09-11 12:43 G	25865668.96	25865669.03	25865669.13	0.0141	0.0129
Mercury	66105-10-25 18:15 G	25865713.18	25865713.26	25865713.36	0.0141	0.0121
Earth	66106-01-02 14:53 G	25865782.08	25865782.12	25865782.20	0.0141	0.0137
Moon	66107-01-07 07:27 G	25866151.62	25866151.81	25866152.04	0.0141	0.0079
Earth	66107-01-07 11:03 G	25866151.77	25866151.96	25866152.18	0.0141	0.0086 *
Earth	66108-01-12 06:15 G	25866521.52	25866521.76	25866522.01	0.0140	0.0035
Moon	66108-01-12 09:51 G	25866521.67	25866521.91	25866522.16	0.0140	0.0041 *
Moon	66109-01-15 20:53 G	25866891.12	25866891.37	25866891.62	0.0140	0.0022
Earth	66109-01-16 00:43 G	25866891.28	25866891.53	25866891.78	0.0140	0.0016 *
Earth	66110-01-20 18:00 G	25867261.04	25867261.25	25867261.48	0.0139	0.0066

Moon	66110-01-20 21:22 G	25867261.18	25867261.39	25867261.62	0.0139	0.0066 *
Moon	66111-01-25 07:12 G	25867630.67	25867630.80	25867630.97	0.0139	0.0112
Earth	66111-01-25 10:48 G	25867630.83	25867630.95	25867631.11	0.0139	0.0115 *
Mars	66127-02-11 14:39 G	25873491.99	25873492.11	25873492.27	0.0134	0.0120
Venus	66144-09-21 20:39 G	25879924.33	25879924.36	25879924.42	0.0136	0.0133
Venus	66145-05-06 03:22 G	25880150.51	25880150.64	25880150.80	0.0136	0.0100
Venus	66145-12-18 10:19 G	25880376.74	25880376.93	25880377.12	0.0136	0.0066
Venus	66146-08-01 16:48 G	25880603.00	25880603.20	25880603.42	0.0136	0.0034
Mercury	66146-11-25 20:10 G	25880719.33	25880719.34	25880719.37	0.0136	0.0135
Mercury	66147-02-22 00:15 G	25880807.43	25880807.51	25880807.59	0.0136	0.0114
Venus	66147-03-16 00:00 G	25880829.29	25880829.50	25880829.72	0.0136	0.0003
Mercury	66147-05-21 04:05 G	25880895.57	25880895.67	25880895.78	0.0136	0.0093
Mercury	66147-08-17 07:55 G	25880983.71	25880983.83	25880983.95	0.0137	0.0073
Venus	66147-10-28 06:58 G	25881055.59	25881055.79	25881056.01	0.0137	0.0036
Mercury	66147-11-13 11:46 G	25881071.86	25881071.99	25881072.12	0.0137	0.0052
Mercury	66148-02-09 15:36 G	25881160.01	25881160.15	25881160.29	0.0137	0.0032
Mercury	66148-05-07 19:27 G	25881248.16	25881248.31	25881248.45	0.0137	0.0012
Venus	66148-06-10 13:55 G	25881281.91	25881282.08	25881282.28	0.0137	0.0070
Mercury	66148-08-03 23:03 G	25881336.32	25881336.46	25881336.60	0.0137	0.0009
Mercury	66148-10-31 02:53 G	25881424.48	25881424.62	25881424.76	0.0137	0.0028
Venus	66149-01-22 21:07 G	25881508.26	25881508.38	25881508.54	0.0137	0.0104
Mercury	66149-01-27 06:29 G	25881512.64	25881512.77	25881512.91	0.0137	0.0049
Mercury	66149-04-25 10:19 G	25881600.81	25881600.93	25881601.05	0.0137	0.0068
Mercury	66149-07-22 13:55 G	25881688.98	25881689.08	25881689.19	0.0137	0.0088
Mercury	66149-10-18 17:31 G	25881777.15	25881777.23	25881777.32	0.0137	0.0108
Mercury	66150-01-14 20:53 G	25881865.34	25881865.37	25881865.43	0.0137	0.0129
Moon	66150-07-04 13:41 G	25882035.91	25882036.07	25882036.27	0.0137	0.0096
Earth	66150-07-04 16:05 G	25882036.02	25882036.17	25882036.37	0.0137	0.0098 *
Earth	66151-07-09 05:03 G	25882405.47	25882405.71	25882405.94	0.0138	0.0050
Moon	66151-07-09 07:12 G	25882405.57	25882405.80	25882406.05	0.0138	0.0050 *

Moon	66152-07-12 15:36 G	25882774.90	25882775.15	25882775.39	0.0138	0.0007
Earth	66152-07-12 18:15 G	25882775.01	25882775.26	25882775.51	0.0138	0.0002 *
Earth	66153-07-17 07:41 G	25883144.60	25883144.82	25883145.07	0.0139	0.0047
Moon	66153-07-17 10:48 G	25883144.73	25883144.95	25883145.20	0.0139	0.0054 *
Moon	66154-07-21 19:41 G	25883514.15	25883514.32	25883514.53	0.0139	0.0088
Earth	66154-07-21 22:34 G	25883514.27	25883514.44	25883514.64	0.0139	0.0095 *
Mars	66169-07-08 15:07 G	25888979.84	25888980.13	25888980.43	0.0144	0.0031
Venus	66185-08-22 07:41 G	25894868.71	25894868.82	25894868.96	0.0142	0.0117
Venus	66186-04-05 18:43 G	25895095.10	25895095.28	25895095.46	0.0142	0.0078
Venus	66186-11-18 05:03 G	25895321.51	25895321.71	25895321.93	0.0142	0.0039
Venus	66187-07-02 15:36 G	25895547.93	25895548.15	25895548.37	0.0142	0.0001
Mercury	66187-09-12 15:07 G	25895620.05	25895620.13	25895620.24	0.0142	0.0118
Mercury	66187-12-09 21:36 G	25895708.28	25895708.40	25895708.54	0.0142	0.0091
Venus	66188-02-14 01:41 G	25895774.37	25895774.57	25895774.78	0.0142	0.0038
Mercury	66188-03-07 04:05 G	25895796.52	25895796.67	25895796.83	0.0142	0.0063
Mercury	66188-06-03 10:34 G	25895884.78	25895884.94	25895885.11	0.0142	0.0036
Mercury	66188-08-30 17:03 G	25895973.04	25895973.21	25895973.39	0.0142	0.0009
Venus	66188-09-27 12:00 G	25896000.81	25896001.00	25896001.18	0.0142	0.0076
Mercury	66188-11-26 23:46 G	25896061.31	25896061.49	25896061.66	0.0141	0.0019
Mercury	66189-02-23 06:15 G	25896149.60	25896149.76	25896149.93	0.0141	0.0047
Venus	66189-05-11 21:36 G	25896227.28	25896227.40	25896227.54	0.0141	0.0114
Mercury	66189-05-22 12:43 G	25896237.89	25896238.03	25896238.19	0.0141	0.0075
Mercury	66189-08-18 19:12 G	25896326.20	25896326.30	25896326.44	0.0141	0.0104
Mercury	66189-11-15 01:55 G	25896414.53	25896414.58	25896414.66	0.0141	0.0132
Earth	66190-01-03 02:53 G	25896463.55	25896463.62	25896463.74	0.0141	0.0131
Moon	66190-01-03 06:00 G	25896463.66	25896463.75	25896463.89	0.0141	0.0126 *
Moon	66191-01-07 19:41 G	25896833.14	25896833.32	25896833.53	0.0141	0.0088
Earth	66191-01-07 23:17 G	25896833.27	25896833.47	25896833.70	0.0141	0.0080 *
Earth	66192-01-12 18:29 G	25897203.03	25897203.27	25897203.53	0.0140	0.0029
Moon	66192-01-12 22:19 G	25897203.17	25897203.43	25897203.68	0.0140	0.0021 *

Moon	66193-01-16 09:36 G	25897572.65	25897572.90	25897573.16	0.0140	0.0017
Earth	66193-01-16 13:12 G	25897572.80	25897573.05	25897573.30	0.0140	0.0022 *
Earth	66194-01-21 06:29 G	25897942.57	25897942.77	25897943.00	0.0139	0.0072
Moon	66194-01-21 10:19 G	25897942.73	25897942.93	25897943.16	0.0139	0.0074 *
Moon	66195-01-25 20:10 G	25898312.23	25898312.34	25898312.46	0.0139	0.0123
Earth	66195-01-25 23:17 G	25898312.37	25898312.47	25898312.62	0.0139	0.0121 *
Venus	66229-01-04 13:27 G	25910708.96	25910709.06	25910709.19	0.0136	0.0114
Venus	66229-08-18 19:55 G	25910935.17	25910935.33	25910935.52	0.0136	0.0081
Venus	66230-04-02 03:07 G	25911161.43	25911161.63	25911161.84	0.0136	0.0047
Venus	66230-11-14 10:05 G	25911387.70	25911387.92	25911388.14	0.0136	0.0013
Mercury	66230-12-17 03:51 G	25911420.61	25911420.66	25911420.71	0.0136	0.0127
Mercury	66231-03-15 07:41 G	25911508.73	25911508.82	25911508.91	0.0136	0.0106
Mercury	66231-06-11 11:31 G	25911596.87	25911596.98	25911597.09	0.0136	0.0086
Venus	66231-06-28 17:03 G	25911613.99	25911614.21	25911614.42	0.0136	0.0021
Mercury	66231-09-07 15:22 G	25911685.02	25911685.14	25911685.27	0.0137	0.0065
Mercury	66231-12-04 19:12 G	25911773.17	25911773.30	25911773.44	0.0137	0.0045
Venus	66232-02-10 00:00 G	25911840.30	25911840.50	25911840.70	0.0137	0.0055
Mercury	66232-03-01 23:03 G	25911861.32	25911861.46	25911861.60	0.0137	0.0025
Mercury	66232-05-29 02:53 G	25911949.47	25911949.62	25911949.76	0.0137	0.0005
Mercury	66232-08-25 06:29 G	25912037.63	25912037.77	25912037.91	0.0137	0.0016
Venus	66232-09-23 07:12 G	25912066.64	25912066.80	25912066.97	0.0137	0.0089
Mercury	66232-11-21 10:19 G	25912125.79	25912125.93	25912126.07	0.0137	0.0036
Mercury	66233-02-17 13:55 G	25912213.96	25912214.08	25912214.21	0.0137	0.0056
Venus	66233-05-07 14:53 G	25912293.03	25912293.12	25912293.21	0.0137	0.0123
Mercury	66233-05-16 17:31 G	25912302.12	25912302.23	25912302.35	0.0137	0.0076
Earth	66233-07-01 16:34 G	25912348.19	25912348.19	25912348.22	0.0137	0.0137
Moon	66233-07-01 18:15 G	25912348.21	25912348.26	25912348.36	0.0137	0.0131 *
Mercury	66233-08-12 21:22 G	25912390.29	25912390.39	25912390.49	0.0137	0.0096
Mercury	66233-11-09 00:58 G	25912478.47	25912478.54	25912478.62	0.0137	0.0115
Mercury	66234-02-05 04:34 G	25912566.68	25912566.69	25912566.72	0.0137	0.0135

Moon	66234-07-06 02:39 G	25912717.45	25912717.61	25912717.81	0.0137	0.0096
Earth	66234-07-06 04:34 G	25912717.50	25912717.69	25912717.88	0.0137	0.0091 *
Earth	66235-07-10 16:48 G	25913086.97	25913087.20	25913087.45	0.0138	0.0044
Moon	66235-07-10 19:12 G	25913087.05	25913087.30	25913087.55	0.0138	0.0045 *
Moon	66236-07-14 03:51 G	25913456.42	25913456.66	25913456.91	0.0138	0.0008
Earth	66236-07-14 06:15 G	25913456.50	25913456.76	25913457.01	0.0138	0.0004 *
Earth	66237-07-18 20:10 G	25913826.10	25913826.34	25913826.57	0.0139	0.0052
Moon	66237-07-18 22:34 G	25913826.20	25913826.44	25913826.69	0.0139	0.0046 *
Moon	66238-07-23 07:27 G	25914195.68	25914195.81	25914195.98	0.0139	0.0109
Earth	66238-07-23 10:19 G	25914195.78	25914195.93	25914196.13	0.0139	0.0101 *
Venus	66269-04-22 15:51 G	25925427.10	25925427.16	25925427.25	0.0143	0.0134
Venus	66269-12-05 02:39 G	25925653.46	25925653.61	25925653.78	0.0142	0.0095
Venus	66270-07-19 13:12 G	25925879.86	25925880.05	25925880.26	0.0142	0.0056
Venus	66271-03-02 23:46 G	25926106.28	25926106.49	25926106.71	0.0142	0.0017
Mercury	66271-07-07 16:48 G	25926233.15	25926233.20	25926233.25	0.0142	0.0134
Mercury	66271-10-03 22:48 G	25926321.35	25926321.45	25926321.57	0.0142	0.0108
Venus	66271-10-15 10:05 G	25926332.71	25926332.92	25926333.14	0.0142	0.0022
Mercury	66271-12-31 05:17 G	25926409.59	25926409.72	25926409.87	0.0142	0.0081
Mercury	66272-03-28 11:46 G	25926497.83	25926497.99	25926498.15	0.0142	0.0053
Venus	66272-05-28 20:10 G	25926559.15	25926559.34	25926559.55	0.0142	0.0060
Mercury	66272-06-24 18:15 G	25926586.09	25926586.26	25926586.43	0.0142	0.0026
Mercury	66272-09-21 00:43 G	25926674.36	25926674.53	25926674.71	0.0142	0.0004
Mercury	66272-12-18 07:12 G	25926762.64	25926762.80	25926762.98	0.0141	0.0030
Venus	66273-01-10 06:00 G	25926785.61	25926785.75	25926785.92	0.0141	0.0098
Mercury	66273-03-16 13:41 G	25926850.92	25926851.07	25926851.24	0.0141	0.0058
Mercury	66273-06-12 20:24 G	25926939.22	25926939.35	25926939.50	0.0141	0.0085
Venus	66273-08-24 16:05 G	25927012.11	25927012.17	25927012.24	0.0141	0.0134
Mercury	66273-09-09 02:53 G	25927027.53	25927027.62	25927027.74	0.0141	0.0114
Mercury	66273-12-06 10:05 G	25927115.92	25927115.92	25927115.92	0.0141	0.0141
Earth	66274-01-04 15:07 G	25927145.03	25927145.13	25927145.26	0.0141	0.0124

Moon	66274-01-04 18:15 G	25927145.18	25927145.26	25927145.38	0.0141	0.0130	*
Moon	66275-01-09 08:39 G	25927514.64	25927514.86	25927515.08	0.0141	0.0066	
Earth	66275-01-09 11:31 G	25927514.77	25927514.98	25927515.20	0.0141	0.0073	*
Earth	66276-01-14 06:43 G	25927884.53	25927884.78	25927885.04	0.0140	0.0022	
Moon	66276-01-14 10:19 G	25927884.68	25927884.93	25927885.18	0.0140	0.0029	*
Moon	66277-01-17 21:51 G	25928254.17	25928254.41	25928254.66	0.0140	0.0035	
Earth	66277-01-18 01:27 G	25928254.31	25928254.56	25928254.81	0.0140	0.0029	*
Earth	66278-01-22 18:58 G	25928624.09	25928624.29	25928624.51	0.0139	0.0079	
Moon	66278-01-22 22:48 G	25928624.24	25928624.45	25928624.66	0.0139	0.0077	*
Moon	66279-01-27 08:24 G	25928993.75	25928993.85	25928993.97	0.0139	0.0124	
Earth	66279-01-27 11:46 G	25928993.91	25928993.99	25928994.12	0.0139	0.0128	*
Mars	66294-07-01 17:17 G	25934627.91	25934628.22	25934628.54	0.0134	0.0020	
Venus	66312-09-04 23:03 G	25941267.40	25941267.46	25941267.54	0.0136	0.0128	
Venus	66313-04-19 05:46 G	25941493.60	25941493.74	25941493.90	0.0136	0.0095	
Venus	66313-12-01 12:15 G	25941719.83	25941720.01	25941720.22	0.0136	0.0062	
Venus	66314-07-15 19:12 G	25941946.09	25941946.30	25941946.52	0.0136	0.0028	
Mercury	66315-01-07 11:03 G	25942121.90	25942121.96	25942122.03	0.0136	0.0120	
Venus	66315-02-27 02:10 G	25942172.37	25942172.59	25942172.81	0.0136	0.0006	
Mercury	66315-04-05 14:39 G	25942210.03	25942210.11	25942210.22	0.0136	0.0101	
Mercury	66315-07-02 18:43 G	25942298.17	25942298.28	25942298.40	0.0136	0.0079	
Mercury	66315-09-28 22:34 G	25942386.32	25942386.44	25942386.57	0.0136	0.0059	
Venus	66315-10-11 09:07 G	25942398.68	25942398.88	25942399.09	0.0136	0.0040	
Mercury	66315-12-26 02:24 G	25942474.47	25942474.60	25942474.74	0.0137	0.0039	
Mercury	66316-03-23 06:15 G	25942562.62	25942562.76	25942562.90	0.0137	0.0019	
Venus	66316-05-24 16:19 G	25942625.00	25942625.18	25942625.37	0.0137	0.0074	
Mercury	66316-06-19 10:05 G	25942650.78	25942650.92	25942651.06	0.0137	0.0002	
Mercury	66316-09-15 13:41 G	25942738.94	25942739.07	25942739.22	0.0137	0.0023	
Mercury	66316-12-12 17:31 G	25942827.10	25942827.23	25942827.37	0.0137	0.0042	
Venus	66317-01-05 23:46 G	25942851.36	25942851.49	25942851.62	0.0137	0.0108	
Mercury	66317-03-10 21:07 G	25942915.26	25942915.38	25942915.51	0.0137	0.0062	

Mercury	66317-06-07 00:58 G	25943003.43	25943003.54	25943003.65	0.0137	0.0082
Earth	66317-07-03 03:07 G	25943029.58	25943029.63	25943029.72	0.0137	0.0131
Moon	66317-07-03 04:05 G	25943029.67	25943029.67	25943029.69	0.0137	0.0137 *
Mercury	66317-09-03 04:34 G	25943091.60	25943091.69	25943091.79	0.0137	0.0102
Mercury	66317-11-30 08:24 G	25943179.78	25943179.85	25943179.91	0.0137	0.0122
Moon	66318-07-07 13:27 G	25943398.88	25943399.06	25943399.27	0.0137	0.0082
Earth	66318-07-07 14:53 G	25943398.94	25943399.12	25943399.33	0.0137	0.0086 *
Earth	66319-07-12 03:22 G	25943768.41	25943768.64	25943768.89	0.0138	0.0039
Moon	66319-07-12 04:48 G	25943768.46	25943768.70	25943768.96	0.0138	0.0039 *
Moon	66320-07-15 15:07 G	25944137.89	25944138.13	25944138.38	0.0138	0.0006
Earth	66320-07-15 16:48 G	25944137.95	25944138.20	25944138.46	0.0138	0.0009 *
Earth	66321-07-20 06:15 G	25944507.55	25944507.76	25944508.01	0.0138	0.0058
Moon	66321-07-20 08:39 G	25944507.64	25944507.86	25944508.10	0.0138	0.0064 *
Moon	66322-07-24 18:58 G	25944877.13	25944877.29	25944877.48	0.0139	0.0099
Earth	66322-07-24 20:53 G	25944877.23	25944877.37	25944877.55	0.0139	0.0106 *
Mars	66336-11-26 12:58 G	25950115.84	25950116.04	25950116.28	0.0144	0.0098
Venus	66353-08-05 10:34 G	25956211.82	25956211.94	25956212.09	0.0143	0.0112
Venus	66354-03-19 21:22 G	25956438.22	25956438.39	25956438.59	0.0142	0.0073
Venus	66354-11-01 08:24 G	25956664.63	25956664.85	25956665.06	0.0142	0.0034
Venus	66355-06-15 18:43 G	25956891.06	25956891.28	25956891.50	0.0142	0.0005
Mercury	66355-07-29 00:15 G	25956934.44	25956934.51	25956934.60	0.0142	0.0125
Mercury	66355-10-25 06:43 G	25957022.66	25957022.78	25957022.91	0.0142	0.0098
Mercury	66356-01-21 12:58 G	25957110.90	25957111.04	25957111.20	0.0142	0.0071
Venus	66356-01-28 04:48 G	25957117.50	25957117.70	25957117.91	0.0142	0.0044
Mercury	66356-04-18 19:27 G	25957199.15	25957199.31	25957199.48	0.0142	0.0044
Mercury	66356-07-16 01:55 G	25957287.41	25957287.58	25957287.76	0.0142	0.0017
Venus	66356-09-10 14:53 G	25957343.95	25957344.12	25957344.30	0.0142	0.0082
Mercury	66356-10-12 08:39 G	25957375.68	25957375.86	25957376.03	0.0142	0.0012
Mercury	66357-01-08 15:07 G	25957463.96	25957464.13	25957464.30	0.0141	0.0039
Mercury	66357-04-06 21:36 G	25957552.25	25957552.40	25957552.56	0.0141	0.0067

Venus	66357-04-25 00:43 G	25957570.43	25957570.53	25957570.66	0.0141	0.0119
Mercury	66357-07-04 04:05 G	25957640.55	25957640.67	25957640.81	0.0141	0.0096
Mercury	66357-09-30 10:48 G	25957728.88	25957728.95	25957729.04	0.0141	0.0123
Earth	66358-01-06 03:07 G	25957826.52	25957826.63	25957826.79	0.0141	0.0119
Moon	66358-01-06 05:31 G	25957826.60	25957826.73	25957826.91	0.0141	0.0114 *
Moon	66359-01-10 20:39 G	25958196.16	25958196.36	25958196.59	0.0141	0.0074
Earth	66359-01-10 23:46 G	25958196.28	25958196.49	25958196.73	0.0141	0.0067 *
Earth	66360-01-15 19:12 G	25958566.05	25958566.30	25958566.56	0.0140	0.0016
Moon	66360-01-15 22:34 G	25958566.18	25958566.44	25958566.70	0.0140	0.0008 *
Moon	66361-01-19 10:48 G	25958935.71	25958935.95	25958936.20	0.0140	0.0030
Earth	66361-01-19 14:10 G	25958935.84	25958936.09	25958936.34	0.0140	0.0035 *
Earth	66362-01-24 07:55 G	25959305.64	25959305.83	25959306.04	0.0139	0.0085
Moon	66362-01-24 11:46 G	25959305.79	25959305.99	25959306.19	0.0139	0.0087 *
Moon	66363-01-28 21:22 G	25959675.34	25959675.39	25959675.47	0.0139	0.0134
Earth	66363-01-29 00:43 G	25959675.48	25959675.53	25959675.62	0.0139	0.0133
Venus	66396-12-17 16:05 G	25972052.05	25972052.17	25972052.31	0.0136	0.0109
Venus	66397-07-31 22:34 G	25972278.27	25972278.44	25972278.64	0.0136	0.0076
Venus	66398-03-15 05:31 G	25972504.53	25972504.73	25972504.94	0.0136	0.0042
Venus	66398-10-27 12:29 G	25972730.80	25972731.02	25972731.24	0.0136	0.0008
Mercury	66398-10-31 14:24 G	25972735.09	25972735.10	25972735.14	0.0136	0.0134
Mercury	66399-01-27 18:29 G	25972823.20	25972823.27	25972823.36	0.0136	0.0113
Mercury	66399-04-25 22:19 G	25972911.33	25972911.43	25972911.54	0.0136	0.0092
Venus	66399-06-10 19:27 G	25972957.09	25972957.31	25972957.52	0.0136	0.0026
Mercury	66399-07-23 02:24 G	25972999.48	25972999.60	25972999.72	0.0136	0.0072
Mercury	66399-10-19 06:00 G	25973087.63	25973087.75	25973087.89	0.0136	0.0052
Mercury	66400-01-15 10:05 G	25973175.78	25973175.92	25973176.06	0.0136	0.0031
Venus	66400-01-23 02:24 G	25973183.41	25973183.60	25973183.80	0.0136	0.0060
Mercury	66400-04-12 13:41 G	25973263.93	25973264.07	25973264.22	0.0137	0.0012
Mercury	66400-07-09 17:31 G	25973352.09	25973352.23	25973352.38	0.0137	0.0010
Venus	66400-09-05 09:36 G	25973409.75	25973409.90	25973410.06	0.0137	0.0094

Mercury	66400-10-05 21:22 G	25973440.25	25973440.39	25973440.53	0.0137	0.0030
Mercury	66401-01-02 00:58 G	25973528.41	25973528.54	25973528.68	0.0137	0.0050
Mercury	66401-03-31 04:48 G	25973616.58	25973616.70	25973616.82	0.0137	0.0070
Venus	66401-04-19 17:03 G	25973636.15	25973636.21	25973636.29	0.0137	0.0128
Mercury	66401-06-27 08:24 G	25973704.75	25973704.85	25973704.96	0.0137	0.0090
Earth	66401-07-03 15:22 G	25973711.06	25973711.14	25973711.26	0.0137	0.0125
Moon	66401-07-03 16:05 G	25973711.06	25973711.17	25973711.32	0.0137	0.0118 *
Mercury	66401-09-23 12:15 G	25973792.93	25973793.01	25973793.09	0.0137	0.0109
Mercury	66401-12-20 15:36 G	25973881.12	25973881.15	25973881.20	0.0137	0.0130
Moon	66402-07-08 02:53 G	25974080.44	25974080.62	25974080.83	0.0137	0.0084
Earth	66402-07-08 03:07 G	25974080.44	25974080.63	25974080.85	0.0137	0.0079 *
Earth	66403-07-12 15:51 G	25974449.92	25974450.16	25974450.41	0.0138	0.0032
Moon	66403-07-12 17:03 G	25974449.96	25974450.21	25974450.47	0.0138	0.0032 *
Moon	66404-07-16 03:51 G	25974819.42	25974819.66	25974819.90	0.0138	0.0018
Earth	66404-07-16 05:03 G	25974819.46	25974819.71	25974819.96	0.0138	0.0015 *
Earth	66405-07-20 18:29 G	25975189.06	25975189.27	25975189.51	0.0138	0.0064
Moon	66405-07-20 20:10 G	25975189.11	25975189.34	25975189.58	0.0138	0.0058 *
Moon	66406-07-25 07:12 G	25975558.68	25975558.80	25975558.93	0.0139	0.0119
Earth	66406-07-25 09:22 G	25975558.74	25975558.89	25975559.04	0.0139	0.0111 *
Mars	66421-07-23 00:43 G	25981035.32	25981035.53	25981035.76	0.0144	0.0098
Venus	66437-04-04 18:58 G	25986770.20	25986770.29	25986770.39	0.0143	0.0128
Venus	66437-11-17 05:46 G	25986996.58	25986996.74	25986996.92	0.0143	0.0089
Venus	66438-07-01 16:19 G	25987222.99	25987223.18	25987223.39	0.0142	0.0050
Venus	66439-02-13 03:07 G	25987449.41	25987449.63	25987449.84	0.0142	0.0011
Mercury	66439-05-22 01:41 G	25987547.57	25987547.57	25987547.59	0.0142	0.0142
Mercury	66439-08-18 07:55 G	25987635.74	25987635.83	25987635.94	0.0142	0.0115
Venus	66439-09-27 13:27 G	25987675.85	25987676.06	25987676.28	0.0142	0.0027
Mercury	66439-11-14 14:24 G	25987723.97	25987724.10	25987724.24	0.0142	0.0088
Mercury	66440-02-10 20:53 G	25987812.22	25987812.37	25987812.53	0.0142	0.0061
Mercury	66440-05-09 03:22 G	25987900.47	25987900.64	25987900.81	0.0142	0.0033

Venus	66440-05-10 23:31 G	25987902.30	25987902.48	25987902.68	0.0142	0.0066
Mercury	66440-08-05 09:51 G	25987988.74	25987988.91	25987989.08	0.0142	0.0006
Mercury	66440-11-01 16:19 G	25988077.01	25988077.18	25988077.35	0.0142	0.0022
Venus	66440-12-23 09:36 G	25988128.76	25988128.90	25988129.06	0.0141	0.0103
Mercury	66441-01-28 22:48 G	25988165.29	25988165.45	25988165.62	0.0141	0.0050
Mercury	66441-04-27 05:31 G	25988253.58	25988253.73	25988253.88	0.0141	0.0078
Mercury	66441-07-24 12:15 G	25988341.89	25988342.01	25988342.12	0.0141	0.0106
Venus	66441-08-06 19:41 G	25988355.30	25988355.32	25988355.34	0.0141	0.0141
Mercury	66441-10-20 18:29 G	25988430.23	25988430.27	25988430.34	0.0141	0.0134
Earth	66442-01-06 15:51 G	25988508.02	25988508.16	25988508.33	0.0141	0.0111
Moon	66442-01-06 18:00 G	25988508.13	25988508.25	25988508.42	0.0141	0.0116 *
Moon	66443-01-11 10:05 G	25988877.69	25988877.92	25988878.15	0.0141	0.0054
Earth	66443-01-11 12:15 G	25988877.79	25988878.01	25988878.25	0.0141	0.0060 *
Earth	66444-01-16 07:55 G	25989247.58	25989247.83	25989248.09	0.0140	0.0009
Moon	66444-01-16 11:03 G	25989247.70	25989247.96	25989248.22	0.0140	0.0016 *
Moon	66445-01-19 23:46 G	25989617.26	25989617.49	25989617.73	0.0140	0.0048
Earth	66445-01-20 02:53 G	25989617.38	25989617.62	25989617.87	0.0140	0.0041 *
Earth	66446-01-24 20:39 G	25989987.17	25989987.36	25989987.56	0.0140	0.0091
Moon	66446-01-24 23:46 G	25989987.30	25989987.49	25989987.70	0.0140	0.0089 *
Moon	66447-01-29 10:05 G	25990356.90	25990356.92	25990356.96	0.0139	0.0138
Earth	66447-01-29 13:41 G	25990357.07	25990357.07	25990357.09	0.0139	0.0139
Mars	66461-11-18 23:17 G	25995764.23	25995764.47	25995764.76	0.0135	0.0075
Venus	66480-08-17 02:24 G	26002610.51	26002610.60	26002610.69	0.0135	0.0122
Venus	66481-03-31 08:53 G	26002836.71	26002836.87	26002837.04	0.0136	0.0089
Venus	66481-11-12 15:22 G	26003062.95	26003063.14	26003063.35	0.0136	0.0056
Venus	66482-06-26 22:19 G	26003289.21	26003289.43	26003289.64	0.0136	0.0022
Mercury	66482-11-20 21:51 G	26003436.37	26003436.41	26003436.47	0.0136	0.0126
Venus	66483-02-08 05:03 G	26003515.49	26003515.71	26003515.93	0.0136	0.0012
Mercury	66483-02-17 01:55 G	26003524.49	26003524.58	26003524.67	0.0136	0.0106
Mercury	66483-05-16 05:46 G	26003612.63	26003612.74	26003612.86	0.0136	0.0085

Mercury	66483-08-12 09:51 G	26003700.78	26003700.91	26003701.03	0.0136	0.0065
Venus	66483-09-22 12:00 G	26003741.80	26003742.00	26003742.21	0.0136	0.0046
Mercury	66483-11-08 13:27 G	26003788.93	26003789.06	26003789.20	0.0136	0.0045
Mercury	66484-02-04 17:17 G	26003877.08	26003877.22	26003877.37	0.0136	0.0024
Mercury	66484-05-02 21:07 G	26003965.24	26003965.38	26003965.53	0.0136	0.0005
Venus	66484-05-05 19:12 G	26003968.13	26003968.30	26003968.48	0.0136	0.0080
Mercury	66484-07-30 00:58 G	26004053.40	26004053.54	26004053.68	0.0137	0.0016
Mercury	66484-10-26 04:48 G	26004141.56	26004141.70	26004141.83	0.0137	0.0037
Venus	66484-12-18 02:24 G	26004194.49	26004194.60	26004194.73	0.0137	0.0114
Mercury	66485-01-22 08:24 G	26004229.72	26004229.85	26004229.98	0.0137	0.0057
Mercury	66485-04-20 12:00 G	26004317.89	26004318.00	26004318.12	0.0137	0.0077
Moon	66485-07-04 02:10 G	26004392.51	26004392.59	26004392.71	0.0137	0.0126
Earth	66485-07-04 03:07 G	26004392.51	26004392.63	26004392.76	0.0137	0.0119 *
Mercury	66485-07-17 15:51 G	26004406.06	26004406.16	26004406.26	0.0137	0.0096
Mercury	66485-10-13 19:27 G	26004494.24	26004494.31	26004494.39	0.0137	0.0116
Mercury	66486-01-09 23:03 G	26004582.45	26004582.46	26004582.48	0.0137	0.0136
Moon	66486-07-08 14:24 G	26004761.90	26004762.10	26004762.31	0.0137	0.0070
Earth	66486-07-08 14:53 G	26004761.91	26004762.12	26004762.33	0.0137	0.0074 *
Moon	66487-07-13 02:53 G	26005131.38	26005131.62	26005131.89	0.0138	0.0030
Earth	66487-07-13 03:07 G	26005131.38	26005131.63	26005131.88	0.0138	0.0027 *
Moon	66488-07-16 15:22 G	26005500.90	26005501.14	26005501.38	0.0138	0.0018
Earth	66488-07-16 16:05 G	26005500.92	26005501.17	26005501.42	0.0138	0.0020 *
Earth	66489-07-21 05:17 G	26005870.51	26005870.72	26005870.95	0.0138	0.0068
Moon	66489-07-21 06:29 G	26005870.56	26005870.77	26005871.00	0.0138	0.0073 *
Moon	66490-07-25 18:43 G	26006240.15	26006240.28	26006240.44	0.0139	0.0110
Earth	66490-07-25 19:41 G	26006240.20	26006240.32	26006240.47	0.0139	0.0116 *
Venus	66521-07-18 13:27 G	26017554.93	26017555.06	26017555.22	0.0143	0.0106
Venus	66522-03-02 00:15 G	26017781.33	26017781.51	26017781.72	0.0143	0.0067
Venus	66522-10-14 11:17 G	26018007.76	26018007.97	26018008.19	0.0142	0.0027
Venus	66523-05-28 21:51 G	26018234.19	26018234.41	26018234.63	0.0142	0.0011

Mercury	66523-06-12 09:22 G	26018248.84	26018248.89	26018248.96	0.0142	0.0133
Mercury	66523-09-08 15:51 G	26018337.05	26018337.16	26018337.28	0.0142	0.0105
Mercury	66523-12-05 22:19 G	26018425.29	26018425.43	26018425.57	0.0142	0.0078
Venus	66524-01-10 08:10 G	26018460.64	26018460.84	26018461.05	0.0142	0.0050
Mercury	66524-03-03 04:34 G	26018513.53	26018513.69	26018513.86	0.0142	0.0051
Mercury	66524-05-30 11:03 G	26018601.79	26018601.96	26018602.13	0.0142	0.0024
Venus	66524-08-23 18:15 G	26018687.10	26018687.26	26018687.44	0.0142	0.0088
Mercury	66524-08-26 17:31 G	26018690.06	26018690.23	26018690.41	0.0142	0.0005
Mercury	66524-11-23 00:15 G	26018778.34	26018778.51	26018778.68	0.0142	0.0032
Mercury	66525-02-19 06:43 G	26018866.62	26018866.78	26018866.94	0.0142	0.0060
Venus	66525-04-07 04:19 G	26018913.59	26018913.68	26018913.78	0.0141	0.0126
Mercury	66525-05-18 13:12 G	26018954.92	26018955.05	26018955.19	0.0141	0.0088
Mercury	66525-08-14 19:55 G	26019043.24	26019043.33	26019043.43	0.0141	0.0116
Earth	66526-01-08 04:19 G	26019189.52	26019189.68	26019189.85	0.0141	0.0106
Moon	66526-01-08 05:46 G	26019189.56	26019189.74	26019189.92	0.0141	0.0103 *
Moon	66527-01-12 22:34 G	26019559.22	26019559.44	26019559.67	0.0141	0.0061
Earth	66527-01-13 00:58 G	26019559.31	26019559.54	26019559.78	0.0141	0.0054 *
Earth	66528-01-17 20:39 G	26019929.11	26019929.36	26019929.62	0.0140	0.0003
Moon	66528-01-17 23:03 G	26019929.20	26019929.46	26019929.72	0.0140	0.0005 *
Moon	66529-01-21 12:29 G	26020298.80	26020299.02	26020299.27	0.0140	0.0042
Earth	66529-01-21 15:36 G	26020298.91	26020299.15	26020299.40	0.0140	0.0047 *
Earth	66530-01-26 09:22 G	26020668.72	26020668.89	26020669.09	0.0140	0.0097
Moon	66530-01-26 12:43 G	26020668.86	26020669.03	26020669.22	0.0140	0.0100 *
Mars	66546-07-16 06:00 G	26026683.55	26026683.75	26026683.97	0.0134	0.0099
Venus	66564-04-17 13:12 G	26033169.05	26033169.05	26033169.08	0.0135	0.0135
Venus	66564-11-29 19:55 G	26033395.19	26033395.33	26033395.47	0.0136	0.0102
Venus	66565-07-14 02:10 G	26033621.41	26033621.59	26033621.79	0.0136	0.0069
Venus	66566-02-25 08:53 G	26033847.67	26033847.87	26033848.09	0.0136	0.0036
Venus	66566-10-09 15:51 G	26034073.94	26034074.16	26034074.38	0.0136	0.0002
Mercury	66566-12-12 05:31 G	26034137.67	26034137.73	26034137.81	0.0136	0.0118

Mercury	66567-03-10 09:36 G	26034225.80	26034225.90	26034226.00	0.0136	0.0097
Venus	66567-05-23 22:48 G	26034300.24	26034300.45	26034300.66	0.0136	0.0032
Mercury	66567-06-06 13:27 G	26034313.95	26034314.06	26034314.18	0.0136	0.0077
Mercury	66567-09-02 17:17 G	26034402.10	26034402.22	26034402.36	0.0136	0.0057
Mercury	66567-11-29 21:07 G	26034490.25	26034490.38	26034490.52	0.0136	0.0036
Venus	66568-01-05 05:46 G	26034526.56	26034526.74	26034526.94	0.0136	0.0066
Mercury	66568-02-26 00:58 G	26034578.40	26034578.54	26034578.69	0.0136	0.0016
Mercury	66568-05-24 04:48 G	26034666.56	26034666.70	26034666.85	0.0137	0.0005
Venus	66568-08-18 12:43 G	26034752.90	26034753.03	26034753.19	0.0137	0.0101
Mercury	66568-08-20 08:39 G	26034754.72	26034754.86	26034755.00	0.0137	0.0025
Mercury	66568-11-16 12:15 G	26034842.88	26034843.01	26034843.15	0.0137	0.0045
Mercury	66569-02-12 16:05 G	26034931.05	26034931.17	26034931.30	0.0137	0.0065
Venus	66569-04-01 20:10 G	26034979.32	26034979.34	26034979.39	0.0137	0.0135
Mercury	66569-05-11 19:41 G	26035019.22	26035019.32	26035019.44	0.0137	0.0085
Moon	66569-07-05 15:22 G	26035073.99	26035074.14	26035074.32	0.0137	0.0106
Earth	66569-07-05 16:05 G	26035074.04	26035074.17	26035074.32	0.0137	0.0113 *
Mercury	66569-08-07 23:17 G	26035107.39	26035107.47	26035107.57	0.0137	0.0105
Mercury	66569-11-04 03:07 G	26035195.58	26035195.63	26035195.69	0.0137	0.0124
Earth	66570-07-10 03:36 G	26035443.44	26035443.65	26035443.88	0.0137	0.0068
Moon	66570-07-10 04:19 G	26035443.48	26035443.68	26035443.90	0.0137	0.0074 *
Moon	66571-07-14 15:51 G	26035812.90	26035813.16	26035813.42	0.0138	0.0019
Earth	66571-07-14 15:51 G	26035812.91	26035813.16	26035813.41	0.0138	0.0021 *
Earth	66572-07-18 04:34 G	26036182.44	26036182.69	26036182.94	0.0138	0.0026
Moon	66572-07-18 04:34 G	26036182.45	26036182.69	26036182.93	0.0138	0.0027 *
Moon	66573-07-22 18:15 G	26036552.04	26036552.26	26036552.50	0.0138	0.0069
Earth	66573-07-22 18:00 G	26036552.05	26036552.25	26036552.47	0.0138	0.0074 *
Moon	66574-07-27 07:12 G	26036921.73	26036921.80	26036921.91	0.0139	0.0129
Earth	66574-07-27 08:24 G	26036921.74	26036921.85	26036921.98	0.0139	0.0121 *
Mars	66588-12-09 22:34 G	26042171.14	26042171.44	26042171.74	0.0144	0.0028
Venus	66605-03-18 21:51 G	26048113.32	26048113.41	26048113.54	0.0143	0.0122

Venus	66605-10-31 08:53 G	26048339.71	26048339.87	26048340.06	0.0143	0.0083
Venus	66606-06-14 19:55 G	26048566.13	26048566.33	26048566.54	0.0142	0.0043
Venus	66607-01-27 06:29 G	26048792.56	26048792.77	26048792.99	0.0142	0.0006
Mercury	66607-07-03 17:17 G	26048950.14	26048950.22	26048950.32	0.0142	0.0122
Venus	66607-09-10 17:03 G	26049019.00	26049019.21	26049019.42	0.0142	0.0034
Mercury	66607-09-29 23:31 G	26049038.37	26049038.48	26049038.62	0.0142	0.0095
Mercury	66607-12-27 06:00 G	26049126.61	26049126.75	26049126.91	0.0142	0.0068
Mercury	66608-03-24 12:29 G	26049214.86	26049215.02	26049215.19	0.0142	0.0041
Venus	66608-04-24 03:07 G	26049245.46	26049245.63	26049245.83	0.0142	0.0073
Mercury	66608-06-20 18:58 G	26049303.12	26049303.29	26049303.47	0.0142	0.0013
Mercury	66608-09-17 01:41 G	26049391.39	26049391.57	26049391.74	0.0142	0.0015
Venus	66608-12-06 13:27 G	26049471.93	26049472.06	26049472.20	0.0142	0.0111
Mercury	66608-12-14 08:10 G	26049479.67	26049479.84	26049480.01	0.0142	0.0043
Mercury	66609-03-12 14:39 G	26049567.96	26049568.11	26049568.27	0.0142	0.0071
Mercury	66609-06-08 21:22 G	26049656.27	26049656.39	26049656.52	0.0141	0.0099
Mercury	66609-09-05 04:05 G	26049744.59	26049744.67	26049744.74	0.0141	0.0127
Earth	66610-01-09 17:03 G	26049871.04	26049871.21	26049871.41	0.0141	0.0100
Moon	66610-01-09 18:43 G	26049871.10	26049871.28	26049871.46	0.0141	0.0103 *
Moon	66611-01-14 12:29 G	26050240.79	26050241.02	26050241.26	0.0141	0.0043
Earth	66611-01-14 13:55 G	26050240.84	26050241.08	26050241.32	0.0141	0.0048 *
Earth	66612-01-19 09:36 G	26050610.65	26050610.90	26050611.16	0.0140	0.0003
Moon	66612-01-19 12:00 G	26050610.74	26050611.00	26050611.26	0.0140	0.0005 *
Moon	66613-01-23 02:10 G	26050980.37	26050980.59	26050980.82	0.0140	0.0060
Earth	66613-01-23 04:19 G	26050980.46	26050980.68	26050980.93	0.0140	0.0053 *
Earth	66614-01-27 22:19 G	26051350.27	26051350.43	26051350.61	0.0140	0.0102
Moon	66614-01-28 01:12 G	26051350.37	26051350.55	26051350.74	0.0140	0.0099 *
Venus	66648-07-31 06:29 G	26063953.66	26063953.77	26063953.89	0.0135	0.0115
Venus	66649-03-14 12:58 G	26064179.88	26064180.04	26064180.22	0.0136	0.0082
Venus	66649-10-26 19:27 G	26064406.12	26064406.31	26064406.53	0.0136	0.0049
Venus	66650-06-10 02:24 G	26064632.38	26064632.60	26064632.82	0.0136	0.0015

Mercury	66650-10-06 09:22 G	26064750.86	26064750.89	26064750.93	0.0136	0.0130
Mercury	66651-01-02 13:12 G	26064838.97	26064839.05	26064839.14	0.0136	0.0110
Venus	66651-01-22 09:07 G	26064858.67	26064858.88	26064859.10	0.0136	0.0019
Mercury	66651-03-31 17:17 G	26064927.11	26064927.22	26064927.33	0.0136	0.0089
Mercury	66651-06-27 21:07 G	26065015.26	26065015.38	26065015.51	0.0136	0.0069
Venus	66651-09-05 15:51 G	26065084.97	26065085.16	26065085.38	0.0136	0.0054
Mercury	66651-09-24 00:58 G	26065103.41	26065103.54	26065103.68	0.0136	0.0048
Mercury	66651-12-21 04:48 G	26065191.56	26065191.70	26065191.84	0.0136	0.0028
Mercury	66652-03-18 08:39 G	26065279.72	26065279.86	26065280.00	0.0136	0.0008
Venus	66652-04-18 23:31 G	26065311.31	26065311.48	26065311.64	0.0136	0.0087
Mercury	66652-06-14 12:29 G	26065367.88	26065368.02	26065368.16	0.0136	0.0012
Mercury	66652-09-10 16:05 G	26065456.04	26065456.17	26065456.31	0.0137	0.0033
Venus	66652-12-01 06:29 G	26065537.68	26065537.77	26065537.88	0.0137	0.0121
Mercury	66652-12-07 19:55 G	26065544.20	26065544.33	26065544.46	0.0137	0.0052
Mercury	66653-03-05 23:31 G	26065632.37	26065632.48	26065632.61	0.0137	0.0072
Mercury	66653-06-02 03:22 G	26065720.54	26065720.64	26065720.75	0.0137	0.0092
Moon	66653-07-07 02:39 G	26065755.48	26065755.61	26065755.76	0.0137	0.0115
Earth	66653-07-07 04:19 G	26065755.54	26065755.68	26065755.85	0.0137	0.0108 *
Mercury	66653-08-29 06:58 G	26065808.72	26065808.79	26065808.88	0.0137	0.0112
Mercury	66653-11-25 10:48 G	26065896.91	26065896.95	26065896.99	0.0137	0.0131
Earth	66654-07-11 15:51 G	26066124.94	26066125.16	26066125.39	0.0137	0.0063
Moon	66654-07-11 16:34 G	26066124.97	26066125.19	26066125.42	0.0137	0.0058 *
Moon	66655-07-16 02:39 G	26066494.35	26066494.61	26066494.87	0.0138	0.0020
Earth	66655-07-16 03:36 G	26066494.41	26066494.65	26066494.91	0.0138	0.0017 *
Earth	66656-07-19 16:05 G	26066863.94	26066864.17	26066864.43	0.0138	0.0031
Moon	66656-07-19 16:48 G	26066863.96	26066864.20	26066864.44	0.0138	0.0030 *
Moon	66657-07-24 05:17 G	26067233.52	26067233.72	26067233.94	0.0138	0.0083
Earth	66657-07-24 05:17 G	26067233.53	26067233.72	26067233.95	0.0138	0.0079 *
Moon	66658-07-28 19:41 G	26067603.21	26067603.32	26067603.45	0.0139	0.0120
Earth	66658-07-28 19:27 G	26067603.22	26067603.31	26067603.43	0.0139	0.0126 *

Venus	66688-11-16 06:00 G	26078671.71	26078671.75	26078671.82	0.0143	0.0138
Venus	66689-06-30 17:03 G	26078898.07	26078898.21	26078898.38	0.0143	0.0099
Venus	66690-02-12 04:05 G	26079124.48	26079124.67	26079124.87	0.0143	0.0060
Venus	66690-09-26 15:07 G	26079350.91	26079351.13	26079351.34	0.0142	0.0021
Mercury	66691-04-26 18:58 G	26079563.26	26079563.29	26079563.33	0.0142	0.0139
Venus	66691-05-11 01:41 G	26079577.35	26079577.57	26079577.79	0.0142	0.0018
Mercury	66691-07-24 00:58 G	26079651.45	26079651.54	26079651.66	0.0142	0.0112
Mercury	66691-10-20 07:27 G	26079739.68	26079739.81	26079739.96	0.0142	0.0085
Venus	66691-12-23 12:00 G	26079803.81	26079804.00	26079804.20	0.0142	0.0057
Mercury	66692-01-16 14:10 G	26079827.93	26079828.09	26079828.24	0.0142	0.0057
Mercury	66692-04-13 20:24 G	26079916.18	26079916.35	26079916.52	0.0142	0.0030
Mercury	66692-07-11 02:53 G	26080004.45	26080004.62	26080004.80	0.0142	0.0004
Venus	66692-08-05 22:05 G	26080030.27	26080030.42	26080030.59	0.0142	0.0096
Mercury	66692-10-07 09:22 G	26080092.72	26080092.89	26080093.07	0.0142	0.0026
Mercury	66693-01-03 15:51 G	26080181.01	26080181.16	26080181.33	0.0142	0.0054
Venus	66693-03-20 08:39 G	26080256.79	26080256.86	26080256.93	0.0142	0.0133
Mercury	66693-04-01 22:19 G	26080269.30	26080269.43	26080269.59	0.0142	0.0082
Mercury	66693-06-29 05:03 G	26080357.61	26080357.71	26080357.83	0.0141	0.0110
Mercury	66693-09-25 11:46 G	26080445.96	26080445.99	26080446.04	0.0141	0.0138
Earth	66694-01-10 05:46 G	26080552.56	26080552.74	26080552.94	0.0141	0.0094
Moon	66694-01-10 06:15 G	26080552.56	26080552.76	26080552.96	0.0141	0.0092 *
Moon	66695-01-15 01:12 G	26080922.33	26080922.55	26080922.79	0.0141	0.0049
Earth	66695-01-15 02:39 G	26080922.37	26080922.61	26080922.86	0.0141	0.0042 *
Earth	66696-01-19 22:34 G	26081292.19	26081292.44	26081292.70	0.0141	0.0009
Moon	66696-01-20 00:00 G	26081292.24	26081292.50	26081292.77	0.0141	0.0016 *
Moon	66697-01-23 15:36 G	26081661.92	26081662.15	26081662.38	0.0140	0.0053
Earth	66697-01-23 17:17 G	26081662.00	26081662.22	26081662.47	0.0140	0.0059 *
Earth	66698-01-28 11:03 G	26082031.82	26082031.96	26082032.15	0.0140	0.0108
Moon	66698-01-28 13:41 G	26082031.94	26082032.07	26082032.25	0.0140	0.0112 *
Mars	66713-12-04 15:36 G	26087819.84	26087820.15	26087820.47	0.0135	0.0006

Venus	66732-03-31 18:00 G	26094512.19	26094512.25	26094512.33	0.0135	0.0128
Venus	66732-11-13 00:29 G	26094738.37	26094738.52	26094738.68	0.0135	0.0095
Venus	66733-06-27 06:58 G	26094964.60	26094964.79	26094964.99	0.0136	0.0062
Venus	66734-02-08 13:41 G	26095190.86	26095191.07	26095191.28	0.0136	0.0028
Venus	66734-09-22 20:24 G	26095417.14	26095417.35	26095417.57	0.0136	0.0006
Mercury	66734-10-27 17:17 G	26095452.16	26095452.22	26095452.29	0.0136	0.0121
Mercury	66735-01-23 21:22 G	26095540.29	26095540.39	26095540.48	0.0136	0.0100
Mercury	66735-04-22 00:58 G	26095628.43	26095628.54	26095628.66	0.0136	0.0080
Venus	66735-05-07 03:22 G	26095643.44	26095643.64	26095643.85	0.0136	0.0040
Mercury	66735-07-19 05:03 G	26095716.58	26095716.71	26095716.84	0.0136	0.0060
Mercury	66735-10-15 08:53 G	26095804.73	26095804.87	26095805.01	0.0136	0.0039
Venus	66735-12-19 10:19 G	26095869.76	26095869.93	26095870.12	0.0136	0.0074
Mercury	66736-01-11 12:43 G	26095892.89	26095893.03	26095893.17	0.0136	0.0019
Mercury	66736-04-08 16:34 G	26095981.04	26095981.19	26095981.33	0.0136	0.0003
Mercury	66736-07-05 20:10 G	26096069.20	26096069.34	26096069.49	0.0136	0.0022
Venus	66736-08-01 17:31 G	26096096.10	26096096.23	26096096.37	0.0136	0.0108
Mercury	66736-10-02 00:00 G	26096157.37	26096157.50	26096157.64	0.0137	0.0041
Mercury	66736-12-29 03:36 G	26096245.53	26096245.65	26096245.78	0.0137	0.0062
Mercury	66737-03-27 07:27 G	26096333.70	26096333.81	26096333.93	0.0137	0.0081
Mercury	66737-06-23 11:03 G	26096421.87	26096421.96	26096422.06	0.0137	0.0101
Moon	66737-07-08 16:19 G	26096437.01	26096437.18	26096437.38	0.0137	0.0094
Earth	66737-07-08 18:15 G	26096437.09	26096437.26	26096437.43	0.0137	0.0101 *
Mercury	66737-09-19 14:39 G	26096510.06	26096510.11	26096510.18	0.0137	0.0121
Earth	66738-07-13 05:03 G	26096806.49	26096806.71	26096806.96	0.0137	0.0056
Moon	66738-07-13 07:12 G	26096806.58	26096806.80	26096807.02	0.0137	0.0062 *
Moon	66739-07-17 16:05 G	26097175.91	26097176.17	26097176.43	0.0138	0.0007
Earth	66739-07-17 17:17 G	26097175.97	26097176.22	26097176.47	0.0138	0.0010 *
Earth	66740-07-21 05:31 G	26097545.49	26097545.73	26097545.98	0.0138	0.0037
Moon	66740-07-21 06:43 G	26097545.55	26097545.78	26097546.02	0.0138	0.0037 *
Moon	66741-07-25 18:00 G	26097915.05	26097915.25	26097915.47	0.0138	0.0081

Earth	66741-07-25 18:43 G	26097915.10	26097915.28	26097915.50	0.0138	0.0084	*
Earth	66742-07-30 08:53 G	26098284.80	26098284.87	26098284.96	0.0139	0.0131	
Moon	66742-07-30 09:22 G	26098284.87	26098284.89	26098284.91	0.0139	0.0138	*
Venus	66773-03-01 01:55 G	26109456.46	26109456.58	26109456.71	0.0143	0.0115	
Venus	66773-10-13 12:58 G	26109682.86	26109683.04	26109683.23	0.0143	0.0076	
Venus	66774-05-28 00:00 G	26109909.29	26109909.50	26109909.71	0.0143	0.0037	
Venus	66775-01-09 10:48 G	26110135.73	26110135.95	26110136.16	0.0142	0.0003	
Mercury	66775-05-18 02:53 G	26110264.56	26110264.62	26110264.71	0.0142	0.0127	
Mercury	66775-08-14 09:22 G	26110352.77	26110352.89	26110353.01	0.0142	0.0100	
Venus	66775-08-23 21:07 G	26110362.18	26110362.38	26110362.59	0.0142	0.0041	
Mercury	66775-11-10 15:36 G	26110441.01	26110441.15	26110441.30	0.0142	0.0073	
Mercury	66776-02-06 22:05 G	26110529.26	26110529.42	26110529.59	0.0142	0.0046	
Venus	66776-04-06 07:27 G	26110588.64	26110588.81	26110589.00	0.0142	0.0080	
Mercury	66776-05-05 04:34 G	26110617.52	26110617.69	26110617.86	0.0142	0.0018	
Mercury	66776-08-01 11:03 G	26110705.79	26110705.96	26110706.14	0.0142	0.0009	
Mercury	66776-10-28 17:31 G	26110794.07	26110794.23	26110794.40	0.0142	0.0037	
Venus	66776-11-18 17:46 G	26110815.14	26110815.24	26110815.37	0.0142	0.0118	
Earth	66777-01-06 21:36 G	26110864.36	26110864.40	26110864.48	0.0142	0.0138	
Moon	66777-01-06 22:34 G	26110864.43	26110864.44	26110864.48	0.0142	0.0141	*
Mercury	66777-01-25 00:15 G	26110882.35	26110882.51	26110882.66	0.0142	0.0065	
Mercury	66777-04-23 06:43 G	26110970.65	26110970.78	26110970.91	0.0142	0.0093	
Mercury	66777-07-20 13:12 G	26111058.97	26111059.05	26111059.15	0.0141	0.0121	
Moon	66778-01-11 19:41 G	26111234.12	26111234.32	26111234.53	0.0141	0.0088	
Earth	66778-01-11 19:12 G	26111234.12	26111234.30	26111234.52	0.0141	0.0087	*
Moon	66779-01-16 16:05 G	26111603.93	26111604.17	26111604.41	0.0141	0.0030	
Earth	66779-01-16 16:19 G	26111603.93	26111604.18	26111604.43	0.0141	0.0035	*
Earth	66780-01-21 12:15 G	26111973.75	26111974.01	26111974.26	0.0141	0.0016	
Moon	66780-01-21 13:27 G	26111973.80	26111974.06	26111974.33	0.0141	0.0009	*
Moon	66781-01-25 05:46 G	26112343.53	26112343.74	26112343.95	0.0140	0.0073	
Earth	66781-01-25 06:58 G	26112343.57	26112343.79	26112344.02	0.0140	0.0065	*

Earth	66782-01-30 00:43 G	26112713.40	26112713.53	26112713.69	0.0140	0.0114
Moon	66782-01-30 02:39 G	26112713.47	26112713.61	26112713.79	0.0140	0.0110 *
Venus	66816-07-13 11:46 G	26125296.86	26125296.99	26125297.12	0.0135	0.0108
Venus	66817-02-24 18:15 G	26125523.08	26125523.26	26125523.44	0.0135	0.0075
Venus	66817-10-09 00:43 G	26125749.33	26125749.53	26125749.74	0.0136	0.0041
Venus	66818-05-23 07:41 G	26125975.60	26125975.82	26125976.04	0.0136	0.0008
Mercury	66818-08-20 20:53 G	26126065.35	26126065.37	26126065.41	0.0136	0.0133
Mercury	66818-11-17 00:58 G	26126153.47	26126153.54	26126153.63	0.0136	0.0112
Venus	66819-01-04 14:24 G	26126201.89	26126202.10	26126202.31	0.0136	0.0026
Mercury	66819-02-13 04:48 G	26126241.60	26126241.70	26126241.82	0.0136	0.0092
Mercury	66819-05-12 08:53 G	26126329.75	26126329.87	26126329.99	0.0136	0.0071
Mercury	66819-08-08 12:43 G	26126417.90	26126418.03	26126418.16	0.0136	0.0051
Venus	66819-08-18 21:07 G	26126428.19	26126428.38	26126428.58	0.0136	0.0060
Mercury	66819-11-04 16:34 G	26126506.05	26126506.19	26126506.33	0.0136	0.0031
Mercury	66820-01-31 20:24 G	26126594.21	26126594.35	26126594.49	0.0136	0.0011
Venus	66820-04-01 04:05 G	26126654.53	26126654.67	26126654.84	0.0136	0.0094
Mercury	66820-04-29 00:15 G	26126682.37	26126682.51	26126682.65	0.0136	0.0010
Moon	66820-07-04 22:34 G	26126749.40	26126749.44	26126749.52	0.0136	0.0133
Mercury	66820-07-26 04:05 G	26126770.53	26126770.67	26126770.80	0.0136	0.0030
Mercury	66820-10-22 07:41 G	26126858.69	26126858.82	26126858.95	0.0137	0.0050
Venus	66820-11-13 11:03 G	26126880.91	26126880.96	26126881.05	0.0137	0.0129
Mercury	66821-01-18 11:17 G	26126946.86	26126946.97	26126947.10	0.0137	0.0070
Mercury	66821-04-16 15:07 G	26127035.03	26127035.13	26127035.24	0.0137	0.0089
Moon	66821-07-09 04:19 G	26127118.52	26127118.68	26127118.87	0.0137	0.0102
Earth	66821-07-09 06:58 G	26127118.62	26127118.79	26127118.98	0.0137	0.0095 *
Mercury	66821-07-13 18:43 G	26127123.20	26127123.28	26127123.37	0.0137	0.0109
Mercury	66821-10-09 22:19 G	26127211.39	26127211.43	26127211.48	0.0137	0.0129
Earth	66822-07-13 18:00 G	26127488.03	26127488.25	26127488.50	0.0137	0.0050
Moon	66822-07-13 19:55 G	26127488.10	26127488.33	26127488.57	0.0137	0.0044 *
Moon	66823-07-18 03:36 G	26127857.40	26127857.65	26127857.92	0.0138	0.0009

Earth	66823-07-18 06:00 G	26127857.49	26127857.75	26127858.00	0.0138	0.0004	*
Earth	66824-07-21 18:00 G	26128227.02	26128227.25	26128227.50	0.0138	0.0043	
Moon	66824-07-21 19:41 G	26128227.09	26128227.32	26128227.56	0.0138	0.0043	*
Moon	66825-07-26 06:00 G	26128596.57	26128596.75	26128596.95	0.0138	0.0093	
Earth	66825-07-26 07:12 G	26128596.62	26128596.80	26128597.01	0.0138	0.0090	*
Earth	66826-07-30 20:53 G	26128966.35	26128966.37	26128966.43	0.0139	0.0137	
Moon	66826-07-30 22:05 G	26128966.37	26128966.42	26128966.52	0.0139	0.0132	*
Mars	66840-12-24 08:24 G	26134226.57	26134226.85	26134227.15	0.0144	0.0040	
Venus	66856-10-29 09:51 G	26140014.83	26140014.91	26140014.99	0.0143	0.0132	
Venus	66857-06-12 20:53 G	26140241.21	26140241.37	26140241.54	0.0143	0.0093	
Venus	66858-01-25 07:55 G	26140467.63	26140467.83	26140468.04	0.0143	0.0054	
Venus	66858-09-08 18:58 G	26140694.07	26140694.29	26140694.51	0.0142	0.0014	
Venus	66859-04-23 05:46 G	26140920.52	26140920.74	26140920.95	0.0142	0.0025	
Mercury	66859-06-07 10:48 G	26140965.86	26140965.95	26140966.05	0.0142	0.0117	
Mercury	66859-09-03 17:03 G	26141054.09	26141054.21	26141054.35	0.0142	0.0090	
Mercury	66859-11-30 23:31 G	26141142.33	26141142.48	26141142.64	0.0142	0.0063	
Venus	66859-12-05 16:19 G	26141146.98	26141147.18	26141147.37	0.0142	0.0063	
Mercury	66860-02-27 05:46 G	26141230.58	26141230.74	26141230.92	0.0142	0.0036	
Mercury	66860-05-25 12:29 G	26141318.84	26141319.02	26141319.19	0.0142	0.0009	
Venus	66860-07-19 02:24 G	26141373.46	26141373.60	26141373.76	0.0142	0.0102	
Mercury	66860-08-21 18:43 G	26141407.11	26141407.28	26141407.46	0.0142	0.0020	
Mercury	66860-11-18 01:12 G	26141495.39	26141495.55	26141495.72	0.0142	0.0048	
Earth	66861-01-07 10:05 G	26141545.84	26141545.92	26141546.03	0.0142	0.0131	
Moon	66861-01-07 10:48 G	26141545.87	26141545.95	26141546.07	0.0142	0.0129	*
Mercury	66861-02-14 07:41 G	26141583.69	26141583.82	26141583.98	0.0142	0.0076	
Venus	66861-03-02 12:29 G	26141600.01	26141600.02	26141600.07	0.0142	0.0140	
Mercury	66861-05-13 14:24 G	26141671.99	26141672.10	26141672.23	0.0142	0.0104	
Mercury	66861-08-09 21:07 G	26141760.32	26141760.38	26141760.45	0.0142	0.0132	
Moon	66862-01-12 06:43 G	26141915.57	26141915.78	26141916.01	0.0141	0.0080	
Earth	66862-01-12 07:55 G	26141915.62	26141915.83	26141916.04	0.0141	0.0080	*

Moon	66863-01-17 04:34 G	26142285.45	26142285.69	26142285.93	0.0141	0.0034
Earth	66863-01-17 04:34 G	26142285.45	26142285.69	26142285.95	0.0141	0.0029 *
Earth	66864-01-22 00:43 G	26142655.28	26142655.53	26142655.78	0.0141	0.0022
Moon	66864-01-22 00:58 G	26142655.28	26142655.54	26142655.80	0.0141	0.0029 *
Moon	66865-01-25 18:15 G	26143025.05	26143025.26	26143025.49	0.0140	0.0065
Earth	66865-01-25 19:27 G	26143025.10	26143025.31	26143025.54	0.0140	0.0071 *
Earth	66866-01-30 13:12 G	26143394.94	26143395.05	26143395.20	0.0140	0.0120
Moon	66866-01-30 15:07 G	26143395.02	26143395.13	26143395.26	0.0140	0.0124 *
Mars	66881-04-23 02:39 G	26148956.39	26148956.61	26148956.87	0.0135	0.0086
Venus	66900-03-13 23:17 G	26155855.38	26155855.47	26155855.58	0.0135	0.0120
Venus	66900-10-26 05:46 G	26156081.58	26156081.74	26156081.91	0.0135	0.0088
Venus	66901-06-09 12:15 G	26156307.82	26156308.01	26156308.22	0.0135	0.0054
Venus	66902-01-21 18:58 G	26156534.07	26156534.29	26156534.50	0.0136	0.0021
Venus	66902-09-05 01:41 G	26156760.35	26156760.57	26156760.78	0.0136	0.0013
Mercury	66902-09-11 05:03 G	26156766.65	26156766.71	26156766.77	0.0136	0.0123
Mercury	66902-12-08 08:53 G	26156854.78	26156854.87	26156854.97	0.0136	0.0103
Mercury	66903-03-06 12:43 G	26156942.92	26156943.03	26156943.15	0.0136	0.0083
Venus	66903-04-19 08:24 G	26156986.65	26156986.85	26156987.06	0.0136	0.0047
Mercury	66903-06-02 16:34 G	26157031.07	26157031.19	26157031.33	0.0136	0.0062
Mercury	66903-08-29 20:24 G	26157119.22	26157119.35	26157119.49	0.0136	0.0042
Mercury	66903-11-26 00:15 G	26157207.38	26157207.51	26157207.66	0.0136	0.0023
Venus	66903-12-01 15:22 G	26157212.97	26157213.14	26157213.32	0.0136	0.0081
Mercury	66904-02-22 04:19 G	26157295.53	26157295.68	26157295.82	0.0136	0.0004
Mercury	66904-05-20 07:55 G	26157383.69	26157383.83	26157383.98	0.0136	0.0019
Earth	66904-07-06 10:19 G	26157430.88	26157430.93	26157431.00	0.0136	0.0132
Venus	66904-07-14 22:19 G	26157439.32	26157439.43	26157439.55	0.0136	0.0115
Mercury	66904-08-16 11:46 G	26157471.85	26157471.99	26157472.13	0.0136	0.0039
Mercury	66904-11-12 15:22 G	26157560.02	26157560.14	26157560.27	0.0137	0.0059
Mercury	66905-02-08 18:58 G	26157648.19	26157648.29	26157648.42	0.0137	0.0079
Mercury	66905-05-07 22:48 G	26157736.36	26157736.45	26157736.55	0.0137	0.0098

Moon	66905-07-10 18:29 G	26157800.06	26157800.27	26157800.48	0.0137	0.0080
Earth	66905-07-10 20:39 G	26157800.18	26157800.36	26157800.56	0.0137	0.0088 *
Mercury	66905-08-04 02:24 G	26157824.54	26157824.60	26157824.68	0.0137	0.0118
Earth	66906-07-15 07:27 G	26158169.58	26158169.81	26158170.06	0.0137	0.0043
Moon	66906-07-15 10:05 G	26158169.70	26158169.92	26158170.16	0.0137	0.0050 *
Moon	66907-07-19 17:17 G	26158538.96	26158539.22	26158539.48	0.0137	0.0007
Earth	66907-07-19 19:27 G	26158539.06	26158539.31	26158539.56	0.0137	0.0003 *
Earth	66908-07-23 07:41 G	26158908.59	26158908.82	26158909.06	0.0138	0.0049
Moon	66908-07-23 09:36 G	26158908.68	26158908.90	26158909.14	0.0138	0.0049 *
Moon	66909-07-27 18:29 G	26159278.10	26159278.27	26159278.48	0.0138	0.0095
Earth	66909-07-27 20:39 G	26159278.19	26159278.36	26159278.56	0.0138	0.0096 *
Venus	66941-02-11 05:46 G	26170799.60	26170799.74	26170799.88	0.0143	0.0109
Venus	66941-09-25 16:48 G	26171026.02	26171026.20	26171026.40	0.0143	0.0070
Venus	66942-05-10 03:51 G	26171252.45	26171252.66	26171252.88	0.0143	0.0031
Venus	66942-12-22 14:39 G	26171478.90	26171479.11	26171479.33	0.0142	0.0009
Mercury	66943-04-01 12:43 G	26171578.97	26171579.03	26171579.09	0.0142	0.0133
Mercury	66943-06-28 18:58 G	26171667.18	26171667.29	26171667.41	0.0142	0.0106
Venus	66943-08-06 01:27 G	26171705.35	26171705.56	26171705.76	0.0142	0.0048
Mercury	66943-09-25 00:58 G	26171755.41	26171755.54	26171755.70	0.0142	0.0080
Mercury	66943-12-22 07:41 G	26171843.66	26171843.82	26171843.98	0.0142	0.0051
Venus	66944-03-19 11:46 G	26171931.82	26171931.99	26171932.17	0.0142	0.0086
Mercury	66944-03-19 14:10 G	26171931.92	26171932.09	26171932.26	0.0142	0.0024 *
Mercury	66944-06-15 20:39 G	26172020.18	26172020.36	26172020.53	0.0142	0.0005
Mercury	66944-09-12 02:53 G	26172108.46	26172108.62	26172108.80	0.0142	0.0032
Venus	66944-10-31 21:51 G	26172158.33	26172158.41	26172158.54	0.0142	0.0125
Mercury	66944-12-09 09:36 G	26172196.74	26172196.90	26172197.06	0.0142	0.0059
Earth	66945-01-08 23:17 G	26172227.36	26172227.47	26172227.61	0.0142	0.0124
Moon	66945-01-09 01:27 G	26172227.46	26172227.56	26172227.66	0.0142	0.0128 *
Mercury	66945-03-07 16:05 G	26172285.04	26172285.17	26172285.31	0.0142	0.0087
Mercury	66945-06-03 22:19 G	26172373.35	26172373.43	26172373.55	0.0142	0.0116

Moon	66946-01-13 20:24 G	26172597.12	26172597.35	26172597.58	0.0141	0.0074
Earth	66946-01-13 21:07 G	26172597.17	26172597.38	26172597.61	0.0141	0.0073 *
Earth	66947-01-18 18:00 G	26172967.00	26172967.25	26172967.51	0.0141	0.0022
Moon	66947-01-18 18:58 G	26172967.05	26172967.29	26172967.54	0.0141	0.0018 *
Earth	66948-01-23 13:55 G	26173336.83	26173337.08	26173337.33	0.0141	0.0029
Moon	66948-01-23 14:10 G	26173336.83	26173337.09	26173337.35	0.0141	0.0022 *
Earth	66949-01-27 08:53 G	26173706.66	26173706.87	26173707.09	0.0140	0.0078
Moon	66949-01-27 08:39 G	26173706.67	26173706.86	26173707.06	0.0140	0.0086 *
Earth	66950-02-01 02:53 G	26174076.52	26174076.62	26174076.74	0.0140	0.0126
Moon	66950-02-01 03:51 G	26174076.54	26174076.66	26174076.80	0.0140	0.0121 *
Mars	66965-12-18 07:55 G	26179875.62	26179875.83	26179876.09	0.0135	0.0088
Venus	66983-11-12 10:34 G	26186413.93	26186413.94	26186414.00	0.0135	0.0133
Venus	66984-06-25 17:03 G	26186640.08	26186640.21	26186640.37	0.0135	0.0100
Venus	66985-02-06 23:31 G	26186866.30	26186866.48	26186866.68	0.0135	0.0067
Venus	66985-09-21 06:15 G	26187092.55	26187092.76	26187092.97	0.0135	0.0034
Venus	66986-05-05 12:58 G	26187318.82	26187319.04	26187319.26	0.0136	0.0002
Mercury	66986-07-05 08:39 G	26187379.86	26187379.86	26187379.88	0.0136	0.0135
Mercury	66986-10-01 12:29 G	26187467.96	26187468.02	26187468.11	0.0136	0.0115
Venus	66986-12-17 19:27 G	26187545.10	26187545.31	26187545.53	0.0136	0.0034
Mercury	66986-12-28 16:34 G	26187556.09	26187556.19	26187556.30	0.0136	0.0094
Mercury	66987-03-26 20:24 G	26187644.24	26187644.35	26187644.48	0.0136	0.0074
Mercury	66987-06-23 00:29 G	26187732.39	26187732.52	26187732.65	0.0136	0.0053
Venus	66987-08-01 02:10 G	26187771.41	26187771.59	26187771.78	0.0136	0.0067
Mercury	66987-09-19 04:19 G	26187820.54	26187820.68	26187820.82	0.0136	0.0033
Mercury	66987-12-16 08:10 G	26187908.70	26187908.84	26187908.98	0.0136	0.0013
Mercury	66988-03-13 12:00 G	26187996.85	26187997.00	26187997.14	0.0136	0.0007
Venus	66988-03-14 09:07 G	26187997.74	26187997.88	26187998.03	0.0136	0.0101
Mercury	66988-06-09 15:36 G	26188085.01	26188085.15	26188085.29	0.0136	0.0027
Earth	66988-07-06 23:31 G	26188112.39	26188112.48	26188112.58	0.0136	0.0126
Moon	66988-07-07 02:10 G	26188112.50	26188112.59	26188112.73	0.0136	0.0120 *

Mercury	66988-09-05 19:27 G	26188173.18	26188173.31	26188173.45	0.0136	0.0047
Venus	66988-10-26 15:51 G	26188224.15	26188224.16	26188224.20	0.0136	0.0136
Mercury	66988-12-02 23:17 G	26188261.34	26188261.47	26188261.59	0.0136	0.0067
Mercury	66989-03-01 02:53 G	26188349.51	26188349.62	26188349.73	0.0137	0.0086
Mercury	66989-05-28 06:43 G	26188437.69	26188437.78	26188437.86	0.0137	0.0106
Moon	66989-07-11 06:29 G	26188481.58	26188481.77	26188481.97	0.0137	0.0089
Earth	66989-07-11 09:36 G	26188481.71	26188481.90	26188482.11	0.0137	0.0082 *
Mercury	66989-08-24 10:05 G	26188525.88	26188525.92	26188525.98	0.0137	0.0126
Earth	66990-07-15 20:24 G	26188851.12	26188851.35	26188851.61	0.0137	0.0037
Moon	66990-07-15 23:17 G	26188851.23	26188851.47	26188851.71	0.0137	0.0031 *
Moon	66991-07-20 05:17 G	26189220.46	26189220.72	26189220.98	0.0137	0.0004
Earth	66991-07-20 08:10 G	26189220.59	26189220.84	26189221.10	0.0137	0.0009 *
Earth	66992-07-23 20:24 G	26189590.12	26189590.35	26189590.59	0.0138	0.0055
Moon	66992-07-23 22:34 G	26189590.23	26189590.44	26189590.68	0.0138	0.0057 *
Moon	66993-07-28 06:58 G	26189959.64	26189959.79	26189959.98	0.0138	0.0105
Earth	66993-07-28 09:22 G	26189959.74	26189959.89	26189960.08	0.0138	0.0102 *

68TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 68th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	67008-05-14 08:10 G		26195362.61	26195362.84	26195363.11	0.0143	0.0081	
Venus	67024-10-12 13:27 G		26201357.96	26201358.06	26201358.16	0.0143	0.0126	
Venus	67025-05-27 00:29 G		26201584.36	26201584.52	26201584.70	0.0143	0.0087	

Venus	67026-01-08 11:31 G	26201810.78	26201810.98	26201811.19	0.0143	0.0048
Venus	67026-08-22 22:34 G	26202037.22	26202037.44	26202037.66	0.0143	0.0008
Venus	67027-04-06 09:22 G	26202263.68	26202263.89	26202264.10	0.0142	0.0031
Mercury	67027-04-22 20:10 G	26202280.27	26202280.34	26202280.43	0.0142	0.0124
Mercury	67027-07-20 02:24 G	26202368.49	26202368.60	26202368.74	0.0142	0.0097
Mercury	67027-10-16 08:53 G	26202456.72	26202456.87	26202457.02	0.0142	0.0069
Venus	67027-11-18 19:55 G	26202490.15	26202490.33	26202490.53	0.0142	0.0070
Mercury	67028-01-12 15:07 G	26202544.97	26202545.13	26202545.30	0.0142	0.0043
Mercury	67028-04-09 21:36 G	26202633.23	26202633.40	26202633.58	0.0142	0.0015
Venus	67028-07-02 06:29 G	26202716.63	26202716.77	26202716.91	0.0142	0.0108
Mercury	67028-07-07 04:05 G	26202721.50	26202721.67	26202721.85	0.0142	0.0014
Mercury	67028-10-03 10:34 G	26202809.78	26202809.94	26202810.11	0.0142	0.0041
Mercury	67028-12-30 17:03 G	26202898.07	26202898.21	26202898.37	0.0142	0.0069
Earth	67029-01-10 11:17 G	26202908.83	26202908.97	26202909.11	0.0142	0.0118
Moon	67029-01-10 12:58 G	26202908.91	26202909.04	26202909.20	0.0142	0.0115 *
Mercury	67029-03-28 23:31 G	26202986.36	26202986.48	26202986.62	0.0142	0.0097
Mercury	67029-06-25 06:15 G	26203074.69	26203074.76	26203074.85	0.0142	0.0125
Moon	67030-01-15 06:58 G	26203278.56	26203278.79	26203279.02	0.0141	0.0068
Earth	67030-01-15 08:39 G	26203278.65	26203278.86	26203279.10	0.0141	0.0068 *
Earth	67031-01-20 05:46 G	26203648.49	26203648.74	26203649.00	0.0141	0.0017
Moon	67031-01-20 06:43 G	26203648.54	26203648.78	26203649.03	0.0141	0.0021 *
Moon	67032-01-25 00:43 G	26204018.29	26204018.53	26204018.80	0.0141	0.0041
Earth	67032-01-25 01:55 G	26204018.33	26204018.58	26204018.83	0.0141	0.0034 *
Moon	67033-01-28 20:53 G	26204388.17	26204388.37	26204388.58	0.0140	0.0077
Earth	67033-01-28 20:53 G	26204388.17	26204388.37	26204388.58	0.0140	0.0083 *
Earth	67034-02-02 14:53 G	26204758.06	26204758.12	26204758.23	0.0140	0.0132
Moon	67034-02-02 15:36 G	26204758.11	26204758.15	26204758.21	0.0140	0.0137 *
Jupiter	67066-04-24 04:48 G	26216526.43	26216526.70	26216527.06	0.0135	0.0104
Venus	67068-02-25 04:48 G	26217198.59	26217198.70	26217198.83	0.0135	0.0112
Venus	67068-10-08 11:17 G	26217424.80	26217424.97	26217425.15	0.0135	0.0080

Venus	67069-05-22 17:31 G	26217651.04	26217651.23	26217651.44	0.0135	0.0047
Venus	67070-01-04 00:15 G	26217877.29	26217877.51	26217877.73	0.0136	0.0013
Mercury	67070-07-26 16:34 G	26218081.14	26218081.19	26218081.25	0.0136	0.0126
Venus	67070-08-18 06:43 G	26218103.57	26218103.78	26218104.00	0.0136	0.0021
Mercury	67070-10-22 20:24 G	26218169.27	26218169.35	26218169.45	0.0136	0.0106
Mercury	67071-01-19 00:29 G	26218257.41	26218257.52	26218257.63	0.0136	0.0085
Venus	67071-04-01 13:12 G	26218329.86	26218330.05	26218330.26	0.0136	0.0055
Mercury	67071-04-17 04:19 G	26218345.56	26218345.68	26218345.81	0.0136	0.0065
Mercury	67071-07-14 08:10 G	26218433.71	26218433.84	26218433.98	0.0136	0.0045
Mercury	67071-10-10 12:00 G	26218521.86	26218522.00	26218522.14	0.0136	0.0025
Venus	67071-11-13 20:10 G	26218556.18	26218556.34	26218556.51	0.0136	0.0088
Mercury	67072-01-06 15:51 G	26218610.02	26218610.16	26218610.31	0.0136	0.0005
Mercury	67072-04-03 19:41 G	26218698.18	26218698.32	26218698.46	0.0136	0.0016
Venus	67072-06-27 02:53 G	26218782.54	26218782.62	26218782.73	0.0136	0.0123
Mercury	67072-06-30 23:31 G	26218786.34	26218786.48	26218786.62	0.0136	0.0036
Earth	67072-07-08 12:43 G	26218793.93	26218794.03	26218794.17	0.0136	0.0120
Moon	67072-07-08 16:05 G	26218794.09	26218794.17	26218794.29	0.0136	0.0125 *
Mercury	67072-09-27 03:07 G	26218874.50	26218874.63	26218874.76	0.0136	0.0056
Mercury	67072-12-24 06:43 G	26218962.67	26218962.78	26218962.91	0.0136	0.0076
Mercury	67073-03-22 10:34 G	26219050.84	26219050.94	26219051.05	0.0137	0.0095
Mercury	67073-06-18 14:10 G	26219139.02	26219139.09	26219139.17	0.0137	0.0115
Moon	67073-07-12 19:55 G	26219163.12	26219163.33	26219163.57	0.0137	0.0068
Earth	67073-07-12 23:03 G	26219163.27	26219163.46	26219163.69	0.0137	0.0076 *
Mercury	67073-09-14 18:00 G	26219227.23	26219227.25	26219227.28	0.0137	0.0134
Earth	67074-07-17 10:05 G	26219532.67	26219532.92	26219533.17	0.0137	0.0030
Moon	67074-07-17 13:12 G	26219532.82	26219533.05	26219533.30	0.0137	0.0038 *
Moon	67075-07-21 18:43 G	26219902.03	26219902.28	26219902.54	0.0137	0.0020
Earth	67075-07-21 21:36 G	26219902.15	26219902.40	26219902.66	0.0137	0.0015 *
Earth	67076-07-25 09:36 G	26220271.69	26220271.90	26220272.14	0.0138	0.0062
Moon	67076-07-25 12:43 G	26220271.82	26220272.03	26220272.26	0.0138	0.0060 *

Moon	67077-07-29 19:55 G	26220641.19	26220641.33	26220641.51	0.0138	0.0107
Earth	67077-07-29 22:48 G	26220641.31	26220641.45	26220641.62	0.0138	0.0108 *
Mars	67093-01-07 23:17 G	26226282.32	26226282.47	26226282.65	0.0144	0.0119
Venus	67108-06-12 22:05 G	26231916.41	26231916.42	26231916.44	0.0143	0.0143
Venus	67109-01-25 09:07 G	26232142.74	26232142.88	26232143.04	0.0143	0.0103
Venus	67109-09-08 20:39 G	26232369.16	26232369.36	26232369.55	0.0143	0.0063
Venus	67110-04-23 07:27 G	26232595.60	26232595.81	26232596.03	0.0143	0.0024
Venus	67110-12-05 18:15 G	26232822.05	26232822.26	26232822.48	0.0143	0.0016
Mercury	67111-02-14 21:51 G	26232893.39	26232893.41	26232893.46	0.0143	0.0140
Mercury	67111-05-14 04:19 G	26232981.58	26232981.68	26232981.79	0.0142	0.0112
Venus	67111-07-20 04:48 G	26233048.51	26233048.70	26233048.91	0.0142	0.0055
Mercury	67111-08-10 10:34 G	26233069.81	26233069.94	26233070.08	0.0142	0.0086
Mercury	67111-11-06 16:48 G	26233158.05	26233158.20	26233158.36	0.0142	0.0059
Mercury	67112-02-02 23:17 G	26233246.31	26233246.47	26233246.64	0.0142	0.0031
Venus	67112-03-02 15:22 G	26233274.98	26233275.14	26233275.31	0.0142	0.0093
Mercury	67112-05-01 05:46 G	26233334.57	26233334.74	26233334.91	0.0142	0.0004
Mercury	67112-07-28 12:15 G	26233422.84	26233423.01	26233423.18	0.0142	0.0024
Venus	67112-10-15 01:55 G	26233501.51	26233501.58	26233501.66	0.0142	0.0131
Mercury	67112-10-24 18:43 G	26233511.12	26233511.28	26233511.44	0.0142	0.0052
Earth	67113-01-12 00:00 G	26233590.36	26233590.50	26233590.67	0.0142	0.0112
Moon	67113-01-12 02:53 G	26233590.49	26233590.62	26233590.77	0.0142	0.0117 *
Mercury	67113-01-21 01:12 G	26233599.41	26233599.55	26233599.70	0.0142	0.0080
Mercury	67113-04-19 07:41 G	26233687.71	26233687.82	26233687.94	0.0142	0.0108
Mercury	67113-07-16 14:24 G	26233776.06	26233776.10	26233776.15	0.0142	0.0136
Moon	67114-01-16 19:55 G	26233960.10	26233960.33	26233960.58	0.0142	0.0061
Earth	67114-01-16 22:05 G	26233960.19	26233960.42	26233960.65	0.0142	0.0061 *
Earth	67115-01-21 18:58 G	26234330.03	26234330.29	26234330.55	0.0141	0.0010
Moon	67115-01-21 20:53 G	26234330.12	26234330.37	26234330.62	0.0141	0.0007 *
Moon	67116-01-26 13:41 G	26234699.82	26234700.07	26234700.34	0.0141	0.0034
Earth	67116-01-26 14:53 G	26234699.88	26234700.12	26234700.37	0.0141	0.0040 *

Earth	67117-01-30 09:51 G	26235069.73	26235069.91	26235070.12	0.0140	0.0089
Moon	67117-01-30 10:34 G	26235069.78	26235069.94	26235070.13	0.0140	0.0098 *
Moon	67118-02-04 03:51 G	26235439.60	26235439.66	26235439.77	0.0140	0.0132
Earth	67118-02-04 04:05 G	26235439.65	26235439.67	26235439.74	0.0140	0.0138 *
Mars	67133-05-08 21:07 G	26241012.07	26241012.38	26241012.69	0.0135	0.0002
Venus	67151-10-26 16:48 G	26247757.12	26247757.20	26247757.28	0.0135	0.0124
Venus	67152-06-08 22:34 G	26247983.30	26247983.44	26247983.62	0.0135	0.0093
Venus	67153-01-21 05:17 G	26248209.52	26248209.72	26248209.91	0.0135	0.0059
Venus	67153-09-04 11:31 G	26248435.77	26248435.98	26248436.20	0.0135	0.0026
Venus	67154-04-18 18:15 G	26248662.04	26248662.26	26248662.48	0.0136	0.0008
Mercury	67154-08-17 00:29 G	26248782.45	26248782.52	26248782.59	0.0136	0.0117
Mercury	67154-11-13 04:19 G	26248870.58	26248870.68	26248870.78	0.0136	0.0097
Venus	67154-12-01 00:43 G	26248888.33	26248888.53	26248888.74	0.0136	0.0042
Mercury	67155-02-09 08:10 G	26248958.73	26248958.84	26248958.97	0.0136	0.0077
Mercury	67155-05-08 12:15 G	26249046.88	26249047.01	26249047.14	0.0136	0.0056
Venus	67155-07-15 07:27 G	26249114.63	26249114.81	26249114.99	0.0136	0.0075
Mercury	67155-08-04 16:05 G	26249135.03	26249135.17	26249135.31	0.0136	0.0036
Mercury	67155-10-31 19:55 G	26249223.18	26249223.33	26249223.47	0.0136	0.0016
Mercury	67156-01-27 23:31 G	26249311.34	26249311.48	26249311.63	0.0136	0.0007
Venus	67156-02-26 13:55 G	26249340.97	26249341.08	26249341.22	0.0136	0.0110
Mercury	67156-04-25 03:22 G	26249399.50	26249399.64	26249399.78	0.0136	0.0024
Earth	67156-07-10 02:39 G	26249475.48	26249475.61	26249475.75	0.0136	0.0114
Moon	67156-07-10 05:46 G	26249475.61	26249475.74	26249475.92	0.0136	0.0108 *
Mercury	67156-07-22 07:12 G	26249487.67	26249487.80	26249487.94	0.0136	0.0044
Mercury	67156-10-18 11:03 G	26249575.83	26249575.96	26249576.08	0.0136	0.0064
Mercury	67157-01-14 14:39 G	26249664.00	26249664.11	26249664.22	0.0136	0.0083
Mercury	67157-04-12 18:15 G	26249752.18	26249752.26	26249752.36	0.0137	0.0103
Mercury	67157-07-09 22:05 G	26249840.36	26249840.42	26249840.48	0.0137	0.0123
Moon	67157-07-14 09:07 G	26249844.68	26249844.88	26249845.10	0.0137	0.0077
Earth	67157-07-14 12:29 G	26249844.82	26249845.02	26249845.25	0.0137	0.0070 *

Earth	67158-07-18 23:17 G	26250214.23	26250214.47	26250214.73	0.0137	0.0025
Moon	67158-07-19 02:39 G	26250214.36	26250214.61	26250214.86	0.0137	0.0018 *
Moon	67159-07-23 07:27 G	26250583.56	26250583.81	26250584.07	0.0137	0.0015
Earth	67159-07-23 10:48 G	26250583.71	26250583.95	26250584.21	0.0137	0.0022 *
Earth	67160-07-26 23:17 G	26250953.25	26250953.47	26250953.69	0.0138	0.0067
Moon	67160-07-27 01:55 G	26250953.38	26250953.58	26250953.81	0.0138	0.0070 *
Moon	67161-07-31 08:53 G	26251322.75	26251322.87	26251323.03	0.0138	0.0115
Earth	67161-07-31 12:29 G	26251322.88	26251323.02	26251323.16	0.0138	0.0113 *
Jupiter	67190-08-27 07:41 G	26261941.35	26261941.82	26261942.34	0.0144	0.0061
Venus	67192-09-24 16:34 G	26262701.09	26262701.19	26262701.32	0.0143	0.0121
Venus	67193-05-09 04:05 G	26262927.49	26262927.67	26262927.85	0.0143	0.0081
Venus	67193-12-21 15:07 G	26263153.92	26263154.13	26263154.34	0.0143	0.0041
Venus	67194-08-05 01:55 G	26263380.36	26263380.58	26263380.80	0.0143	0.0002
Mercury	67195-03-07 05:31 G	26263594.67	26263594.73	26263594.80	0.0143	0.0131
Venus	67195-03-19 12:43 G	26263606.82	26263607.03	26263607.24	0.0143	0.0038
Mercury	67195-06-03 11:46 G	26263682.88	26263682.99	26263683.11	0.0143	0.0104
Mercury	67195-08-30 18:00 G	26263771.11	26263771.25	26263771.40	0.0142	0.0077
Venus	67195-10-31 23:31 G	26263833.30	26263833.48	26263833.66	0.0142	0.0077
Mercury	67195-11-27 00:29 G	26263859.36	26263859.52	26263859.68	0.0142	0.0049
Mercury	67196-02-23 06:43 G	26263947.62	26263947.78	26263947.96	0.0142	0.0023
Mercury	67196-05-21 13:12 G	26264035.88	26264036.05	26264036.23	0.0142	0.0006
Venus	67196-06-14 09:36 G	26264059.79	26264059.90	26264060.04	0.0142	0.0116
Mercury	67196-08-17 19:41 G	26264124.15	26264124.32	26264124.49	0.0142	0.0033
Mercury	67196-11-14 02:10 G	26264212.44	26264212.59	26264212.75	0.0142	0.0061
Earth	67197-01-12 11:03 G	26264271.81	26264271.96	26264272.15	0.0142	0.0107
Moon	67197-01-12 14:10 G	26264271.93	26264272.09	26264272.27	0.0142	0.0102 *
Mercury	67197-02-10 08:39 G	26264300.73	26264300.86	26264301.00	0.0142	0.0089
Mercury	67197-05-09 15:07 G	26264389.04	26264389.13	26264389.24	0.0142	0.0117
Moon	67198-01-17 06:00 G	26264641.53	26264641.75	26264642.01	0.0142	0.0059
Earth	67198-01-17 09:22 G	26264641.66	26264641.89	26264642.13	0.0142	0.0056 *

Earth	67199-01-22 06:15 G	26265011.50	26265011.76	26265012.01	0.0141	0.0005
Moon	67199-01-22 08:10 G	26265011.59	26265011.84	26265012.09	0.0141	0.0009 *
Moon	67200-01-27 00:15 G	26265381.27	26265381.51	26265381.76	0.0141	0.0051
Earth	67200-01-27 02:10 G	26265381.36	26265381.59	26265381.84	0.0141	0.0045 *
Earth	67201-01-30 21:22 G	26265751.22	26265751.39	26265751.59	0.0140	0.0095
Moon	67201-01-30 22:34 G	26265751.26	26265751.44	26265751.64	0.0140	0.0088 *
Venus	67236-02-07 10:34 G	26278541.81	26278541.94	26278542.08	0.0135	0.0104
Venus	67236-09-20 16:48 G	26278768.02	26278768.20	26278768.39	0.0135	0.0071
Venus	67237-05-04 23:03 G	26278994.26	26278994.46	26278994.68	0.0135	0.0039
Venus	67237-12-17 05:31 G	26279220.52	26279220.73	26279220.95	0.0136	0.0006
Mercury	67238-06-10 04:05 G	26279395.64	26279395.67	26279395.73	0.0136	0.0129
Venus	67238-07-31 12:00 G	26279446.79	26279447.00	26279447.22	0.0136	0.0029
Mercury	67238-09-06 08:10 G	26279483.76	26279483.84	26279483.93	0.0136	0.0108
Mercury	67238-12-03 12:00 G	26279571.90	26279572.00	26279572.12	0.0136	0.0088
Mercury	67239-03-01 15:51 G	26279660.05	26279660.16	26279660.30	0.0136	0.0068
Venus	67239-03-14 18:29 G	26279673.09	26279673.27	26279673.47	0.0136	0.0063
Mercury	67239-05-28 19:55 G	26279748.20	26279748.33	26279748.47	0.0136	0.0047
Mercury	67239-08-24 23:46 G	26279836.35	26279836.49	26279836.64	0.0136	0.0027
Venus	67239-10-27 01:27 G	26279899.41	26279899.56	26279899.72	0.0136	0.0096
Mercury	67239-11-21 03:36 G	26279924.51	26279924.65	26279924.80	0.0136	0.0008
Mercury	67240-02-17 07:27 G	26280012.67	26280012.81	26280012.95	0.0136	0.0013
Mercury	67240-05-15 11:17 G	26280100.83	26280100.97	26280101.11	0.0136	0.0033
Venus	67240-06-09 08:10 G	26280125.79	26280125.84	26280125.91	0.0136	0.0131
Earth	67240-07-10 16:05 G	26280157.03	26280157.17	26280157.34	0.0136	0.0107
Moon	67240-07-10 19:41 G	26280157.19	26280157.32	26280157.47	0.0136	0.0112 *
Mercury	67240-08-11 14:53 G	26280188.99	26280189.12	26280189.26	0.0136	0.0053
Mercury	67240-11-07 18:43 G	26280277.16	26280277.28	26280277.40	0.0136	0.0073
Mercury	67241-02-03 22:19 G	26280365.33	26280365.43	26280365.54	0.0136	0.0092
Mercury	67241-05-03 02:10 G	26280453.51	26280453.59	26280453.67	0.0137	0.0112
Moon	67241-07-14 22:48 G	26280526.23	26280526.45	26280526.69	0.0137	0.0056

Earth	67241-07-15 02:10 G	26280526.38	26280526.59	26280526.83	0.0137	0.0064 *
Mercury	67241-07-30 05:31 G	26280541.71	26280541.73	26280541.78	0.0137	0.0132
Earth	67242-07-19 13:12 G	26280895.80	26280896.05	26280896.30	0.0137	0.0018
Moon	67242-07-19 16:48 G	26280895.95	26280896.20	26280896.45	0.0137	0.0026 *
Moon	67243-07-23 21:22 G	26281265.15	26281265.39	26281265.64	0.0137	0.0033
Earth	67243-07-24 00:43 G	26281265.28	26281265.53	26281265.78	0.0137	0.0027 *
Earth	67244-07-27 12:43 G	26281634.83	26281635.03	26281635.26	0.0138	0.0074
Moon	67244-07-27 16:19 G	26281634.98	26281635.18	26281635.40	0.0138	0.0071 *
Moon	67245-07-31 22:34 G	26282004.33	26282004.44	26282004.58	0.0138	0.0119
Earth	67245-08-01 01:55 G	26282004.47	26282004.58	26282004.72	0.0138	0.0119 *
Mars	67260-05-27 23:46 G	26287418.18	26287418.49	26287418.80	0.0143	0.0002
Venus	67276-05-25 01:27 G	26293259.50	26293259.56	26293259.62	0.0143	0.0137
Venus	67277-01-06 12:29 G	26293485.87	26293486.02	26293486.19	0.0143	0.0097
Venus	67277-08-20 23:46 G	26293712.29	26293712.49	26293712.69	0.0143	0.0057
Venus	67278-04-04 10:48 G	26293938.73	26293938.95	26293939.17	0.0143	0.0018
Venus	67278-11-16 21:36 G	26294165.19	26294165.40	26294165.62	0.0143	0.0022
Mercury	67279-03-27 13:27 G	26294295.98	26294296.06	26294296.16	0.0143	0.0120
Mercury	67279-06-23 19:55 G	26294384.20	26294384.33	26294384.46	0.0143	0.0093
Venus	67279-07-01 08:24 G	26294391.65	26294391.85	26294392.05	0.0142	0.0061
Mercury	67279-09-20 02:10 G	26294472.44	26294472.59	26294472.74	0.0142	0.0066
Mercury	67279-12-17 08:24 G	26294560.69	26294560.85	26294561.02	0.0142	0.0039
Venus	67280-02-12 18:43 G	26294618.13	26294618.28	26294618.44	0.0142	0.0100
Mercury	67280-03-14 14:53 G	26294648.95	26294649.12	26294649.29	0.0142	0.0011
Mercury	67280-06-10 21:22 G	26294737.21	26294737.39	26294737.56	0.0142	0.0017
Mercury	67280-09-07 03:36 G	26294825.49	26294825.65	26294825.82	0.0142	0.0044
Venus	67280-09-26 04:48 G	26294844.67	26294844.70	26294844.77	0.0142	0.0138
Mercury	67280-12-04 10:05 G	26294913.78	26294913.92	26294914.08	0.0142	0.0072
Earth	67281-01-13 00:15 G	26294953.34	26294953.51	26294953.70	0.0142	0.0100
Moon	67281-01-13 03:36 G	26294953.49	26294953.65	26294953.83	0.0142	0.0106 *
Mercury	67281-03-02 16:34 G	26295002.08	26295002.19	26295002.32	0.0142	0.0100

Mercury	67281-05-29 23:03 G	26295090.40	26295090.46	26295090.55	0.0142	0.0128
Moon	67282-01-17 19:27 G	26295323.07	26295323.31	26295323.56	0.0142	0.0048
Earth	67282-01-17 22:05 G	26295323.20	26295323.42	26295323.68	0.0142	0.0050 *
Earth	67283-01-22 19:27 G	26295693.05	26295693.31	26295693.56	0.0141	0.0001
Moon	67283-01-22 22:19 G	26295693.18	26295693.43	26295693.68	0.0141	0.0004 *
Moon	67284-01-27 13:12 G	26296062.82	26296063.05	26296063.32	0.0141	0.0046
Earth	67284-01-27 15:22 G	26296062.91	26296063.14	26296063.39	0.0141	0.0052 *
Earth	67285-01-31 10:48 G	26296432.79	26296432.95	26296433.14	0.0140	0.0101
Moon	67285-01-31 12:43 G	26296432.89	26296433.03	26296433.20	0.0140	0.0109 *
Mars	67300-09-26 09:22 G	26302148.67	26302148.89	26302149.12	0.0135	0.0093
Venus	67319-10-08 22:05 G	26309100.33	26309100.42	26309100.55	0.0135	0.0117
Venus	67320-05-22 04:34 G	26309326.53	26309326.69	26309326.87	0.0135	0.0084
Venus	67321-01-03 10:34 G	26309552.75	26309552.94	26309553.16	0.0135	0.0052
Venus	67321-08-17 17:17 G	26309779.00	26309779.22	26309779.43	0.0135	0.0018
Venus	67322-03-31 23:46 G	26310005.27	26310005.49	26310005.70	0.0136	0.0016
Mercury	67322-07-01 12:15 G	26310096.94	26310097.01	26310097.08	0.0136	0.0119
Mercury	67322-09-27 16:05 G	26310185.08	26310185.17	26310185.27	0.0136	0.0099
Venus	67322-11-13 06:00 G	26310231.56	26310231.75	26310231.96	0.0136	0.0050
Mercury	67322-12-24 19:55 G	26310273.22	26310273.33	26310273.46	0.0136	0.0079
Mercury	67323-03-23 00:00 G	26310361.37	26310361.50	26310361.63	0.0136	0.0058
Mercury	67323-06-19 03:51 G	26310449.52	26310449.66	26310449.80	0.0136	0.0038
Venus	67323-06-27 12:58 G	26310457.87	26310458.04	26310458.21	0.0136	0.0083
Mercury	67323-09-15 07:41 G	26310537.68	26310537.82	26310537.96	0.0136	0.0018
Mercury	67323-12-12 11:31 G	26310625.84	26310625.98	26310626.12	0.0136	0.0002
Venus	67324-02-08 19:27 G	26310684.21	26310684.31	26310684.43	0.0136	0.0117
Mercury	67324-03-09 15:22 G	26310714.00	26310714.14	26310714.28	0.0136	0.0022
Mercury	67324-06-05 18:58 G	26310802.16	26310802.29	26310802.43	0.0136	0.0042
Earth	67324-07-12 06:15 G	26310838.60	26310838.76	26310838.94	0.0136	0.0101
Moon	67324-07-12 09:51 G	26310838.74	26310838.91	26310839.11	0.0136	0.0094 *
Mercury	67324-09-01 22:48 G	26310890.33	26310890.45	26310890.58	0.0136	0.0062

Mercury	67324-11-29 02:39 G	26310978.50	26310978.61	26310978.72	0.0136	0.0081
Mercury	67325-02-25 06:15 G	26311066.67	26311066.76	26311066.86	0.0136	0.0101
Mercury	67325-05-24 09:51 G	26311154.85	26311154.91	26311154.98	0.0136	0.0121
Moon	67325-07-16 12:43 G	26311207.82	26311208.03	26311208.26	0.0137	0.0063
Earth	67325-07-16 16:05 G	26311207.96	26311208.17	26311208.42	0.0137	0.0057 *
Earth	67326-07-21 03:07 G	26311577.38	26311577.63	26311577.88	0.0137	0.0012
Moon	67326-07-21 06:43 G	26311577.53	26311577.78	26311578.03	0.0137	0.0005 *
Moon	67327-07-25 10:48 G	26311946.71	26311946.95	26311947.21	0.0137	0.0028
Earth	67327-07-25 14:39 G	26311946.87	26311947.11	26311947.36	0.0137	0.0034 *
Earth	67328-07-29 02:39 G	26312316.42	26312316.61	26312316.83	0.0138	0.0080
Moon	67328-07-29 06:00 G	26312316.56	26312316.75	26312316.96	0.0138	0.0083 *
Moon	67329-08-02 12:15 G	26312685.92	26312686.01	26312686.12	0.0138	0.0126
Earth	67329-08-02 15:51 G	26312686.07	26312686.16	26312686.27	0.0138	0.0125 *
Venus	67360-09-06 19:27 G	26324044.20	26324044.31	26324044.45	0.0143	0.0116
Venus	67361-04-21 06:58 G	26324270.61	26324270.79	26324270.98	0.0143	0.0075
Venus	67361-12-03 17:46 G	26324497.04	26324497.24	26324497.46	0.0143	0.0036
Venus	67362-07-18 04:48 G	26324723.49	26324723.70	26324723.92	0.0143	0.0005
Mercury	67363-01-19 14:39 G	26324909.08	26324909.11	26324909.16	0.0143	0.0138
Venus	67363-03-01 15:36 G	26324949.95	26324950.15	26324950.36	0.0143	0.0043
Mercury	67363-04-17 21:07 G	26324997.27	26324997.38	26324997.48	0.0143	0.0111
Mercury	67363-07-15 03:07 G	26325085.50	26325085.63	26325085.77	0.0142	0.0084
Mercury	67363-10-11 09:22 G	26325173.74	26325173.89	26325174.06	0.0142	0.0057
Venus	67363-10-14 02:10 G	26325176.43	26325176.59	26325176.78	0.0142	0.0083
Mercury	67364-01-07 15:51 G	26325261.99	26325262.16	26325262.33	0.0142	0.0030
Mercury	67364-04-04 22:19 G	26325350.25	26325350.43	26325350.60	0.0142	0.0004
Venus	67364-05-27 12:29 G	26325402.93	26325403.02	26325403.15	0.0142	0.0121
Mercury	67364-07-02 04:34 G	26325438.52	26325438.69	26325438.86	0.0142	0.0025
Mercury	67364-09-28 11:03 G	26325526.80	26325526.96	26325527.12	0.0142	0.0053
Mercury	67364-12-25 17:17 G	26325615.09	26325615.22	26325615.38	0.0142	0.0082
Earth	67365-01-14 11:17 G	26325634.78	26325634.97	26325635.16	0.0142	0.0094

Moon	67365-01-14 14:24 G	26325634.92	26325635.10	26325635.31	0.0142	0.0089	*
Mercury	67365-03-24 00:00 G	26325703.40	26325703.50	26325703.62	0.0142	0.0109	
Mercury	67365-06-20 06:29 G	26325791.74	26325791.77	26325791.82	0.0142	0.0137	
Moon	67366-01-19 05:46 G	26326004.50	26326004.74	26326004.99	0.0142	0.0047	
Earth	67366-01-19 09:07 G	26326004.65	26326004.88	26326005.13	0.0142	0.0044	*
Earth	67367-01-24 06:15 G	26326374.51	26326374.76	26326375.02	0.0141	0.0008	
Moon	67367-01-24 09:07 G	26326374.63	26326374.88	26326375.13	0.0141	0.0004	*
Moon	67368-01-28 23:31 G	26326744.26	26326744.48	26326744.73	0.0141	0.0063	
Earth	67368-01-29 02:39 G	26326744.38	26326744.61	26326744.85	0.0141	0.0057	*
Earth	67369-02-01 22:05 G	26327114.27	26327114.42	26327114.60	0.0140	0.0107	
Moon	67369-02-02 00:15 G	26327114.35	26327114.51	26327114.70	0.0140	0.0100	*
Mars	67385-05-22 12:58 G	26333067.79	26333068.04	26333068.31	0.0135	0.0075	
Venus	67403-06-09 09:36 G	26339658.86	26339658.90	26339658.98	0.0135	0.0130	
Venus	67404-01-21 15:51 G	26339885.02	26339885.16	26339885.32	0.0135	0.0097	
Venus	67404-09-03 22:05 G	26340111.23	26340111.42	26340111.62	0.0135	0.0064	
Venus	67405-04-18 04:19 G	26340337.48	26340337.68	26340337.90	0.0135	0.0032	
Venus	67405-11-30 11:03 G	26340563.74	26340563.96	26340564.17	0.0135	0.0003	
Mercury	67406-04-25 15:51 G	26340710.13	26340710.16	26340710.21	0.0136	0.0131	
Venus	67406-07-14 17:17 G	26340790.01	26340790.22	26340790.43	0.0136	0.0036	
Mercury	67406-07-22 19:41 G	26340798.25	26340798.32	26340798.42	0.0136	0.0111	
Mercury	67406-10-18 23:46 G	26340886.39	26340886.49	26340886.61	0.0136	0.0090	
Mercury	67407-01-15 03:51 G	26340974.54	26340974.66	26340974.79	0.0136	0.0069	
Venus	67407-02-25 23:46 G	26341016.31	26341016.49	26341016.69	0.0136	0.0070	
Mercury	67407-04-13 07:41 G	26341062.69	26341062.82	26341062.96	0.0136	0.0049	
Moon	67407-07-10 06:58 G	26341150.76	26341150.79	26341150.83	0.0136	0.0134	
Mercury	67407-07-10 11:46 G	26341150.84	26341150.99	26341151.13	0.0136	0.0029	
Mercury	67407-10-06 15:22 G	26341239.00	26341239.14	26341239.29	0.0136	0.0010	
Venus	67407-10-10 06:15 G	26341242.64	26341242.76	26341242.92	0.0136	0.0104	
Mercury	67408-01-02 19:12 G	26341327.16	26341327.30	26341327.45	0.0136	0.0012	
Mercury	67408-03-30 23:03 G	26341415.32	26341415.46	26341415.60	0.0136	0.0031	

Mercury	67408-06-27 02:53 G	26341503.49	26341503.62	26341503.75	0.0136	0.0051
Earth	67408-07-13 19:41 G	26341520.15	26341520.32	26341520.52	0.0136	0.0093
Moon	67408-07-13 22:48 G	26341520.30	26341520.45	26341520.65	0.0136	0.0099 *
Mercury	67408-09-23 06:43 G	26341591.66	26341591.78	26341591.90	0.0136	0.0071
Mercury	67408-12-20 10:19 G	26341679.83	26341679.93	26341680.04	0.0136	0.0090
Mercury	67409-03-18 13:55 G	26341768.01	26341768.08	26341768.17	0.0136	0.0110
Mercury	67409-06-14 17:46 G	26341856.20	26341856.24	26341856.28	0.0136	0.0130
Moon	67409-07-18 02:10 G	26341889.37	26341889.59	26341889.85	0.0136	0.0043
Earth	67409-07-18 06:00 G	26341889.52	26341889.75	26341889.99	0.0136	0.0050 *
Earth	67410-07-22 16:48 G	26342258.95	26342259.20	26342259.46	0.0137	0.0005
Moon	67410-07-22 20:24 G	26342259.10	26342259.35	26342259.61	0.0137	0.0013 *
Moon	67411-07-27 00:58 G	26342628.31	26342628.54	26342628.78	0.0137	0.0047
Earth	67411-07-27 04:34 G	26342628.45	26342628.69	26342628.93	0.0137	0.0041 *
Earth	67412-07-30 16:19 G	26342998.00	26342998.18	26342998.39	0.0138	0.0087
Moon	67412-07-30 20:24 G	26342998.15	26342998.35	26342998.55	0.0138	0.0083 *
Moon	67413-08-04 02:10 G	26343367.53	26343367.59	26343367.66	0.0138	0.0132
Earth	67413-08-04 05:17 G	26343367.67	26343367.72	26343367.81	0.0138	0.0132
Mars	67427-10-16 22:19 G	26348554.28	26348554.43	26348554.59	0.0143	0.0123
Venus	67444-05-08 03:36 G	26354602.59	26354602.65	26354602.75	0.0143	0.0133
Venus	67444-12-20 15:07 G	26354828.97	26354829.13	26354829.30	0.0143	0.0092
Venus	67445-08-04 02:10 G	26355055.39	26355055.59	26355055.80	0.0143	0.0053
Venus	67446-03-18 13:12 G	26355281.84	26355282.05	26355282.27	0.0143	0.0013
Venus	67446-10-31 00:15 G	26355508.30	26355508.51	26355508.73	0.0143	0.0027
Mercury	67447-02-09 22:19 G	26355610.37	26355610.43	26355610.52	0.0143	0.0128
Mercury	67447-05-09 04:48 G	26355698.59	26355698.70	26355698.82	0.0143	0.0101
Venus	67447-06-14 10:48 G	26355734.77	26355734.95	26355735.15	0.0142	0.0066
Mercury	67447-08-05 11:03 G	26355786.82	26355786.96	26355787.11	0.0142	0.0074
Mercury	67447-11-01 17:17 G	26355875.06	26355875.22	26355875.39	0.0142	0.0047
Moon	67448-01-11 20:53 G	26355946.29	26355946.37	26355946.49	0.0142	0.0131
Earth	67448-01-12 00:58 G	26355946.49	26355946.54	26355946.61	0.0142	0.0139 *

Venus	67448-01-26 21:22 G	26355961.25	26355961.39	26355961.54	0.0142	0.0105
Mercury	67448-01-28 23:46 G	26355963.32	26355963.49	26355963.66	0.0142	0.0019
Mercury	67448-04-26 06:00 G	26356051.58	26356051.75	26356051.93	0.0142	0.0009
Mercury	67448-07-23 12:29 G	26356139.85	26356140.02	26356140.19	0.0142	0.0036
Mercury	67448-10-19 18:43 G	26356228.14	26356228.28	26356228.45	0.0142	0.0064
Earth	67449-01-15 23:46 G	26356316.29	26356316.49	26356316.69	0.0142	0.0087
Mercury	67449-01-16 01:12 G	26356316.43	26356316.55	26356316.70	0.0142	0.0092 *
Moon	67449-01-16 03:07 G	26356316.45	26356316.63	26356316.83	0.0142	0.0094 *
Mercury	67449-04-14 07:41 G	26356404.74	26356404.82	26356404.93	0.0142	0.0120
Moon	67450-01-20 18:15 G	26356686.02	26356686.26	26356686.52	0.0142	0.0034
Earth	67450-01-20 21:36 G	26356686.16	26356686.40	26356686.66	0.0142	0.0037 *
Earth	67451-01-25 18:58 G	26357056.04	26357056.29	26357056.55	0.0141	0.0014
Moon	67451-01-25 22:34 G	26357056.19	26357056.44	26357056.69	0.0141	0.0015 *
Moon	67452-01-30 12:29 G	26357425.80	26357426.02	26357426.27	0.0141	0.0059
Earth	67452-01-30 15:36 G	26357425.93	26357426.15	26357426.38	0.0141	0.0064 *
Earth	67453-02-03 11:17 G	26357795.82	26357795.97	26357796.13	0.0140	0.0113
Moon	67453-02-03 13:55 G	26357795.97	26357796.08	26357796.22	0.0140	0.0121 *
Venus	67487-09-21 03:22 G	26370443.52	26370443.64	26370443.77	0.0135	0.0110
Venus	67488-05-04 09:36 G	26370669.73	26370669.90	26370670.08	0.0135	0.0077
Venus	67488-12-16 15:51 G	26370895.96	26370896.16	26370896.37	0.0135	0.0044
Venus	67489-07-30 22:05 G	26371122.21	26371122.42	26371122.64	0.0135	0.0011
Venus	67490-03-14 04:34 G	26371348.48	26371348.69	26371348.91	0.0135	0.0023
Mercury	67490-05-15 23:46 G	26371411.43	26371411.49	26371411.56	0.0136	0.0122
Mercury	67490-08-12 03:36 G	26371499.56	26371499.65	26371499.75	0.0136	0.0101
Venus	67490-10-26 11:03 G	26371574.77	26371574.96	26371575.17	0.0136	0.0057
Mercury	67490-11-08 07:41 G	26371587.71	26371587.82	26371587.94	0.0136	0.0081
Mercury	67491-02-04 11:31 G	26371675.86	26371675.98	26371676.11	0.0136	0.0061
Mercury	67491-05-03 15:22 G	26371764.01	26371764.14	26371764.29	0.0136	0.0041
Venus	67491-06-09 18:00 G	26371801.09	26371801.25	26371801.41	0.0136	0.0090
Moon	67491-07-10 20:39 G	26371832.32	26371832.36	26371832.44	0.0136	0.0131

Earth	67491-07-11 00:00 G	26371832.43	26371832.50	26371832.58	0.0136	0.0129	*
Mercury	67491-07-30 19:27 G	26371852.17	26371852.31	26371852.45	0.0136	0.0020	
Mercury	67491-10-26 23:17 G	26371940.33	26371940.47	26371940.61	0.0136	0.0001	
Venus	67492-01-22 00:29 G	26372027.45	26372027.52	26372027.62	0.0136	0.0124	
Mercury	67492-01-23 03:07 G	26372028.49	26372028.63	26372028.77	0.0136	0.0020	
Mercury	67492-04-20 06:43 G	26372116.65	26372116.78	26372116.92	0.0136	0.0040	
Earth	67492-07-14 09:22 G	26372201.71	26372201.89	26372202.09	0.0136	0.0086	
Moon	67492-07-14 13:12 G	26372201.85	26372202.05	26372202.25	0.0136	0.0081	*
Mercury	67492-07-17 10:34 G	26372204.82	26372204.94	26372205.07	0.0136	0.0060	
Mercury	67492-10-13 14:24 G	26372292.99	26372293.10	26372293.22	0.0136	0.0080	
Mercury	67493-01-09 18:00 G	26372381.16	26372381.25	26372381.35	0.0136	0.0099	
Mercury	67493-04-07 21:51 G	26372469.35	26372469.41	26372469.48	0.0136	0.0119	
Moon	67493-07-18 16:34 G	26372570.96	26372571.19	26372571.42	0.0136	0.0049	
Earth	67493-07-18 19:27 G	26372571.08	26372571.31	26372571.56	0.0136	0.0043	*
Earth	67494-07-23 06:43 G	26372940.52	26372940.78	26372941.03	0.0137	0.0003	
Moon	67494-07-23 10:05 G	26372940.67	26372940.92	26372941.18	0.0137	0.0010	*
Moon	67495-07-27 14:24 G	26373309.87	26373310.10	26373310.35	0.0137	0.0041	
Earth	67495-07-27 18:15 G	26373310.02	26373310.26	26373310.50	0.0137	0.0047	*
Earth	67496-07-31 06:00 G	26373679.57	26373679.75	26373679.94	0.0138	0.0093	
Moon	67496-07-31 09:07 G	26373679.72	26373679.88	26373680.08	0.0138	0.0097	*
Mars	67512-06-12 13:12 G	26379473.79	26379474.05	26379474.31	0.0143	0.0073	
Venus	67528-08-20 21:51 G	26385387.28	26385387.41	26385387.56	0.0143	0.0111	
Venus	67529-04-04 08:53 G	26385613.70	26385613.87	26385614.08	0.0143	0.0072	
Venus	67529-11-16 20:24 G	26385840.14	26385840.35	26385840.56	0.0143	0.0031	
Venus	67530-07-01 07:27 G	26386066.59	26386066.81	26386067.02	0.0143	0.0009	
Venus	67531-02-12 18:15 G	26386293.05	26386293.26	26386293.46	0.0143	0.0048	
Mercury	67531-03-03 06:00 G	26386311.66	26386311.75	26386311.84	0.0143	0.0119	
Mercury	67531-05-30 12:00 G	26386399.88	26386400.00	26386400.14	0.0143	0.0092	
Mercury	67531-08-26 18:15 G	26386488.12	26386488.26	26386488.42	0.0142	0.0066	
Venus	67531-09-27 04:34 G	26386519.53	26386519.69	26386519.87	0.0142	0.0087	

Mercury	67531-11-23 00:43 G	26386576.36	26386576.53	26386576.69	0.0142	0.0038
Moon	67532-01-13 07:41 G	26386627.80	26386627.82	26386627.88	0.0142	0.0141
Earth	67532-01-13 11:17 G	26386627.89	26386627.97	26386628.07	0.0142	0.0133
Mercury	67532-02-19 06:58 G	26386664.62	26386664.79	26386664.97	0.0142	0.0011
Venus	67532-05-10 15:22 G	26386746.04	26386746.14	26386746.24	0.0142	0.0126
Mercury	67532-05-17 13:27 G	26386752.89	26386753.06	26386753.23	0.0142	0.0017
Mercury	67532-08-13 19:55 G	26386841.16	26386841.33	26386841.49	0.0142	0.0044
Mercury	67532-11-10 02:10 G	26386929.45	26386929.59	26386929.75	0.0142	0.0072
Earth	67533-01-17 09:51 G	26386997.72	26386997.91	26386998.14	0.0142	0.0082
Moon	67533-01-17 13:41 G	26386997.87	26386998.07	26386998.30	0.0142	0.0075 *
Mercury	67533-02-06 08:39 G	26387017.75	26387017.86	26387017.99	0.0142	0.0100
Mercury	67533-05-05 15:22 G	26387106.07	26387106.14	26387106.22	0.0142	0.0128
Moon	67534-01-22 04:34 G	26387367.45	26387367.69	26387367.95	0.0142	0.0036
Earth	67534-01-22 08:24 G	26387367.60	26387367.85	26387368.10	0.0142	0.0031 *
Earth	67535-01-27 05:31 G	26387737.48	26387737.73	26387737.99	0.0141	0.0020
Moon	67535-01-27 08:53 G	26387737.62	26387737.87	26387738.12	0.0141	0.0018 *
Moon	67536-01-31 22:34 G	26388107.23	26388107.44	26388107.67	0.0141	0.0074
Earth	67536-02-01 01:55 G	26388107.38	26388107.58	26388107.82	0.0141	0.0070 *
Earth	67537-02-04 21:51 G	26388477.29	26388477.41	26388477.56	0.0140	0.0118
Moon	67537-02-05 00:43 G	26388477.39	26388477.53	26388477.69	0.0140	0.0112 *
Mars	67552-10-10 22:48 G	26394204.16	26394204.45	26394204.77	0.0135	0.0020
Venus	67571-05-22 14:24 G	26401002.03	26401002.10	26401002.20	0.0135	0.0123
Venus	67572-01-03 20:39 G	26401228.20	26401228.36	26401228.52	0.0135	0.0090
Venus	67572-08-17 02:39 G	26401454.42	26401454.61	26401454.82	0.0135	0.0058
Venus	67573-03-31 09:07 G	26401680.67	26401680.88	26401681.10	0.0135	0.0024
Venus	67573-11-12 15:36 G	26401906.93	26401907.15	26401907.37	0.0135	0.0009
Mercury	67574-03-10 03:22 G	26402024.63	26402024.64	26402024.67	0.0135	0.0134
Mercury	67574-06-06 07:12 G	26402112.73	26402112.80	26402112.89	0.0136	0.0114
Venus	67574-06-26 22:05 G	26402133.21	26402133.42	26402133.63	0.0136	0.0043
Mercury	67574-09-02 11:17 G	26402200.87	26402200.97	26402201.08	0.0136	0.0093

Mercury	67574-11-29 15:07 G	26402289.02	26402289.13	26402289.26	0.0136	0.0073
Venus	67575-02-08 04:34 G	26402359.52	26402359.69	26402359.88	0.0136	0.0077
Mercury	67575-02-25 19:12 G	26402377.17	26402377.30	26402377.44	0.0136	0.0052
Mercury	67575-05-24 23:17 G	26402465.33	26402465.47	26402465.61	0.0136	0.0032
Moon	67575-07-12 09:51 G	26402513.82	26402513.91	26402514.03	0.0136	0.0122
Earth	67575-07-12 12:58 G	26402513.95	26402514.04	26402514.16	0.0136	0.0123 *
Mercury	67575-08-21 03:07 G	26402553.48	26402553.63	26402553.77	0.0136	0.0012
Venus	67575-09-22 11:03 G	26402585.85	26402585.96	26402586.10	0.0136	0.0111
Mercury	67575-11-17 06:58 G	26402641.64	26402641.79	26402641.93	0.0136	0.0008
Mercury	67576-02-13 10:48 G	26402729.81	26402729.95	26402730.09	0.0136	0.0028
Mercury	67576-05-11 14:39 G	26402817.97	26402818.11	26402818.24	0.0136	0.0048
Earth	67576-07-15 22:19 G	26402883.24	26402883.43	26402883.65	0.0136	0.0080
Moon	67576-07-16 01:12 G	26402883.36	26402883.55	26402883.77	0.0136	0.0084 *
Mercury	67576-08-07 18:15 G	26402906.14	26402906.26	26402906.39	0.0136	0.0068
Mercury	67576-11-03 21:51 G	26402994.31	26402994.41	26402994.53	0.0136	0.0089
Mercury	67577-01-31 01:41 G	26403082.49	26403082.57	26403082.66	0.0136	0.0108
Mercury	67577-04-29 05:17 G	26403170.68	26403170.72	26403170.78	0.0136	0.0128
Moon	67577-07-20 05:17 G	26403252.49	26403252.72	26403252.98	0.0136	0.0030
Earth	67577-07-20 08:39 G	26403252.63	26403252.86	26403253.12	0.0136	0.0037 *
Earth	67578-07-24 19:41 G	26403622.07	26403622.32	26403622.57	0.0137	0.0009
Moon	67578-07-24 23:03 G	26403622.20	26403622.46	26403622.71	0.0137	0.0002 *
Moon	67579-07-29 03:22 G	26403991.43	26403991.64	26403991.88	0.0137	0.0060
Earth	67579-07-29 06:58 G	26403991.56	26403991.79	26403992.03	0.0137	0.0054 *
Earth	67580-08-01 18:58 G	26404361.12	26404361.29	26404361.47	0.0137	0.0099
Moon	67580-08-01 22:34 G	26404361.26	26404361.44	26404361.63	0.0137	0.0095 *
Venus	67612-04-20 05:46 G	26415945.65	26415945.74	26415945.85	0.0143	0.0128
Venus	67612-12-02 17:03 G	26416172.05	26416172.21	26416172.39	0.0143	0.0088
Venus	67613-07-17 04:05 G	26416398.47	26416398.67	26416398.88	0.0143	0.0048
Venus	67614-02-28 15:22 G	26416624.92	26416625.14	26416625.36	0.0143	0.0008
Venus	67614-10-13 02:10 G	26416851.39	26416851.59	26416851.81	0.0143	0.0032

Mercury	67614-12-25 07:27 G	26416924.77	26416924.81	26416924.86	0.0143	0.0136
Mercury	67615-03-23 13:27 G	26417012.96	26417013.06	26417013.18	0.0143	0.0110
Venus	67615-05-27 12:58 G	26417077.86	26417078.04	26417078.24	0.0143	0.0071
Mercury	67615-06-19 19:41 G	26417101.19	26417101.32	26417101.47	0.0142	0.0083
Mercury	67615-09-16 02:10 G	26417189.43	26417189.59	26417189.75	0.0142	0.0055
Mercury	67615-12-13 08:24 G	26417277.68	26417277.85	26417278.02	0.0142	0.0028
Venus	67616-01-08 23:31 G	26417304.35	26417304.48	26417304.63	0.0142	0.0110
Moon	67616-01-13 19:41 G	26417309.20	26417309.32	26417309.47	0.0142	0.0119
Earth	67616-01-13 23:17 G	26417309.36	26417309.47	26417309.60	0.0142	0.0127 *
Mercury	67616-03-10 14:53 G	26417365.94	26417366.12	26417366.29	0.0142	0.0003
Mercury	67616-06-06 21:07 G	26417454.21	26417454.38	26417454.55	0.0142	0.0027
Mercury	67616-09-03 03:36 G	26417542.49	26417542.65	26417542.81	0.0142	0.0054
Mercury	67616-11-30 10:05 G	26417630.78	26417630.92	26417631.06	0.0142	0.0082
Earth	67617-01-17 22:19 G	26417679.22	26417679.43	26417679.65	0.0142	0.0075
Moon	67617-01-18 01:41 G	26417679.37	26417679.57	26417679.78	0.0142	0.0082 *
Mercury	67617-02-26 16:34 G	26417719.09	26417719.19	26417719.30	0.0142	0.0110
Mercury	67617-05-25 23:17 G	26417807.43	26417807.47	26417807.50	0.0142	0.0138
Moon	67618-01-22 16:34 G	26418048.95	26418049.19	26418049.45	0.0142	0.0022
Earth	67618-01-22 20:24 G	26418049.10	26418049.35	26418049.61	0.0142	0.0025 *
Earth	67619-01-27 17:46 G	26418418.99	26418419.24	26418419.50	0.0141	0.0026
Moon	67619-01-27 21:36 G	26418419.15	26418419.40	26418419.65	0.0141	0.0026 *
Moon	67620-02-01 11:03 G	26418788.75	26418788.96	26418789.19	0.0141	0.0071
Earth	67620-02-01 14:24 G	26418788.90	26418789.10	26418789.33	0.0141	0.0076 *
Earth	67621-02-05 10:19 G	26419158.81	26419158.93	26419159.05	0.0140	0.0124
Moon	67621-02-05 13:41 G	26419158.99	26419159.07	26419159.16	0.0140	0.0132 *
Venus	67655-09-03 07:41 G	26431786.69	26431786.82	26431786.96	0.0135	0.0103
Venus	67656-04-16 13:55 G	26432012.90	26432013.08	26432013.27	0.0135	0.0070
Venus	67656-11-28 20:10 G	26432239.13	26432239.34	26432239.55	0.0135	0.0037
Venus	67657-07-13 02:24 G	26432465.39	26432465.60	26432465.82	0.0135	0.0005
Venus	67658-02-24 08:53 G	26432691.66	26432691.87	26432692.09	0.0135	0.0030

Mercury	67658-03-30 11:03 G	26432725.92	26432725.96	26432726.02	0.0135	0.0125
Mercury	67658-06-26 15:07 G	26432814.04	26432814.13	26432814.23	0.0136	0.0105
Mercury	67658-09-22 18:58 G	26432902.19	26432902.29	26432902.41	0.0136	0.0085
Venus	67658-10-08 15:22 G	26432917.96	26432918.14	26432918.34	0.0136	0.0064
Mercury	67658-12-19 23:03 G	26432990.33	26432990.46	26432990.59	0.0136	0.0064
Mercury	67659-03-18 02:53 G	26433078.49	26433078.62	26433078.76	0.0136	0.0044
Venus	67659-05-22 22:19 G	26433144.28	26433144.43	26433144.59	0.0136	0.0097
Mercury	67659-06-14 06:58 G	26433166.65	26433166.79	26433166.93	0.0136	0.0024
Moon	67659-07-12 23:17 G	26433195.37	26433195.47	26433195.61	0.0136	0.0118
Earth	67659-07-13 01:55 G	26433195.47	26433195.58	26433195.72	0.0136	0.0117 *
Mercury	67659-09-10 10:48 G	26433254.80	26433254.95	26433255.09	0.0136	0.0004
Mercury	67659-12-07 14:39 G	26433342.97	26433343.11	26433343.25	0.0136	0.0017
Venus	67660-01-04 05:03 G	26433370.67	26433370.71	26433370.78	0.0136	0.0131
Mercury	67660-03-04 18:29 G	26433431.13	26433431.27	26433431.41	0.0136	0.0037
Mercury	67660-05-31 22:05 G	26433519.30	26433519.42	26433519.56	0.0136	0.0057
Earth	67660-07-16 11:31 G	26433564.78	26433564.98	26433565.20	0.0136	0.0074
Moon	67660-07-16 14:39 G	26433564.90	26433565.11	26433565.34	0.0136	0.0069 *
Mercury	67660-08-28 01:55 G	26433607.47	26433607.58	26433607.70	0.0136	0.0076
Mercury	67660-11-24 05:31 G	26433695.64	26433695.73	26433695.84	0.0136	0.0097
Mercury	67661-02-20 09:36 G	26433783.83	26433783.90	26433783.97	0.0136	0.0116
Mercury	67661-05-19 12:58 G	26433872.04	26433872.04	26433872.07	0.0136	0.0136
Moon	67661-07-20 19:27 G	26433934.07	26433934.31	26433934.54	0.0136	0.0036
Earth	67661-07-20 22:05 G	26433934.17	26433934.42	26433934.66	0.0136	0.0030 *
Earth	67662-07-25 08:39 G	26434303.61	26434303.86	26434304.11	0.0137	0.0015
Moon	67662-07-25 11:46 G	26434303.74	26434303.99	26434304.25	0.0137	0.0022 *
Moon	67663-07-29 16:48 G	26434672.97	26434673.20	26434673.43	0.0137	0.0052
Earth	67663-07-29 19:41 G	26434673.11	26434673.32	26434673.56	0.0137	0.0060 *
Earth	67664-08-02 07:27 G	26435042.66	26435042.81	26435042.99	0.0137	0.0105
Moon	67664-08-02 10:48 G	26435042.81	26435042.95	26435043.12	0.0137	0.0109 *
Mars	67679-10-30 09:36 G	26440609.61	26440609.90	26440610.19	0.0143	0.0047

Venus	67696-08-01 23:46 G	26446730.35	26446730.49	26446730.64	0.0143	0.0105
Venus	67697-03-16 10:48 G	26446956.77	26446956.95	26446957.15	0.0143	0.0066
Venus	67697-10-28 22:05 G	26447183.21	26447183.42	26447183.64	0.0143	0.0026
Venus	67698-06-12 09:07 G	26447409.67	26447409.88	26447410.10	0.0143	0.0014
Mercury	67699-01-14 14:24 G	26447626.04	26447626.10	26447626.19	0.0143	0.0129
Venus	67699-01-24 19:41 G	26447636.13	26447636.32	26447636.54	0.0143	0.0054
Mercury	67699-04-12 20:39 G	26447714.25	26447714.36	26447714.49	0.0143	0.0102
Mercury	67699-07-10 03:07 G	26447802.49	26447802.63	26447802.77	0.0142	0.0075
Venus	67699-09-08 06:29 G	26447862.62	26447862.77	26447862.95	0.0142	0.0092
Mercury	67699-10-06 09:22 G	26447890.73	26447890.89	26447891.05	0.0142	0.0048
Mercury	67700-01-02 15:36 G	26447978.98	26447979.15	26447979.32	0.0142	0.0020
Moon	67700-01-14 06:43 G	26447990.67	26447990.78	26447990.88	0.0142	0.0129
Earth	67700-01-14 09:07 G	26447990.76	26447990.88	26447991.03	0.0142	0.0122 *
Mercury	67700-03-31 22:05 G	26448067.25	26448067.42	26448067.59	0.0142	0.0007
Venus	67700-04-22 17:17 G	26448089.14	26448089.22	26448089.31	0.0142	0.0131
Mercury	67700-06-28 04:19 G	26448155.52	26448155.68	26448155.85	0.0142	0.0035
Mercury	67700-09-24 10:48 G	26448243.80	26448243.95	26448244.11	0.0142	0.0062
Mercury	67700-12-21 17:17 G	26448332.09	26448332.22	26448332.36	0.0142	0.0090
Earth	67701-01-19 07:55 G	26448360.62	26448360.83	26448361.07	0.0142	0.0071
Moon	67701-01-19 11:46 G	26448360.76	26448360.99	26448361.23	0.0142	0.0063 *
Mercury	67701-03-19 23:46 G	26448420.40	26448420.49	26448420.59	0.0142	0.0118
Moon	67702-01-24 03:07 G	26448730.38	26448730.63	26448730.88	0.0142	0.0025
Earth	67702-01-24 06:29 G	26448730.52	26448730.77	26448731.03	0.0142	0.0020 *
Earth	67703-01-29 03:51 G	26449100.41	26449100.66	26449100.91	0.0141	0.0031
Moon	67703-01-29 07:12 G	26449100.56	26449100.80	26449101.06	0.0141	0.0031 *
Moon	67704-02-02 20:24 G	26449470.16	26449470.35	26449470.57	0.0141	0.0084
Earth	67704-02-03 00:29 G	26449470.32	26449470.52	26449470.74	0.0141	0.0080 *
Earth	67705-02-06 19:55 G	26449840.25	26449840.33	26449840.45	0.0141	0.0129
Moon	67705-02-06 23:31 G	26449840.37	26449840.48	26449840.61	0.0141	0.0122 *
Mars	67720-02-29 06:58 G	26455340.66	26455340.79	26455340.98	0.0135	0.0116

Venus	67739-05-04 18:43 G	26462345.17	26462345.28	26462345.39	0.0135	0.0116
Venus	67739-12-17 00:29 G	26462571.36	26462571.52	26462571.70	0.0135	0.0084
Venus	67740-07-30 06:58 G	26462797.59	26462797.79	26462797.99	0.0135	0.0050
Venus	67741-03-13 13:12 G	26463023.84	26463024.05	26463024.27	0.0135	0.0017
Venus	67741-10-25 19:41 G	26463250.11	26463250.32	26463250.54	0.0135	0.0016
Mercury	67742-04-20 18:58 G	26463427.21	26463427.29	26463427.36	0.0136	0.0117
Venus	67742-06-09 02:10 G	26463476.40	26463476.59	26463476.80	0.0136	0.0050
Mercury	67742-07-17 22:48 G	26463515.35	26463515.45	26463515.55	0.0136	0.0097
Mercury	67742-10-14 02:39 G	26463603.50	26463603.61	26463603.74	0.0136	0.0076
Mercury	67743-01-10 06:43 G	26463691.65	26463691.78	26463691.91	0.0136	0.0056
Venus	67743-01-21 08:53 G	26463702.70	26463702.87	26463703.05	0.0136	0.0084
Mercury	67743-04-08 10:34 G	26463779.80	26463779.94	26463780.08	0.0136	0.0036
Mercury	67743-07-05 14:24 G	26463867.96	26463868.10	26463868.25	0.0136	0.0016
Moon	67743-07-14 12:29 G	26463876.89	26463877.02	26463877.17	0.0136	0.0111
Earth	67743-07-14 14:39 G	26463876.98	26463877.11	26463877.27	0.0136	0.0111 *
Venus	67743-09-04 15:22 G	26463929.05	26463929.14	26463929.26	0.0136	0.0118
Mercury	67743-10-01 18:29 G	26463956.12	26463956.27	26463956.41	0.0136	0.0006
Mercury	67743-12-28 22:05 G	26464044.28	26464044.42	26464044.57	0.0136	0.0025
Mercury	67744-03-26 01:55 G	26464132.45	26464132.58	26464132.72	0.0136	0.0045
Mercury	67744-06-22 05:46 G	26464220.62	26464220.74	26464220.87	0.0136	0.0065
Earth	67744-07-18 00:00 G	26464246.30	26464246.50	26464246.73	0.0136	0.0068
Moon	67744-07-18 02:10 G	26464246.39	26464246.59	26464246.83	0.0136	0.0072 *
Mercury	67744-09-18 09:36 G	26464308.79	26464308.90	26464309.01	0.0136	0.0084
Mercury	67744-12-15 13:12 G	26464396.97	26464397.05	26464397.15	0.0136	0.0104
Mercury	67745-03-13 17:03 G	26464485.16	26464485.21	26464485.27	0.0136	0.0123
Moon	67745-07-22 07:41 G	26464615.58	26464615.82	26464616.07	0.0136	0.0018
Earth	67745-07-22 10:19 G	26464615.69	26464615.93	26464616.18	0.0136	0.0024 *
Earth	67746-07-26 20:53 G	26464985.13	26464985.37	26464985.63	0.0137	0.0020
Moon	67746-07-26 23:31 G	26464985.23	26464985.48	26464985.74	0.0137	0.0013 *
Moon	67747-07-31 05:03 G	26465354.51	26465354.71	26465354.93	0.0137	0.0072

Earth	67747-07-31 07:41 G	26465354.62	26465354.82	26465355.06	0.0137	0.0066	*
Earth	67748-08-03 19:41 G	26465724.18	26465724.32	26465724.48	0.0138	0.0110	
Moon	67748-08-03 22:48 G	26465724.30	26465724.45	26465724.63	0.0138	0.0105	*
Venus	67780-04-02 06:58 G	26477288.70	26477288.79	26477288.92	0.0143	0.0124	
Venus	67780-11-14 18:29 G	26477515.11	26477515.27	26477515.46	0.0143	0.0083	
Venus	67781-06-29 05:46 G	26477741.54	26477741.74	26477741.96	0.0143	0.0043	
Venus	67782-02-10 17:03 G	26477967.99	26477968.21	26477968.43	0.0143	0.0003	
Venus	67782-09-25 03:51 G	26478194.46	26478194.66	26478194.88	0.0143	0.0037	
Mercury	67783-02-04 22:19 G	26478327.34	26478327.43	26478327.53	0.0143	0.0119	
Mercury	67783-05-04 04:34 G	26478415.56	26478415.69	26478415.82	0.0143	0.0092	
Venus	67783-05-09 14:39 G	26478420.93	26478421.11	26478421.30	0.0143	0.0076	
Mercury	67783-07-31 10:34 G	26478503.80	26478503.94	26478504.10	0.0142	0.0065	
Mercury	67783-10-27 16:48 G	26478592.04	26478592.20	26478592.37	0.0142	0.0039	
Venus	67783-12-22 01:12 G	26478647.44	26478647.55	26478647.69	0.0142	0.0115	
Moon	67784-01-15 17:46 G	26478672.10	26478672.24	26478672.42	0.0142	0.0108	
Earth	67784-01-15 20:39 G	26478672.23	26478672.36	26478672.53	0.0142	0.0116	*
Mercury	67784-01-23 23:17 G	26478680.30	26478680.47	26478680.64	0.0142	0.0011	
Mercury	67784-04-21 05:31 G	26478768.57	26478768.73	26478768.91	0.0142	0.0017	
Mercury	67784-07-18 12:00 G	26478856.84	26478857.00	26478857.17	0.0142	0.0044	
Mercury	67784-10-14 18:15 G	26478945.12	26478945.26	26478945.42	0.0142	0.0073	
Mercury	67785-01-11 00:43 G	26479033.42	26479033.53	26479033.66	0.0142	0.0100	
Earth	67785-01-19 19:55 G	26479042.10	26479042.33	26479042.56	0.0142	0.0064	
Moon	67785-01-19 22:34 G	26479042.23	26479042.44	26479042.68	0.0142	0.0072	*
Mercury	67785-04-09 07:12 G	26479121.74	26479121.80	26479121.89	0.0142	0.0128	
Moon	67786-01-24 14:39 G	26479411.86	26479412.11	26479412.36	0.0142	0.0010	
Earth	67786-01-24 18:00 G	26479412.00	26479412.25	26479412.51	0.0142	0.0014	*
Earth	67787-01-29 15:22 G	26479781.90	26479782.14	26479782.39	0.0141	0.0036	
Moon	67787-01-29 18:43 G	26479782.04	26479782.28	26479782.55	0.0141	0.0036	*
Moon	67788-02-03 08:24 G	26480151.66	26480151.85	26480152.07	0.0141	0.0082	
Earth	67788-02-03 11:46 G	26480151.81	26480151.99	26480152.21	0.0141	0.0086	*

Earth	67789-02-07 07:27 G	26480521.75	26480521.81	26480521.90	0.0141	0.0134
Moon	67789-02-07 11:31 G	26480521.98	26480521.98	26480521.98	0.0141	0.0141
Mars	67804-10-25 08:24 G	26486259.57	26486259.85	26486260.15	0.0135	0.0049
Venus	67823-01-03 05:17 G	26492903.68	26492903.72	26492903.80	0.0135	0.0130
Venus	67823-08-17 11:31 G	26493129.84	26493129.98	26493130.14	0.0135	0.0097
Venus	67824-03-30 17:46 G	26493356.06	26493356.24	26493356.44	0.0135	0.0064
Venus	67824-11-12 00:15 G	26493582.30	26493582.51	26493582.72	0.0135	0.0031
Venus	67825-06-26 06:43 G	26493808.56	26493808.78	26493809.00	0.0135	0.0003
Venus	67826-02-07 12:58 G	26494034.84	26494035.04	26494035.26	0.0135	0.0037
Mercury	67826-02-12 22:05 G	26494040.40	26494040.42	26494040.48	0.0135	0.0130
Mercury	67826-05-12 02:24 G	26494128.52	26494128.60	26494128.69	0.0136	0.0109
Mercury	67826-08-08 06:15 G	26494216.66	26494216.76	26494216.88	0.0136	0.0089
Venus	67826-09-21 19:27 G	26494261.14	26494261.31	26494261.51	0.0136	0.0071
Mercury	67826-11-04 10:19 G	26494304.81	26494304.93	26494305.06	0.0136	0.0068
Mercury	67827-01-31 14:24 G	26494392.96	26494393.10	26494393.24	0.0136	0.0047
Mercury	67827-04-29 18:15 G	26494481.12	26494481.26	26494481.40	0.0136	0.0027
Venus	67827-05-06 02:24 G	26494487.47	26494487.60	26494487.74	0.0136	0.0104
Moon	67827-07-16 01:41 G	26494558.44	26494558.57	26494558.74	0.0136	0.0105
Earth	67827-07-16 03:22 G	26494558.50	26494558.64	26494558.82	0.0136	0.0105 *
Mercury	67827-07-26 22:05 G	26494569.28	26494569.42	26494569.57	0.0136	0.0008
Mercury	67827-10-23 01:55 G	26494657.44	26494657.58	26494657.73	0.0136	0.0014
Mercury	67828-01-19 05:46 G	26494745.61	26494745.74	26494745.89	0.0136	0.0033
Mercury	67828-04-16 09:36 G	26494833.77	26494833.90	26494834.04	0.0136	0.0053
Mercury	67828-07-13 13:27 G	26494921.94	26494922.06	26494922.18	0.0136	0.0073
Earth	67828-07-19 12:58 G	26494927.82	26494928.04	26494928.27	0.0136	0.0062
Moon	67828-07-19 15:07 G	26494927.91	26494928.13	26494928.38	0.0136	0.0058 *
Mercury	67828-10-09 17:03 G	26495010.12	26495010.21	26495010.32	0.0136	0.0093
Mercury	67829-01-05 20:39 G	26495098.30	26495098.36	26495098.46	0.0136	0.0113
Mercury	67829-04-04 00:29 G	26495186.50	26495186.52	26495186.57	0.0136	0.0132
Moon	67829-07-23 21:22 G	26495297.15	26495297.39	26495297.63	0.0136	0.0024

Earth	67829-07-23 23:03 G	26495297.21	26495297.46	26495297.72	0.0136	0.0018	*
Earth	67830-07-28 09:22 G	26495666.65	26495666.89	26495667.14	0.0137	0.0026	
Moon	67830-07-28 12:00 G	26495666.75	26495667.00	26495667.26	0.0137	0.0033	*
Moon	67831-08-01 18:00 G	26496036.04	26496036.25	26496036.48	0.0137	0.0063	
Earth	67831-08-01 20:39 G	26496036.15	26496036.36	26496036.58	0.0137	0.0070	*
Earth	67832-08-05 08:24 G	26496405.71	26496405.85	26496405.99	0.0138	0.0115	
Moon	67832-08-05 10:48 G	26496405.84	26496405.95	26496406.09	0.0138	0.0120	*
Venus	67863-12-02 13:41 G	26507847.05	26507847.07	26507847.12	0.0143	0.0141	
Venus	67864-07-16 01:12 G	26508073.40	26508073.55	26508073.71	0.0143	0.0101	
Venus	67865-02-27 12:29 G	26508299.83	26508300.02	26508300.22	0.0143	0.0062	
Venus	67865-10-11 23:46 G	26508526.28	26508526.49	26508526.71	0.0143	0.0022	
Venus	67866-05-26 10:48 G	26508752.74	26508752.95	26508753.17	0.0143	0.0018	
Mercury	67866-11-29 23:17 G	26508940.44	26508940.47	26508940.52	0.0143	0.0137	
Venus	67867-01-07 21:36 G	26508979.20	26508979.40	26508979.60	0.0143	0.0058	
Mercury	67867-02-26 05:31 G	26509028.63	26509028.73	26509028.84	0.0143	0.0111	
Mercury	67867-05-25 11:31 G	26509116.85	26509116.98	26509117.13	0.0142	0.0084	
Mercury	67867-08-21 17:46 G	26509205.09	26509205.24	26509205.40	0.0142	0.0058	
Venus	67867-08-22 08:10 G	26509205.69	26509205.84	26509206.01	0.0142	0.0097	
Mercury	67867-11-18 00:15 G	26509293.34	26509293.51	26509293.68	0.0142	0.0030	
Moon	67868-01-17 04:48 G	26509353.57	26509353.70	26509353.85	0.0142	0.0117	
Earth	67868-01-17 06:58 G	26509353.63	26509353.79	26509353.95	0.0142	0.0110	*
Mercury	67868-02-14 06:29 G	26509381.60	26509381.77	26509381.94	0.0142	0.0003	
Venus	67868-04-04 18:43 G	26509432.23	26509432.28	26509432.36	0.0142	0.0135	
Mercury	67868-05-12 12:43 G	26509469.87	26509470.03	26509470.20	0.0142	0.0025	
Mercury	67868-08-08 19:12 G	26509558.14	26509558.30	26509558.46	0.0142	0.0052	
Mercury	67868-11-05 01:27 G	26509646.43	26509646.56	26509646.71	0.0142	0.0080	
Earth	67869-01-21 05:31 G	26509723.50	26509723.73	26509723.97	0.0142	0.0059	
Moon	67869-01-21 08:24 G	26509723.62	26509723.85	26509724.10	0.0142	0.0052	*
Mercury	67869-02-01 07:55 G	26509734.73	26509734.83	26509734.95	0.0142	0.0108	
Mercury	67869-04-30 14:24 G	26509823.06	26509823.10	26509823.16	0.0142	0.0136	

Moon	67870-01-26 01:12 G	26510093.30	26510093.55	26510093.80	0.0142	0.0015
Earth	67870-01-26 03:51 G	26510093.41	26510093.66	26510093.92	0.0142	0.0009 *
Earth	67871-01-31 01:12 G	26510463.31	26510463.55	26510463.80	0.0141	0.0041
Moon	67871-01-31 04:34 G	26510463.45	26510463.69	26510463.95	0.0141	0.0042 *
Moon	67872-02-04 17:46 G	26510833.07	26510833.24	26510833.45	0.0141	0.0093
Earth	67872-02-04 21:36 G	26510833.22	26510833.40	26510833.61	0.0141	0.0090 *
Earth	67873-02-08 17:17 G	26511203.18	26511203.22	26511203.27	0.0141	0.0138
Moon	67873-02-08 20:39 G	26511203.29	26511203.36	26511203.46	0.0141	0.0132
Venus	67907-04-17 22:05 G	26523688.31	26523688.42	26523688.56	0.0135	0.0111
Venus	67907-11-30 04:19 G	26523914.51	26523914.68	26523914.87	0.0135	0.0078
Venus	67908-07-13 10:34 G	26524140.74	26524140.94	26524141.15	0.0135	0.0045
Venus	67909-02-24 17:03 G	26524366.99	26524367.21	26524367.43	0.0135	0.0011
Venus	67909-10-08 23:31 G	26524593.27	26524593.48	26524593.70	0.0135	0.0022
Mercury	67910-03-06 05:46 G	26524741.69	26524741.74	26524741.81	0.0135	0.0122
Venus	67910-05-23 06:00 G	26524819.56	26524819.75	26524819.96	0.0136	0.0056
Mercury	67910-06-02 09:51 G	26524829.82	26524829.91	26524830.01	0.0136	0.0101
Mercury	67910-08-29 13:55 G	26524917.97	26524918.08	26524918.20	0.0136	0.0080
Mercury	67910-11-25 18:00 G	26525006.12	26525006.25	26525006.38	0.0136	0.0060
Venus	67911-01-04 12:43 G	26525045.87	26525046.03	26525046.20	0.0136	0.0090
Mercury	67911-02-21 21:51 G	26525094.27	26525094.41	26525094.55	0.0136	0.0040
Mercury	67911-05-21 01:41 G	26525182.43	26525182.57	26525182.72	0.0136	0.0020
Moon	67911-07-17 14:10 G	26525239.95	26525240.09	26525240.28	0.0136	0.0100
Earth	67911-07-17 15:36 G	26525239.99	26525240.15	26525240.34	0.0136	0.0099 *
Mercury	67911-08-17 05:46 G	26525270.59	26525270.74	26525270.88	0.0136	0.0002
Venus	67911-08-18 19:12 G	26525272.23	26525272.30	26525272.40	0.0136	0.0124
Mercury	67911-11-13 09:36 G	26525358.76	26525358.90	26525359.04	0.0136	0.0021
Mercury	67912-02-09 13:12 G	26525446.92	26525447.05	26525447.20	0.0136	0.0041
Mercury	67912-05-07 17:17 G	26525535.09	26525535.22	26525535.35	0.0136	0.0060
Earth	67912-07-21 00:58 G	26525609.32	26525609.54	26525609.78	0.0136	0.0056
Moon	67912-07-21 02:10 G	26525609.37	26525609.59	26525609.84	0.0136	0.0058 *

Mercury	67912-08-03 20:53 G	26525623.26	26525623.37	26525623.49	0.0136	0.0080
Mercury	67912-10-31 00:29 G	26525711.44	26525711.52	26525711.63	0.0136	0.0100
Mercury	67913-01-27 04:19 G	26525799.62	26525799.68	26525799.75	0.0136	0.0120
Moon	67913-07-25 09:22 G	26525978.64	26525978.89	26525979.13	0.0136	0.0007
Earth	67913-07-25 11:03 G	26525978.71	26525978.96	26525979.22	0.0136	0.0013 *
Earth	67914-07-29 21:22 G	26526348.15	26526348.39	26526348.64	0.0137	0.0032
Moon	67914-07-29 23:03 G	26526348.21	26526348.46	26526348.72	0.0137	0.0025 *
Moon	67915-08-03 06:00 G	26526717.58	26526717.75	26526717.97	0.0137	0.0084
Earth	67915-08-03 08:10 G	26526717.65	26526717.84	26526718.07	0.0137	0.0077 *
Earth	67916-08-06 19:55 G	26527087.23	26527087.33	26527087.47	0.0138	0.0121
Moon	67916-08-06 22:19 G	26527087.31	26527087.43	26527087.59	0.0138	0.0115 *
Mars	67931-11-14 17:31 G	26532664.93	26532665.23	26532665.54	0.0143	0.0021
Venus	67948-03-16 08:10 G	26538631.73	26538631.84	26538631.97	0.0143	0.0120
Venus	67948-10-28 19:27 G	26538858.15	26538858.31	26538858.51	0.0143	0.0080
Venus	67949-06-12 06:58 G	26539084.59	26539084.79	26539085.01	0.0143	0.0040
Venus	67950-01-24 18:15 G	26539311.04	26539311.26	26539311.47	0.0143	0.0002
Venus	67950-09-08 05:03 G	26539537.50	26539537.71	26539537.92	0.0143	0.0040
Mercury	67950-12-21 06:43 G	26539641.72	26539641.78	26539641.86	0.0143	0.0129
Mercury	67951-03-19 12:58 G	26539729.93	26539730.04	26539730.16	0.0142	0.0102
Venus	67951-04-22 16:05 G	26539763.98	26539764.17	26539764.35	0.0142	0.0079
Mercury	67951-06-15 18:58 G	26539818.16	26539818.29	26539818.44	0.0142	0.0076
Mercury	67951-09-12 01:12 G	26539906.40	26539906.55	26539906.72	0.0142	0.0049
Venus	67951-12-05 02:24 G	26539990.50	26539990.60	26539990.74	0.0142	0.0118
Mercury	67951-12-09 07:41 G	26539994.65	26539994.82	26539994.99	0.0142	0.0021
Moon	67952-01-18 15:51 G	26540034.98	26540035.16	26540035.34	0.0142	0.0097
Earth	67952-01-18 17:31 G	26540035.06	26540035.23	26540035.41	0.0142	0.0104 *
Mercury	67952-03-06 13:55 G	26540082.91	26540083.08	26540083.25	0.0142	0.0006
Mercury	67952-06-02 20:10 G	26540171.18	26540171.34	26540171.51	0.0142	0.0034
Mercury	67952-08-30 02:39 G	26540259.46	26540259.61	26540259.77	0.0142	0.0061
Mercury	67952-11-26 08:53 G	26540347.75	26540347.87	26540348.01	0.0142	0.0089

Earth	67953-01-22 16:19 G	26540404.95	26540405.18	26540405.43	0.0142	0.0053
Moon	67953-01-22 18:29 G	26540405.03	26540405.27	26540405.51	0.0142	0.0060 *
Mercury	67953-02-22 15:22 G	26540436.05	26540436.14	26540436.25	0.0142	0.0117
Moon	67954-01-27 11:46 G	26540774.75	26540774.99	26540775.25	0.0142	0.0004
Earth	67954-01-27 14:39 G	26540774.86	26540775.11	26540775.37	0.0142	0.0003 *
Earth	67955-02-01 11:46 G	26541144.76	26541144.99	26541145.24	0.0141	0.0048
Moon	67955-02-01 14:53 G	26541144.88	26541145.12	26541145.37	0.0141	0.0044 *
Moon	67956-02-06 05:17 G	26541514.54	26541514.72	26541514.91	0.0141	0.0093
Earth	67956-02-06 08:24 G	26541514.67	26541514.85	26541515.05	0.0141	0.0096 *
Mars	67972-03-14 12:58 G	26547395.78	26547396.04	26547396.34	0.0136	0.0055
Venus	67990-12-16 08:24 G	26554246.79	26554246.85	26554246.95	0.0135	0.0125
Venus	67991-07-30 14:39 G	26554472.97	26554473.11	26554473.28	0.0135	0.0092
Venus	67992-03-12 20:53 G	26554699.19	26554699.37	26554699.58	0.0135	0.0059
Venus	67992-10-25 03:36 G	26554925.43	26554925.65	26554925.86	0.0135	0.0025
Venus	67993-06-08 10:05 G	26555151.70	26555151.92	26555152.13	0.0135	0.0008
Mercury	67993-12-28 09:22 G	26555354.88	26555354.89	26555354.91	0.0135	0.0134
Venus	67994-01-20 16:19 G	26555377.98	26555378.18	26555378.39	0.0135	0.0042
Mercury	67994-03-26 13:12 G	26555442.98	26555443.05	26555443.14	0.0136	0.0114
Mercury	67994-06-22 17:31 G	26555531.12	26555531.23	26555531.34	0.0136	0.0093
Earth	67994-07-13 18:29 G	26555552.26	26555552.27	26555552.33	0.0136	0.0135
Venus	67994-09-03 22:48 G	26555604.28	26555604.45	26555604.64	0.0136	0.0076
Mercury	67994-09-18 21:22 G	26555619.27	26555619.39	26555619.52	0.0136	0.0073
Mercury	67994-12-16 01:27 G	26555707.43	26555707.56	26555707.69	0.0136	0.0052
Mercury	67995-03-14 05:17 G	26555795.58	26555795.72	26555795.87	0.0136	0.0032
Venus	67995-04-18 05:17 G	26555830.61	26555830.72	26555830.87	0.0136	0.0110
Mercury	67995-06-10 09:22 G	26555883.74	26555883.89	26555884.03	0.0136	0.0012
Moon	67995-07-18 03:07 G	26555921.46	26555921.63	26555921.82	0.0136	0.0091
Earth	67995-07-18 03:51 G	26555921.48	26555921.66	26555921.85	0.0136	0.0092 *
Mercury	67995-09-06 13:12 G	26555971.90	26555972.05	26555972.19	0.0136	0.0008
Mercury	67995-12-03 17:03 G	26556060.07	26556060.21	26556060.35	0.0136	0.0028

Mercury	67996-02-29 20:53 G	26556148.23	26556148.37	26556148.50	0.0136	0.0048
Mercury	67996-05-28 00:29 G	26556236.40	26556236.52	26556236.65	0.0136	0.0068
Earth	67996-07-21 13:12 G	26556290.82	26556291.05	26556291.29	0.0136	0.0050
Moon	67996-07-21 14:10 G	26556290.86	26556291.09	26556291.34	0.0136	0.0047 *
Mercury	67996-08-24 04:19 G	26556324.58	26556324.68	26556324.79	0.0136	0.0088
Mercury	67996-11-20 08:10 G	26556412.76	26556412.84	26556412.93	0.0136	0.0107
Mercury	67997-02-16 12:00 G	26556500.95	26556501.00	26556501.05	0.0136	0.0127
Moon	67997-07-25 22:19 G	26556660.19	26556660.43	26556660.67	0.0136	0.0010
Earth	67997-07-25 23:03 G	26556660.21	26556660.46	26556660.72	0.0136	0.0006 *
Earth	67998-07-30 09:07 G	26557029.65	26557029.88	26557030.14	0.0137	0.0038
Moon	67998-07-30 10:48 G	26557029.71	26557029.95	26557030.21	0.0137	0.0045 *
Moon	67999-08-03 19:12 G	26557399.09	26557399.30	26557399.50	0.0137	0.0075
Earth	67999-08-03 20:10 G	26557399.16	26557399.34	26557399.56	0.0137	0.0082 *
Earth	68000-08-07 07:55 G	26557768.75	26557768.83	26557768.95	0.0137	0.0127
Moon	68000-08-07 09:36 G	26557768.85	26557768.90	26557769.00	0.0137	0.0132 *

69TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 69th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	68031-11-14 14:39 G		26569190.07	26569190.11	26569190.18	0.0143	0.0138	
Venus	68032-06-28 02:10 G		26569416.44	26569416.59	26569416.76	0.0143	0.0098	
Venus	68033-02-09 13:41 G		26569642.87	26569643.07	26569643.27	0.0143	0.0058	
Venus	68033-09-24 00:43 G		26569869.32	26569869.53	26569869.75	0.0143	0.0019	

Venus	68034-05-08 11:46 G	26570095.78	26570095.99	26570096.21	0.0143	0.0021
Venus	68034-12-20 22:34 G	26570322.25	26570322.44	26570322.64	0.0143	0.0061
Mercury	68035-01-10 13:55 G	26570343.00	26570343.08	26570343.17	0.0142	0.0121
Mercury	68035-04-08 19:55 G	26570431.22	26570431.33	26570431.47	0.0142	0.0094
Mercury	68035-07-06 02:10 G	26570519.45	26570519.59	26570519.75	0.0142	0.0068
Venus	68035-08-04 09:22 G	26570548.74	26570548.89	26570549.05	0.0142	0.0100
Mercury	68035-10-02 08:24 G	26570607.69	26570607.85	26570608.02	0.0142	0.0041
Mercury	68035-12-29 14:39 G	26570695.94	26570696.11	26570696.28	0.0142	0.0014
Moon	68036-01-19 01:55 G	26570716.43	26570716.58	26570716.77	0.0142	0.0104
Earth	68036-01-19 02:39 G	26570716.45	26570716.61	26570716.82	0.0142	0.0099 *
Venus	68036-03-17 19:55 G	26570775.29	26570775.33	26570775.38	0.0142	0.0138
Mercury	68036-03-26 21:07 G	26570784.21	26570784.38	26570784.55	0.0142	0.0014
Mercury	68036-06-23 03:22 G	26570872.48	26570872.64	26570872.81	0.0142	0.0041
Mercury	68036-09-19 09:36 G	26570960.76	26570960.90	26570961.06	0.0142	0.0069
Mercury	68036-12-16 15:51 G	26571049.05	26571049.16	26571049.30	0.0142	0.0097
Earth	68037-01-23 01:27 G	26571086.33	26571086.56	26571086.82	0.0142	0.0048
Moon	68037-01-23 03:36 G	26571086.40	26571086.65	26571086.91	0.0142	0.0040 *
Mercury	68037-03-14 22:34 G	26571137.36	26571137.44	26571137.52	0.0142	0.0124
Moon	68038-01-27 22:05 G	26571456.17	26571456.42	26571456.67	0.0142	0.0004
Earth	68038-01-28 00:00 G	26571456.24	26571456.50	26571456.75	0.0142	0.0003 *
Earth	68039-02-01 20:53 G	26571826.15	26571826.37	26571826.62	0.0141	0.0053
Moon	68039-02-02 00:00 G	26571826.26	26571826.50	26571826.74	0.0141	0.0054 *
Moon	68040-02-06 14:24 G	26572195.94	26572196.10	26572196.29	0.0141	0.0102
Earth	68040-02-06 17:17 G	26572196.06	26572196.22	26572196.41	0.0141	0.0101 *
Mars	68056-11-07 08:39 G	26578314.69	26578314.86	26578315.07	0.0135	0.0107
Venus	68075-03-30 00:43 G	26585031.41	26585031.53	26585031.68	0.0135	0.0106
Venus	68075-11-11 06:58 G	26585257.62	26585257.79	26585257.99	0.0135	0.0073
Venus	68076-06-24 13:12 G	26585483.86	26585484.05	26585484.27	0.0135	0.0041
Venus	68077-02-05 19:41 G	26585710.11	26585710.32	26585710.54	0.0135	0.0007
Venus	68077-09-20 02:10 G	26585936.38	26585936.59	26585936.81	0.0135	0.0027

Mercury	68078-01-17 16:48 G	26586056.15	26586056.20	26586056.25	0.0135	0.0127
Mercury	68078-04-15 20:39 G	26586144.28	26586144.36	26586144.46	0.0136	0.0107
Venus	68078-05-04 08:53 G	26586162.67	26586162.87	26586163.06	0.0136	0.0061
Mercury	68078-07-13 00:43 G	26586232.42	26586232.53	26586232.65	0.0136	0.0086
Moon	68078-07-14 06:00 G	26586233.66	26586233.75	26586233.86	0.0136	0.0124
Earth	68078-07-14 05:46 G	26586233.68	26586233.74	26586233.84	0.0136	0.0129 *
Mercury	68078-10-09 04:48 G	26586320.57	26586320.70	26586320.83	0.0136	0.0066
Venus	68078-12-16 15:07 G	26586388.99	26586389.13	26586389.30	0.0136	0.0095
Mercury	68079-01-05 08:39 G	26586408.73	26586408.86	26586409.00	0.0136	0.0045
Mercury	68079-04-03 12:43 G	26586496.88	26586497.03	26586497.17	0.0136	0.0025
Mercury	68079-06-30 16:34 G	26586585.05	26586585.19	26586585.34	0.0136	0.0005
Earth	68079-07-18 14:39 G	26586602.93	26586603.11	26586603.32	0.0136	0.0087
Moon	68079-07-18 14:39 G	26586602.94	26586603.11	26586603.30	0.0136	0.0089 *
Venus	68079-07-30 21:36 G	26586615.35	26586615.40	26586615.49	0.0136	0.0129
Mercury	68079-09-26 20:24 G	26586673.21	26586673.35	26586673.50	0.0136	0.0015
Mercury	68079-12-24 00:15 G	26586761.37	26586761.51	26586761.65	0.0136	0.0035
Mercury	68080-03-21 04:05 G	26586849.54	26586849.67	26586849.80	0.0136	0.0055
Mercury	68080-06-17 07:41 G	26586937.71	26586937.82	26586937.95	0.0136	0.0075
Moon	68080-07-22 00:29 G	26586972.27	26586972.52	26586972.76	0.0136	0.0045
Earth	68080-07-22 00:00 G	26586972.28	26586972.50	26586972.75	0.0136	0.0045 *
Mercury	68080-09-13 11:46 G	26587025.89	26587025.99	26587026.09	0.0136	0.0094
Mercury	68080-12-10 15:22 G	26587114.07	26587114.14	26587114.22	0.0136	0.0114
Mercury	68081-03-08 19:12 G	26587202.28	26587202.30	26587202.33	0.0136	0.0133
Moon	68081-07-26 09:22 G	26587341.64	26587341.89	26587342.13	0.0136	0.0004
Earth	68081-07-26 10:05 G	26587341.67	26587341.92	26587342.17	0.0136	0.0001 *
Earth	68082-07-30 20:39 G	26587711.12	26587711.36	26587711.60	0.0137	0.0043
Moon	68082-07-30 20:53 G	26587711.12	26587711.37	26587711.63	0.0137	0.0037 *
Moon	68083-08-04 06:29 G	26588080.60	26588080.77	26588080.95	0.0137	0.0094
Earth	68083-08-04 07:27 G	26588080.63	26588080.81	26588081.01	0.0137	0.0087 *
Earth	68084-08-07 19:27 G	26588450.24	26588450.31	26588450.38	0.0137	0.0132

Moon	68084-08-07 20:10 G	26588450.26	26588450.34	26588450.47	0.0137	0.0126 *
Mars	68099-04-02 09:51 G	26593800.69	26593800.91	26593801.13	0.0143	0.0101
Venus	68116-02-27 08:53 G	26599974.76	26599974.87	26599975.01	0.0143	0.0117
Venus	68116-10-10 20:39 G	26600201.18	26600201.36	26600201.55	0.0143	0.0076
Venus	68117-05-25 07:55 G	26600427.62	26600427.83	26600428.04	0.0143	0.0036
Venus	68118-01-06 18:58 G	26600654.07	26600654.29	26600654.51	0.0143	0.0003
Venus	68118-08-21 05:46 G	26600880.53	26600880.74	26600880.95	0.0143	0.0043
Mercury	68118-11-04 15:07 G	26600956.10	26600956.13	26600956.17	0.0143	0.0139
Mercury	68119-01-31 21:07 G	26601044.29	26601044.38	26601044.49	0.0142	0.0113
Venus	68119-04-04 16:19 G	26601107.02	26601107.18	26601107.37	0.0142	0.0083
Mercury	68119-04-30 03:07 G	26601132.51	26601132.63	26601132.78	0.0142	0.0087
Mercury	68119-07-27 09:22 G	26601220.75	26601220.89	26601221.05	0.0142	0.0060
Mercury	68119-10-23 15:51 G	26601308.99	26601309.16	26601309.32	0.0142	0.0032
Venus	68119-11-17 03:07 G	26601333.53	26601333.63	26601333.76	0.0142	0.0121
Mercury	68120-01-19 22:05 G	26601397.25	26601397.42	26601397.59	0.0142	0.0005
Moon	68120-01-20 12:29 G	26601397.84	26601398.02	26601398.23	0.0142	0.0087
Earth	68120-01-20 13:12 G	26601397.86	26601398.05	26601398.25	0.0142	0.0092 *
Mercury	68120-04-17 04:19 G	26601485.51	26601485.68	26601485.85	0.0142	0.0022
Mercury	68120-07-14 10:34 G	26601573.78	26601573.94	26601574.10	0.0142	0.0050
Mercury	68120-10-10 16:48 G	26601662.07	26601662.20	26601662.35	0.0142	0.0077
Mercury	68121-01-06 23:17 G	26601750.36	26601750.47	26601750.59	0.0142	0.0105
Earth	68121-01-24 11:46 G	26601767.76	26601767.99	26601768.25	0.0142	0.0042
Moon	68121-01-24 12:29 G	26601767.78	26601768.02	26601768.28	0.0142	0.0049 *
Mercury	68121-04-05 05:31 G	26601838.69	26601838.73	26601838.81	0.0142	0.0133
Moon	68122-01-29 08:10 G	26602137.60	26602137.84	26602138.09	0.0142	0.0015
Earth	68122-01-29 10:05 G	26602137.67	26602137.92	26602138.18	0.0142	0.0008 *
Earth	68123-02-03 07:12 G	26602507.57	26602507.80	26602508.04	0.0141	0.0057
Moon	68123-02-03 08:53 G	26602507.64	26602507.87	26602508.13	0.0141	0.0054 *
Moon	68124-02-08 00:58 G	26602877.39	26602877.54	26602877.72	0.0141	0.0105
Earth	68124-02-08 03:22 G	26602877.49	26602877.64	26602877.83	0.0141	0.0106 *

Jupiter	68157-07-20 02:53 G	26615093.21	26615093.62	26615094.10	0.0135	0.0058
Venus	68158-11-28 10:48 G	26615589.87	26615589.95	26615590.06	0.0135	0.0120
Venus	68159-07-12 17:03 G	26615816.05	26615816.21	26615816.38	0.0135	0.0087
Venus	68160-02-23 23:17 G	26616042.27	26616042.47	26616042.67	0.0135	0.0054
Venus	68160-10-07 05:31 G	26616268.52	26616268.73	26616268.95	0.0135	0.0021
Venus	68161-05-21 12:00 G	26616494.79	26616495.00	26616495.22	0.0135	0.0013
Venus	68162-01-02 18:15 G	26616721.07	26616721.26	26616721.47	0.0136	0.0047
Mercury	68162-02-07 23:46 G	26616757.44	26616757.49	26616757.57	0.0136	0.0121
Mercury	68162-05-07 04:05 G	26616845.57	26616845.67	26616845.77	0.0136	0.0100
Moon	68162-07-15 16:05 G	26616915.11	26616915.17	26616915.27	0.0136	0.0129
Earth	68162-07-15 16:48 G	26616915.12	26616915.20	26616915.32	0.0136	0.0124 *
Mercury	68162-08-03 07:55 G	26616933.72	26616933.83	26616933.96	0.0136	0.0080
Venus	68162-08-17 00:43 G	26616947.37	26616947.53	26616947.72	0.0136	0.0080
Mercury	68162-10-30 12:00 G	26617021.87	26617022.00	26617022.13	0.0136	0.0059
Mercury	68163-01-26 15:51 G	26617110.03	26617110.16	26617110.31	0.0136	0.0039
Venus	68163-03-31 07:27 G	26617173.70	26617173.81	26617173.94	0.0136	0.0114
Mercury	68163-04-24 19:55 G	26617198.19	26617198.33	26617198.48	0.0136	0.0018
Earth	68163-07-20 01:27 G	26617284.38	26617284.56	26617284.78	0.0136	0.0082
Moon	68163-07-20 02:24 G	26617284.41	26617284.60	26617284.81	0.0136	0.0079 *
Mercury	68163-07-21 23:46 G	26617286.35	26617286.49	26617286.64	0.0136	0.0003
Mercury	68163-10-18 03:36 G	26617374.51	26617374.65	26617374.80	0.0136	0.0022
Mercury	68164-01-14 07:27 G	26617462.68	26617462.81	26617462.95	0.0136	0.0042
Mercury	68164-04-11 11:31 G	26617550.85	26617550.98	26617551.10	0.0136	0.0062
Mercury	68164-07-08 15:07 G	26617639.02	26617639.13	26617639.25	0.0136	0.0081
Moon	68164-07-23 11:03 G	26617653.71	26617653.96	26617654.22	0.0136	0.0038
Earth	68164-07-23 11:03 G	26617653.73	26617653.96	26617654.21	0.0136	0.0039 *
Mercury	68164-10-04 18:43 G	26617727.20	26617727.28	26617727.39	0.0136	0.0101
Mercury	68164-12-31 22:34 G	26617815.39	26617815.44	26617815.51	0.0136	0.0121
Earth	68165-07-27 21:07 G	26618023.13	26618023.38	26618023.63	0.0136	0.0005
Moon	68165-07-27 21:36 G	26618023.15	26618023.40	26618023.64	0.0136	0.0002 *

Earth	68166-08-01 07:12 G	26618392.58	26618392.80	26618393.05	0.0137	0.0049
Moon	68166-08-01 07:27 G	26618392.59	26618392.81	26618393.07	0.0137	0.0055 *
Moon	68167-08-05 18:15 G	26618762.08	26618762.26	26618762.46	0.0137	0.0086
Earth	68167-08-05 18:15 G	26618762.09	26618762.26	26618762.46	0.0137	0.0093 *
Earth	68168-08-09 06:29 G	26619131.76	26619131.77	26619131.80	0.0137	0.0137
Mars	68183-11-27 22:34 G	26624720.22	26624720.44	26624720.70	0.0143	0.0091
Jupiter	68198-12-10 14:24 G	26630211.55	26630212.10	26630212.64	0.0143	0.0002
Venus	68199-10-27 15:36 G	26630533.08	26630533.15	26630533.23	0.0143	0.0134
Venus	68200-06-11 03:07 G	26630759.47	26630759.63	26630759.79	0.0143	0.0094
Venus	68201-01-23 14:10 G	26630985.89	26630986.09	26630986.30	0.0143	0.0055
Venus	68201-09-07 01:27 G	26631212.34	26631212.56	26631212.77	0.0143	0.0015
Venus	68202-04-21 12:15 G	26631438.80	26631439.01	26631439.23	0.0143	0.0025
Mercury	68202-11-25 22:19 G	26631657.37	26631657.43	26631657.49	0.0143	0.0132
Venus	68202-12-03 23:03 G	26631665.27	26631665.46	26631665.66	0.0143	0.0065
Moon	68203-01-16 21:36 G	26631709.35	26631709.40	26631709.50	0.0143	0.0137
Earth	68203-01-16 22:19 G	26631709.40	26631709.43	26631709.52	0.0143	0.0139 *
Mercury	68203-02-22 04:05 G	26631745.57	26631745.67	26631745.79	0.0142	0.0106
Mercury	68203-05-21 10:19 G	26631833.80	26631833.93	26631834.08	0.0142	0.0079
Venus	68203-07-18 09:36 G	26631891.77	26631891.90	26631892.06	0.0142	0.0104
Mercury	68203-08-17 16:34 G	26631922.03	26631922.19	26631922.35	0.0142	0.0052
Mercury	68203-11-13 22:48 G	26632010.28	26632010.45	26632010.62	0.0142	0.0025
Earth	68204-01-21 21:51 G	26632079.23	26632079.41	26632079.63	0.0142	0.0088
Moon	68204-01-21 22:48 G	26632079.27	26632079.45	26632079.64	0.0142	0.0093 *
Mercury	68204-02-10 05:03 G	26632098.54	26632098.71	26632098.88	0.0142	0.0002
Venus	68204-02-29 20:10 G	26632118.34	26632118.34	26632118.36	0.0142	0.0142
Mercury	68204-05-08 11:17 G	26632186.80	26632186.97	26632187.14	0.0142	0.0029
Mercury	68204-08-04 17:31 G	26632275.08	26632275.23	26632275.39	0.0142	0.0056
Mercury	68204-10-31 23:46 G	26632363.36	26632363.49	26632363.64	0.0142	0.0084
Earth	68205-01-25 20:39 G	26632449.12	26632449.36	26632449.62	0.0142	0.0038
Moon	68205-01-25 21:22 G	26632449.14	26632449.39	26632449.66	0.0142	0.0030 *

Mercury	68205-01-28 06:29 G	26632451.66	26632451.77	26632451.87	0.0142	0.0111
Mercury	68205-04-26 12:43 G	26632540.00	26632540.03	26632540.06	0.0142	0.0139
Moon	68206-01-30 18:15 G	26632819.02	26632819.26	26632819.51	0.0142	0.0006
Earth	68206-01-30 18:58 G	26632819.03	26632819.29	26632819.54	0.0142	0.0012 *
Earth	68207-02-04 16:05 G	26633188.94	26633189.17	26633189.40	0.0141	0.0062
Moon	68207-02-04 17:46 G	26633189.01	26633189.24	26633189.48	0.0141	0.0065 *
Moon	68208-02-09 10:19 G	26633558.79	26633558.93	26633559.10	0.0141	0.0110
Earth	68208-02-09 12:15 G	26633558.86	26633559.01	26633559.18	0.0141	0.0110 *
Mars	68224-03-28 11:17 G	26639450.66	26639450.97	26639451.28	0.0136	0.0002
Venus	68242-07-29 20:24 G	26646148.34	26646148.35	26646148.38	0.0135	0.0134
Venus	68243-03-13 02:39 G	26646374.47	26646374.61	26646374.76	0.0135	0.0101
Venus	68243-10-25 08:53 G	26646600.68	26646600.87	26646601.06	0.0135	0.0068
Venus	68244-06-07 15:07 G	26646826.92	26646827.13	26646827.34	0.0135	0.0035
Venus	68245-01-19 21:22 G	26647053.17	26647053.39	26647053.61	0.0135	0.0002
Venus	68245-09-03 03:36 G	26647279.44	26647279.65	26647279.87	0.0135	0.0032
Mercury	68245-12-03 03:07 G	26647370.62	26647370.63	26647370.64	0.0136	0.0135
Mercury	68246-03-01 06:58 G	26647458.72	26647458.79	26647458.88	0.0136	0.0115
Venus	68246-04-17 10:05 G	26647505.74	26647505.92	26647506.12	0.0136	0.0066
Mercury	68246-05-28 11:03 G	26647546.86	26647546.96	26647547.07	0.0136	0.0094
Moon	68246-07-17 01:55 G	26647596.45	26647596.58	26647596.74	0.0136	0.0113
Earth	68246-07-17 03:07 G	26647596.53	26647596.63	26647596.77	0.0136	0.0119 *
Mercury	68246-08-24 15:07 G	26647635.01	26647635.13	26647635.26	0.0136	0.0073
Mercury	68246-11-20 19:12 G	26647723.17	26647723.30	26647723.44	0.0136	0.0053
Venus	68246-11-29 16:34 G	26647732.06	26647732.19	26647732.35	0.0136	0.0100
Mercury	68247-02-16 23:03 G	26647811.32	26647811.46	26647811.61	0.0136	0.0033
Mercury	68247-05-16 03:07 G	26647899.48	26647899.63	26647899.77	0.0136	0.0013
Venus	68247-07-13 23:17 G	26647958.44	26647958.47	26647958.52	0.0136	0.0133
Earth	68247-07-21 12:00 G	26647965.80	26647966.00	26647966.22	0.0136	0.0077
Moon	68247-07-21 13:12 G	26647965.86	26647966.05	26647966.25	0.0136	0.0080 *
Mercury	68247-08-12 06:58 G	26647987.65	26647987.79	26647987.94	0.0136	0.0008

Mercury	68247-11-08 10:48 G	26648075.81	26648075.95	26648076.09	0.0136	0.0028
Mercury	68248-02-04 14:39 G	26648163.98	26648164.11	26648164.25	0.0136	0.0048
Mercury	68248-05-02 18:29 G	26648252.15	26648252.27	26648252.40	0.0136	0.0067
Moon	68248-07-24 20:10 G	26648335.09	26648335.34	26648335.60	0.0136	0.0033
Earth	68248-07-24 21:22 G	26648335.16	26648335.39	26648335.64	0.0136	0.0035 *
Mercury	68248-07-29 22:19 G	26648340.32	26648340.43	26648340.54	0.0136	0.0087
Mercury	68248-10-26 02:10 G	26648428.50	26648428.59	26648428.68	0.0136	0.0107
Mercury	68249-01-22 05:46 G	26648516.70	26648516.74	26648516.80	0.0136	0.0126
Earth	68249-07-29 07:12 G	26648704.55	26648704.80	26648705.06	0.0137	0.0010
Moon	68249-07-29 07:41 G	26648704.58	26648704.82	26648705.07	0.0137	0.0013 *
Moon	68250-08-02 16:48 G	26649073.97	26649074.20	26649074.46	0.0137	0.0048
Earth	68250-08-02 17:46 G	26649074.01	26649074.24	26649074.48	0.0137	0.0053 *
Earth	68251-08-07 04:48 G	26649443.54	26649443.70	26649443.89	0.0137	0.0097
Moon	68251-08-07 05:03 G	26649443.56	26649443.71	26649443.88	0.0137	0.0104 *
Moon	68252-08-10 16:34 G	26649813.16	26649813.19	26649813.27	0.0137	0.0135
Venus	68284-02-09 09:07 G	26661317.77	26661317.88	26661318.03	0.0143	0.0114
Venus	68284-09-22 20:39 G	26661544.19	26661544.36	26661544.56	0.0143	0.0073
Venus	68285-05-07 07:55 G	26661770.63	26661770.83	26661771.05	0.0143	0.0033
Venus	68285-12-19 18:58 G	26661997.08	26661997.29	26661997.51	0.0143	0.0008
Venus	68286-08-03 05:46 G	26662223.54	26662223.74	26662223.95	0.0143	0.0047
Mercury	68286-12-16 05:17 G	26662358.65	26662358.72	26662358.81	0.0143	0.0125
Moon	68287-01-17 06:29 G	26662390.69	26662390.77	26662390.88	0.0143	0.0133
Earth	68287-01-17 07:55 G	26662390.77	26662390.83	26662390.95	0.0143	0.0134 *
Mercury	68287-03-14 11:17 G	26662446.86	26662446.97	26662447.10	0.0142	0.0098
Venus	68287-03-17 16:34 G	26662450.02	26662450.19	26662450.37	0.0142	0.0086
Mercury	68287-06-10 17:31 G	26662535.09	26662535.23	26662535.38	0.0142	0.0072
Mercury	68287-09-06 23:31 G	26662623.33	26662623.48	26662623.65	0.0142	0.0045
Venus	68287-10-30 03:07 G	26662676.54	26662676.63	26662676.74	0.0142	0.0125
Mercury	68287-12-04 05:46 G	26662711.58	26662711.74	26662711.91	0.0142	0.0018
Earth	68288-01-22 07:27 G	26662760.61	26662760.81	26662761.03	0.0142	0.0083

Moon	68288-01-22 08:10 G	26662760.65	26662760.84	26662761.06	0.0142	0.0078	*
Mercury	68288-03-01 12:00 G	26662799.83	26662800.00	26662800.17	0.0142	0.0009	
Mercury	68288-05-28 18:15 G	26662888.10	26662888.26	26662888.43	0.0142	0.0036	
Mercury	68288-08-25 00:43 G	26662976.37	26662976.53	26662976.68	0.0142	0.0064	
Mercury	68288-11-21 06:43 G	26663064.66	26663064.78	26663064.92	0.0142	0.0091	
Moon	68289-01-26 05:31 G	26663130.48	26663130.73	26663130.99	0.0142	0.0040	
Earth	68289-01-26 06:15 G	26663130.52	26663130.76	26663131.02	0.0142	0.0033	*
Mercury	68289-02-17 12:58 G	26663152.97	26663153.04	26663153.15	0.0142	0.0119	
Moon	68290-01-31 03:51 G	26663500.42	26663500.66	26663500.91	0.0142	0.0024	
Earth	68290-01-31 04:19 G	26663500.43	26663500.68	26663500.94	0.0142	0.0017	*
Earth	68291-02-05 01:12 G	26663870.34	26663870.55	26663870.79	0.0141	0.0067	
Moon	68291-02-05 01:55 G	26663870.35	26663870.58	26663870.83	0.0141	0.0061	*
Moon	68292-02-09 20:24 G	26664240.22	26664240.35	26664240.51	0.0141	0.0115	
Earth	68292-02-09 22:05 G	26664240.27	26664240.42	26664240.57	0.0141	0.0114	*
Venus	68326-11-11 12:15 G	26676932.91	26676933.01	26676933.13	0.0135	0.0116	
Venus	68327-06-25 18:15 G	26677159.10	26677159.26	26677159.45	0.0135	0.0083	
Venus	68328-02-07 00:43 G	26677385.33	26677385.53	26677385.73	0.0135	0.0050	
Venus	68328-09-20 06:43 G	26677611.57	26677611.78	26677612.00	0.0135	0.0017	
Venus	68329-05-04 13:12 G	26677837.84	26677838.05	26677838.27	0.0135	0.0017	
Venus	68329-12-16 19:41 G	26678064.12	26678064.32	26678064.52	0.0136	0.0051	
Mercury	68329-12-24 10:05 G	26678071.89	26678071.92	26678071.97	0.0136	0.0129	
Mercury	68330-03-22 14:24 G	26678160.01	26678160.10	26678160.19	0.0136	0.0108	
Mercury	68330-06-18 18:15 G	26678248.16	26678248.26	26678248.38	0.0136	0.0088	
Moon	68330-07-18 11:31 G	26678277.89	26678277.98	26678278.12	0.0136	0.0121	
Earth	68330-07-18 13:55 G	26678277.95	26678278.08	26678278.22	0.0136	0.0114	*
Venus	68330-07-31 01:55 G	26678290.42	26678290.58	26678290.76	0.0136	0.0085	
Mercury	68330-09-14 22:19 G	26678336.31	26678336.43	26678336.56	0.0136	0.0067	
Mercury	68330-12-12 02:24 G	26678424.46	26678424.60	26678424.74	0.0136	0.0047	
Mercury	68331-03-10 06:15 G	26678512.62	26678512.76	26678512.91	0.0136	0.0027	
Venus	68331-03-14 08:10 G	26678516.76	26678516.84	26678516.97	0.0136	0.0119	

Mercury	68331-06-06 10:19 G	26678600.78	26678600.93	26678601.07	0.0136	0.0007
Earth	68331-07-22 22:34 G	26678647.24	26678647.44	26678647.66	0.0136	0.0072
Moon	68331-07-23 00:29 G	26678647.31	26678647.52	26678647.73	0.0136	0.0068 *
Mercury	68331-09-02 14:10 G	26678688.95	26678689.09	26678689.24	0.0136	0.0014
Mercury	68331-11-29 18:00 G	26678777.11	26678777.25	26678777.39	0.0136	0.0034
Mercury	68332-02-25 21:51 G	26678865.28	26678865.41	26678865.55	0.0136	0.0054
Mercury	68332-05-24 01:41 G	26678953.45	26678953.57	26678953.69	0.0136	0.0074
Moon	68332-07-26 06:43 G	26679016.52	26679016.78	26679017.03	0.0136	0.0030
Earth	68332-07-26 07:55 G	26679016.59	26679016.83	26679017.08	0.0136	0.0029 *
Mercury	68332-08-20 05:31 G	26679041.63	26679041.73	26679041.84	0.0136	0.0093
Mercury	68332-11-16 09:07 G	26679129.81	26679129.88	26679129.97	0.0136	0.0113
Mercury	68333-02-12 12:58 G	26679218.02	26679218.04	26679218.08	0.0136	0.0133
Earth	68333-07-30 17:46 G	26679385.99	26679386.24	26679386.50	0.0137	0.0014
Moon	68333-07-30 19:27 G	26679386.07	26679386.31	26679386.56	0.0137	0.0012 *
Moon	68334-08-04 03:22 G	26679755.41	26679755.64	26679755.88	0.0137	0.0063
Earth	68334-08-04 04:19 G	26679755.46	26679755.68	26679755.91	0.0137	0.0058 *
Earth	68335-08-08 15:22 G	26680124.99	26680125.14	26680125.32	0.0137	0.0102
Moon	68335-08-08 16:19 G	26680125.02	26680125.18	26680125.37	0.0137	0.0095 *
Mars	68351-04-17 09:51 G	26685855.62	26685855.91	26685856.22	0.0142	0.0038
Venus	68367-10-10 15:36 G	26691876.08	26691876.15	26691876.25	0.0143	0.0132
Venus	68368-05-24 03:07 G	26692102.47	26692102.63	26692102.80	0.0143	0.0091
Venus	68369-01-05 14:24 G	26692328.90	26692329.10	26692329.30	0.0143	0.0051
Venus	68369-08-20 01:12 G	26692555.34	26692555.55	26692555.77	0.0143	0.0012
Venus	68370-04-03 12:15 G	26692781.80	26692782.01	26692782.22	0.0143	0.0028
Venus	68370-11-15 23:03 G	26693008.27	26693008.46	26693008.66	0.0143	0.0068
Mercury	68371-01-06 12:15 G	26693059.93	26693060.01	26693060.11	0.0143	0.0118
Moon	68371-01-18 14:53 G	26693072.02	26693072.12	26693072.25	0.0143	0.0129
Earth	68371-01-18 17:03 G	26693072.12	26693072.21	26693072.34	0.0143	0.0129 *
Mercury	68371-04-04 18:15 G	26693148.14	26693148.26	26693148.40	0.0142	0.0092
Venus	68371-06-30 09:36 G	26693234.77	26693234.90	26693235.05	0.0142	0.0107

Mercury	68371-07-02 00:15 G	26693236.37	26693236.51	26693236.67	0.0142	0.0066
Mercury	68371-09-28 06:29 G	26693324.61	26693324.77	26693324.94	0.0142	0.0039
Mercury	68371-12-25 12:43 G	26693412.86	26693413.03	26693413.20	0.0142	0.0012
Earth	68372-01-23 16:34 G	26693441.98	26693442.19	26693442.41	0.0142	0.0079
Moon	68372-01-23 18:00 G	26693442.07	26693442.25	26693442.47	0.0142	0.0083 *
Mercury	68372-03-22 18:58 G	26693501.12	26693501.29	26693501.46	0.0142	0.0016
Mercury	68372-06-19 01:12 G	26693589.39	26693589.55	26693589.72	0.0142	0.0043
Mercury	68372-09-15 07:27 G	26693677.67	26693677.81	26693677.96	0.0142	0.0070
Mercury	68372-12-12 13:41 G	26693765.95	26693766.07	26693766.20	0.0142	0.0098
Moon	68373-01-27 14:24 G	26693811.84	26693812.10	26693812.37	0.0142	0.0022
Earth	68373-01-27 15:07 G	26693811.89	26693812.13	26693812.39	0.0142	0.0029 *
Mercury	68373-03-10 20:10 G	26693854.27	26693854.34	26693854.42	0.0142	0.0125
Earth	68374-02-01 12:58 G	26694181.80	26694182.04	26694182.30	0.0142	0.0022
Moon	68374-02-01 13:55 G	26694181.84	26694182.08	26694182.33	0.0142	0.0014 *
Earth	68375-02-06 10:05 G	26694551.71	26694551.92	26694552.16	0.0141	0.0071
Moon	68375-02-06 10:19 G	26694551.73	26694551.93	26694552.18	0.0141	0.0076 *
Moon	68376-02-11 06:00 G	26694921.63	26694921.75	26694921.90	0.0141	0.0117
Earth	68376-02-11 06:29 G	26694921.66	26694921.77	26694921.93	0.0141	0.0119 *
Mars	68391-08-16 12:00 G	26700586.82	26700587.00	26700587.20	0.0136	0.0106
Venus	68410-07-11 21:51 G	26707491.36	26707491.41	26707491.46	0.0135	0.0130
Venus	68411-02-23 03:22 G	26707717.51	26707717.64	26707717.81	0.0135	0.0098
Venus	68411-10-07 09:51 G	26707943.72	26707943.91	26707944.10	0.0135	0.0065
Venus	68412-05-20 16:05 G	26708169.96	26708170.17	26708170.39	0.0135	0.0031
Venus	68413-01-01 22:19 G	26708396.22	26708396.43	26708396.65	0.0135	0.0003
Venus	68413-08-16 04:48 G	26708622.49	26708622.70	26708622.91	0.0136	0.0036
Mercury	68414-01-13 17:17 G	26708773.17	26708773.22	26708773.29	0.0136	0.0123
Venus	68414-03-30 11:03 G	26708848.78	26708848.96	26708849.15	0.0136	0.0070
Mercury	68414-04-11 21:07 G	26708861.30	26708861.38	26708861.49	0.0136	0.0103
Mercury	68414-07-09 01:27 G	26708949.45	26708949.56	26708949.68	0.0136	0.0082
Moon	68414-07-18 21:22 G	26708959.24	26708959.39	26708959.58	0.0136	0.0103

Earth	68414-07-19 00:15 G	26708959.36	26708959.51	26708959.66	0.0136	0.0109	*
Mercury	68414-10-05 05:31 G	26709037.60	26709037.73	26709037.86	0.0136	0.0061	
Venus	68414-11-11 17:17 G	26709075.10	26709075.22	26709075.38	0.0136	0.0104	
Mercury	68415-01-01 09:22 G	26709125.76	26709125.89	26709126.04	0.0136	0.0041	
Mercury	68415-03-30 13:27 G	26709213.92	26709214.06	26709214.21	0.0136	0.0021	
Mercury	68415-06-26 17:17 G	26709302.08	26709302.22	26709302.37	0.0136	0.0004	
Earth	68415-07-23 08:39 G	26709328.65	26709328.86	26709329.09	0.0136	0.0067	
Moon	68415-07-23 10:34 G	26709328.75	26709328.94	26709329.17	0.0136	0.0072	*
Mercury	68415-09-22 21:22 G	26709390.24	26709390.39	26709390.53	0.0136	0.0020	
Mercury	68415-12-20 01:12 G	26709478.41	26709478.55	26709478.69	0.0136	0.0040	
Mercury	68416-03-17 05:03 G	26709566.58	26709566.71	26709566.84	0.0136	0.0060	
Mercury	68416-06-13 08:53 G	26709654.75	26709654.87	26709654.99	0.0136	0.0079	
Moon	68416-07-26 15:36 G	26709697.91	26709698.15	26709698.42	0.0136	0.0023	
Earth	68416-07-26 18:15 G	26709698.01	26709698.26	26709698.51	0.0136	0.0024	*
Mercury	68416-09-09 12:29 G	26709742.93	26709743.02	26709743.13	0.0136	0.0100	
Mercury	68416-12-06 16:19 G	26709831.12	26709831.18	26709831.26	0.0136	0.0119	
Earth	68417-07-31 04:05 G	26710067.42	26710067.67	26710067.92	0.0137	0.0019	
Moon	68417-07-31 05:46 G	26710067.50	26710067.74	26710067.98	0.0137	0.0022	*
Moon	68418-08-04 12:43 G	26710436.80	26710437.03	26710437.27	0.0137	0.0058	
Earth	68418-08-04 14:39 G	26710436.90	26710437.11	26710437.34	0.0137	0.0063	*
Earth	68419-08-09 02:10 G	26710806.44	26710806.59	26710806.75	0.0137	0.0107	
Moon	68419-08-09 03:22 G	26710806.51	26710806.64	26710806.78	0.0137	0.0113	*
Venus	68452-01-22 09:07 G	26722660.75	26722660.88	26722661.03	0.0143	0.0111	
Venus	68452-09-04 20:24 G	26722887.17	26722887.35	26722887.54	0.0143	0.0071	
Venus	68453-04-19 07:27 G	26723113.60	26723113.81	26723114.03	0.0143	0.0031	
Venus	68453-12-01 18:29 G	26723340.06	26723340.27	26723340.49	0.0143	0.0010	
Venus	68454-07-16 05:17 G	26723566.52	26723566.72	26723566.93	0.0143	0.0049	
Mercury	68454-10-30 13:27 G	26723673.02	26723673.06	26723673.10	0.0143	0.0137	
Moon	68455-01-18 23:03 G	26723753.35	26723753.46	26723753.62	0.0142	0.0122	
Earth	68455-01-19 01:55 G	26723753.48	26723753.58	26723753.73	0.0142	0.0124	*

Mercury	68455-01-26 19:27 G	26723761.20	26723761.31	26723761.41	0.0142	0.0111
Venus	68455-02-27 15:51 G	26723793.00	26723793.16	26723793.34	0.0142	0.0088
Mercury	68455-04-25 01:12 G	26723849.42	26723849.55	26723849.69	0.0142	0.0085
Mercury	68455-07-22 07:12 G	26723937.66	26723937.80	26723937.97	0.0142	0.0059
Venus	68455-10-12 02:24 G	26724019.52	26724019.60	26724019.71	0.0142	0.0127
Mercury	68455-10-18 13:41 G	26724025.90	26724026.07	26724026.23	0.0142	0.0031
Mercury	68456-01-14 19:41 G	26724114.15	26724114.32	26724114.49	0.0142	0.0005
Earth	68456-01-24 01:27 G	26724123.35	26724123.56	26724123.79	0.0142	0.0073
Moon	68456-01-24 03:36 G	26724123.43	26724123.65	26724123.87	0.0142	0.0069 *
Mercury	68456-04-12 01:55 G	26724202.41	26724202.58	26724202.75	0.0142	0.0023
Mercury	68456-07-09 07:55 G	26724290.68	26724290.83	26724291.00	0.0142	0.0051
Mercury	68456-10-05 14:24 G	26724378.96	26724379.10	26724379.25	0.0142	0.0077
Mercury	68457-01-01 20:39 G	26724467.25	26724467.36	26724467.48	0.0142	0.0105
Moon	68457-01-27 22:19 G	26724493.17	26724493.43	26724493.69	0.0142	0.0029
Earth	68457-01-28 00:15 G	26724493.26	26724493.51	26724493.77	0.0142	0.0023 *
Mercury	68457-03-31 03:07 G	26724555.58	26724555.63	26724555.69	0.0142	0.0132
Earth	68458-02-01 22:05 G	26724863.18	26724863.42	26724863.68	0.0142	0.0027
Moon	68458-02-01 23:03 G	26724863.23	26724863.46	26724863.71	0.0142	0.0034 *
Moon	68459-02-06 18:43 G	26725233.05	26725233.28	26725233.51	0.0141	0.0069
Earth	68459-02-06 19:27 G	26725233.10	26725233.31	26725233.53	0.0141	0.0075 *
Earth	68460-02-11 16:05 G	26725603.06	26725603.17	26725603.30	0.0141	0.0123
Moon	68460-02-11 15:51 G	26725603.07	26725603.16	26725603.29	0.0141	0.0126 *
Mars	68476-04-10 07:55 G	26731505.55	26731505.83	26731506.11	0.0136	0.0052
Venus	68494-10-23 12:43 G	26738275.93	26738276.03	26738276.17	0.0135	0.0113
Venus	68495-06-06 18:58 G	26738502.13	26738502.29	26738502.48	0.0135	0.0080
Venus	68496-01-19 01:27 G	26738728.35	26738728.56	26738728.76	0.0135	0.0046
Venus	68496-09-01 07:27 G	26738954.60	26738954.81	26738955.03	0.0135	0.0014
Venus	68497-04-15 13:55 G	26739180.87	26739181.08	26739181.30	0.0135	0.0021
Venus	68497-11-27 20:10 G	26739407.15	26739407.34	26739407.55	0.0136	0.0055
Mercury	68498-02-03 00:15 G	26739474.45	26739474.51	26739474.60	0.0136	0.0117

Mercury	68498-05-02 04:34 G	26739562.59	26739562.69	26739562.79	0.0136	0.0096
Venus	68498-07-12 02:53 G	26739633.46	26739633.62	26739633.79	0.0136	0.0088
Moon	68498-07-19 06:58 G	26739640.66	26739640.79	26739640.95	0.0136	0.0111
Earth	68498-07-19 09:51 G	26739640.77	26739640.91	26739641.09	0.0136	0.0104 *
Mercury	68498-07-29 08:24 G	26739650.74	26739650.85	26739650.98	0.0136	0.0076
Mercury	68498-10-25 12:29 G	26739738.89	26739739.02	26739739.16	0.0136	0.0055
Mercury	68499-01-21 16:34 G	26739827.05	26739827.19	26739827.33	0.0136	0.0035
Venus	68499-02-23 09:22 G	26739859.80	26739859.89	26739859.99	0.0136	0.0122
Mercury	68499-04-19 20:39 G	26739915.21	26739915.36	26739915.50	0.0136	0.0014
Mercury	68499-07-17 00:29 G	26740003.38	26740003.52	26740003.67	0.0136	0.0006
Earth	68499-07-23 18:58 G	26740010.08	26740010.29	26740010.52	0.0136	0.0062
Moon	68499-07-23 21:51 G	26740010.19	26740010.41	26740010.64	0.0136	0.0056 *
Mercury	68499-10-13 04:19 G	26740091.54	26740091.68	26740091.83	0.0136	0.0026
Mercury	68500-01-09 08:10 G	26740179.71	26740179.84	26740179.98	0.0136	0.0047
Mercury	68500-04-07 12:00 G	26740267.88	26740268.00	26740268.14	0.0136	0.0067
Mercury	68500-07-04 15:51 G	26740356.06	26740356.16	26740356.28	0.0136	0.0086
Moon	68500-07-28 02:10 G	26740379.33	26740379.59	26740379.84	0.0136	0.0021
Earth	68500-07-28 04:19 G	26740379.44	26740379.68	26740379.94	0.0136	0.0020 *
Mercury	68500-09-30 19:55 G	26740444.24	26740444.33	26740444.42	0.0136	0.0106
Mercury	68500-12-27 23:31 G	26740532.43	26740532.48	26740532.54	0.0136	0.0125
Earth	68501-08-01 14:24 G	26740748.86	26740749.10	26740749.36	0.0137	0.0025
Moon	68501-08-01 17:17 G	26740748.98	26740749.22	26740749.46	0.0137	0.0024 *
Moon	68502-08-05 23:03 G	26741118.25	26741118.46	26741118.69	0.0137	0.0073
Earth	68502-08-06 01:12 G	26741118.34	26741118.55	26741118.78	0.0137	0.0068 *
Earth	68503-08-10 12:15 G	26741487.88	26741488.01	26741488.17	0.0137	0.0112
Moon	68503-08-10 14:39 G	26741487.96	26741488.11	26741488.27	0.0137	0.0105 *
Venus	68535-09-22 15:07 G	26753219.05	26753219.13	26753219.23	0.0143	0.0129
Venus	68536-05-06 02:39 G	26753445.44	26753445.61	26753445.78	0.0143	0.0089
Venus	68536-12-18 13:27 G	26753671.87	26753672.06	26753672.28	0.0143	0.0050
Venus	68537-08-02 00:43 G	26753898.31	26753898.53	26753898.75	0.0143	0.0010

Venus	68538-03-16 11:31 G	26754124.77	26754124.98	26754125.20	0.0143	0.0030
Venus	68538-10-28 22:19 G	26754351.25	26754351.43	26754351.63	0.0142	0.0070
Mercury	68538-11-20 19:55 G	26754374.28	26754374.33	26754374.41	0.0142	0.0131
Moon	68539-01-20 07:41 G	26754434.68	26754434.82	26754434.96	0.0142	0.0120
Earth	68539-01-20 10:34 G	26754434.82	26754434.94	26754435.10	0.0142	0.0118 *
Mercury	68539-02-17 01:55 G	26754462.48	26754462.58	26754462.71	0.0142	0.0105
Mercury	68539-05-16 08:10 G	26754550.71	26754550.84	26754550.98	0.0142	0.0078
Venus	68539-06-12 08:53 G	26754577.74	26754577.87	26754578.02	0.0142	0.0109
Mercury	68539-08-12 14:10 G	26754638.94	26754639.09	26754639.25	0.0142	0.0052
Mercury	68539-11-08 20:24 G	26754727.19	26754727.35	26754727.52	0.0142	0.0025
Earth	68540-01-25 10:05 G	26754804.70	26754804.92	26754805.15	0.0142	0.0068
Moon	68540-01-25 12:43 G	26754804.83	26754805.03	26754805.26	0.0142	0.0070 *
Mercury	68540-02-05 02:39 G	26754815.44	26754815.61	26754815.78	0.0142	0.0002
Mercury	68540-05-03 08:53 G	26754903.70	26754903.87	26754904.03	0.0142	0.0029
Mercury	68540-07-30 15:07 G	26754991.97	26754992.13	26754992.28	0.0142	0.0056
Mercury	68540-10-26 21:07 G	26755080.25	26755080.38	26755080.53	0.0142	0.0084
Mercury	68541-01-23 03:36 G	26755168.55	26755168.65	26755168.76	0.0142	0.0111
Moon	68541-01-29 06:58 G	26755174.53	26755174.79	26755175.05	0.0142	0.0012
Earth	68541-01-29 08:53 G	26755174.62	26755174.87	26755175.13	0.0142	0.0019 *
Mercury	68541-04-21 09:51 G	26755256.89	26755256.91	26755256.95	0.0142	0.0139
Earth	68542-02-03 06:43 G	26755544.54	26755544.78	26755545.04	0.0141	0.0032
Moon	68542-02-03 08:53 G	26755544.63	26755544.87	26755545.12	0.0141	0.0024 *
Moon	68543-02-08 02:53 G	26755914.43	26755914.62	26755914.85	0.0141	0.0086
Earth	68543-02-08 04:05 G	26755914.47	26755914.67	26755914.89	0.0141	0.0080 *
Earth	68544-02-13 00:43 G	26756284.44	26756284.53	26756284.65	0.0141	0.0128
Moon	68544-02-13 01:27 G	26756284.47	26756284.56	26756284.69	0.0141	0.0125 *
Venus	68578-06-23 21:51 G	26768834.36	26768834.41	26768834.49	0.0135	0.0128
Venus	68579-02-05 03:51 G	26769060.52	26769060.66	26769060.82	0.0135	0.0095
Venus	68579-09-19 09:51 G	26769286.73	26769286.91	26769287.12	0.0135	0.0062
Venus	68580-05-02 16:34 G	26769512.97	26769513.19	26769513.40	0.0135	0.0029

Venus	68580-12-14 22:48 G	26769739.23	26769739.45	26769739.67	0.0135	0.0005
Venus	68581-07-29 05:03 G	26769965.50	26769965.71	26769965.92	0.0135	0.0039
Mercury	68581-11-28 03:07 G	26770087.61	26770087.63	26770087.67	0.0136	0.0132
Mercury	68582-02-24 07:27 G	26770175.73	26770175.81	26770175.90	0.0136	0.0111
Venus	68582-03-12 11:17 G	26770191.80	26770191.97	26770192.17	0.0136	0.0073
Mercury	68582-05-23 11:17 G	26770263.87	26770263.97	26770264.09	0.0136	0.0091
Moon	68582-07-20 16:34 G	26770322.02	26770322.19	26770322.39	0.0136	0.0092
Earth	68582-07-20 19:41 G	26770322.16	26770322.32	26770322.51	0.0136	0.0099 *
Mercury	68582-08-19 15:36 G	26770352.02	26770352.15	26770352.28	0.0136	0.0070
Venus	68582-10-24 17:46 G	26770418.13	26770418.24	26770418.39	0.0136	0.0107
Mercury	68582-11-15 19:41 G	26770440.18	26770440.32	26770440.45	0.0136	0.0049
Mercury	68583-02-11 23:31 G	26770528.34	26770528.48	26770528.63	0.0136	0.0029
Mercury	68583-05-11 03:36 G	26770616.50	26770616.65	26770616.80	0.0136	0.0009
Earth	68583-07-25 04:48 G	26770691.47	26770691.70	26770691.93	0.0136	0.0056
Moon	68583-07-25 07:41 G	26770691.61	26770691.82	26770692.05	0.0136	0.0062 *
Mercury	68583-08-07 07:27 G	26770704.67	26770704.81	26770704.96	0.0136	0.0012
Mercury	68583-11-03 11:31 G	26770792.84	26770792.98	26770793.12	0.0136	0.0032
Mercury	68584-01-30 15:22 G	26770881.01	26770881.14	26770881.27	0.0136	0.0052
Mercury	68584-04-27 18:58 G	26770969.18	26770969.29	26770969.42	0.0136	0.0073
Mercury	68584-07-24 23:03 G	26771057.36	26771057.46	26771057.57	0.0136	0.0092
Moon	68584-07-28 11:17 G	26771060.71	26771060.97	26771061.23	0.0136	0.0010
Earth	68584-07-28 14:24 G	26771060.85	26771061.10	26771061.35	0.0136	0.0014 *
Mercury	68584-10-21 02:53 G	26771145.54	26771145.62	26771145.70	0.0136	0.0111
Mercury	68585-01-17 06:29 G	26771233.75	26771233.77	26771233.82	0.0136	0.0131
Earth	68585-08-02 00:29 G	26771430.28	26771430.52	26771430.77	0.0137	0.0030
Moon	68585-08-02 02:53 G	26771430.39	26771430.62	26771430.87	0.0137	0.0032 *
Moon	68586-08-06 08:10 G	26771799.63	26771799.84	26771800.07	0.0137	0.0070
Earth	68586-08-06 11:03 G	26771799.76	26771799.96	26771800.19	0.0137	0.0074 *
Earth	68587-08-10 22:19 G	26772169.32	26772169.43	26772169.58	0.0137	0.0117
Moon	68587-08-11 00:43 G	26772169.44	26772169.53	26772169.65	0.0137	0.0124 *

Mars	68603-05-01 06:29 G	26777910.47	26777910.77	26777911.09	0.0142	0.0021
Venus	68620-01-05 08:39 G	26784003.72	26784003.86	26784004.00	0.0143	0.0108
Venus	68620-08-18 19:27 G	26784230.13	26784230.31	26784230.52	0.0143	0.0069
Venus	68621-04-02 06:43 G	26784456.57	26784456.78	26784457.00	0.0143	0.0029
Venus	68621-11-14 18:00 G	26784683.03	26784683.25	26784683.47	0.0143	0.0011
Venus	68622-06-29 04:34 G	26784909.50	26784909.69	26784909.90	0.0143	0.0051
Mercury	68622-12-12 03:07 G	26785075.55	26785075.63	26785075.71	0.0142	0.0123
Moon	68623-01-21 16:05 G	26785116.02	26785116.17	26785116.35	0.0142	0.0109
Earth	68623-01-21 19:55 G	26785116.17	26785116.33	26785116.48	0.0142	0.0113 *
Venus	68623-02-10 15:22 G	26785135.98	26785136.14	26785136.31	0.0142	0.0090
Mercury	68623-03-10 09:07 G	26785163.76	26785163.88	26785164.00	0.0142	0.0097
Mercury	68623-06-06 15:07 G	26785251.99	26785252.13	26785252.28	0.0142	0.0071
Mercury	68623-09-02 21:22 G	26785340.23	26785340.39	26785340.55	0.0142	0.0044
Venus	68623-09-25 01:55 G	26785362.50	26785362.58	26785362.68	0.0142	0.0129
Mercury	68623-11-30 03:22 G	26785428.47	26785428.64	26785428.81	0.0142	0.0018
Earth	68624-01-26 18:58 G	26785486.07	26785486.29	26785486.53	0.0142	0.0063
Moon	68624-01-26 22:05 G	26785486.20	26785486.42	26785486.65	0.0142	0.0060 *
Mercury	68624-02-26 09:36 G	26785516.73	26785516.90	26785517.07	0.0142	0.0009
Mercury	68624-05-24 15:51 G	26785604.99	26785605.16	26785605.32	0.0142	0.0036
Mercury	68624-08-20 21:51 G	26785693.27	26785693.41	26785693.57	0.0142	0.0064
Mercury	68624-11-17 04:05 G	26785781.55	26785781.67	26785781.81	0.0142	0.0091
Moon	68625-01-30 14:53 G	26785855.86	26785856.12	26785856.38	0.0142	0.0018
Earth	68625-01-30 18:00 G	26785855.99	26785856.25	26785856.51	0.0142	0.0013 *
Mercury	68625-02-13 10:19 G	26785869.85	26785869.93	26785870.04	0.0142	0.0119
Earth	68626-02-04 15:51 G	26786225.92	26786226.16	26786226.42	0.0141	0.0037
Moon	68626-02-04 17:46 G	26786226.02	26786226.24	26786226.49	0.0141	0.0045 *
Moon	68627-02-09 10:48 G	26786595.75	26786595.95	26786596.19	0.0141	0.0079
Earth	68627-02-09 13:12 G	26786595.86	26786596.05	26786596.27	0.0141	0.0086 *
Earth	68628-02-14 09:51 G	26786965.85	26786965.91	26786966.01	0.0141	0.0133
Moon	68628-02-14 11:03 G	26786965.92	26786965.96	26786966.03	0.0141	0.0137 *

Mars	68643-08-30 07:27 G	26792641.54	26792641.81	26792642.10	0.0136	0.0057
Venus	68662-10-06 12:58 G	26799618.92	26799619.04	26799619.17	0.0135	0.0110
Venus	68663-05-20 18:58 G	26799845.12	26799845.29	26799845.48	0.0135	0.0077
Venus	68664-01-02 01:12 G	26800071.35	26800071.55	26800071.76	0.0135	0.0044
Venus	68664-08-15 07:27 G	26800297.60	26800297.81	26800298.03	0.0135	0.0011
Venus	68665-03-29 13:55 G	26800523.87	26800524.08	26800524.30	0.0135	0.0023
Earth	68665-07-17 20:53 G	26800634.36	26800634.37	26800634.40	0.0135	0.0135
Moon	68665-07-18 00:00 G	26800634.44	26800634.50	26800634.60	0.0135	0.0128
Venus	68665-11-10 20:24 G	26800750.16	26800750.35	26800750.55	0.0136	0.0057
Mercury	68665-12-19 10:19 G	26800788.88	26800788.93	26800788.99	0.0136	0.0126
Mercury	68666-03-17 14:10 G	26800877.01	26800877.09	26800877.20	0.0136	0.0106
Mercury	68666-06-13 18:29 G	26800965.16	26800965.27	26800965.39	0.0136	0.0085
Venus	68666-06-25 02:53 G	26800976.47	26800976.62	26800976.79	0.0136	0.0091
Moon	68666-07-22 01:55 G	26801003.42	26801003.58	26801003.75	0.0136	0.0101
Earth	68666-07-22 05:46 G	26801003.55	26801003.74	26801003.92	0.0136	0.0093 *
Mercury	68666-09-09 22:34 G	26801053.31	26801053.44	26801053.57	0.0136	0.0064
Mercury	68666-12-07 02:39 G	26801141.47	26801141.61	26801141.75	0.0136	0.0043
Venus	68667-02-06 09:22 G	26801202.83	26801202.89	26801202.99	0.0136	0.0125
Mercury	68667-03-05 06:43 G	26801229.63	26801229.78	26801229.92	0.0136	0.0023
Mercury	68667-06-01 10:34 G	26801317.80	26801317.94	26801318.09	0.0136	0.0004
Earth	68667-07-26 14:39 G	26801372.88	26801373.11	26801373.34	0.0136	0.0051
Moon	68667-07-26 17:46 G	26801373.01	26801373.24	26801373.48	0.0136	0.0045 *
Mercury	68667-08-28 14:39 G	26801405.96	26801406.11	26801406.25	0.0136	0.0018
Mercury	68667-11-24 18:29 G	26801494.13	26801494.27	26801494.41	0.0136	0.0038
Mercury	68668-02-20 22:19 G	26801582.30	26801582.43	26801582.56	0.0136	0.0058
Mercury	68668-05-19 02:24 G	26801670.48	26801670.60	26801670.71	0.0136	0.0078
Moon	68668-07-29 21:07 G	26801742.12	26801742.38	26801742.63	0.0136	0.0012
Earth	68668-07-30 00:15 G	26801742.26	26801742.51	26801742.76	0.0136	0.0009 *
Mercury	68668-08-15 06:00 G	26801758.66	26801758.75	26801758.86	0.0136	0.0098
Mercury	68668-11-11 09:51 G	26801846.85	26801846.91	26801846.99	0.0136	0.0117

Earth	68669-08-03 10:19 G	26802111.69	26802111.93	26802112.18	0.0137	0.0035
Moon	68669-08-03 13:41 G	26802111.84	26802112.07	26802112.32	0.0137	0.0036 *
Moon	68670-08-07 17:46 G	26802481.06	26802481.24	26802481.47	0.0137	0.0082
Earth	68670-08-07 21:07 G	26802481.18	26802481.38	26802481.59	0.0137	0.0078 *
Earth	68671-08-12 07:55 G	26802850.73	26802850.83	26802850.96	0.0137	0.0122
Moon	68671-08-12 11:17 G	26802850.85	26802850.97	26802851.11	0.0137	0.0116 *
Venus	68703-09-05 14:24 G	26814562.02	26814562.10	26814562.21	0.0143	0.0127
Venus	68704-04-19 01:41 G	26814788.41	26814788.57	26814788.75	0.0143	0.0088
Venus	68704-12-01 13:12 G	26815014.84	26815015.05	26815015.25	0.0143	0.0047
Venus	68705-07-16 00:15 G	26815241.29	26815241.51	26815241.72	0.0143	0.0008
Venus	68706-02-27 10:48 G	26815467.75	26815467.95	26815468.17	0.0143	0.0033
Venus	68706-10-11 21:51 G	26815694.23	26815694.41	26815694.60	0.0142	0.0072
Mercury	68707-01-02 10:05 G	26815776.83	26815776.92	26815777.02	0.0142	0.0117
Moon	68707-01-23 00:43 G	26815797.39	26815797.53	26815797.71	0.0142	0.0112
Earth	68707-01-23 04:48 G	26815797.54	26815797.70	26815797.87	0.0142	0.0108 *
Mercury	68707-03-31 16:05 G	26815865.05	26815865.17	26815865.30	0.0142	0.0090
Venus	68707-05-26 08:24 G	26815920.72	26815920.85	26815920.99	0.0142	0.0111
Mercury	68707-06-27 22:05 G	26815953.27	26815953.42	26815953.57	0.0142	0.0064
Mercury	68707-09-24 04:19 G	26816041.51	26816041.68	26816041.84	0.0142	0.0038
Mercury	68707-12-21 10:19 G	26816129.76	26816129.93	26816130.10	0.0142	0.0011
Earth	68708-01-28 03:51 G	26816167.44	26816167.66	26816167.91	0.0142	0.0058
Moon	68708-01-28 07:27 G	26816167.59	26816167.81	26816168.05	0.0142	0.0058 *
Mercury	68708-03-18 16:34 G	26816218.02	26816218.19	26816218.36	0.0142	0.0016
Mercury	68708-06-14 22:48 G	26816306.28	26816306.45	26816306.61	0.0142	0.0043
Mercury	68708-09-11 04:48 G	26816394.56	26816394.70	26816394.86	0.0142	0.0071
Mercury	68708-12-08 11:03 G	26816482.85	26816482.96	26816483.09	0.0142	0.0098
Moon	68709-02-01 00:00 G	26816537.24	26816537.50	26816537.76	0.0142	0.0003
Earth	68709-02-01 02:53 G	26816537.37	26816537.62	26816537.88	0.0142	0.0009 *
Mercury	68709-03-06 17:31 G	26816571.16	26816571.23	26816571.31	0.0142	0.0125
Earth	68710-02-06 00:43 G	26816907.29	26816907.53	26816907.78	0.0141	0.0042

Moon	68710-02-06 03:51 G	26816907.42	26816907.66	26816907.91	0.0141	0.0034 *
Moon	68711-02-10 19:55 G	26817277.15	26817277.33	26817277.53	0.0141	0.0097
Earth	68711-02-10 22:05 G	26817277.24	26817277.42	26817277.63	0.0141	0.0090 *
Earth	68712-02-15 18:58 G	26817647.24	26817647.29	26817647.35	0.0141	0.0137
Moon	68712-02-15 20:39 G	26817647.30	26817647.36	26817647.46	0.0141	0.0133 *
Mars	68728-04-24 23:17 G	26823560.28	26823560.47	26823560.69	0.0136	0.0099
Venus	68746-06-06 21:36 G	26830177.33	26830177.40	26830177.48	0.0135	0.0125
Venus	68747-01-19 03:36 G	26830403.50	26830403.65	26830403.81	0.0135	0.0092
Venus	68747-09-02 09:36 G	26830629.71	26830629.90	26830630.10	0.0135	0.0059
Venus	68748-04-15 16:05 G	26830855.96	26830856.17	26830856.39	0.0135	0.0026
Venus	68748-11-27 22:19 G	26831082.22	26831082.43	26831082.65	0.0135	0.0009
Venus	68749-07-12 04:48 G	26831308.50	26831308.70	26831308.91	0.0136	0.0042
Earth	68749-07-19 05:31 G	26831315.69	26831315.73	26831315.82	0.0136	0.0131
Mercury	68750-01-09 17:03 G	26831490.16	26831490.21	26831490.29	0.0136	0.0121
Venus	68750-02-23 11:03 G	26831534.80	26831534.96	26831535.16	0.0136	0.0076
Mercury	68750-04-07 21:22 G	26831578.29	26831578.39	26831578.49	0.0136	0.0100
Mercury	68750-07-05 01:12 G	26831666.44	26831666.55	26831666.68	0.0136	0.0080
Moon	68750-07-23 11:03 G	26831684.77	26831684.96	26831685.18	0.0136	0.0082
Earth	68750-07-23 14:39 G	26831684.93	26831685.11	26831685.31	0.0136	0.0089 *
Mercury	68750-10-01 05:31 G	26831754.60	26831754.73	26831754.86	0.0136	0.0059
Venus	68750-10-07 18:00 G	26831761.13	26831761.25	26831761.38	0.0136	0.0109
Mercury	68750-12-28 09:36 G	26831842.76	26831842.90	26831843.04	0.0136	0.0038
Mercury	68751-03-26 13:41 G	26831930.92	26831931.07	26831931.21	0.0136	0.0018
Mercury	68751-06-22 17:31 G	26832019.09	26832019.23	26832019.38	0.0136	0.0003
Earth	68751-07-27 23:31 G	26832054.25	26832054.48	26832054.73	0.0136	0.0047
Moon	68751-07-28 03:22 G	26832054.41	26832054.64	26832054.87	0.0136	0.0053 *
Mercury	68751-09-18 21:22 G	26832107.25	26832107.39	26832107.54	0.0136	0.0023
Mercury	68751-12-16 01:27 G	26832195.42	26832195.56	26832195.70	0.0136	0.0043
Mercury	68752-03-13 05:17 G	26832283.60	26832283.72	26832283.85	0.0136	0.0063
Mercury	68752-06-09 09:07 G	26832371.77	26832371.88	26832372.00	0.0136	0.0083

Moon	68752-07-31 06:00 G	26832423.50	26832423.75	26832424.00	0.0136	0.0001
Earth	68752-07-31 09:36 G	26832423.65	26832423.90	26832424.15	0.0136	0.0004 *
Mercury	68752-09-05 12:58 G	26832459.95	26832460.04	26832460.14	0.0136	0.0103
Mercury	68752-12-02 16:48 G	26832548.15	26832548.20	26832548.27	0.0136	0.0122
Earth	68753-08-04 19:27 G	26832793.08	26832793.31	26832793.56	0.0137	0.0039
Moon	68753-08-04 22:34 G	26832793.22	26832793.44	26832793.69	0.0137	0.0040 *
Moon	68754-08-09 02:10 G	26833162.41	26833162.59	26833162.82	0.0137	0.0081
Earth	68754-08-09 05:46 G	26833162.56	26833162.74	26833162.96	0.0137	0.0083 *
Earth	68755-08-13 16:48 G	26833532.13	26833532.20	26833532.33	0.0137	0.0127
Moon	68755-08-13 20:24 G	26833532.29	26833532.35	26833532.42	0.0137	0.0131 *
Mars	68770-09-17 11:46 G	26839045.80	26839045.99	26839046.21	0.0142	0.0109
Venus	68787-12-18 07:41 G	26845346.69	26845346.82	26845346.98	0.0143	0.0106
Venus	68788-07-31 18:58 G	26845573.10	26845573.29	26845573.49	0.0143	0.0066
Venus	68789-03-15 06:15 G	26845799.55	26845799.76	26845799.97	0.0143	0.0026
Venus	68789-10-27 17:17 G	26846026.01	26846026.22	26846026.44	0.0143	0.0014
Venus	68790-06-11 04:05 G	26846252.48	26846252.67	26846252.88	0.0142	0.0053
Mercury	68790-10-26 11:17 G	26846389.92	26846389.97	26846390.02	0.0142	0.0136
Mercury	68791-01-22 16:48 G	26846478.11	26846478.20	26846478.32	0.0142	0.0111
Moon	68791-01-23 09:51 G	26846478.74	26846478.91	26846479.11	0.0142	0.0098
Earth	68791-01-23 13:12 G	26846478.89	26846479.05	26846479.25	0.0142	0.0104 *
Venus	68791-01-23 14:53 G	26846478.96	26846479.12	26846479.29	0.0142	0.0092 *
Mercury	68791-04-20 23:03 G	26846566.33	26846566.46	26846566.60	0.0142	0.0084
Mercury	68791-07-18 05:03 G	26846654.56	26846654.71	26846654.87	0.0142	0.0057
Venus	68791-09-07 01:12 G	26846705.48	26846705.55	26846705.65	0.0142	0.0132
Mercury	68791-10-14 11:03 G	26846742.80	26846742.96	26846743.13	0.0142	0.0031
Mercury	68792-01-10 17:17 G	26846831.05	26846831.22	26846831.39	0.0142	0.0004
Earth	68792-01-28 12:58 G	26846848.81	26846849.04	26846849.28	0.0142	0.0053
Moon	68792-01-28 16:19 G	26846848.96	26846849.18	26846849.43	0.0142	0.0052 *
Mercury	68792-04-07 23:31 G	26846919.31	26846919.48	26846919.65	0.0142	0.0023
Mercury	68792-07-05 05:31 G	26847007.58	26847007.73	26847007.90	0.0142	0.0050

Mercury	68792-10-01 11:46 G	26847095.85	26847095.99	26847096.14	0.0142	0.0077
Mercury	68792-12-28 18:00 G	26847184.14	26847184.25	26847184.37	0.0142	0.0105
Moon	68793-02-01 08:10 G	26847218.58	26847218.84	26847219.10	0.0142	0.0007
Earth	68793-02-01 11:46 G	26847218.73	26847218.99	26847219.25	0.0142	0.0003 *
Mercury	68793-03-27 00:29 G	26847272.46	26847272.52	26847272.58	0.0142	0.0132
Earth	68794-02-06 09:51 G	26847588.67	26847588.91	26847589.15	0.0141	0.0046
Moon	68794-02-06 12:29 G	26847588.80	26847589.02	26847589.27	0.0141	0.0054 *
Moon	68795-02-11 03:51 G	26847958.47	26847958.66	26847958.88	0.0141	0.0086
Earth	68795-02-11 07:12 G	26847958.62	26847958.80	26847959.00	0.0141	0.0094 *
Venus	68830-09-18 12:29 G	26860961.89	26860962.02	26860962.15	0.0135	0.0107
Venus	68831-05-02 18:43 G	26861188.10	26861188.28	26861188.46	0.0135	0.0074
Venus	68831-12-15 00:43 G	26861414.33	26861414.53	26861414.74	0.0135	0.0041
Venus	68832-07-28 07:12 G	26861640.58	26861640.80	26861641.01	0.0135	0.0008
Venus	68833-03-11 13:27 G	26861866.85	26861867.06	26861867.28	0.0135	0.0026
Earth	68833-07-19 15:22 G	26861997.06	26861997.14	26861997.24	0.0136	0.0126
Moon	68833-07-19 18:29 G	26861997.17	26861997.27	26861997.41	0.0136	0.0120 *
Venus	68833-10-23 19:55 G	26862093.14	26862093.33	26862093.53	0.0136	0.0060
Mercury	68834-01-30 00:00 G	26862191.43	26862191.50	26862191.59	0.0136	0.0116
Mercury	68834-04-28 04:19 G	26862279.58	26862279.68	26862279.79	0.0136	0.0095
Venus	68834-06-07 02:39 G	26862319.46	26862319.61	26862319.77	0.0136	0.0094
Moon	68834-07-23 19:55 G	26862366.17	26862366.33	26862366.53	0.0136	0.0093
Earth	68834-07-23 23:46 G	26862366.31	26862366.49	26862366.70	0.0136	0.0085 *
Mercury	68834-07-25 08:24 G	26862367.73	26862367.85	26862367.98	0.0136	0.0074
Mercury	68834-10-21 12:29 G	26862455.89	26862456.02	26862456.16	0.0136	0.0053
Mercury	68835-01-17 16:34 G	26862544.05	26862544.19	26862544.33	0.0136	0.0033
Venus	68835-01-19 09:07 G	26862545.83	26862545.88	26862545.97	0.0136	0.0128
Mercury	68835-04-15 20:39 G	26862632.21	26862632.36	26862632.50	0.0136	0.0013
Mercury	68835-07-13 00:29 G	26862720.38	26862720.52	26862720.67	0.0136	0.0008
Earth	68835-07-28 08:53 G	26862735.64	26862735.87	26862736.12	0.0136	0.0043
Moon	68835-07-28 12:29 G	26862735.78	26862736.02	26862736.27	0.0136	0.0036 *

Mercury	68835-10-09 04:34 G	26862808.55	26862808.69	26862808.83	0.0136	0.0028
Mercury	68836-01-05 08:24 G	26862896.72	26862896.85	26862896.99	0.0136	0.0048
Mercury	68836-04-02 12:15 G	26862984.89	26862985.01	26862985.14	0.0136	0.0068
Mercury	68836-06-29 16:05 G	26863073.07	26863073.17	26863073.29	0.0136	0.0088
Moon	68836-07-31 15:07 G	26863104.88	26863105.13	26863105.38	0.0136	0.0004
Earth	68836-07-31 18:43 G	26863105.03	26863105.28	26863105.53	0.0136	0.0001 *
Mercury	68836-09-25 20:10 G	26863161.25	26863161.34	26863161.42	0.0136	0.0108
Mercury	68836-12-22 23:46 G	26863249.45	26863249.49	26863249.55	0.0136	0.0128
Earth	68837-08-05 04:34 G	26863474.46	26863474.69	26863474.94	0.0137	0.0044
Moon	68837-08-05 08:10 G	26863474.61	26863474.84	26863475.09	0.0137	0.0046 *
Moon	68838-08-09 11:31 G	26863843.81	26863843.98	26863844.19	0.0137	0.0089
Earth	68838-08-09 14:53 G	26863843.95	26863844.12	26863844.34	0.0137	0.0087 *
Earth	68839-08-14 01:55 G	26864213.52	26864213.58	26864213.68	0.0137	0.0130
Moon	68839-08-14 05:46 G	26864213.65	26864213.74	26864213.86	0.0137	0.0125 *
Mars	68855-05-13 22:34 G	26869965.20	26869965.44	26869965.73	0.0142	0.0077
Venus	68871-08-17 13:55 G	26875904.98	26875905.08	26875905.19	0.0143	0.0124
Venus	68872-03-31 01:12 G	26876131.38	26876131.55	26876131.73	0.0143	0.0084
Venus	68872-11-12 12:29 G	26876357.82	26876358.02	26876358.23	0.0143	0.0045
Venus	68873-06-26 23:46 G	26876584.27	26876584.49	26876584.71	0.0143	0.0005
Moon	68874-01-19 01:41 G	26876790.54	26876790.57	26876790.62	0.0143	0.0141
Venus	68874-02-08 10:34 G	26876810.73	26876810.94	26876811.15	0.0143	0.0035
Venus	68874-09-22 21:07 G	26877037.21	26877037.38	26877037.58	0.0142	0.0075
Mercury	68874-11-15 18:00 G	26877091.19	26877091.25	26877091.33	0.0142	0.0129
Moon	68875-01-23 18:43 G	26877160.12	26877160.28	26877160.47	0.0142	0.0103
Earth	68875-01-23 22:34 G	26877160.27	26877160.44	26877160.64	0.0142	0.0098 *
Mercury	68875-02-12 00:00 G	26877179.39	26877179.50	26877179.62	0.0142	0.0103
Venus	68875-05-07 07:55 G	26877263.71	26877263.83	26877263.97	0.0142	0.0114
Mercury	68875-05-11 06:00 G	26877267.62	26877267.75	26877267.90	0.0142	0.0077
Mercury	68875-08-07 12:15 G	26877355.85	26877356.01	26877356.16	0.0142	0.0050
Mercury	68875-11-03 18:15 G	26877444.09	26877444.26	26877444.42	0.0142	0.0024

Earth	68876-01-28 22:05 G	26877530.18	26877530.42	26877530.66	0.0142	0.0049
Moon	68876-01-29 01:41 G	26877530.33	26877530.57	26877530.81	0.0142	0.0047 *
Mercury	68876-01-31 00:15 G	26877532.34	26877532.51	26877532.68	0.0142	0.0004
Mercury	68876-04-28 06:29 G	26877620.60	26877620.77	26877620.93	0.0142	0.0030
Mercury	68876-07-25 12:29 G	26877708.87	26877709.02	26877709.18	0.0142	0.0057
Mercury	68876-10-21 18:43 G	26877797.15	26877797.28	26877797.42	0.0142	0.0084
Mercury	68877-01-18 01:12 G	26877885.44	26877885.55	26877885.65	0.0142	0.0111
Moon	68877-02-01 17:17 G	26877899.96	26877900.22	26877900.48	0.0142	0.0006
Earth	68877-02-01 20:53 G	26877900.11	26877900.37	26877900.63	0.0142	0.0001 *
Mercury	68877-04-16 07:12 G	26877973.78	26877973.80	26877973.84	0.0142	0.0139
Earth	68878-02-06 18:29 G	26878270.04	26878270.27	26878270.52	0.0141	0.0051
Moon	68878-02-06 22:19 G	26878270.19	26878270.43	26878270.68	0.0141	0.0043 *
Moon	68879-02-11 12:58 G	26878639.88	26878640.04	26878640.22	0.0141	0.0106
Earth	68879-02-11 16:05 G	26878639.99	26878640.17	26878640.36	0.0141	0.0098 *
Moon	68880-02-16 15:07 G	26879010.12	26879010.13	26879010.19	0.0141	0.0140
Mars	68895-09-12 00:00 G	26884696.20	26884696.50	26884696.81	0.0136	0.0012
Venus	68914-05-19 20:53 G	26891520.29	26891520.37	26891520.47	0.0135	0.0123
Venus	68915-01-01 02:53 G	26891746.47	26891746.62	26891746.80	0.0135	0.0090
Venus	68915-08-15 09:07 G	26891972.69	26891972.88	26891973.09	0.0135	0.0057
Venus	68916-03-28 15:36 G	26892198.94	26892199.15	26892199.37	0.0135	0.0023
Venus	68916-11-09 22:05 G	26892425.20	26892425.42	26892425.64	0.0135	0.0010
Venus	68917-06-24 04:19 G	26892651.49	26892651.68	26892651.90	0.0136	0.0045
Earth	68917-07-21 00:00 G	26892678.41	26892678.50	26892678.63	0.0136	0.0122
Moon	68917-07-21 03:51 G	26892678.59	26892678.66	26892678.75	0.0136	0.0128 *
Mercury	68917-11-24 02:53 G	26892804.59	26892804.62	26892804.66	0.0136	0.0131
Venus	68918-02-05 10:48 G	26892877.79	26892877.95	26892878.14	0.0136	0.0079
Mercury	68918-02-20 06:58 G	26892892.71	26892892.79	26892892.88	0.0136	0.0110
Mercury	68918-05-19 11:03 G	26892980.86	26892980.96	26892981.08	0.0136	0.0090
Moon	68918-07-25 06:00 G	26893047.54	26893047.75	26893047.96	0.0136	0.0073
Earth	68918-07-25 09:22 G	26893047.68	26893047.89	26893048.09	0.0136	0.0080 *

Mercury	68918-08-15 15:22 G	26893069.01	26893069.14	26893069.27	0.0136	0.0069
Venus	68918-09-19 17:31 G	26893104.12	26893104.23	26893104.36	0.0136	0.0112
Mercury	68918-11-11 19:12 G	26893157.17	26893157.30	26893157.45	0.0136	0.0049
Mercury	68919-02-07 23:31 G	26893245.33	26893245.48	26893245.62	0.0136	0.0028
Mercury	68919-05-07 03:22 G	26893333.50	26893333.64	26893333.79	0.0136	0.0008
Earth	68919-07-29 18:00 G	26893417.01	26893417.25	26893417.50	0.0136	0.0038
Moon	68919-07-29 21:36 G	26893417.17	26893417.40	26893417.65	0.0136	0.0045 *
Mercury	68919-08-03 07:27 G	26893421.66	26893421.81	26893421.96	0.0136	0.0013
Mercury	68919-10-30 11:17 G	26893509.83	26893509.97	26893510.12	0.0136	0.0033
Mercury	68920-01-26 15:07 G	26893598.01	26893598.13	26893598.27	0.0136	0.0054
Mercury	68920-04-23 19:12 G	26893686.18	26893686.30	26893686.42	0.0136	0.0073
Mercury	68920-07-20 22:48 G	26893774.36	26893774.45	26893774.57	0.0136	0.0094
Moon	68920-08-02 00:15 G	26893786.26	26893786.51	26893786.76	0.0136	0.0010
Earth	68920-08-02 03:36 G	26893786.40	26893786.65	26893786.91	0.0136	0.0005 *
Mercury	68920-10-17 02:53 G	26893862.55	26893862.62	26893862.70	0.0136	0.0113
Mercury	68921-01-13 06:43 G	26893950.75	26893950.78	26893950.82	0.0136	0.0132
Earth	68921-08-06 13:27 G	26894155.83	26894156.06	26894156.30	0.0137	0.0047
Moon	68921-08-06 16:48 G	26894155.98	26894156.20	26894156.45	0.0137	0.0047 *
Moon	68922-08-10 19:55 G	26894525.16	26894525.33	26894525.54	0.0137	0.0090
Earth	68922-08-11 00:00 G	26894525.32	26894525.50	26894525.69	0.0137	0.0090 *
Earth	68923-08-15 10:48 G	26894894.91	26894894.95	26894895.02	0.0137	0.0133
Venus	68955-11-30 07:27 G	26906689.66	26906689.81	26906689.96	0.0143	0.0104
Venus	68956-07-13 18:15 G	26906916.08	26906916.26	26906916.47	0.0143	0.0064
Venus	68957-02-25 05:46 G	26907142.52	26907142.74	26907142.95	0.0143	0.0024
Venus	68957-10-09 16:48 G	26907368.98	26907369.20	26907369.42	0.0143	0.0016
Venus	68958-05-24 03:36 G	26907595.46	26907595.65	26907595.86	0.0142	0.0056
Mercury	68958-12-07 00:58 G	26907792.47	26907792.54	26907792.63	0.0142	0.0122
Venus	68959-01-05 14:10 G	26907821.94	26907822.09	26907822.27	0.0142	0.0096
Moon	68959-01-25 04:19 G	26907841.49	26907841.68	26907841.89	0.0142	0.0088
Earth	68959-01-25 07:27 G	26907841.63	26907841.81	26907842.01	0.0142	0.0093 *

Mercury	68959-03-05 06:58 G	26907880.68	26907880.79	26907880.92	0.0142	0.0096
Mercury	68959-06-01 12:58 G	26907968.90	26907969.04	26907969.19	0.0142	0.0070
Venus	68959-08-20 00:43 G	26908048.48	26908048.53	26908048.62	0.0142	0.0134
Mercury	68959-08-28 18:58 G	26908057.14	26908057.29	26908057.46	0.0142	0.0044
Mercury	68959-11-25 01:12 G	26908145.38	26908145.55	26908145.72	0.0142	0.0017
Earth	68960-01-30 06:58 G	26908211.55	26908211.79	26908212.04	0.0142	0.0044
Moon	68960-01-30 10:34 G	26908211.70	26908211.94	26908212.19	0.0142	0.0044 *
Mercury	68960-02-21 07:12 G	26908233.63	26908233.80	26908233.97	0.0142	0.0010
Mercury	68960-05-19 13:12 G	26908321.89	26908322.05	26908322.22	0.0142	0.0037
Mercury	68960-08-15 19:27 G	26908410.16	26908410.31	26908410.47	0.0142	0.0064
Mercury	68960-11-12 01:41 G	26908498.45	26908498.57	26908498.71	0.0142	0.0091
Moon	68961-02-03 01:55 G	26908581.33	26908581.58	26908581.84	0.0142	0.0004
Earth	68961-02-03 05:31 G	26908581.48	26908581.73	26908581.99	0.0142	0.0007 *
Mercury	68961-02-08 07:55 G	26908586.74	26908586.83	26908586.93	0.0142	0.0118
Earth	68962-02-08 03:22 G	26908951.41	26908951.64	26908951.89	0.0141	0.0055
Moon	68962-02-08 06:58 G	26908951.57	26908951.79	26908952.02	0.0141	0.0062 *
Moon	68963-02-12 21:07 G	26909321.19	26909321.38	26909321.57	0.0141	0.0094
Earth	68963-02-13 00:29 G	26909321.37	26909321.52	26909321.71	0.0141	0.0103 *
Venus	68998-08-31 12:00 G	26922304.87	26922305.00	26922305.14	0.0135	0.0105
Venus	68999-04-14 18:15 G	26922531.08	26922531.26	26922531.45	0.0135	0.0072
Venus	68999-11-27 00:29 G	26922757.32	26922757.52	26922757.73	0.0135	0.0039
Venus	69000-07-11 06:58 G	26922983.57	26922983.79	26922984.01	0.0135	0.0005

70TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 70th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	69001-02-22 13:12	G	26923209.84	26923210.05	26923210.27	0.0135	0.0029	
Earth	69001-07-22 09:36	G	26923359.80	26923359.90	26923360.05	0.0136	0.0117	
Moon	69001-07-22 12:43	G	26923359.91	26923360.03	26923360.20	0.0136	0.0111	*
Venus	69001-10-06 19:27	G	26923436.13	26923436.31	26923436.52	0.0136	0.0063	
Mercury	69001-12-15 09:36	G	26923505.86	26923505.90	26923505.97	0.0136	0.0126	
Mercury	69002-03-13 13:55	G	26923593.99	26923594.08	26923594.18	0.0136	0.0105	
Venus	69002-05-21 02:10	G	26923662.45	26923662.59	26923662.76	0.0136	0.0097	
Mercury	69002-06-09 18:15	G	26923682.14	26923682.26	26923682.37	0.0136	0.0084	
Moon	69002-07-26 14:53	G	26923728.94	26923729.12	26923729.33	0.0136	0.0083	
Earth	69002-07-26 18:29	G	26923729.07	26923729.27	26923729.49	0.0136	0.0075	*
Mercury	69002-09-05 22:05	G	26923770.30	26923770.42	26923770.56	0.0136	0.0064	
Mercury	69002-12-03 02:24	G	26923858.46	26923858.60	26923858.74	0.0136	0.0043	
Venus	69003-01-02 09:07	G	26923888.82	26923888.88	26923888.94	0.0136	0.0130	
Mercury	69003-03-01 06:15	G	26923946.62	26923946.76	26923946.91	0.0136	0.0023	
Mercury	69003-05-28 10:19	G	26924034.79	26924034.93	26924035.08	0.0136	0.0004	
Earth	69003-07-31 03:22	G	26924098.40	26924098.64	26924098.89	0.0136	0.0034	
Moon	69003-07-31 06:29	G	26924098.53	26924098.77	26924099.03	0.0136	0.0026	*
Mercury	69003-08-24 14:24	G	26924122.95	26924123.10	26924123.24	0.0136	0.0018	
Mercury	69003-11-20 18:15	G	26924211.12	26924211.26	26924211.40	0.0136	0.0039	
Mercury	69004-02-16 22:19	G	26924299.30	26924299.43	26924299.56	0.0136	0.0058	
Mercury	69004-05-15 02:10	G	26924387.47	26924387.59	26924387.71	0.0136	0.0078	
Moon	69004-08-03 09:22	G	26924467.65	26924467.89	26924468.15	0.0136	0.0005	
Earth	69004-08-03 12:58	G	26924467.79	26924468.04	26924468.29	0.0136	0.0009	*
Mercury	69004-08-11 06:00	G	26924475.65	26924475.75	26924475.85	0.0136	0.0098	
Mercury	69004-11-07 09:36	G	26924563.84	26924563.90	26924563.98	0.0136	0.0119	
Earth	69005-08-07 22:34	G	26924837.21	26924837.44	26924837.68	0.0137	0.0052	
Moon	69005-08-08 01:55	G	26924837.36	26924837.58	26924837.82	0.0137	0.0056	*

Moon	69006-08-12 05:17 G	26925206.57	26925206.72	26925206.92	0.0137	0.0096
Earth	69006-08-12 08:53 G	26925206.71	26925206.87	26925207.07	0.0137	0.0095 *
Moon	69007-08-16 23:31 G	26925576.44	26925576.48	26925576.56	0.0137	0.0133
Mars	69022-10-01 00:58 G	26931100.26	26931100.54	26931100.84	0.0142	0.0059
Venus	69039-07-31 12:58 G	26937247.94	26937248.04	26937248.16	0.0143	0.0123
Venus	69040-03-14 00:15 G	26937474.35	26937474.51	26937474.70	0.0143	0.0083
Venus	69040-10-26 11:46 G	26937700.79	26937700.99	26937701.21	0.0143	0.0043
Venus	69041-06-09 23:03 G	26937927.24	26937927.46	26937927.68	0.0143	0.0003
Earth	69042-01-21 15:51 G	26938153.12	26938153.16	26938153.25	0.0143	0.0138
Moon	69042-01-21 18:29 G	26938153.18	26938153.27	26938153.39	0.0143	0.0130 *
Venus	69042-01-22 10:05 G	26938153.71	26938153.92	26938154.13	0.0143	0.0037
Venus	69042-09-05 20:39 G	26938380.18	26938380.36	26938380.55	0.0142	0.0076
Mercury	69042-10-01 01:55 G	26938405.58	26938405.58	26938405.61	0.0142	0.0142
Mercury	69042-12-28 07:55 G	26938493.75	26938493.83	26938493.94	0.0142	0.0116
Moon	69043-01-26 12:58 G	26938522.87	26938523.04	26938523.24	0.0142	0.0094
Earth	69043-01-26 16:34 G	26938522.99	26938523.19	26938523.39	0.0142	0.0088 *
Mercury	69043-03-26 13:55 G	26938581.96	26938582.08	26938582.22	0.0142	0.0089
Venus	69043-04-20 07:27 G	26938606.69	26938606.81	26938606.94	0.0142	0.0115
Mercury	69043-06-22 19:55 G	26938670.19	26938670.33	26938670.48	0.0142	0.0063
Mercury	69043-09-19 01:55 G	26938758.42	26938758.58	26938758.75	0.0142	0.0037
Mercury	69043-12-16 08:10 G	26938846.67	26938846.84	26938847.01	0.0142	0.0010
Earth	69044-01-31 15:36 G	26938892.91	26938893.15	26938893.40	0.0142	0.0038
Moon	69044-01-31 18:43 G	26938893.03	26938893.28	26938893.54	0.0142	0.0036 *
Mercury	69044-03-13 14:10 G	26938934.92	26938935.09	26938935.26	0.0142	0.0017
Mercury	69044-06-09 20:10 G	26939023.19	26939023.34	26939023.51	0.0142	0.0044
Mercury	69044-09-06 02:24 G	26939111.46	26939111.60	26939111.75	0.0142	0.0071
Mercury	69044-12-03 08:24 G	26939199.74	26939199.85	26939199.99	0.0142	0.0098
Moon	69045-02-04 10:48 G	26939262.70	26939262.95	26939263.21	0.0142	0.0014
Earth	69045-02-04 14:24 G	26939262.85	26939263.10	26939263.36	0.0142	0.0011 *
Mercury	69045-03-01 14:53 G	26939288.05	26939288.12	26939288.20	0.0142	0.0125

Earth	69046-02-09 12:15 G	26939632.78	26939633.01	26939633.25	0.0141	0.0060
Moon	69046-02-09 15:51 G	26939632.93	26939633.16	26939633.41	0.0141	0.0054 *
Moon	69047-02-14 05:31 G	26940002.60	26940002.73	26940002.90	0.0141	0.0115
Earth	69047-02-14 09:07 G	26940002.73	26940002.88	26940003.06	0.0141	0.0108 *
Mars	69063-01-31 01:27 G	26945832.45	26945832.56	26945832.71	0.0136	0.0122
Venus	69082-05-01 20:24 G	26952863.27	26952863.35	26952863.46	0.0135	0.0121
Venus	69082-12-14 02:39 G	26953089.46	26953089.61	26953089.78	0.0135	0.0088
Venus	69083-07-28 08:53 G	26953315.68	26953315.87	26953316.07	0.0135	0.0055
Venus	69084-03-10 15:07 G	26953541.92	26953542.13	26953542.35	0.0135	0.0022
Venus	69084-10-22 21:36 G	26953768.19	26953768.40	26953768.62	0.0135	0.0013
Venus	69085-06-06 04:05 G	26953994.47	26953994.67	26953994.88	0.0136	0.0046
Earth	69085-07-22 18:29 G	26954041.15	26954041.27	26954041.43	0.0136	0.0112
Moon	69085-07-22 21:22 G	26954041.28	26954041.39	26954041.54	0.0136	0.0117 *
Mercury	69086-01-04 16:34 G	26954207.13	26954207.19	26954207.27	0.0136	0.0121
Venus	69086-01-18 10:19 G	26954220.77	26954220.93	26954221.12	0.0136	0.0081
Mercury	69086-04-02 20:39 G	26954295.27	26954295.36	26954295.47	0.0136	0.0100
Mercury	69086-06-30 00:58 G	26954383.42	26954383.54	26954383.66	0.0136	0.0079
Moon	69086-07-27 00:29 G	26954410.32	26954410.52	26954410.75	0.0136	0.0064
Earth	69086-07-27 03:07 G	26954410.43	26954410.63	26954410.86	0.0136	0.0071 *
Venus	69086-09-01 17:17 G	26954447.11	26954447.22	26954447.34	0.0136	0.0114
Mercury	69086-09-26 05:03 G	26954471.58	26954471.71	26954471.85	0.0136	0.0058
Mercury	69086-12-23 09:07 G	26954559.74	26954559.88	26954560.02	0.0136	0.0038
Mercury	69087-03-21 13:12 G	26954647.90	26954648.05	26954648.20	0.0136	0.0017
Mercury	69087-06-17 17:17 G	26954736.07	26954736.22	26954736.36	0.0136	0.0003
Earth	69087-07-31 12:15 G	26954779.77	26954780.01	26954780.26	0.0136	0.0028
Moon	69087-07-31 15:22 G	26954779.90	26954780.14	26954780.39	0.0136	0.0036 *
Mercury	69087-09-13 21:07 G	26954824.24	26954824.38	26954824.53	0.0136	0.0024
Mercury	69087-12-11 01:12 G	26954912.41	26954912.55	26954912.69	0.0136	0.0043
Mercury	69088-03-08 05:03 G	26955000.58	26955000.71	26955000.84	0.0136	0.0063
Mercury	69088-06-04 08:53 G	26955088.76	26955088.87	26955088.99	0.0136	0.0084

Moon	69088-08-03 18:58 G	26955149.04	26955149.29	26955149.53	0.0136	0.0020
Earth	69088-08-03 21:36 G	26955149.15	26955149.40	26955149.66	0.0136	0.0014 *
Mercury	69088-08-31 12:43 G	26955176.95	26955177.03	26955177.13	0.0136	0.0103
Mercury	69088-11-27 16:48 G	26955265.14	26955265.20	26955265.26	0.0136	0.0123
Earth	69089-08-08 07:12 G	26955518.59	26955518.80	26955519.05	0.0137	0.0057
Moon	69089-08-08 10:48 G	26955518.72	26955518.95	26955519.19	0.0137	0.0054 *
Moon	69090-08-12 14:24 G	26955887.95	26955888.10	26955888.29	0.0137	0.0100
Earth	69090-08-12 17:46 G	26955888.08	26955888.24	26955888.43	0.0137	0.0099 *
Mars	69107-05-28 14:10 G	26962019.97	26962020.09	26962020.25	0.0142	0.0128
Venus	69123-03-31 18:43 G	26967806.28	26967806.28	26967806.33	0.0143	0.0142
Venus	69123-11-13 06:29 G	26968032.63	26968032.77	26968032.93	0.0143	0.0102
Venus	69124-06-26 18:00 G	26968259.05	26968259.25	26968259.45	0.0143	0.0062
Venus	69125-02-08 05:03 G	26968485.50	26968485.71	26968485.93	0.0143	0.0022
Venus	69125-09-22 16:05 G	26968711.96	26968712.17	26968712.39	0.0143	0.0018
Earth	69126-01-23 00:58 G	26968834.46	26968834.54	26968834.65	0.0142	0.0132
Moon	69126-01-23 03:07 G	26968834.60	26968834.63	26968834.70	0.0142	0.0140 *
Venus	69126-05-07 02:53 G	26968938.43	26968938.62	26968938.83	0.0142	0.0058
Mercury	69126-10-22 08:53 G	26969106.83	26969106.87	26969106.94	0.0142	0.0135
Venus	69126-12-19 13:55 G	26969164.92	26969165.08	26969165.24	0.0142	0.0097
Mercury	69127-01-18 14:53 G	26969195.02	26969195.12	26969195.23	0.0142	0.0109
Moon	69127-01-27 22:34 G	26969204.25	26969204.44	26969204.67	0.0142	0.0077
Earth	69127-01-28 00:58 G	26969204.34	26969204.54	26969204.76	0.0142	0.0083 *
Mercury	69127-04-16 20:53 G	26969283.24	26969283.37	26969283.51	0.0142	0.0082
Mercury	69127-07-14 02:53 G	26969371.47	26969371.62	26969371.78	0.0142	0.0056
Venus	69127-08-03 00:29 G	26969391.46	26969391.52	26969391.59	0.0142	0.0135
Mercury	69127-10-10 08:53 G	26969459.71	26969459.87	26969460.04	0.0142	0.0030
Mercury	69128-01-06 14:53 G	26969547.96	26969548.12	26969548.29	0.0142	0.0005
Earth	69128-02-02 00:15 G	26969574.27	26969574.51	26969574.77	0.0142	0.0033
Moon	69128-02-02 03:22 G	26969574.40	26969574.64	26969574.91	0.0142	0.0035 *
Mercury	69128-04-03 21:07 G	26969636.21	26969636.38	26969636.54	0.0142	0.0023

Mercury	69128-07-01 03:07 G	26969724.47	26969724.63	26969724.79	0.0142	0.0050
Mercury	69128-09-27 09:22 G	26969812.75	26969812.89	26969813.03	0.0142	0.0077
Mercury	69128-12-24 15:22 G	26969901.04	26969901.14	26969901.26	0.0142	0.0105
Moon	69129-02-05 19:55 G	26969944.08	26969944.33	26969944.58	0.0142	0.0015
Earth	69129-02-05 22:48 G	26969944.20	26969944.45	26969944.71	0.0142	0.0017 *
Mercury	69129-03-22 21:36 G	26969989.35	26969989.40	26969989.47	0.0142	0.0132
Earth	69130-02-10 20:39 G	26970314.14	26970314.36	26970314.60	0.0141	0.0065
Moon	69130-02-11 00:15 G	26970314.29	26970314.51	26970314.74	0.0141	0.0071 *
Moon	69131-02-15 14:10 G	26970683.93	26970684.09	26970684.27	0.0141	0.0104
Earth	69131-02-15 17:46 G	26970684.10	26970684.24	26970684.41	0.0141	0.0112 *
Mars	69147-09-26 16:48 G	26976750.91	26976751.20	26976751.50	0.0136	0.0032
Jupiter	69165-10-28 12:00 G	26983357.57	26983358.00	26983358.46	0.0135	0.0055
Venus	69166-08-14 11:17 G	26983647.85	26983647.97	26983648.12	0.0135	0.0104
Venus	69167-03-28 17:46 G	26983874.06	26983874.24	26983874.43	0.0135	0.0070
Venus	69167-11-10 00:00 G	26984100.29	26984100.50	26984100.71	0.0135	0.0037
Venus	69168-06-23 06:15 G	26984326.55	26984326.76	26984326.98	0.0135	0.0005
Venus	69169-02-04 12:29 G	26984552.82	26984553.02	26984553.24	0.0135	0.0031
Earth	69169-07-24 03:36 G	26984722.51	26984722.65	26984722.82	0.0136	0.0107
Moon	69169-07-24 06:00 G	26984722.60	26984722.75	26984722.94	0.0136	0.0102 *
Venus	69169-09-18 18:43 G	26984779.11	26984779.28	26984779.49	0.0136	0.0065
Mercury	69170-01-25 23:31 G	26984908.41	26984908.48	26984908.56	0.0136	0.0115
Mercury	69170-04-24 03:36 G	26984996.55	26984996.65	26984996.76	0.0136	0.0095
Venus	69170-05-03 01:41 G	26985005.43	26985005.57	26985005.72	0.0136	0.0098
Mercury	69170-07-21 07:41 G	26985084.71	26985084.82	26985084.95	0.0136	0.0074
Moon	69170-07-28 09:36 G	26985091.71	26985091.90	26985092.12	0.0136	0.0073
Earth	69170-07-28 12:29 G	26985091.80	26985092.02	26985092.24	0.0136	0.0065 *
Mercury	69170-10-17 12:00 G	26985172.86	26985173.00	26985173.14	0.0136	0.0053
Venus	69170-12-15 08:10 G	26985231.80	26985231.84	26985231.90	0.0136	0.0132
Mercury	69171-01-13 16:05 G	26985261.03	26985261.17	26985261.31	0.0136	0.0033
Mercury	69171-04-11 20:10 G	26985349.19	26985349.34	26985349.48	0.0136	0.0012

Mercury	69171-07-09 00:00 G	26985437.36	26985437.50	26985437.65	0.0136	0.0009
Earth	69171-08-01 21:07 G	26985461.14	26985461.38	26985461.64	0.0136	0.0024
Moon	69171-08-01 23:46 G	26985461.23	26985461.49	26985461.74	0.0136	0.0017 *
Mercury	69171-10-05 04:05 G	26985525.53	26985525.67	26985525.81	0.0136	0.0028
Mercury	69172-01-01 08:10 G	26985613.70	26985613.84	26985613.97	0.0136	0.0049
Mercury	69172-03-29 12:00 G	26985701.87	26985702.00	26985702.12	0.0136	0.0069
Mercury	69172-06-25 15:51 G	26985790.05	26985790.16	26985790.27	0.0136	0.0088
Moon	69172-08-05 03:51 G	26985830.42	26985830.66	26985830.91	0.0136	0.0013
Earth	69172-08-05 06:43 G	26985830.53	26985830.78	26985831.03	0.0136	0.0019 *
Mercury	69172-09-21 19:41 G	26985878.24	26985878.32	26985878.41	0.0136	0.0108
Mercury	69172-12-18 23:17 G	26985966.44	26985966.47	26985966.53	0.0136	0.0129
Earth	69173-08-09 16:34 G	26986199.96	26986200.19	26986200.41	0.0137	0.0061
Moon	69173-08-09 18:58 G	26986200.08	26986200.29	26986200.53	0.0137	0.0066 *
Moon	69174-08-14 00:15 G	26986569.35	26986569.51	26986569.67	0.0137	0.0103
Earth	69174-08-14 02:39 G	26986569.47	26986569.61	26986569.80	0.0137	0.0104 *
Jupiter	69207-03-11 18:58 G	26998466.75	26998467.29	26998467.84	0.0143	0.0004
Venus	69207-07-13 12:29 G	26998590.92	26998591.02	26998591.15	0.0143	0.0121
Venus	69208-02-25 00:00 G	26998817.33	26998817.50	26998817.69	0.0143	0.0081
Venus	69208-10-08 11:31 G	26999043.77	26999043.98	26999044.19	0.0143	0.0041
Venus	69209-05-22 22:34 G	26999270.23	26999270.44	26999270.66	0.0143	0.0003
Venus	69210-01-04 09:36 G	26999496.69	26999496.90	26999497.11	0.0143	0.0039
Earth	69210-01-23 10:05 G	26999515.82	26999515.92	26999516.05	0.0142	0.0127
Moon	69210-01-23 11:46 G	26999515.84	26999515.99	26999516.13	0.0142	0.0119 *
Venus	69210-08-18 20:10 G	26999723.17	26999723.34	26999723.53	0.0142	0.0079
Mercury	69210-11-11 16:05 G	26999808.11	26999808.17	26999808.25	0.0142	0.0127
Moon	69211-01-28 07:41 G	26999885.64	26999885.82	26999886.04	0.0142	0.0084
Earth	69211-01-28 10:05 G	26999885.72	26999885.92	26999886.15	0.0142	0.0077 *
Mercury	69211-02-07 21:51 G	26999896.31	26999896.41	26999896.54	0.0142	0.0102
Venus	69211-04-02 06:43 G	26999949.67	26999949.78	26999949.92	0.0142	0.0118
Mercury	69211-05-07 03:51 G	26999984.53	26999984.66	26999984.81	0.0142	0.0076

Mercury	69211-08-03 09:51 G	27000072.76	27000072.91	27000073.07	0.0142	0.0049
Mercury	69211-10-30 15:51 G	27000161.00	27000161.16	27000161.33	0.0142	0.0023
Mercury	69212-01-26 21:51 G	27000249.25	27000249.41	27000249.58	0.0142	0.0005
Earth	69212-02-02 09:07 G	27000255.64	27000255.88	27000256.14	0.0142	0.0028
Moon	69212-02-02 11:31 G	27000255.73	27000255.98	27000256.25	0.0142	0.0024 *
Mercury	69212-04-24 04:05 G	27000337.50	27000337.67	27000337.83	0.0142	0.0030
Mercury	69212-07-21 10:05 G	27000425.77	27000425.92	27000426.08	0.0142	0.0057
Mercury	69212-10-17 16:19 G	27000514.04	27000514.18	27000514.32	0.0142	0.0084
Mercury	69213-01-13 22:34 G	27000602.33	27000602.44	27000602.54	0.0142	0.0111
Moon	69213-02-06 04:48 G	27000625.46	27000625.70	27000625.95	0.0142	0.0023
Earth	69213-02-06 07:55 G	27000625.58	27000625.83	27000626.09	0.0142	0.0021 *
Mercury	69213-04-12 04:19 G	27000690.67	27000690.68	27000690.73	0.0142	0.0139
Earth	69214-02-11 05:31 G	27000995.52	27000995.73	27000995.96	0.0141	0.0070
Moon	69214-02-11 08:53 G	27000995.65	27000995.87	27000996.11	0.0141	0.0064 *
Moon	69215-02-15 23:03 G	27001365.36	27001365.46	27001365.60	0.0141	0.0124
Earth	69215-02-16 02:53 G	27001365.48	27001365.62	27001365.76	0.0141	0.0116 *
Venus	69250-04-13 19:55 G	27014206.24	27014206.33	27014206.43	0.0135	0.0119
Venus	69250-11-26 01:55 G	27014432.42	27014432.58	27014432.76	0.0135	0.0086
Venus	69251-07-10 08:10 G	27014658.64	27014658.84	27014659.04	0.0135	0.0053
Venus	69252-02-21 14:24 G	27014884.89	27014885.10	27014885.32	0.0135	0.0020
Venus	69252-10-04 20:39 G	27015111.15	27015111.36	27015111.58	0.0135	0.0015
Venus	69253-05-19 03:07 G	27015337.43	27015337.63	27015337.84	0.0136	0.0048
Earth	69253-07-24 12:15 G	27015403.85	27015404.01	27015404.18	0.0136	0.0102
Moon	69253-07-24 13:55 G	27015403.92	27015404.08	27015404.24	0.0136	0.0106 *
Mercury	69253-11-19 01:55 G	27015521.56	27015521.58	27015521.63	0.0136	0.0132
Venus	69253-12-31 09:36 G	27015563.73	27015563.90	27015564.08	0.0136	0.0082
Mercury	69254-02-15 06:15 G	27015609.68	27015609.76	27015609.85	0.0136	0.0111
Mercury	69254-05-14 10:19 G	27015697.83	27015697.93	27015698.05	0.0136	0.0090
Moon	69254-07-28 18:58 G	27015773.08	27015773.29	27015773.52	0.0136	0.0056
Earth	69254-07-28 20:39 G	27015773.14	27015773.36	27015773.59	0.0136	0.0061 *

Mercury	69254-08-10 14:39 G	27015785.98	27015786.11	27015786.24	0.0136	0.0069
Venus	69254-08-14 16:05 G	27015790.07	27015790.17	27015790.29	0.0136	0.0116
Mercury	69254-11-06 18:43 G	27015874.14	27015874.28	27015874.42	0.0136	0.0049
Mercury	69255-02-02 22:48 G	27015962.31	27015962.45	27015962.59	0.0136	0.0028
Mercury	69255-05-02 02:53 G	27016050.47	27016050.62	27016050.77	0.0136	0.0008
Mercury	69255-07-29 06:43 G	27016138.64	27016138.78	27016138.93	0.0136	0.0014
Earth	69255-08-02 05:31 G	27016142.48	27016142.73	27016142.98	0.0136	0.0019
Moon	69255-08-02 07:41 G	27016142.58	27016142.82	27016143.08	0.0136	0.0027 *
Mercury	69255-10-25 10:48 G	27016226.81	27016226.95	27016227.09	0.0136	0.0033
Mercury	69256-01-21 14:39 G	27016314.98	27016315.11	27016315.25	0.0136	0.0053
Mercury	69256-04-18 18:29 G	27016403.16	27016403.27	27016403.40	0.0136	0.0074
Mercury	69256-07-15 22:34 G	27016491.34	27016491.44	27016491.55	0.0136	0.0093
Moon	69256-08-05 12:58 G	27016511.81	27016512.04	27016512.29	0.0136	0.0030
Earth	69256-08-05 14:53 G	27016511.88	27016512.12	27016512.37	0.0136	0.0023 *
Mercury	69256-10-12 02:24 G	27016579.53	27016579.60	27016579.69	0.0136	0.0113
Mercury	69257-01-08 06:15 G	27016667.74	27016667.76	27016667.80	0.0136	0.0133
Earth	69257-08-10 00:29 G	27016881.32	27016881.52	27016881.76	0.0137	0.0066
Moon	69257-08-10 03:07 G	27016881.41	27016881.63	27016881.87	0.0137	0.0062 *
Moon	69258-08-14 08:39 G	27017250.73	27017250.86	27017251.02	0.0137	0.0111
Earth	69258-08-14 11:17 G	27017250.83	27017250.97	27017251.13	0.0137	0.0108 *
Mars	69274-10-13 17:03 G	27023154.89	27023155.21	27023155.52	0.0142	0.0002
Venus	69291-03-12 18:58 G	27029149.25	27029149.29	27029149.34	0.0143	0.0139
Venus	69291-10-25 06:29 G	27029375.62	27029375.77	27029375.93	0.0143	0.0099
Venus	69292-06-07 17:31 G	27029602.05	27029602.23	27029602.44	0.0143	0.0060
Venus	69293-01-20 04:48 G	27029828.49	27029828.70	27029828.92	0.0143	0.0020
Venus	69293-09-03 15:51 G	27030054.95	27030055.16	27030055.38	0.0143	0.0021
Earth	69294-01-23 18:58 G	27030197.18	27030197.29	27030197.45	0.0143	0.0122
Moon	69294-01-23 20:10 G	27030197.24	27030197.34	27030197.47	0.0143	0.0129 *
Venus	69294-04-18 02:53 G	27030281.42	27030281.62	27030281.82	0.0142	0.0060
Venus	69294-11-30 13:27 G	27030507.92	27030508.06	27030508.23	0.0142	0.0099

Mercury	69294-12-01 23:03 G	27030509.38	27030509.46	27030509.56	0.0142	0.0121
Moon	69295-01-28 18:00 G	27030567.04	27030567.25	27030567.48	0.0142	0.0065
Earth	69295-01-28 18:58 G	27030567.08	27030567.29	27030567.52	0.0142	0.0072 *
Mercury	69295-02-28 05:03 G	27030597.59	27030597.71	27030597.84	0.0142	0.0094
Mercury	69295-05-27 11:03 G	27030685.81	27030685.96	27030686.10	0.0142	0.0068
Venus	69295-07-15 00:00 G	27030734.46	27030734.50	27030734.56	0.0142	0.0138
Mercury	69295-08-23 16:48 G	27030774.05	27030774.20	27030774.36	0.0142	0.0043
Mercury	69295-11-19 22:48 G	27030862.29	27030862.45	27030862.62	0.0142	0.0016
Earth	69296-02-02 18:15 G	27030937.01	27030937.26	27030937.52	0.0142	0.0023
Moon	69296-02-02 20:39 G	27030937.10	27030937.36	27030937.62	0.0142	0.0026 *
Mercury	69296-02-16 04:48 G	27030950.54	27030950.70	27030950.87	0.0142	0.0011
Mercury	69296-05-14 11:03 G	27031038.79	27031038.96	27031039.12	0.0142	0.0037
Mercury	69296-08-10 17:03 G	27031127.06	27031127.21	27031127.36	0.0142	0.0064
Mercury	69296-11-06 23:03 G	27031215.34	27031215.46	27031215.60	0.0142	0.0091
Mercury	69297-02-03 05:17 G	27031303.63	27031303.72	27031303.82	0.0142	0.0118
Moon	69297-02-06 14:39 G	27031306.87	27031307.11	27031307.36	0.0142	0.0027
Earth	69297-02-06 16:48 G	27031306.95	27031307.20	27031307.46	0.0142	0.0026 *
Earth	69298-02-11 14:10 G	27031676.89	27031677.09	27031677.33	0.0141	0.0075
Moon	69298-02-11 17:17 G	27031677.02	27031677.22	27031677.45	0.0141	0.0080 *
Moon	69299-02-16 08:24 G	27032046.71	27032046.85	27032047.01	0.0141	0.0114
Earth	69299-02-16 11:46 G	27032046.87	27032046.99	27032047.12	0.0141	0.0121 *
Mars	69315-02-13 20:24 G	27037887.11	27037887.35	27037887.62	0.0136	0.0075
Venus	69333-12-13 04:19 G	27044764.68	27044764.68	27044764.71	0.0135	0.0135
Venus	69334-07-27 10:19 G	27044990.80	27044990.93	27044991.09	0.0135	0.0102
Venus	69335-03-10 16:48 G	27045217.01	27045217.20	27045217.38	0.0135	0.0069
Venus	69335-10-22 22:48 G	27045443.25	27045443.45	27045443.66	0.0135	0.0035
Venus	69336-06-05 05:17 G	27045669.50	27045669.72	27045669.94	0.0135	0.0002
Venus	69337-01-17 11:17 G	27045895.77	27045895.97	27045896.19	0.0136	0.0033
Earth	69337-07-25 20:53 G	27046085.20	27046085.37	27046085.55	0.0136	0.0098
Moon	69337-07-25 21:51 G	27046085.24	27046085.41	27046085.61	0.0136	0.0095 *

Venus	69337-08-31 18:00 G	27046122.06	27046122.25	27046122.44	0.0136	0.0066
Mercury	69337-12-10 08:39 G	27046222.82	27046222.86	27046222.92	0.0136	0.0127
Mercury	69338-03-08 12:58 G	27046310.96	27046311.04	27046311.14	0.0136	0.0106
Venus	69338-04-15 00:15 G	27046348.37	27046348.51	27046348.67	0.0136	0.0100
Mercury	69338-06-04 17:17 G	27046399.11	27046399.22	27046399.34	0.0136	0.0085
Moon	69338-07-30 03:51 G	27046454.45	27046454.66	27046454.88	0.0136	0.0063
Earth	69338-07-30 05:03 G	27046454.50	27046454.71	27046454.95	0.0136	0.0057 *
Mercury	69338-08-31 21:22 G	27046487.26	27046487.39	27046487.52	0.0136	0.0064
Venus	69338-11-27 06:43 G	27046574.76	27046574.78	27046574.83	0.0136	0.0134
Mercury	69338-11-28 01:27 G	27046575.42	27046575.56	27046575.70	0.0136	0.0044
Mercury	69339-02-24 05:31 G	27046663.59	27046663.73	27046663.88	0.0136	0.0024
Mercury	69339-05-23 09:36 G	27046751.76	27046751.90	27046752.05	0.0136	0.0004
Earth	69339-08-03 14:10 G	27046823.84	27046824.09	27046824.34	0.0136	0.0015
Moon	69339-08-03 15:22 G	27046823.88	27046824.14	27046824.40	0.0136	0.0008 *
Mercury	69339-08-19 13:41 G	27046839.92	27046840.07	27046840.22	0.0136	0.0017
Mercury	69339-11-15 17:31 G	27046928.10	27046928.23	27046928.38	0.0136	0.0038
Mercury	69340-02-11 21:36 G	27047016.27	27047016.40	27047016.53	0.0136	0.0058
Mercury	69340-05-10 01:27 G	27047104.45	27047104.56	27047104.68	0.0136	0.0078
Mercury	69340-08-06 05:31 G	27047192.63	27047192.73	27047192.83	0.0136	0.0098
Moon	69340-08-06 21:51 G	27047193.17	27047193.41	27047193.65	0.0136	0.0020
Earth	69340-08-06 23:31 G	27047193.24	27047193.48	27047193.73	0.0136	0.0027 *
Mercury	69340-11-02 09:22 G	27047280.82	27047280.89	27047280.96	0.0136	0.0118
Earth	69341-08-11 09:07 G	27047562.68	27047562.88	27047563.11	0.0137	0.0070
Moon	69341-08-11 10:48 G	27047562.75	27047562.95	27047563.18	0.0137	0.0076 *
Moon	69342-08-15 17:46 G	27047932.12	27047932.24	27047932.41	0.0137	0.0111
Earth	69342-08-15 20:10 G	27047932.20	27047932.34	27047932.49	0.0137	0.0112 *
Venus	69375-06-25 12:29 G	27059933.92	27059934.02	27059934.16	0.0143	0.0119
Venus	69376-02-07 00:00 G	27060160.33	27060160.50	27060160.69	0.0143	0.0078
Venus	69376-09-20 11:17 G	27060386.76	27060386.97	27060387.18	0.0143	0.0038
Venus	69377-05-04 22:19 G	27060613.22	27060613.43	27060613.65	0.0143	0.0003

Venus	69377-12-17 09:22 G	27060839.68	27060839.89	27060840.10	0.0143	0.0042
Moon	69378-01-25 04:19 G	27060878.52	27060878.68	27060878.86	0.0143	0.0110
Earth	69378-01-25 04:19 G	27060878.55	27060878.68	27060878.84	0.0143	0.0117 *
Venus	69378-07-31 19:55 G	27061066.16	27061066.33	27061066.52	0.0142	0.0082
Mercury	69378-09-26 00:15 G	27061122.49	27061122.51	27061122.55	0.0142	0.0139
Mercury	69378-12-23 06:15 G	27061210.67	27061210.76	27061210.86	0.0142	0.0113
Moon	69379-01-30 03:22 G	27061248.43	27061248.64	27061248.85	0.0142	0.0075
Earth	69379-01-30 04:05 G	27061248.46	27061248.67	27061248.91	0.0142	0.0068 *
Venus	69379-03-15 06:29 G	27061292.67	27061292.77	27061292.90	0.0142	0.0121
Mercury	69379-03-21 12:15 G	27061298.88	27061299.01	27061299.14	0.0142	0.0088
Mercury	69379-06-17 18:00 G	27061387.10	27061387.25	27061387.40	0.0142	0.0062
Mercury	69379-09-14 00:00 G	27061475.34	27061475.50	27061475.66	0.0142	0.0036
Mercury	69379-12-11 05:46 G	27061563.58	27061563.74	27061563.91	0.0142	0.0010
Earth	69380-02-04 03:22 G	27061618.39	27061618.64	27061618.90	0.0142	0.0018
Moon	69380-02-04 04:34 G	27061618.42	27061618.69	27061618.95	0.0142	0.0013 *
Mercury	69380-03-08 12:00 G	27061651.83	27061652.00	27061652.16	0.0142	0.0017
Mercury	69380-06-04 18:00 G	27061740.09	27061740.25	27061740.41	0.0142	0.0044
Mercury	69380-09-01 00:00 G	27061828.36	27061828.50	27061828.65	0.0142	0.0071
Mercury	69380-11-28 06:00 G	27061916.64	27061916.75	27061916.88	0.0142	0.0098
Moon	69381-02-07 23:46 G	27061988.25	27061988.49	27061988.74	0.0142	0.0031
Earth	69381-02-08 01:55 G	27061988.33	27061988.58	27061988.84	0.0142	0.0031 *
Mercury	69381-02-24 12:15 G	27062004.94	27062005.01	27062005.10	0.0142	0.0125
Earth	69382-02-12 23:46 G	27062358.28	27062358.49	27062358.71	0.0141	0.0079
Moon	69382-02-13 02:10 G	27062358.37	27062358.59	27062358.82	0.0141	0.0075 *
Moon	69383-02-17 18:00 G	27062728.18	27062728.25	27062728.34	0.0141	0.0132
Earth	69383-02-17 20:24 G	27062728.26	27062728.35	27062728.49	0.0141	0.0126 *
Mars	69399-10-09 12:00 G	27068805.76	27068806.00	27068806.26	0.0136	0.0078
Venus	69418-03-27 18:58 G	27075549.19	27075549.29	27075549.40	0.0135	0.0117
Venus	69418-11-09 00:58 G	27075775.38	27075775.54	27075775.71	0.0135	0.0084
Venus	69419-06-23 06:58 G	27076001.60	27076001.79	27076002.00	0.0135	0.0051

Venus	69420-02-04 13:12 G	27076227.84	27076228.05	27076228.27	0.0135	0.0017
Moon	69420-07-22 20:39 G	27076397.36	27076397.36	27076397.39	0.0135	0.0135
Earth	69420-07-22 20:53 G	27076397.36	27076397.37	27076397.42	0.0135	0.0135 *
Venus	69420-09-17 19:27 G	27076454.10	27076454.31	27076454.53	0.0135	0.0016
Venus	69421-05-02 01:41 G	27076680.38	27076680.57	27076680.78	0.0136	0.0051
Earth	69421-07-27 05:03 G	27076766.53	27076766.71	27076766.89	0.0136	0.0094
Moon	69421-07-27 05:03 G	27076766.55	27076766.71	27076766.91	0.0136	0.0097 *
Venus	69421-12-14 08:10 G	27076906.68	27076906.84	27076907.02	0.0136	0.0084
Mercury	69421-12-31 15:22 G	27076924.09	27076924.14	27076924.21	0.0136	0.0123
Mercury	69422-03-29 19:41 G	27077012.23	27077012.32	27077012.42	0.0136	0.0102
Mercury	69422-06-25 23:46 G	27077100.38	27077100.49	27077100.62	0.0136	0.0081
Venus	69422-07-28 14:39 G	27077133.01	27077133.11	27077133.23	0.0136	0.0118
Moon	69422-07-31 12:58 G	27077135.82	27077136.04	27077136.28	0.0136	0.0049
Earth	69422-07-31 13:27 G	27077135.83	27077136.06	27077136.29	0.0136	0.0053 *
Mercury	69422-09-22 04:05 G	27077188.54	27077188.67	27077188.80	0.0136	0.0060
Mercury	69422-12-19 08:10 G	27077276.70	27077276.84	27077276.98	0.0136	0.0040
Mercury	69423-03-17 12:15 G	27077364.87	27077365.01	27077365.16	0.0136	0.0019
Mercury	69423-06-13 16:19 G	27077453.03	27077453.18	27077453.33	0.0136	0.0002
Earth	69423-08-04 22:19 G	27077505.18	27077505.43	27077505.68	0.0136	0.0011
Moon	69423-08-04 23:17 G	27077505.22	27077505.47	27077505.73	0.0136	0.0019 *
Mercury	69423-09-09 20:24 G	27077541.20	27077541.35	27077541.49	0.0136	0.0022
Mercury	69423-12-07 00:15 G	27077629.38	27077629.51	27077629.66	0.0136	0.0042
Mercury	69424-03-04 04:19 G	27077717.55	27077717.68	27077717.81	0.0136	0.0062
Mercury	69424-05-31 08:10 G	27077805.73	27077805.84	27077805.96	0.0136	0.0082
Moon	69424-08-08 06:58 G	27077874.56	27077874.79	27077875.03	0.0136	0.0038
Earth	69424-08-08 07:41 G	27077874.58	27077874.82	27077875.07	0.0136	0.0031 *
Mercury	69424-08-27 12:00 G	27077893.92	27077894.00	27077894.11	0.0136	0.0102
Mercury	69424-11-23 16:05 G	27077982.11	27077982.17	27077982.24	0.0136	0.0122
Earth	69425-08-12 17:17 G	27078244.03	27078244.22	27078244.45	0.0137	0.0074
Moon	69425-08-12 18:58 G	27078244.07	27078244.29	27078244.52	0.0137	0.0068 *

Moon	69426-08-17 02:53 G	27078613.52	27078613.62	27078613.75	0.0137	0.0120
Earth	69426-08-17 04:05 G	27078613.56	27078613.67	27078613.82	0.0137	0.0116 *
Mars	69442-03-02 15:22 G	27084290.08	27084290.14	27084290.26	0.0142	0.0136
Venus	69459-02-23 18:58 G	27090492.24	27090492.29	27090492.36	0.0143	0.0137
Venus	69459-10-08 06:29 G	27090718.61	27090718.77	27090718.93	0.0143	0.0097
Venus	69460-05-21 17:46 G	27090945.04	27090945.24	27090945.44	0.0143	0.0056
Venus	69461-01-03 04:48 G	27091171.49	27091171.70	27091171.92	0.0143	0.0016
Venus	69461-08-17 15:36 G	27091397.94	27091398.15	27091398.37	0.0143	0.0024
Moon	69462-01-26 12:58 G	27091559.91	27091560.04	27091560.20	0.0143	0.0119
Earth	69462-01-26 13:27 G	27091559.92	27091560.06	27091560.24	0.0143	0.0112 *
Venus	69462-04-01 02:24 G	27091624.41	27091624.60	27091624.80	0.0143	0.0063
Mercury	69462-10-17 07:12 G	27091823.76	27091823.80	27091823.87	0.0142	0.0133
Venus	69462-11-13 13:12 G	27091850.91	27091851.05	27091851.21	0.0142	0.0103
Mercury	69463-01-13 13:12 G	27091911.95	27091912.05	27091912.16	0.0142	0.0107
Earth	69463-01-31 13:27 G	27091929.83	27091930.06	27091930.29	0.0142	0.0063
Moon	69463-01-31 13:27 G	27091929.84	27091930.06	27091930.30	0.0142	0.0056 *
Mercury	69463-04-11 18:58 G	27092000.16	27092000.29	27092000.43	0.0142	0.0081
Venus	69463-06-27 23:46 G	27092077.48	27092077.49	27092077.53	0.0142	0.0141
Mercury	69463-07-09 00:58 G	27092088.39	27092088.54	27092088.70	0.0142	0.0055
Mercury	69463-10-05 06:58 G	27092176.63	27092176.79	27092176.95	0.0142	0.0029
Mercury	69464-01-01 12:58 G	27092264.87	27092265.04	27092265.21	0.0142	0.0003
Earth	69464-02-05 12:29 G	27092299.77	27092300.02	27092300.28	0.0142	0.0014
Moon	69464-02-05 13:41 G	27092299.81	27092300.07	27092300.33	0.0142	0.0018 *
Mercury	69464-03-29 18:58 G	27092353.12	27092353.29	27092353.45	0.0142	0.0024
Mercury	69464-06-26 00:58 G	27092441.38	27092441.54	27092441.70	0.0142	0.0051
Mercury	69464-09-22 06:58 G	27092529.65	27092529.79	27092529.94	0.0142	0.0078
Mercury	69464-12-19 12:58 G	27092617.94	27092618.04	27092618.16	0.0142	0.0105
Moon	69465-02-09 10:05 G	27092669.69	27092669.92	27092670.17	0.0142	0.0037
Earth	69465-02-09 11:17 G	27092669.72	27092669.97	27092670.22	0.0142	0.0035 *
Mercury	69465-03-17 19:12 G	27092706.25	27092706.30	27092706.37	0.0142	0.0132

Earth	69466-02-14 08:39 G	27093039.67	27093039.86	27093040.08	0.0141	0.0083
Moon	69466-02-14 10:48 G	27093039.75	27093039.95	27093040.17	0.0141	0.0087 *
Moon	69467-02-19 03:36 G	27093409.55	27093409.65	27093409.78	0.0141	0.0124
Earth	69467-02-19 06:00 G	27093409.67	27093409.75	27093409.86	0.0141	0.0130 *
Venus	69501-11-26 04:05 G	27106107.63	27106107.67	27106107.70	0.0135	0.0132
Venus	69502-07-10 09:22 G	27106333.77	27106333.89	27106334.06	0.0135	0.0100
Venus	69503-02-21 15:51 G	27106559.97	27106560.16	27106560.35	0.0135	0.0066
Venus	69503-10-05 21:51 G	27106786.20	27106786.41	27106786.62	0.0135	0.0033
Venus	69504-05-19 04:19 G	27107012.46	27107012.68	27107012.89	0.0135	0.0002
Earth	69504-07-24 06:15 G	27107078.70	27107078.76	27107078.83	0.0135	0.0130
Moon	69504-07-24 06:29 G	27107078.71	27107078.77	27107078.87	0.0135	0.0128 *
Venus	69504-12-31 10:19 G	27107238.73	27107238.93	27107239.15	0.0136	0.0035
Moon	69505-07-28 13:55 G	27107447.88	27107448.08	27107448.28	0.0136	0.0088
Earth	69505-07-28 13:55 G	27107447.91	27107448.08	27107448.28	0.0136	0.0090 *
Venus	69505-08-14 16:34 G	27107465.01	27107465.19	27107465.39	0.0136	0.0068
Mercury	69506-01-21 22:34 G	27107625.36	27107625.44	27107625.51	0.0136	0.0117
Venus	69506-03-28 23:17 G	27107691.33	27107691.47	27107691.61	0.0136	0.0102
Mercury	69506-04-20 02:24 G	27107713.51	27107713.60	27107713.72	0.0136	0.0097
Mercury	69506-07-17 06:43 G	27107801.66	27107801.78	27107801.91	0.0136	0.0076
Earth	69506-08-01 22:19 G	27107817.21	27107817.43	27107817.68	0.0136	0.0049
Moon	69506-08-01 22:19 G	27107817.22	27107817.43	27107817.66	0.0136	0.0054 *
Mercury	69506-10-13 11:03 G	27107889.82	27107889.96	27107890.09	0.0136	0.0055
Mercury	69507-01-09 15:07 G	27107977.99	27107978.13	27107978.27	0.0136	0.0034
Mercury	69507-04-07 19:12 G	27108066.15	27108066.30	27108066.45	0.0136	0.0014
Mercury	69507-07-04 23:17 G	27108154.32	27108154.47	27108154.62	0.0136	0.0007
Moon	69507-08-06 06:58 G	27108186.53	27108186.79	27108187.06	0.0136	0.0002
Earth	69507-08-06 07:27 G	27108186.55	27108186.81	27108187.06	0.0136	0.0007 *
Mercury	69507-10-01 03:07 G	27108242.49	27108242.63	27108242.78	0.0136	0.0027
Mercury	69507-12-28 07:12 G	27108330.67	27108330.80	27108330.94	0.0136	0.0047
Mercury	69508-03-25 11:17 G	27108418.84	27108418.97	27108419.10	0.0136	0.0067

Mercury	69508-06-21 15:07 G	27108507.02	27108507.13	27108507.25	0.0136	0.0087
Moon	69508-08-09 16:05 G	27108555.94	27108556.17	27108556.42	0.0136	0.0029
Earth	69508-08-09 16:34 G	27108555.96	27108556.19	27108556.44	0.0136	0.0036 *
Mercury	69508-09-17 18:58 G	27108595.21	27108595.29	27108595.39	0.0136	0.0107
Mercury	69508-12-14 23:03 G	27108683.41	27108683.46	27108683.51	0.0136	0.0127
Earth	69509-08-14 02:39 G	27108925.41	27108925.61	27108925.82	0.0137	0.0078
Moon	69509-08-14 02:39 G	27108925.42	27108925.61	27108925.83	0.0137	0.0085 *
Moon	69510-08-18 12:29 G	27109294.91	27109295.02	27109295.16	0.0137	0.0117
Earth	69510-08-18 13:27 G	27109294.95	27109295.06	27109295.18	0.0137	0.0120 *
Mars	69526-10-28 05:31 G	27115209.44	27115209.73	27115210.03	0.0142	0.0048
Venus	69543-06-08 12:15 G	27121276.90	27121277.01	27121277.15	0.0143	0.0116
Venus	69544-01-20 23:31 G	27121503.31	27121503.48	27121503.68	0.0143	0.0076
Venus	69544-09-03 10:48 G	27121729.74	27121729.95	27121730.17	0.0143	0.0036
Venus	69545-04-17 22:05 G	27121956.20	27121956.42	27121956.63	0.0143	0.0005
Venus	69545-11-30 08:53 G	27122182.67	27122182.87	27122183.08	0.0143	0.0045
Moon	69546-01-27 20:39 G	27122241.19	27122241.36	27122241.57	0.0143	0.0101
Earth	69546-01-27 22:19 G	27122241.27	27122241.43	27122241.61	0.0143	0.0107 *
Venus	69546-07-14 19:41 G	27122409.15	27122409.32	27122409.50	0.0142	0.0084
Mercury	69546-11-07 14:24 G	27122525.03	27122525.10	27122525.18	0.0142	0.0125
Earth	69547-02-01 22:19 G	27122611.20	27122611.43	27122611.67	0.0142	0.0057
Moon	69547-02-01 22:34 G	27122611.23	27122611.44	27122611.67	0.0142	0.0065 *
Mercury	69547-02-03 20:24 G	27122613.23	27122613.35	27122613.46	0.0142	0.0100
Venus	69547-02-26 06:00 G	27122635.66	27122635.75	27122635.88	0.0142	0.0124
Mercury	69547-05-03 01:55 G	27122701.45	27122701.58	27122701.73	0.0142	0.0074
Mercury	69547-07-30 07:55 G	27122789.68	27122789.83	27122789.99	0.0142	0.0048
Mercury	69547-10-26 13:55 G	27122877.92	27122878.08	27122878.25	0.0142	0.0022
Mercury	69548-01-22 19:55 G	27122966.16	27122966.33	27122966.50	0.0142	0.0005
Moon	69548-02-06 21:22 G	27122981.12	27122981.39	27122981.66	0.0142	0.0002
Earth	69548-02-06 21:36 G	27122981.15	27122981.40	27122981.66	0.0142	0.0009 *
Mercury	69548-04-20 01:55 G	27123054.42	27123054.58	27123054.74	0.0142	0.0031

Mercury	69548-07-17 07:55 G	27123142.68	27123142.83	27123142.99	0.0142	0.0058
Mercury	69548-10-13 13:55 G	27123230.95	27123231.08	27123231.22	0.0142	0.0085
Mercury	69549-01-09 19:55 G	27123319.24	27123319.33	27123319.45	0.0142	0.0112
Moon	69549-02-10 19:12 G	27123351.07	27123351.30	27123351.55	0.0142	0.0039
Earth	69549-02-10 20:10 G	27123351.10	27123351.34	27123351.59	0.0142	0.0040 *
Mercury	69549-04-08 02:10 G	27123407.57	27123407.59	27123407.63	0.0142	0.0139
Earth	69550-02-15 18:00 G	27123721.06	27123721.25	27123721.46	0.0141	0.0088
Moon	69550-02-15 18:58 G	27123721.10	27123721.29	27123721.52	0.0141	0.0087 *
Moon	69551-02-20 13:41 G	27124091.07	27124091.07	27124091.09	0.0141	0.0141
Earth	69551-02-20 15:07 G	27124091.08	27124091.13	27124091.22	0.0141	0.0135 *
Mars	69567-02-27 18:58 G	27129942.01	27129942.29	27129942.60	0.0136	0.0028
Venus	69586-03-09 18:15 G	27136892.15	27136892.26	27136892.37	0.0135	0.0115
Venus	69586-10-22 00:15 G	27137118.34	27137118.51	27137118.68	0.0135	0.0082
Venus	69587-06-05 06:15 G	27137344.56	27137344.76	27137344.97	0.0135	0.0049
Venus	69588-01-17 12:29 G	27137570.80	27137571.02	27137571.24	0.0135	0.0016
Earth	69588-07-24 14:24 G	27137760.03	27137760.10	27137760.22	0.0135	0.0126
Moon	69588-07-24 15:36 G	27137760.08	27137760.15	27137760.24	0.0135	0.0128 *
Venus	69588-08-30 18:29 G	27137797.06	27137797.27	27137797.49	0.0135	0.0019
Venus	69589-04-14 00:43 G	27138023.34	27138023.53	27138023.74	0.0136	0.0053
Moon	69589-07-28 21:22 G	27138129.21	27138129.39	27138129.61	0.0136	0.0086
Earth	69589-07-28 22:34 G	27138129.26	27138129.44	27138129.65	0.0136	0.0085 *
Mercury	69589-11-15 00:43 G	27138238.52	27138238.53	27138238.57	0.0136	0.0134
Venus	69589-11-26 07:27 G	27138249.65	27138249.81	27138249.98	0.0136	0.0086
Mercury	69590-02-11 05:03 G	27138326.64	27138326.71	27138326.80	0.0136	0.0113
Mercury	69590-05-10 09:22 G	27138414.79	27138414.89	27138415.01	0.0136	0.0092
Venus	69590-07-10 13:55 G	27138475.99	27138476.08	27138476.19	0.0136	0.0120
Earth	69590-08-02 06:58 G	27138498.56	27138498.79	27138499.04	0.0136	0.0044
Moon	69590-08-02 07:55 G	27138498.61	27138498.83	27138499.07	0.0136	0.0041 *
Mercury	69590-08-06 13:27 G	27138502.94	27138503.06	27138503.20	0.0136	0.0071
Mercury	69590-11-02 17:46 G	27138591.10	27138591.24	27138591.38	0.0136	0.0050

Mercury	69591-01-29 21:51 G	27138679.27	27138679.41	27138679.56	0.0136	0.0029
Mercury	69591-04-28 01:55 G	27138767.44	27138767.58	27138767.73	0.0136	0.0009
Mercury	69591-07-25 06:00 G	27138855.61	27138855.75	27138855.90	0.0136	0.0012
Moon	69591-08-06 15:36 G	27138867.89	27138868.15	27138868.41	0.0136	0.0009
Earth	69591-08-06 16:05 G	27138867.92	27138868.17	27138868.42	0.0136	0.0002 *
Mercury	69591-10-21 10:05 G	27138943.78	27138943.92	27138944.06	0.0136	0.0032
Mercury	69592-01-17 13:55 G	27139031.95	27139032.08	27139032.22	0.0136	0.0053
Mercury	69592-04-14 18:00 G	27139120.13	27139120.25	27139120.38	0.0136	0.0072
Mercury	69592-07-11 21:51 G	27139208.31	27139208.41	27139208.53	0.0136	0.0093
Earth	69592-08-10 01:12 G	27139237.32	27139237.55	27139237.80	0.0136	0.0040
Moon	69592-08-10 01:55 G	27139237.36	27139237.58	27139237.82	0.0136	0.0048 *
Mercury	69592-10-08 01:55 G	27139296.50	27139296.58	27139296.66	0.0136	0.0112
Mercury	69593-01-04 05:31 G	27139384.71	27139384.73	27139384.78	0.0136	0.0133
Moon	69593-08-14 11:31 G	27139606.77	27139606.98	27139607.20	0.0137	0.0076
Earth	69593-08-14 11:17 G	27139606.79	27139606.97	27139607.19	0.0137	0.0083 *
Earth	69594-08-18 21:51 G	27139976.33	27139976.41	27139976.54	0.0137	0.0125
Moon	69594-08-18 22:05 G	27139976.36	27139976.42	27139976.51	0.0137	0.0130 *
Venus	69627-02-05 18:15 G	27151835.20	27151835.26	27151835.34	0.0143	0.0135
Venus	69627-09-20 05:31 G	27152061.58	27152061.73	27152061.91	0.0143	0.0095
Venus	69628-05-03 16:48 G	27152288.01	27152288.20	27152288.42	0.0143	0.0055
Venus	69628-12-16 04:19 G	27152514.46	27152514.68	27152514.90	0.0143	0.0015
Venus	69629-07-30 15:07 G	27152740.92	27152741.13	27152741.35	0.0143	0.0026
Moon	69630-01-28 05:17 G	27152922.57	27152922.72	27152922.92	0.0143	0.0108
Earth	69630-01-28 07:27 G	27152922.64	27152922.81	27152923.00	0.0143	0.0101 *
Venus	69630-03-14 01:55 G	27152967.40	27152967.58	27152967.79	0.0143	0.0066
Venus	69630-10-26 12:43 G	27153193.90	27153194.03	27153194.19	0.0142	0.0105
Mercury	69630-11-27 21:22 G	27153226.31	27153226.39	27153226.49	0.0142	0.0118
Earth	69631-02-02 07:12 G	27153292.57	27153292.80	27153293.05	0.0142	0.0052
Moon	69631-02-02 09:07 G	27153292.64	27153292.88	27153293.11	0.0142	0.0045 *
Mercury	69631-02-24 03:22 G	27153314.51	27153314.64	27153314.76	0.0142	0.0093

Mercury	69631-05-23 08:53 G	27153402.74	27153402.87	27153403.03	0.0142	0.0067
Mercury	69631-08-19 14:53 G	27153490.97	27153491.12	27153491.28	0.0142	0.0041
Mercury	69631-11-15 20:53 G	27153579.21	27153579.37	27153579.54	0.0142	0.0015
Moon	69632-02-07 06:29 G	27153662.51	27153662.77	27153663.04	0.0142	0.0009
Earth	69632-02-07 06:58 G	27153662.53	27153662.79	27153663.05	0.0142	0.0003 *
Mercury	69632-02-12 02:53 G	27153667.45	27153667.62	27153667.79	0.0142	0.0012
Mercury	69632-05-10 08:53 G	27153755.71	27153755.87	27153756.03	0.0142	0.0039
Mercury	69632-08-06 15:07 G	27153843.98	27153844.13	27153844.28	0.0142	0.0065
Mercury	69632-11-02 21:07 G	27153932.25	27153932.38	27153932.51	0.0142	0.0092
Mercury	69633-01-30 03:07 G	27154020.55	27154020.63	27154020.73	0.0142	0.0119
Earth	69633-02-11 05:31 G	27154032.49	27154032.73	27154032.98	0.0142	0.0046
Moon	69633-02-11 05:46 G	27154032.52	27154032.74	27154032.98	0.0142	0.0050 *
Earth	69634-02-16 03:22 G	27154402.46	27154402.64	27154402.84	0.0141	0.0094
Moon	69634-02-16 03:51 G	27154402.49	27154402.66	27154402.88	0.0141	0.0096 *
Moon	69635-02-20 23:46 G	27154772.44	27154772.49	27154772.57	0.0141	0.0135
Earth	69635-02-21 00:58 G	27154772.53	27154772.54	27154772.57	0.0141	0.0140 *
Mars	69651-10-23 11:03 G	27160860.85	27160860.96	27160861.08	0.0136	0.0125
Venus	69669-11-07 03:07 G	27167450.59	27167450.63	27167450.69	0.0135	0.0131
Venus	69670-06-21 09:07 G	27167676.74	27167676.88	27167677.04	0.0135	0.0098
Venus	69671-02-02 14:53 G	27167902.95	27167903.12	27167903.33	0.0135	0.0066
Venus	69671-09-16 21:22 G	27168129.18	27168129.39	27168129.60	0.0135	0.0031
Venus	69672-04-30 03:36 G	27168355.43	27168355.65	27168355.87	0.0135	0.0003
Earth	69672-07-25 00:15 G	27168441.40	27168441.51	27168441.63	0.0135	0.0120
Moon	69672-07-25 01:55 G	27168441.47	27168441.58	27168441.71	0.0135	0.0117 *
Venus	69672-12-12 09:51 G	27168581.70	27168581.91	27168582.12	0.0135	0.0036
Venus	69673-07-26 16:19 G	27168807.99	27168808.18	27168808.36	0.0136	0.0070
Moon	69673-07-29 06:29 G	27168810.57	27168810.77	27168810.99	0.0136	0.0080
Earth	69673-07-29 07:55 G	27168810.64	27168810.83	27168811.05	0.0136	0.0080 *
Mercury	69673-12-05 07:41 G	27168939.79	27168939.82	27168939.88	0.0136	0.0128
Mercury	69674-03-03 12:00 G	27169027.92	27169028.00	27169028.10	0.0136	0.0107

Venus	69674-03-09 22:34 G	27169034.31	27169034.44	27169034.59	0.0136	0.0104
Mercury	69674-05-30 16:19 G	27169116.07	27169116.18	27169116.30	0.0136	0.0086
Earth	69674-08-02 16:34 G	27169179.96	27169180.19	27169180.44	0.0136	0.0039
Moon	69674-08-02 18:00 G	27169180.02	27169180.25	27169180.48	0.0136	0.0042 *
Mercury	69674-08-26 20:39 G	27169204.23	27169204.36	27169204.49	0.0136	0.0065
Mercury	69674-11-23 00:43 G	27169292.39	27169292.53	27169292.67	0.0136	0.0044
Mercury	69675-02-19 04:48 G	27169380.56	27169380.70	27169380.85	0.0136	0.0024
Mercury	69675-05-18 08:53 G	27169468.73	27169468.87	27169469.02	0.0136	0.0005
Moon	69675-08-07 00:00 G	27169549.24	27169549.50	27169549.76	0.0136	0.0008
Earth	69675-08-07 01:41 G	27169549.32	27169549.57	27169549.82	0.0136	0.0003 *
Mercury	69675-08-14 12:58 G	27169556.90	27169557.04	27169557.19	0.0136	0.0018
Mercury	69675-11-10 17:03 G	27169645.07	27169645.21	27169645.35	0.0136	0.0038
Mercury	69676-02-06 21:07 G	27169733.25	27169733.38	27169733.51	0.0136	0.0058
Mercury	69676-05-05 00:58 G	27169821.43	27169821.54	27169821.67	0.0136	0.0078
Mercury	69676-08-01 04:48 G	27169909.61	27169909.70	27169909.81	0.0136	0.0099
Earth	69676-08-10 11:03 G	27169918.73	27169918.96	27169919.21	0.0136	0.0046
Moon	69676-08-10 12:00 G	27169918.77	27169919.00	27169919.24	0.0136	0.0038 *
Mercury	69676-10-28 08:53 G	27169997.81	27169997.87	27169997.95	0.0136	0.0118
Moon	69677-08-14 19:55 G	27170288.16	27170288.33	27170288.53	0.0137	0.0095
Earth	69677-08-14 21:07 G	27170288.20	27170288.38	27170288.59	0.0137	0.0088 *
Earth	69678-08-19 07:27 G	27170657.76	27170657.81	27170657.91	0.0137	0.0130
Moon	69678-08-19 08:24 G	27170657.77	27170657.85	27170657.96	0.0137	0.0125 *
Mars	69694-03-15 03:51 G	27176344.43	27176344.66	27176344.94	0.0142	0.0085
Venus	69711-05-21 11:46 G	27182619.87	27182619.99	27182620.13	0.0143	0.0114
Venus	69712-01-02 23:03 G	27182846.29	27182846.46	27182846.66	0.0143	0.0074
Venus	69712-08-16 10:19 G	27183072.73	27183072.93	27183073.15	0.0143	0.0034
Venus	69713-03-30 21:36 G	27183299.18	27183299.40	27183299.62	0.0143	0.0006
Venus	69713-11-12 08:39 G	27183525.66	27183525.86	27183526.07	0.0143	0.0046
Moon	69714-01-29 13:55 G	27183603.88	27183604.08	27183604.29	0.0143	0.0091
Earth	69714-01-29 16:19 G	27183604.01	27183604.18	27183604.39	0.0143	0.0096 *

Venus	69714-06-26 19:41 G	27183752.15	27183752.32	27183752.49	0.0142	0.0086
Mercury	69714-09-21 22:34 G	27183839.41	27183839.44	27183839.49	0.0142	0.0137
Mercury	69714-12-19 04:19 G	27183927.59	27183927.68	27183927.79	0.0142	0.0111
Earth	69715-02-03 16:34 G	27183973.96	27183974.19	27183974.44	0.0142	0.0046
Moon	69715-02-03 18:15 G	27183974.04	27183974.26	27183974.50	0.0142	0.0054 *
Venus	69715-02-08 06:00 G	27183978.66	27183978.75	27183978.87	0.0142	0.0125
Mercury	69715-03-17 10:19 G	27184015.80	27184015.93	27184016.06	0.0142	0.0085
Mercury	69715-06-13 16:05 G	27184104.03	27184104.17	27184104.33	0.0142	0.0060
Mercury	69715-09-09 22:05 G	27184192.26	27184192.42	27184192.58	0.0142	0.0033
Mercury	69715-12-07 04:05 G	27184280.50	27184280.67	27184280.83	0.0142	0.0007
Moon	69716-02-08 14:39 G	27184343.84	27184344.11	27184344.37	0.0142	0.0010
Earth	69716-02-08 16:19 G	27184343.92	27184344.18	27184344.44	0.0142	0.0003 *
Mercury	69716-03-04 09:51 G	27184368.75	27184368.91	27184369.08	0.0142	0.0020
Mercury	69716-05-31 15:51 G	27184457.01	27184457.16	27184457.33	0.0142	0.0046
Mercury	69716-08-27 21:51 G	27184545.28	27184545.41	27184545.56	0.0142	0.0073
Mercury	69716-11-24 04:05 G	27184633.56	27184633.67	27184633.79	0.0142	0.0100
Earth	69717-02-12 14:53 G	27184713.89	27184714.12	27184714.37	0.0142	0.0052
Moon	69717-02-12 15:22 G	27184713.91	27184714.14	27184714.38	0.0142	0.0049 *
Mercury	69717-02-20 10:05 G	27184721.86	27184721.92	27184722.01	0.0142	0.0127
Moon	69718-02-17 12:43 G	27185083.85	27185084.03	27185084.23	0.0141	0.0099
Earth	69718-02-17 12:43 G	27185083.87	27185084.03	27185084.23	0.0141	0.0100 *
Mars	69734-07-18 03:51 G	27191078.58	27191078.66	27191078.75	0.0136	0.0129
Venus	69754-02-19 17:17 G	27198235.13	27198235.22	27198235.36	0.0135	0.0114
Venus	69754-10-03 23:46 G	27198461.32	27198461.49	27198461.66	0.0135	0.0080
Venus	69755-05-18 05:46 G	27198687.54	27198687.74	27198687.95	0.0135	0.0047
Venus	69755-12-30 12:00 G	27198913.79	27198914.00	27198914.22	0.0135	0.0014
Earth	69756-07-26 08:39 G	27199122.75	27199122.86	27199123.01	0.0135	0.0115
Moon	69756-07-26 11:03 G	27199122.85	27199122.96	27199123.08	0.0135	0.0119 *
Venus	69756-08-12 18:15 G	27199140.04	27199140.26	27199140.47	0.0135	0.0020
Venus	69757-03-27 00:29 G	27199366.33	27199366.52	27199366.72	0.0135	0.0054

Moon	69757-07-30 14:39 G	27199491.90	27199492.11	27199492.34	0.0136	0.0074
Earth	69757-07-30 16:48 G	27199492.01	27199492.20	27199492.42	0.0136	0.0075 *
Venus	69757-11-08 06:58 G	27199592.63	27199592.79	27199592.96	0.0136	0.0088
Mercury	69757-12-26 14:53 G	27199641.06	27199641.12	27199641.18	0.0136	0.0122
Mercury	69758-03-24 18:43 G	27199729.20	27199729.28	27199729.39	0.0136	0.0102
Mercury	69758-06-20 23:03 G	27199817.35	27199817.46	27199817.59	0.0136	0.0081
Venus	69758-06-22 13:27 G	27199818.98	27199819.06	27199819.17	0.0136	0.0122
Earth	69758-08-04 01:12 G	27199861.32	27199861.55	27199861.81	0.0136	0.0034
Moon	69758-08-04 03:36 G	27199861.42	27199861.65	27199861.89	0.0136	0.0032 *
Mercury	69758-09-17 03:22 G	27199905.51	27199905.64	27199905.78	0.0136	0.0060
Mercury	69758-12-14 07:41 G	27199993.68	27199993.82	27199993.96	0.0136	0.0039
Mercury	69759-03-12 11:46 G	27200081.84	27200081.99	27200082.14	0.0136	0.0018
Mercury	69759-06-08 15:51 G	27200170.01	27200170.16	27200170.31	0.0136	0.0002
Moon	69759-08-08 08:53 G	27200230.61	27200230.87	27200231.13	0.0136	0.0003
Earth	69759-08-08 10:34 G	27200230.69	27200230.94	27200231.19	0.0136	0.0008 *
Mercury	69759-09-04 19:55 G	27200258.19	27200258.33	27200258.48	0.0136	0.0023
Mercury	69759-12-02 00:00 G	27200346.36	27200346.50	27200346.64	0.0136	0.0043
Mercury	69760-02-28 03:51 G	27200434.54	27200434.66	27200434.80	0.0136	0.0064
Mercury	69760-05-26 07:55 G	27200522.72	27200522.83	27200522.95	0.0136	0.0083
Earth	69760-08-11 19:55 G	27200600.10	27200600.33	27200600.57	0.0136	0.0050
Moon	69760-08-11 21:51 G	27200600.20	27200600.41	27200600.64	0.0136	0.0057 *
Mercury	69760-08-22 11:46 G	27200610.91	27200610.99	27200611.09	0.0136	0.0104
Mercury	69760-11-18 15:36 G	27200699.10	27200699.15	27200699.22	0.0136	0.0124
Moon	69761-08-16 04:19 G	27200969.50	27200969.68	27200969.90	0.0137	0.0086
Earth	69761-08-16 05:46 G	27200969.58	27200969.74	27200969.95	0.0137	0.0093 *
Earth	69762-08-20 16:34 G	27201339.16	27201339.19	27201339.25	0.0137	0.0134
Mars	69778-11-09 19:12 G	27207264.09	27207264.30	27207264.53	0.0142	0.0102
Venus	69795-01-18 18:15 G	27213178.19	27213178.26	27213178.36	0.0143	0.0133
Venus	69795-09-02 05:46 G	27213404.58	27213404.74	27213404.91	0.0143	0.0092
Venus	69796-04-15 17:03 G	27213631.01	27213631.21	27213631.42	0.0143	0.0052

Venus	69796-11-28 04:34 G	27213857.47	27213857.69	27213857.91	0.0143	0.0012
Earth	69797-01-25 01:41 G	27213915.53	27213915.57	27213915.65	0.0143	0.0139
Moon	69797-01-25 05:03 G	27213915.67	27213915.71	27213915.79	0.0143	0.0139
Venus	69797-07-12 15:36 G	27214083.94	27214084.15	27214084.36	0.0143	0.0028
Moon	69798-01-29 23:46 G	27214285.30	27214285.49	27214285.69	0.0143	0.0095
Earth	69798-01-30 02:39 G	27214285.42	27214285.61	27214285.82	0.0143	0.0090 *
Venus	69798-02-24 02:24 G	27214310.42	27214310.60	27214310.80	0.0143	0.0068
Venus	69798-10-08 12:58 G	27214536.92	27214537.04	27214537.20	0.0142	0.0108
Mercury	69798-10-12 06:00 G	27214540.69	27214540.75	27214540.82	0.0142	0.0129
Mercury	69799-01-08 11:31 G	27214628.88	27214628.98	27214629.11	0.0142	0.0104
Earth	69799-02-04 02:39 G	27214655.37	27214655.61	27214655.87	0.0142	0.0041
Moon	69799-02-04 05:31 G	27214655.49	27214655.73	27214655.97	0.0142	0.0033 *
Mercury	69799-04-06 17:31 G	27214717.10	27214717.23	27214717.37	0.0142	0.0077
Mercury	69799-07-03 23:31 G	27214805.32	27214805.48	27214805.63	0.0142	0.0051
Mercury	69799-09-30 05:17 G	27214893.56	27214893.72	27214893.89	0.0142	0.0025
Mercury	69799-12-27 11:17 G	27214981.80	27214981.97	27214982.14	0.0142	0.0001
Moon	69800-02-09 00:43 G	27215025.26	27215025.53	27215025.80	0.0142	0.0002
Earth	69800-02-09 02:24 G	27215025.34	27215025.60	27215025.86	0.0142	0.0009 *
Mercury	69800-03-25 17:17 G	27215070.06	27215070.22	27215070.38	0.0142	0.0028
Mercury	69800-06-21 23:17 G	27215158.32	27215158.47	27215158.63	0.0142	0.0054
Mercury	69800-09-18 05:17 G	27215246.59	27215246.72	27215246.86	0.0142	0.0081
Mercury	69800-12-15 11:17 G	27215334.87	27215334.97	27215335.09	0.0142	0.0108
Earth	69801-02-14 01:12 G	27215395.32	27215395.55	27215395.79	0.0142	0.0057
Moon	69801-02-14 02:24 G	27215395.39	27215395.60	27215395.84	0.0142	0.0063 *
Mercury	69801-03-13 17:31 G	27215423.19	27215423.23	27215423.28	0.0142	0.0135
Moon	69802-02-18 22:19 G	27215765.27	27215765.43	27215765.63	0.0141	0.0105
Earth	69802-02-18 23:17 G	27215765.30	27215765.47	27215765.65	0.0141	0.0105 *
Mars	69819-03-13 19:41 G	27221997.04	27221997.32	27221997.63	0.0136	0.0025
Venus	69837-10-21 02:24 G	27228793.56	27228793.60	27228793.69	0.0135	0.0129
Venus	69838-06-04 08:39 G	27229019.72	27229019.86	27229020.03	0.0135	0.0096

Venus	69839-01-16 14:53 G	27229245.93	27229246.12	27229246.31	0.0135	0.0062
Venus	69839-08-30 20:53 G	27229472.16	27229472.37	27229472.59	0.0135	0.0029
Venus	69840-04-13 03:22 G	27229698.42	27229698.64	27229698.85	0.0135	0.0005
Earth	69840-07-27 18:15 G	27229804.14	27229804.26	27229804.43	0.0135	0.0111
Moon	69840-07-27 21:22 G	27229804.25	27229804.39	27229804.55	0.0135	0.0105 *
Venus	69840-11-25 09:36 G	27229924.69	27229924.90	27229925.11	0.0135	0.0038
Venus	69841-07-09 15:51 G	27230150.99	27230151.16	27230151.35	0.0136	0.0072
Moon	69841-07-31 23:46 G	27230173.29	27230173.49	27230173.72	0.0136	0.0072
Earth	69841-08-01 02:39 G	27230173.40	27230173.61	27230173.83	0.0136	0.0070 *
Mercury	69842-01-16 21:36 G	27230342.34	27230342.40	27230342.49	0.0136	0.0117
Venus	69842-02-20 22:34 G	27230377.31	27230377.44	27230377.57	0.0136	0.0106
Mercury	69842-04-15 01:55 G	27230430.48	27230430.58	27230430.69	0.0136	0.0096
Mercury	69842-07-12 06:15 G	27230518.64	27230518.76	27230518.89	0.0136	0.0074
Earth	69842-08-05 11:17 G	27230542.73	27230542.97	27230543.22	0.0136	0.0028
Moon	69842-08-05 13:41 G	27230542.83	27230543.07	27230543.31	0.0136	0.0031 *
Mercury	69842-10-08 10:19 G	27230606.80	27230606.93	27230607.08	0.0136	0.0054
Mercury	69843-01-04 14:39 G	27230694.97	27230695.11	27230695.26	0.0136	0.0033
Mercury	69843-04-02 18:43 G	27230783.14	27230783.28	27230783.43	0.0136	0.0013
Mercury	69843-06-29 22:48 G	27230871.31	27230871.45	27230871.60	0.0136	0.0009
Moon	69843-08-09 17:31 G	27230911.98	27230912.23	27230912.49	0.0136	0.0017
Earth	69843-08-09 20:24 G	27230912.10	27230912.35	27230912.60	0.0136	0.0013 *
Mercury	69843-09-26 02:53 G	27230959.48	27230959.62	27230959.77	0.0136	0.0029
Mercury	69843-12-23 06:58 G	27231047.66	27231047.79	27231047.93	0.0136	0.0049
Mercury	69844-03-20 10:48 G	27231135.84	27231135.95	27231136.09	0.0136	0.0070
Mercury	69844-06-16 14:53 G	27231224.02	27231224.12	27231224.24	0.0136	0.0089
Earth	69844-08-13 05:31 G	27231281.51	27231281.73	27231281.97	0.0136	0.0056
Moon	69844-08-13 07:41 G	27231281.60	27231281.82	27231282.05	0.0136	0.0048 *
Mercury	69844-09-12 18:43 G	27231312.21	27231312.28	27231312.38	0.0136	0.0110
Mercury	69844-12-09 22:34 G	27231400.41	27231400.44	27231400.50	0.0136	0.0130
Moon	69845-08-17 12:58 G	27231650.90	27231651.04	27231651.23	0.0137	0.0105

Earth	69845-08-17 15:51 G	27231650.99	27231651.16	27231651.34	0.0137	0.0097	*
Moon	69846-08-22 03:51 G	27232020.62	27232020.66	27232020.72	0.0137	0.0133	
Venus	69879-05-03 12:29 G	27243962.88	27243963.02	27243963.16	0.0143	0.0111	
Venus	69879-12-15 23:46 G	27244189.30	27244189.49	27244189.68	0.0143	0.0070	
Venus	69880-07-29 11:03 G	27244415.75	27244415.96	27244416.18	0.0143	0.0030	
Earth	69881-01-26 11:46 G	27244596.91	27244596.99	27244597.09	0.0143	0.0133	
Moon	69881-01-26 15:22 G	27244597.07	27244597.14	27244597.24	0.0143	0.0134	*
Venus	69881-03-12 22:19 G	27244642.21	27244642.43	27244642.65	0.0143	0.0010	
Venus	69881-10-25 09:22 G	27244868.69	27244868.89	27244869.10	0.0143	0.0050	
Moon	69882-01-31 09:07 G	27244966.68	27244966.88	27244967.11	0.0143	0.0081	
Earth	69882-01-31 12:43 G	27244966.83	27244967.03	27244967.24	0.0143	0.0084	*
Venus	69882-06-08 20:10 G	27245095.18	27245095.34	27245095.52	0.0142	0.0090	
Mercury	69882-11-02 13:27 G	27245241.97	27245242.06	27245242.14	0.0142	0.0121	
Venus	69883-01-21 06:58 G	27245321.71	27245321.79	27245321.89	0.0142	0.0129	
Mercury	69883-01-29 18:58 G	27245330.18	27245330.29	27245330.42	0.0142	0.0095	
Earth	69883-02-05 12:58 G	27245336.79	27245337.04	27245337.29	0.0142	0.0035	
Moon	69883-02-05 15:22 G	27245336.91	27245337.14	27245337.39	0.0142	0.0043	*
Mercury	69883-04-28 00:43 G	27245418.39	27245418.53	27245418.68	0.0142	0.0070	
Mercury	69883-07-25 06:43 G	27245506.62	27245506.78	27245506.94	0.0142	0.0043	
Mercury	69883-10-21 12:43 G	27245594.86	27245595.03	27245595.19	0.0142	0.0018	
Mercury	69884-01-17 18:29 G	27245683.11	27245683.27	27245683.44	0.0142	0.0010	
Moon	69884-02-10 09:36 G	27245706.65	27245706.90	27245707.17	0.0142	0.0022	
Earth	69884-02-10 12:29 G	27245706.77	27245707.02	27245707.28	0.0142	0.0014	*
Mercury	69884-04-15 00:29 G	27245771.36	27245771.52	27245771.69	0.0142	0.0036	
Mercury	69884-07-12 06:29 G	27245859.62	27245859.77	27245859.92	0.0142	0.0062	
Mercury	69884-10-08 12:29 G	27245947.90	27245948.02	27245948.16	0.0142	0.0089	
Mercury	69885-01-04 18:29 G	27246036.19	27246036.27	27246036.38	0.0142	0.0116	
Earth	69885-02-14 11:03 G	27246076.74	27246076.96	27246077.20	0.0142	0.0063	
Moon	69885-02-14 12:43 G	27246076.81	27246077.03	27246077.27	0.0142	0.0059	*
Moon	69886-02-19 07:41 G	27246446.68	27246446.82	27246447.00	0.0141	0.0111	

Earth	69886-02-19 09:07 G	27246446.74	27246446.88	27246447.06	0.0141	0.0111	*
Venus	69922-02-02 17:17 G	27259578.11	27259578.22	27259578.36	0.0135	0.0111	
Venus	69922-09-16 23:17 G	27259804.30	27259804.47	27259804.66	0.0135	0.0078	
Venus	69923-05-01 05:46 G	27260030.53	27260030.74	27260030.94	0.0135	0.0044	
Venus	69923-12-13 11:46 G	27260256.78	27260256.99	27260257.21	0.0135	0.0011	
Venus	69924-07-26 18:00 G	27260483.04	27260483.25	27260483.47	0.0135	0.0023	
Earth	69924-07-29 03:22 G	27260485.50	27260485.64	27260485.81	0.0135	0.0106	
Moon	69924-07-29 06:29 G	27260485.64	27260485.77	27260485.92	0.0135	0.0110	*
Venus	69925-03-10 00:15 G	27260709.32	27260709.51	27260709.71	0.0135	0.0057	
Moon	69925-08-02 08:24 G	27260854.63	27260854.85	27260855.09	0.0136	0.0063	
Earth	69925-08-02 11:31 G	27260854.77	27260854.98	27260855.21	0.0136	0.0066	*
Venus	69925-10-22 06:29 G	27260935.63	27260935.77	27260935.95	0.0136	0.0091	
Mercury	69925-11-11 00:15 G	27260955.49	27260955.51	27260955.55	0.0136	0.0132	
Mercury	69926-02-07 04:19 G	27261043.61	27261043.68	27261043.78	0.0136	0.0112	
Mercury	69926-05-06 08:39 G	27261131.76	27261131.86	27261131.98	0.0136	0.0091	
Venus	69926-06-05 13:41 G	27261161.98	27261162.07	27261162.15	0.0136	0.0124	
Mercury	69926-08-02 12:58 G	27261219.92	27261220.04	27261220.18	0.0136	0.0070	
Earth	69926-08-06 20:10 G	27261224.09	27261224.34	27261224.59	0.0136	0.0024	
Moon	69926-08-06 23:03 G	27261224.22	27261224.46	27261224.71	0.0136	0.0024	*
Mercury	69926-10-29 17:17 G	27261308.08	27261308.22	27261308.36	0.0136	0.0049	
Mercury	69927-01-25 21:36 G	27261396.25	27261396.40	27261396.54	0.0136	0.0028	
Mercury	69927-04-24 01:41 G	27261484.42	27261484.57	27261484.72	0.0136	0.0008	
Mercury	69927-07-21 05:46 G	27261572.59	27261572.74	27261572.89	0.0136	0.0013	
Moon	69927-08-11 02:24 G	27261593.34	27261593.60	27261593.86	0.0136	0.0013	
Earth	69927-08-11 05:03 G	27261593.46	27261593.71	27261593.96	0.0136	0.0018	*
Mercury	69927-10-17 09:51 G	27261660.77	27261660.91	27261661.05	0.0136	0.0033	
Mercury	69928-01-13 13:41 G	27261748.94	27261749.07	27261749.21	0.0136	0.0054	
Mercury	69928-04-10 17:46 G	27261837.12	27261837.24	27261837.37	0.0136	0.0074	
Mercury	69928-07-07 21:36 G	27261925.31	27261925.40	27261925.52	0.0136	0.0094	
Earth	69928-08-14 14:10 G	27261962.87	27261963.09	27261963.33	0.0136	0.0059	

Moon	69928-08-14 17:17 G	27261963.01	27261963.22	27261963.44	0.0136	0.0066 *
Mercury	69928-10-04 01:55 G	27262013.50	27262013.58	27262013.66	0.0136	0.0114
Mercury	69928-12-31 05:46 G	27262101.72	27262101.74	27262101.77	0.0136	0.0134
Moon	69929-08-18 21:36 G	27262332.22	27262332.40	27262332.59	0.0137	0.0094
Earth	69929-08-18 23:46 G	27262332.35	27262332.49	27262332.68	0.0137	0.0102 *
Mars	69946-03-29 17:31 G	27268398.92	27268399.23	27268399.54	0.0142	0.0030
Venus	69963-01-01 19:12 G	27274521.21	27274521.30	27274521.40	0.0143	0.0129
Venus	69963-08-16 06:29 G	27274747.61	27274747.77	27274747.95	0.0143	0.0089
Venus	69964-03-29 18:00 G	27274974.05	27274974.25	27274974.46	0.0143	0.0048
Venus	69964-11-11 05:31 G	27275200.51	27275200.73	27275200.95	0.0143	0.0008
Earth	69965-01-27 22:05 G	27275278.33	27275278.42	27275278.56	0.0143	0.0128
Moon	69965-01-28 01:41 G	27275278.48	27275278.57	27275278.70	0.0143	0.0129 *
Venus	69965-06-25 16:34 G	27275426.99	27275427.19	27275427.41	0.0143	0.0033
Moon	69966-02-01 19:55 G	27275648.12	27275648.33	27275648.54	0.0143	0.0083
Earth	69966-02-01 23:03 G	27275648.26	27275648.46	27275648.69	0.0143	0.0079 *
Venus	69966-02-07 03:51 G	27275653.47	27275653.66	27275653.84	0.0143	0.0072
Mercury	69966-08-27 15:07 G	27275855.09	27275855.13	27275855.16	0.0142	0.0138
Venus	69966-09-21 14:24 G	27275879.98	27275880.10	27275880.24	0.0142	0.0112
Mercury	69966-11-23 20:39 G	27275943.27	27275943.36	27275943.46	0.0142	0.0113
Earth	69967-02-06 23:31 G	27276018.23	27276018.48	27276018.74	0.0142	0.0030
Moon	69967-02-07 03:07 G	27276018.38	27276018.63	27276018.88	0.0142	0.0023 *
Mercury	69967-02-20 02:10 G	27276031.48	27276031.59	27276031.73	0.0142	0.0088
Mercury	69967-05-19 08:10 G	27276119.70	27276119.84	27276120.00	0.0142	0.0061
Mercury	69967-08-15 14:10 G	27276207.93	27276208.09	27276208.25	0.0142	0.0035
Mercury	69967-11-11 20:10 G	27276296.17	27276296.34	27276296.50	0.0142	0.0009
Mercury	69968-02-08 01:55 G	27276384.42	27276384.58	27276384.75	0.0142	0.0018
Moon	69968-02-11 20:24 G	27276388.09	27276388.35	27276388.62	0.0142	0.0012
Earth	69968-02-11 23:03 G	27276388.21	27276388.46	27276388.72	0.0142	0.0020 *
Mercury	69968-05-06 07:55 G	27276472.67	27276472.83	27276472.99	0.0142	0.0044
Mercury	69968-08-02 13:55 G	27276560.94	27276561.08	27276561.23	0.0142	0.0071

Mercury	69968-10-29 19:55 G	27276649.21	27276649.33	27276649.46	0.0142	0.0098
Mercury	69969-01-26 01:55 G	27276737.51	27276737.58	27276737.67	0.0142	0.0125
Earth	69969-02-15 21:51 G	27276758.20	27276758.41	27276758.65	0.0142	0.0068
Moon	69969-02-16 00:29 G	27276758.32	27276758.52	27276758.74	0.0142	0.0074 *
Moon	69970-02-20 18:00 G	27277128.11	27277128.25	27277128.43	0.0141	0.0114
Earth	69970-02-20 19:55 G	27277128.20	27277128.33	27277128.50	0.0141	0.0116 *
Mars	69986-08-01 08:10 G	27283133.61	27283133.84	27283134.11	0.0136	0.0074

71ST MILLENNIUM CE

This is a list of transits visible from Uranus in the 71st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	70005-10-03 03:07 G		27290136.56	27290136.63	27290136.71	0.0135	0.0125	
Venus	70006-05-17 08:53 G		27290362.73	27290362.87	27290363.04	0.0135	0.0093	
Venus	70006-12-29 15:07 G		27290588.94	27290589.13	27290589.33	0.0135	0.0059	
Venus	70007-08-12 21:07 G		27290815.17	27290815.38	27290815.60	0.0135	0.0026	
Venus	70008-03-26 03:22 G		27291041.43	27291041.64	27291041.86	0.0135	0.0008	
Earth	70008-07-29 13:55 G		27291166.92	27291167.08	27291167.25	0.0135	0.0101	
Moon	70008-07-29 17:31 G		27291167.06	27291167.23	27291167.41	0.0135	0.0095 *	
Venus	70008-11-07 09:36 G		27291267.70	27291267.90	27291268.11	0.0135	0.0042	
Venus	70009-06-21 15:51 G		27291493.99	27291494.16	27291494.35	0.0135	0.0076	
Moon	70009-08-02 18:29 G		27291536.06	27291536.27	27291536.50	0.0136	0.0064	
Earth	70009-08-02 21:36 G		27291536.19	27291536.40	27291536.64	0.0136	0.0061 *	
Mercury	70009-12-01 07:27 G		27291656.76	27291656.81	27291656.87	0.0136	0.0126	

Venus	70010-02-02 22:05 G	27291720.32	27291720.42	27291720.57	0.0136	0.0110
Mercury	70010-02-27 11:46 G	27291744.90	27291744.99	27291745.09	0.0136	0.0105
Mercury	70010-05-26 16:05 G	27291833.05	27291833.17	27291833.29	0.0136	0.0084
Earth	70010-08-07 06:15 G	27291905.51	27291905.76	27291906.01	0.0136	0.0019
Moon	70010-08-07 09:22 G	27291905.65	27291905.89	27291906.14	0.0136	0.0021 *
Mercury	70010-08-22 20:10 G	27291921.21	27291921.34	27291921.48	0.0136	0.0063
Mercury	70010-11-19 00:15 G	27292009.38	27292009.51	27292009.66	0.0136	0.0043
Mercury	70011-02-15 04:34 G	27292097.54	27292097.69	27292097.84	0.0136	0.0022
Mercury	70011-05-14 08:39 G	27292185.71	27292185.86	27292186.01	0.0136	0.0003
Mercury	70011-08-10 12:43 G	27292273.89	27292274.03	27292274.18	0.0136	0.0019
Moon	70011-08-11 11:31 G	27292274.73	27292274.98	27292275.23	0.0136	0.0025
Earth	70011-08-11 14:53 G	27292274.88	27292275.12	27292275.37	0.0136	0.0022 *
Mercury	70011-11-06 16:48 G	27292362.06	27292362.20	27292362.34	0.0136	0.0039
Mercury	70012-02-02 20:53 G	27292450.24	27292450.37	27292450.50	0.0136	0.0060
Mercury	70012-05-01 00:58 G	27292538.42	27292538.54	27292538.66	0.0136	0.0080
Mercury	70012-07-28 04:48 G	27292626.61	27292626.70	27292626.80	0.0136	0.0100
Earth	70012-08-14 23:46 G	27292644.29	27292644.49	27292644.73	0.0136	0.0065
Moon	70012-08-15 02:53 G	27292644.40	27292644.62	27292644.85	0.0136	0.0058 *
Mercury	70012-10-24 08:39 G	27292714.80	27292714.86	27292714.94	0.0136	0.0120
Moon	70013-08-19 06:29 G	27293013.64	27293013.77	27293013.92	0.0137	0.0113
Earth	70013-08-19 09:36 G	27293013.76	27293013.90	27293014.08	0.0137	0.0106 *
Venus	70047-04-15 12:58 G	27305305.91	27305306.04	27305306.20	0.0143	0.0107
Venus	70047-11-28 00:58 G	27305532.35	27305532.54	27305532.73	0.0143	0.0066
Venus	70048-07-11 12:15 G	27305758.80	27305759.01	27305759.23	0.0143	0.0026
Earth	70049-01-28 08:24 G	27305959.74	27305959.85	27305960.00	0.0143	0.0122
Moon	70049-01-28 12:29 G	27305959.89	27305960.02	27305960.16	0.0143	0.0121 *
Venus	70049-02-22 23:31 G	27305985.27	27305985.48	27305985.70	0.0143	0.0014
Venus	70049-10-07 10:48 G	27306211.75	27306211.95	27306212.15	0.0143	0.0054
Moon	70050-02-02 06:00 G	27306329.53	27306329.75	27306329.98	0.0143	0.0071
Earth	70050-02-02 09:36 G	27306329.69	27306329.90	27306330.13	0.0143	0.0073 *

Venus	70050-05-21 21:36 G	27306438.25	27306438.40	27306438.57	0.0143	0.0094
Mercury	70050-09-16 22:19 G	27306556.37	27306556.43	27306556.50	0.0143	0.0130
Mercury	70050-12-14 03:51 G	27306644.56	27306644.66	27306644.78	0.0142	0.0105
Venus	70051-01-03 08:10 G	27306664.79	27306664.84	27306664.94	0.0142	0.0134
Earth	70051-02-07 09:51 G	27306699.66	27306699.91	27306700.17	0.0142	0.0024
Moon	70051-02-07 13:12 G	27306699.81	27306700.05	27306700.30	0.0142	0.0031 *
Mercury	70051-03-12 09:51 G	27306732.77	27306732.91	27306733.05	0.0142	0.0079
Mercury	70051-06-08 15:22 G	27306821.00	27306821.14	27306821.30	0.0142	0.0054
Mercury	70051-09-04 21:22 G	27306909.23	27306909.39	27306909.56	0.0142	0.0027
Mercury	70051-12-02 03:22 G	27306997.47	27306997.64	27306997.81	0.0142	0.0001
Moon	70052-02-12 06:00 G	27307069.50	27307069.75	27307070.01	0.0142	0.0033
Earth	70052-02-12 09:36 G	27307069.65	27307069.90	27307070.16	0.0142	0.0025 *
Mercury	70052-02-28 09:22 G	27307085.72	27307085.89	27307086.05	0.0142	0.0026
Mercury	70052-05-26 15:22 G	27307173.98	27307174.14	27307174.29	0.0142	0.0052
Mercury	70052-08-22 21:07 G	27307262.25	27307262.38	27307262.53	0.0142	0.0079
Mercury	70052-11-19 03:07 G	27307350.53	27307350.63	27307350.75	0.0142	0.0106
Mercury	70053-02-15 09:22 G	27307438.84	27307438.89	27307438.95	0.0142	0.0133
Earth	70053-02-16 07:55 G	27307439.63	27307439.83	27307440.07	0.0142	0.0074
Moon	70053-02-16 10:48 G	27307439.74	27307439.95	27307440.18	0.0142	0.0068 *
Moon	70054-02-21 03:51 G	27307809.54	27307809.66	27307809.80	0.0142	0.0123
Earth	70054-02-21 06:15 G	27307809.65	27307809.76	27307809.91	0.0142	0.0121 *
Mars	70071-03-27 01:12 G	27314052.33	27314052.55	27314052.82	0.0136	0.0079
Venus	70090-01-14 18:00 G	27320921.14	27320921.25	27320921.40	0.0135	0.0108
Venus	70090-08-29 00:00 G	27321147.33	27321147.50	27321147.70	0.0135	0.0075
Venus	70091-04-12 06:15 G	27321373.56	27321373.76	27321373.98	0.0135	0.0041
Moon	70091-07-26 12:29 G	27321478.95	27321479.02	27321479.11	0.0135	0.0127
Earth	70091-07-26 16:19 G	27321479.18	27321479.18	27321479.18	0.0135	0.0135
Venus	70091-11-24 12:29 G	27321599.81	27321600.02	27321600.24	0.0135	0.0008
Venus	70092-07-07 18:43 G	27321826.07	27321826.28	27321826.50	0.0135	0.0026
Earth	70092-07-29 23:31 G	27321848.31	27321848.48	27321848.67	0.0135	0.0095

Moon	70092-07-30 02:39 G	27321848.47	27321848.61	27321848.79	0.0135	0.0102	*
Venus	70093-02-19 00:58 G	27322052.35	27322052.54	27322052.74	0.0135	0.0060	
Moon	70093-08-03 03:51 G	27322217.43	27322217.66	27322217.90	0.0135	0.0052	
Earth	70093-08-03 07:27 G	27322217.59	27322217.81	27322218.05	0.0135	0.0055	*
Venus	70093-10-03 07:12 G	27322278.65	27322278.80	27322278.96	0.0136	0.0094	
Mercury	70093-12-21 14:10 G	27322358.04	27322358.09	27322358.17	0.0136	0.0121	
Mercury	70094-03-19 18:29 G	27322446.18	27322446.27	27322446.38	0.0136	0.0100	
Venus	70094-05-17 13:27 G	27322505.01	27322505.06	27322505.15	0.0136	0.0128	
Mercury	70094-06-15 22:48 G	27322534.34	27322534.45	27322534.58	0.0136	0.0079	
Earth	70094-08-07 15:36 G	27322586.90	27322587.15	27322587.40	0.0136	0.0014	
Moon	70094-08-07 18:58 G	27322587.05	27322587.29	27322587.54	0.0136	0.0016	*
Mercury	70094-09-12 03:07 G	27322622.50	27322622.63	27322622.77	0.0136	0.0058	
Mercury	70094-12-09 07:27 G	27322710.66	27322710.81	27322710.95	0.0136	0.0037	
Mercury	70095-03-07 11:31 G	27322798.83	27322798.98	27322799.13	0.0136	0.0017	
Mercury	70095-06-03 15:36 G	27322887.00	27322887.15	27322887.30	0.0136	0.0004	
Moon	70095-08-11 20:53 G	27322956.12	27322956.37	27322956.62	0.0136	0.0023	
Earth	70095-08-12 00:15 G	27322956.27	27322956.51	27322956.76	0.0136	0.0027	*
Mercury	70095-08-30 19:41 G	27322975.18	27322975.32	27322975.47	0.0136	0.0024	
Mercury	70095-11-26 23:46 G	27323063.35	27323063.49	27323063.63	0.0136	0.0045	
Mercury	70096-02-23 03:36 G	27323151.53	27323151.65	27323151.79	0.0136	0.0065	
Mercury	70096-05-21 07:41 G	27323239.71	27323239.82	27323239.94	0.0136	0.0085	
Earth	70096-08-15 09:07 G	27323325.67	27323325.88	27323326.11	0.0136	0.0068	
Moon	70096-08-15 12:58 G	27323325.83	27323326.04	27323326.25	0.0136	0.0074	*
Mercury	70096-08-17 11:46 G	27323327.90	27323327.99	27323328.08	0.0136	0.0105	
Mercury	70096-11-13 15:36 G	27323416.10	27323416.15	27323416.21	0.0136	0.0125	
Moon	70097-08-19 15:22 G	27323694.99	27323695.14	27323695.33	0.0137	0.0103	
Earth	70097-08-19 18:43 G	27323695.14	27323695.28	27323695.44	0.0137	0.0110	*
Venus	70130-12-14 19:55 G	27335864.23	27335864.33	27335864.44	0.0143	0.0125	
Venus	70131-07-29 07:27 G	27336090.65	27336090.81	27336091.00	0.0143	0.0085	
Venus	70132-03-11 19:12 G	27336317.09	27336317.30	27336317.51	0.0143	0.0045	

Venus	70132-10-24 06:43 G	27336543.56	27336543.78	27336544.00	0.0143	0.0004
Earth	70133-01-29 18:43 G	27336641.15	27336641.28	27336641.45	0.0143	0.0116
Moon	70133-01-29 22:19 G	27336641.30	27336641.43	27336641.59	0.0143	0.0118 *
Venus	70133-06-07 18:00 G	27336770.04	27336770.25	27336770.46	0.0143	0.0036
Venus	70134-01-20 05:03 G	27336996.53	27336996.71	27336996.89	0.0143	0.0076
Moon	70134-02-03 16:34 G	27337010.97	27337011.19	27337011.41	0.0143	0.0070
Earth	70134-02-03 20:10 G	27337011.12	27337011.34	27337011.58	0.0143	0.0067 *
Venus	70134-09-03 15:36 G	27337223.04	27337223.15	27337223.29	0.0143	0.0116
Mercury	70134-10-08 05:31 G	27337257.66	27337257.73	27337257.82	0.0143	0.0122
Mercury	70135-01-04 11:17 G	27337345.86	27337345.97	27337346.10	0.0142	0.0096
Earth	70135-02-08 20:39 G	27337381.10	27337381.36	27337381.62	0.0142	0.0018
Moon	70135-02-09 00:15 G	27337381.26	27337381.51	27337381.77	0.0142	0.0012 *
Mercury	70135-04-02 17:03 G	27337434.08	27337434.21	27337434.36	0.0142	0.0071
Mercury	70135-06-29 23:03 G	27337522.30	27337522.46	27337522.62	0.0142	0.0044
Mercury	70135-09-26 04:48 G	27337610.54	27337610.70	27337610.87	0.0142	0.0018
Mercury	70135-12-23 10:48 G	27337698.78	27337698.95	27337699.12	0.0142	0.0008
Moon	70136-02-13 16:48 G	27337750.95	27337751.20	27337751.46	0.0142	0.0023
Earth	70136-02-13 20:10 G	27337751.09	27337751.34	27337751.59	0.0142	0.0031 *
Mercury	70136-03-20 16:48 G	27337787.03	27337787.20	27337787.36	0.0142	0.0035
Mercury	70136-06-16 22:34 G	27337875.29	27337875.44	27337875.60	0.0142	0.0061
Mercury	70136-09-13 04:34 G	27337963.57	27337963.69	27337963.83	0.0142	0.0088
Mercury	70136-12-10 10:34 G	27338051.85	27338051.94	27338052.05	0.0142	0.0115
Earth	70137-02-17 18:58 G	27338121.09	27338121.29	27338121.51	0.0142	0.0079
Moon	70137-02-17 22:19 G	27338121.24	27338121.43	27338121.64	0.0142	0.0086 *
Mercury	70137-03-08 16:48 G	27338140.20	27338140.20	27338140.21	0.0142	0.0141
Moon	70138-02-22 14:10 G	27338490.98	27338491.09	27338491.24	0.0142	0.0123
Earth	70138-02-22 17:17 G	27338491.11	27338491.22	27338491.34	0.0142	0.0126 *
Venus	70173-09-15 04:19 G	27351479.60	27351479.68	27351479.78	0.0135	0.0122
Jupiter	70174-02-07 18:58 G	27351624.83	27351625.29	27351625.75	0.0135	0.0048
Venus	70174-04-29 10:19 G	27351705.78	27351705.93	27351706.10	0.0135	0.0089

Venus	70174-12-11 16:19 G	27351931.99	27351932.18	27351932.39	0.0135	0.0056
Venus	70175-07-25 22:34 G	27352158.23	27352158.44	27352158.65	0.0135	0.0022
Earth	70175-07-28 03:07 G	27352160.58	27352160.63	27352160.72	0.0135	0.0129
Venus	70176-03-08 04:34 G	27352384.48	27352384.69	27352384.91	0.0135	0.0011
Earth	70176-07-31 10:48 G	27352529.77	27352529.95	27352530.14	0.0135	0.0090
Moon	70176-07-31 14:10 G	27352529.91	27352530.09	27352530.31	0.0135	0.0083 *
Venus	70176-10-20 10:34 G	27352610.75	27352610.94	27352611.16	0.0135	0.0045
Venus	70177-06-03 17:03 G	27352837.04	27352837.21	27352837.39	0.0135	0.0079
Moon	70177-08-04 15:07 G	27352898.90	27352899.13	27352899.36	0.0135	0.0054
Earth	70177-08-04 18:15 G	27352899.04	27352899.26	27352899.51	0.0135	0.0050 *
Mercury	70177-10-15 17:17 G	27352971.21	27352971.22	27352971.25	0.0136	0.0134
Mercury	70178-01-11 21:36 G	27353059.33	27353059.40	27353059.49	0.0136	0.0113
Venus	70178-01-15 23:17 G	27353063.36	27353063.47	27353063.60	0.0136	0.0113
Mercury	70178-04-10 01:55 G	27353147.48	27353147.58	27353147.69	0.0136	0.0092
Mercury	70178-07-07 06:00 G	27353235.63	27353235.75	27353235.89	0.0136	0.0072
Earth	70178-08-09 02:39 G	27353268.36	27353268.61	27353268.86	0.0136	0.0009
Moon	70178-08-09 06:15 G	27353268.51	27353268.76	27353269.01	0.0136	0.0009 *
Mercury	70178-10-03 10:19 G	27353323.80	27353323.93	27353324.07	0.0136	0.0051
Mercury	70178-12-30 14:39 G	27353411.96	27353412.11	27353412.25	0.0136	0.0030
Mercury	70179-03-28 18:43 G	27353500.13	27353500.28	27353500.43	0.0136	0.0010
Mercury	70179-06-24 22:48 G	27353588.31	27353588.45	27353588.60	0.0136	0.0011
Moon	70179-08-13 07:27 G	27353637.57	27353637.81	27353638.06	0.0136	0.0034
Earth	70179-08-13 11:03 G	27353637.72	27353637.96	27353638.21	0.0136	0.0032 *
Mercury	70179-09-21 02:53 G	27353676.48	27353676.62	27353676.77	0.0136	0.0031
Mercury	70179-12-18 06:58 G	27353764.66	27353764.79	27353764.93	0.0136	0.0051
Mercury	70180-03-15 11:03 G	27353852.84	27353852.96	27353853.08	0.0136	0.0071
Mercury	70180-06-11 15:07 G	27353941.02	27353941.13	27353941.23	0.0136	0.0092
Earth	70180-08-16 19:55 G	27354007.13	27354007.33	27354007.55	0.0136	0.0074
Moon	70180-08-16 23:31 G	27354007.26	27354007.48	27354007.69	0.0136	0.0068 *
Mercury	70180-09-07 18:58 G	27354029.21	27354029.29	27354029.38	0.0136	0.0111

Mercury	70180-12-04 22:48 G	27354117.42	27354117.45	27354117.50	0.0136	0.0131
Moon	70181-08-21 01:55 G	27354376.47	27354376.58	27354376.70	0.0137	0.0122
Earth	70181-08-21 05:31 G	27354376.61	27354376.73	27354376.88	0.0137	0.0115 *
Mars	70198-04-11 06:58 G	27360453.49	27360453.79	27360454.12	0.0142	0.0026
Venus	70215-03-29 13:55 G	27366648.95	27366649.08	27366649.24	0.0143	0.0104
Jupiter	70215-06-16 15:22 G	27366727.64	27366728.14	27366728.69	0.0143	0.0040
Venus	70215-11-11 01:55 G	27366875.39	27366875.58	27366875.78	0.0143	0.0063
Venus	70216-06-24 13:27 G	27367101.85	27367102.06	27367102.28	0.0143	0.0023
Earth	70217-01-31 05:03 G	27367322.57	27367322.71	27367322.89	0.0143	0.0110
Moon	70217-01-31 08:39 G	27367322.71	27367322.86	27367323.05	0.0143	0.0108 *
Venus	70217-02-06 00:43 G	27367328.32	27367328.53	27367328.75	0.0143	0.0018
Venus	70217-09-20 11:46 G	27367554.80	27367554.99	27367555.20	0.0143	0.0058
Moon	70218-02-05 02:53 G	27367692.40	27367692.62	27367692.87	0.0143	0.0060
Earth	70218-02-05 06:15 G	27367692.54	27367692.76	27367693.01	0.0143	0.0061 *
Venus	70218-05-04 22:34 G	27367781.30	27367781.44	27367781.62	0.0143	0.0098
Mercury	70218-08-02 07:12 G	27367870.77	27367870.80	27367870.84	0.0143	0.0139
Mercury	70218-10-29 12:43 G	27367958.95	27367959.03	27367959.14	0.0143	0.0114
Venus	70218-12-17 09:51 G	27368007.86	27368007.91	27368007.98	0.0143	0.0137
Mercury	70219-01-25 18:43 G	27368047.15	27368047.28	27368047.41	0.0142	0.0088
Earth	70219-02-10 06:43 G	27368062.53	27368062.78	27368063.04	0.0142	0.0011
Moon	70219-02-10 10:19 G	27368062.68	27368062.93	27368063.19	0.0142	0.0019 *
Mercury	70219-04-24 00:15 G	27368135.37	27368135.51	27368135.67	0.0142	0.0063
Mercury	70219-07-21 06:15 G	27368223.60	27368223.76	27368223.92	0.0142	0.0036
Mercury	70219-10-17 12:15 G	27368311.84	27368312.01	27368312.17	0.0142	0.0010
Mercury	70220-01-13 18:00 G	27368400.09	27368400.25	27368400.42	0.0142	0.0016
Moon	70220-02-15 02:39 G	27368432.37	27368432.61	27368432.86	0.0142	0.0045
Earth	70220-02-15 06:15 G	27368432.52	27368432.76	27368433.02	0.0142	0.0038 *
Mercury	70220-04-10 23:46 G	27368488.34	27368488.49	27368488.66	0.0142	0.0043
Mercury	70220-07-08 06:00 G	27368576.60	27368576.75	27368576.90	0.0142	0.0069
Mercury	70220-10-04 11:46 G	27368664.88	27368664.99	27368665.12	0.0142	0.0096

Mercury	70220-12-31 17:46 G	27368753.17	27368753.24	27368753.34	0.0142	0.0123
Earth	70221-02-19 05:17 G	27368802.52	27368802.72	27368802.93	0.0142	0.0085
Moon	70221-02-19 08:24 G	27368802.65	27368802.85	27368803.07	0.0142	0.0079 *
Moon	70222-02-24 00:00 G	27369172.44	27369172.50	27369172.59	0.0142	0.0136
Earth	70222-02-24 03:22 G	27369172.57	27369172.64	27369172.75	0.0142	0.0132 *
Mars	70238-08-15 16:19 G	27375188.89	27375189.18	27375189.48	0.0136	0.0017
Venus	70257-12-28 19:55 G	27382264.21	27382264.33	27382264.48	0.0135	0.0104
Venus	70258-08-12 01:55 G	27382490.41	27382490.58	27382490.77	0.0135	0.0071
Venus	70259-03-26 07:55 G	27382716.63	27382716.83	27382717.05	0.0135	0.0038
Moon	70259-07-29 10:05 G	27382841.81	27382841.92	27382842.06	0.0135	0.0116
Earth	70259-07-29 13:27 G	27382841.98	27382842.06	27382842.18	0.0135	0.0124 *
Venus	70259-11-07 14:10 G	27382942.87	27382943.09	27382943.31	0.0135	0.0004
Venus	70260-06-20 20:10 G	27383169.13	27383169.34	27383169.56	0.0135	0.0030
Earth	70260-08-01 20:39 G	27383211.18	27383211.36	27383211.57	0.0135	0.0084
Moon	70260-08-02 00:15 G	27383211.33	27383211.51	27383211.71	0.0135	0.0090 *
Venus	70261-02-02 02:24 G	27383395.41	27383395.60	27383395.79	0.0135	0.0063
Moon	70261-08-06 00:58 G	27383580.30	27383580.54	27383580.78	0.0135	0.0039
Earth	70261-08-06 04:34 G	27383580.46	27383580.69	27383580.93	0.0135	0.0044 *
Venus	70261-09-16 08:24 G	27383621.71	27383621.85	27383622.01	0.0135	0.0097
Mercury	70261-11-06 00:29 G	27383672.48	27383672.52	27383672.57	0.0135	0.0128
Mercury	70262-02-02 04:48 G	27383760.61	27383760.70	27383760.79	0.0136	0.0107
Venus	70262-04-30 14:53 G	27383848.08	27383848.12	27383848.19	0.0136	0.0131
Mercury	70262-05-01 09:07 G	27383848.76	27383848.88	27383849.00	0.0136	0.0086
Mercury	70262-07-28 13:12 G	27383936.92	27383937.05	27383937.19	0.0136	0.0065
Earth	70262-08-10 12:29 G	27383949.77	27383950.02	27383950.28	0.0136	0.0004
Moon	70262-08-10 16:05 G	27383949.92	27383950.17	27383950.42	0.0136	0.0006 *
Mercury	70262-10-24 17:31 G	27384025.09	27384025.23	27384025.37	0.0136	0.0045
Mercury	70263-01-20 21:36 G	27384113.26	27384113.40	27384113.55	0.0136	0.0024
Mercury	70263-04-19 01:55 G	27384201.43	27384201.58	27384201.73	0.0136	0.0005
Mercury	70263-07-16 06:00 G	27384289.60	27384289.75	27384289.89	0.0136	0.0017

Moon	70263-08-14 17:17 G	27384318.99	27384319.22	27384319.47	0.0136	0.0035
Earth	70263-08-14 20:53 G	27384319.14	27384319.37	27384319.62	0.0136	0.0038 *
Mercury	70263-10-12 10:05 G	27384377.78	27384377.92	27384378.06	0.0136	0.0037
Mercury	70264-01-08 14:10 G	27384465.95	27384466.09	27384466.22	0.0136	0.0057
Mercury	70264-04-05 18:00 G	27384554.13	27384554.25	27384554.37	0.0136	0.0078
Mercury	70264-07-02 22:05 G	27384642.32	27384642.42	27384642.52	0.0136	0.0097
Earth	70264-08-18 05:46 G	27384688.55	27384688.74	27384688.96	0.0136	0.0079
Moon	70264-08-18 09:22 G	27384688.71	27384688.89	27384689.10	0.0136	0.0084 *
Mercury	70264-09-29 01:55 G	27384730.52	27384730.58	27384730.66	0.0136	0.0117
Moon	70265-08-22 12:00 G	27385057.87	27385058.00	27385058.15	0.0137	0.0113
Earth	70265-08-22 15:22 G	27385058.03	27385058.14	27385058.27	0.0137	0.0120 *
Venus	70298-11-26 21:36 G	27397207.28	27397207.40	27397207.51	0.0143	0.0122
Venus	70299-07-11 09:07 G	27397433.70	27397433.88	27397434.06	0.0143	0.0081
Venus	70300-02-22 20:39 G	27397660.15	27397660.36	27397660.57	0.0143	0.0041
Venus	70300-10-07 08:10 G	27397886.62	27397886.84	27397887.06	0.0143	0.0001
Earth	70301-02-01 16:34 G	27398004.02	27398004.19	27398004.37	0.0143	0.0103
Moon	70301-02-01 19:27 G	27398004.14	27398004.31	27398004.49	0.0143	0.0106 *
Venus	70301-05-21 19:12 G	27398113.10	27398113.30	27398113.52	0.0143	0.0040
Venus	70302-01-03 06:29 G	27398339.60	27398339.77	27398339.96	0.0143	0.0080
Moon	70302-02-06 13:55 G	27398373.86	27398374.08	27398374.32	0.0143	0.0057
Earth	70302-02-06 17:46 G	27398374.00	27398374.24	27398374.47	0.0143	0.0054 *
Venus	70302-08-17 17:17 G	27398566.12	27398566.22	27398566.35	0.0143	0.0120
Mercury	70302-08-23 14:53 G	27398572.06	27398572.12	27398572.18	0.0143	0.0130
Mercury	70302-11-19 20:24 G	27398660.25	27398660.35	27398660.47	0.0143	0.0105
Earth	70303-02-11 18:00 G	27398743.99	27398744.25	27398744.50	0.0143	0.0006
Moon	70303-02-11 21:22 G	27398744.13	27398744.39	27398744.65	0.0143	0.0001 *
Mercury	70303-02-16 01:55 G	27398748.46	27398748.58	27398748.73	0.0143	0.0080
Mercury	70303-05-15 07:55 G	27398836.68	27398836.83	27398836.99	0.0142	0.0053
Mercury	70303-08-11 13:41 G	27398924.91	27398925.07	27398925.24	0.0142	0.0028
Mercury	70303-11-07 19:41 G	27399013.15	27399013.32	27399013.49	0.0142	0.0001

Mercury	70304-02-04 01:27 G	27399101.40	27399101.56	27399101.73	0.0142	0.0026
Moon	70304-02-16 13:55 G	27399113.83	27399114.08	27399114.33	0.0142	0.0035
Earth	70304-02-16 17:31 G	27399113.99	27399114.23	27399114.48	0.0142	0.0043 *
Mercury	70304-05-02 07:12 G	27399189.66	27399189.80	27399189.97	0.0142	0.0053
Mercury	70304-07-29 13:27 G	27399277.92	27399278.06	27399278.20	0.0142	0.0078
Mercury	70304-10-25 19:12 G	27399366.20	27399366.30	27399366.42	0.0142	0.0105
Mercury	70305-01-22 01:12 G	27399454.50	27399454.55	27399454.62	0.0142	0.0132
Earth	70305-02-20 16:05 G	27399483.99	27399484.17	27399484.38	0.0142	0.0091
Moon	70305-02-20 19:55 G	27399484.16	27399484.33	27399484.53	0.0142	0.0099 *
Moon	70306-02-25 11:17 G	27399853.90	27399853.97	27399854.07	0.0142	0.0133
Earth	70306-02-25 14:24 G	27399854.06	27399854.10	27399854.18	0.0142	0.0138 *
Venus	70341-08-29 06:29 G	27412822.68	27412822.77	27412822.88	0.0135	0.0118
Venus	70342-04-12 12:15 G	27413048.86	27413049.01	27413049.19	0.0135	0.0085
Venus	70342-11-24 18:15 G	27413275.07	27413275.26	27413275.47	0.0135	0.0052
Venus	70343-07-09 00:29 G	27413501.30	27413501.52	27413501.73	0.0135	0.0018
Moon	70343-07-30 21:51 G	27413523.33	27413523.41	27413523.52	0.0135	0.0125
Earth	70343-07-31 00:58 G	27413523.44	27413523.54	27413523.68	0.0135	0.0118 *
Venus	70344-02-20 06:29 G	27413727.55	27413727.77	27413727.98	0.0135	0.0015
Earth	70344-08-03 08:24 G	27413892.65	27413892.85	27413893.06	0.0135	0.0078
Moon	70344-08-03 11:46 G	27413892.79	27413892.99	27413893.22	0.0135	0.0071 *
Venus	70344-10-03 12:15 G	27413953.82	27413954.01	27413954.22	0.0135	0.0049
Venus	70345-05-17 18:43 G	27414180.11	27414180.28	27414180.46	0.0135	0.0083
Moon	70345-08-07 12:43 G	27414261.80	27414262.03	27414262.27	0.0135	0.0044
Earth	70345-08-07 15:51 G	27414261.93	27414262.16	27414262.41	0.0135	0.0038 *
Mercury	70345-11-27 07:41 G	27414373.76	27414373.82	27414373.90	0.0135	0.0121
Venus	70345-12-30 00:43 G	27414406.44	27414406.53	27414406.66	0.0136	0.0117
Mercury	70346-02-23 12:00 G	27414461.91	27414462.00	27414462.11	0.0136	0.0100
Mercury	70346-05-22 16:19 G	27414550.06	27414550.18	27414550.31	0.0136	0.0079
Earth	70346-08-12 00:00 G	27414631.25	27414631.50	27414631.75	0.0136	0.0003
Moon	70346-08-12 03:36 G	27414631.39	27414631.65	27414631.90	0.0136	0.0003 *

Mercury	70346-08-18 20:39 G	27414638.23	27414638.36	27414638.50	0.0136	0.0058
Mercury	70346-11-15 00:43 G	27414726.39	27414726.53	27414726.68	0.0136	0.0038
Mercury	70347-02-11 05:03 G	27414814.56	27414814.71	27414814.86	0.0136	0.0017
Mercury	70347-05-10 09:07 G	27414902.73	27414902.88	27414903.03	0.0136	0.0004
Mercury	70347-08-06 13:12 G	27414990.91	27414991.05	27414991.20	0.0136	0.0024
Moon	70347-08-16 05:03 G	27415000.48	27415000.71	27415000.95	0.0136	0.0043
Earth	70347-08-16 08:24 G	27415000.62	27415000.85	27415001.09	0.0136	0.0043 *
Mercury	70347-11-02 17:17 G	27415079.08	27415079.22	27415079.36	0.0136	0.0044
Mercury	70348-01-29 21:22 G	27415167.26	27415167.39	27415167.52	0.0136	0.0065
Mercury	70348-04-27 01:27 G	27415255.45	27415255.56	27415255.68	0.0136	0.0085
Mercury	70348-07-24 05:31 G	27415343.64	27415343.73	27415343.82	0.0136	0.0105
Earth	70348-08-19 17:03 G	27415370.02	27415370.21	27415370.42	0.0136	0.0084
Moon	70348-08-19 20:24 G	27415370.16	27415370.35	27415370.57	0.0136	0.0079 *
Mercury	70348-10-20 09:22 G	27415431.84	27415431.89	27415431.95	0.0136	0.0124
Moon	70349-08-23 22:48 G	27415739.41	27415739.45	27415739.53	0.0137	0.0133
Earth	70349-08-24 02:24 G	27415739.53	27415739.60	27415739.72	0.0137	0.0126 *
Mars	70365-08-29 06:43 G	27421588.56	27421588.78	27421589.02	0.0142	0.0099
Venus	70382-07-28 04:34 G	27427765.65	27427765.69	27427765.74	0.0144	0.0140
Venus	70383-03-11 16:05 G	27427992.03	27427992.17	27427992.34	0.0143	0.0100
Venus	70383-10-24 04:05 G	27428218.47	27428218.67	27428218.87	0.0143	0.0059
Venus	70384-06-06 15:36 G	27428444.93	27428445.15	27428445.37	0.0143	0.0018
Venus	70385-01-19 02:53 G	27428671.41	27428671.62	27428671.84	0.0143	0.0022
Earth	70385-02-02 03:36 G	27428685.47	27428685.65	27428685.85	0.0143	0.0097
Moon	70385-02-02 06:29 G	27428685.59	27428685.77	27428685.98	0.0143	0.0094 *
Venus	70385-09-02 14:10 G	27428897.89	27428898.09	27428898.29	0.0143	0.0062
Moon	70386-02-07 02:10 G	27429055.35	27429055.59	27429055.83	0.0143	0.0048
Earth	70386-02-07 04:48 G	27429055.46	27429055.70	27429055.95	0.0143	0.0048 *
Venus	70386-04-17 00:58 G	27429124.40	27429124.54	27429124.70	0.0143	0.0102
Mercury	70386-09-12 22:19 G	27429273.35	27429273.43	27429273.52	0.0143	0.0121
Venus	70386-11-29 12:00 G	27429350.99	27429351.00	27429351.04	0.0143	0.0142

Mercury	70386-12-10 04:05 G	27429361.55	27429361.67	27429361.79	0.0143	0.0096
Earth	70387-02-12 05:03 G	27429425.45	27429425.71	27429425.97	0.0143	0.0001
Moon	70387-02-12 08:39 G	27429425.60	27429425.86	27429426.12	0.0143	0.0005 *
Mercury	70387-03-08 09:51 G	27429449.77	27429449.91	27429450.05	0.0143	0.0070
Mercury	70387-06-04 15:22 G	27429537.99	27429538.14	27429538.30	0.0142	0.0045
Mercury	70387-08-31 21:22 G	27429626.23	27429626.39	27429626.55	0.0142	0.0018
Mercury	70387-11-28 03:07 G	27429714.47	27429714.63	27429714.80	0.0142	0.0008
Moon	70388-02-17 00:58 G	27429795.32	27429795.54	27429795.79	0.0142	0.0057
Earth	70388-02-17 04:34 G	27429795.46	27429795.69	27429795.94	0.0142	0.0049 *
Mercury	70388-02-24 09:07 G	27429802.72	27429802.88	27429803.04	0.0142	0.0034
Mercury	70388-05-22 14:53 G	27429890.97	27429891.12	27429891.28	0.0142	0.0061
Mercury	70388-08-18 20:53 G	27429979.24	27429979.37	27429979.51	0.0142	0.0087
Mercury	70388-11-15 02:53 G	27430067.53	27430067.62	27430067.72	0.0142	0.0114
Mercury	70389-02-11 08:53 G	27430155.86	27430155.87	27430155.89	0.0142	0.0141
Earth	70389-02-21 03:22 G	27430165.47	27430165.64	27430165.85	0.0142	0.0097
Moon	70389-02-21 06:58 G	27430165.61	27430165.79	27430166.01	0.0142	0.0090 *
Mars	70406-01-03 11:03 G	27436325.80	27436325.96	27436326.17	0.0136	0.0106
Venus	70425-04-28 16:34 G	27443381.16	27443381.19	27443381.25	0.0135	0.0132
Venus	70425-12-10 22:19 G	27443607.30	27443607.43	27443607.59	0.0135	0.0099
Venus	70426-07-25 04:05 G	27443833.49	27443833.67	27443833.87	0.0135	0.0066
Venus	70427-03-08 10:05 G	27444059.71	27444059.92	27444060.13	0.0135	0.0033
Moon	70427-07-31 08:39 G	27444204.73	27444204.86	27444205.03	0.0135	0.0106
Earth	70427-07-31 11:46 G	27444204.87	27444204.99	27444205.14	0.0135	0.0113 *
Venus	70427-10-20 16:05 G	27444285.95	27444286.17	27444286.39	0.0135	0.0001
Venus	70428-06-02 22:05 G	27444512.21	27444512.42	27444512.63	0.0135	0.0034
Earth	70428-08-03 18:43 G	27444574.08	27444574.28	27444574.50	0.0135	0.0074
Moon	70428-08-03 21:36 G	27444574.21	27444574.40	27444574.62	0.0135	0.0080 *
Venus	70429-01-15 04:19 G	27444738.49	27444738.68	27444738.87	0.0135	0.0068
Moon	70429-08-07 23:03 G	27444943.22	27444943.46	27444943.71	0.0135	0.0028
Earth	70429-08-08 02:24 G	27444943.36	27444943.60	27444943.85	0.0135	0.0034 *

Venus	70429-08-29 10:05 G	27444964.79	27444964.92	27444965.08	0.0135	0.0102
Mercury	70429-09-20 10:34 G	27444986.94	27444986.94	27444986.95	0.0135	0.0135
Mercury	70429-12-17 14:53 G	27445075.05	27445075.12	27445075.21	0.0135	0.0114
Mercury	70430-03-15 19:12 G	27445163.20	27445163.30	27445163.41	0.0136	0.0093
Venus	70430-04-12 16:48 G	27445191.18	27445191.20	27445191.21	0.0136	0.0135
Mercury	70430-06-11 23:31 G	27445251.35	27445251.48	27445251.61	0.0136	0.0073
Earth	70430-08-12 10:19 G	27445312.68	27445312.93	27445313.18	0.0136	0.0007
Moon	70430-08-12 13:12 G	27445312.80	27445313.05	27445313.31	0.0136	0.0004 *
Mercury	70430-09-08 03:51 G	27445339.52	27445339.66	27445339.80	0.0136	0.0052
Mercury	70430-12-05 07:55 G	27445427.69	27445427.83	27445427.98	0.0136	0.0031
Mercury	70431-03-03 12:00 G	27445515.86	27445516.00	27445516.15	0.0136	0.0012
Mercury	70431-05-30 16:19 G	27445604.03	27445604.18	27445604.33	0.0136	0.0010
Moon	70431-08-16 15:07 G	27445681.91	27445682.13	27445682.37	0.0136	0.0047
Earth	70431-08-16 18:29 G	27445682.04	27445682.27	27445682.51	0.0136	0.0048 *
Mercury	70431-08-26 20:24 G	27445692.21	27445692.35	27445692.50	0.0136	0.0030
Mercury	70431-11-23 00:29 G	27445780.38	27445780.52	27445780.66	0.0136	0.0050
Mercury	70432-02-19 04:19 G	27445868.56	27445868.68	27445868.81	0.0136	0.0071
Mercury	70432-05-17 08:24 G	27445956.75	27445956.85	27445956.97	0.0136	0.0091
Mercury	70432-08-13 12:43 G	27446044.94	27446045.03	27446045.11	0.0136	0.0111
Earth	70432-08-20 03:07 G	27446051.46	27446051.63	27446051.84	0.0136	0.0089
Moon	70432-08-20 06:43 G	27446051.60	27446051.78	27446051.97	0.0136	0.0093 *
Mercury	70432-11-09 16:34 G	27446133.15	27446133.19	27446133.23	0.0136	0.0130
Moon	70433-08-24 09:22 G	27446420.81	27446420.89	27446421.01	0.0136	0.0125
Earth	70433-08-24 12:43 G	27446420.98	27446421.03	27446421.12	0.0136	0.0130 *
Mars	70450-04-25 02:10 G	27452508.36	27452508.59	27452508.85	0.0142	0.0091
Venus	70466-11-08 23:46 G	27458550.38	27458550.49	27458550.63	0.0144	0.0117
Venus	70467-06-23 11:17 G	27458776.80	27458776.97	27458777.17	0.0144	0.0077
Moon	70468-01-29 12:00 G	27458996.93	27458997.00	27458997.11	0.0143	0.0134
Earth	70468-01-29 13:41 G	27458997.04	27458997.07	27458997.13	0.0143	0.0141 *
Venus	70468-02-04 23:03 G	27459003.26	27459003.46	27459003.68	0.0143	0.0036

Venus	70468-09-18 10:34 G	27459229.72	27459229.94	27459230.16	0.0143	0.0005
Earth	70469-02-02 15:22 G	27459366.95	27459367.14	27459367.35	0.0143	0.0091
Moon	70469-02-02 17:17 G	27459367.04	27459367.22	27459367.43	0.0143	0.0096 *
Venus	70469-05-02 21:51 G	27459456.21	27459456.41	27459456.62	0.0143	0.0045
Venus	70469-12-15 09:07 G	27459682.71	27459682.88	27459683.06	0.0143	0.0085
Moon	70470-02-07 13:41 G	27459736.83	27459737.07	27459737.31	0.0143	0.0043
Earth	70470-02-07 16:34 G	27459736.94	27459737.19	27459737.43	0.0143	0.0042 *
Mercury	70470-07-07 00:00 G	27459886.48	27459886.50	27459886.56	0.0143	0.0138
Venus	70470-07-29 19:55 G	27459909.24	27459909.33	27459909.45	0.0143	0.0125
Mercury	70470-10-03 06:00 G	27459974.65	27459974.75	27459974.85	0.0143	0.0112
Mercury	70470-12-30 11:31 G	27460062.86	27460062.98	27460063.12	0.0143	0.0087
Earth	70471-02-12 16:48 G	27460106.94	27460107.20	27460107.46	0.0143	0.0006
Moon	70471-02-12 19:41 G	27460107.06	27460107.32	27460107.59	0.0143	0.0011 *
Mercury	70471-03-28 17:31 G	27460151.08	27460151.23	27460151.37	0.0143	0.0061
Mercury	70471-06-24 23:17 G	27460239.31	27460239.47	27460239.63	0.0143	0.0035
Mercury	70471-09-21 05:03 G	27460327.54	27460327.71	27460327.87	0.0142	0.0009
Mercury	70471-12-18 10:48 G	27460415.79	27460415.95	27460416.12	0.0142	0.0017
Moon	70472-02-17 13:12 G	27460476.81	27460477.05	27460477.29	0.0142	0.0047
Earth	70472-02-17 16:19 G	27460476.96	27460477.18	27460477.43	0.0142	0.0056 *
Mercury	70472-03-15 16:48 G	27460504.04	27460504.20	27460504.36	0.0142	0.0044
Mercury	70472-06-11 22:34 G	27460592.30	27460592.44	27460592.59	0.0142	0.0070
Mercury	70472-09-08 04:19 G	27460680.57	27460680.68	27460680.82	0.0142	0.0098
Mercury	70472-12-05 10:19 G	27460768.87	27460768.93	27460769.03	0.0142	0.0124
Earth	70473-02-21 15:36 G	27460846.98	27460847.15	27460847.33	0.0142	0.0102
Moon	70473-02-21 19:27 G	27460847.15	27460847.31	27460847.47	0.0142	0.0110 *
Mars	70490-08-29 06:15 G	27467244.49	27467244.76	27467245.04	0.0136	0.0050
Venus	70509-08-11 08:53 G	27474165.77	27474165.87	27474166.00	0.0135	0.0113
Venus	70510-03-25 14:39 G	27474391.95	27474392.11	27474392.30	0.0135	0.0080
Venus	70510-11-06 20:24 G	27474618.16	27474618.35	27474618.57	0.0135	0.0047
Venus	70511-06-21 02:39 G	27474844.39	27474844.61	27474844.83	0.0135	0.0013

Moon	70511-08-01 21:07 G	27474886.25	27474886.38	27474886.51	0.0135	0.0114
Earth	70511-08-01 23:31 G	27474886.34	27474886.48	27474886.64	0.0135	0.0107 *
Venus	70512-02-02 08:24 G	27475070.64	27475070.85	27475071.07	0.0135	0.0020
Earth	70512-08-05 06:29 G	27475255.56	27475255.77	27475256.00	0.0135	0.0068
Moon	70512-08-05 09:22 G	27475255.67	27475255.89	27475256.13	0.0135	0.0061 *
Venus	70512-09-15 14:10 G	27475296.91	27475297.09	27475297.30	0.0135	0.0054
Venus	70513-04-29 20:24 G	27475523.20	27475523.35	27475523.53	0.0135	0.0088
Moon	70513-08-09 11:31 G	27475624.74	27475624.98	27475625.22	0.0135	0.0034
Earth	70513-08-09 13:55 G	27475624.84	27475625.08	27475625.33	0.0135	0.0028 *
Mercury	70513-10-11 18:00 G	27475688.21	27475688.25	27475688.30	0.0135	0.0128
Venus	70513-12-12 02:24 G	27475749.53	27475749.60	27475749.72	0.0135	0.0122
Mercury	70514-01-07 22:19 G	27475776.34	27475776.43	27475776.53	0.0135	0.0107
Mercury	70514-04-06 02:39 G	27475864.50	27475864.61	27475864.73	0.0136	0.0086
Mercury	70514-07-03 06:43 G	27475952.66	27475952.78	27475952.92	0.0136	0.0066
Earth	70514-08-13 21:51 G	27475994.16	27475994.41	27475994.66	0.0136	0.0012
Moon	70514-08-14 00:58 G	27475994.29	27475994.54	27475994.80	0.0136	0.0015 *
Mercury	70514-09-29 11:03 G	27476040.82	27476040.96	27476041.11	0.0136	0.0045
Mercury	70514-12-26 15:22 G	27476128.99	27476129.14	27476129.29	0.0136	0.0024
Mercury	70515-03-24 19:27 G	27476217.16	27476217.31	27476217.46	0.0136	0.0005
Mercury	70515-06-20 23:31 G	27476305.34	27476305.48	27476305.63	0.0136	0.0018
Moon	70515-08-18 03:22 G	27476363.42	27476363.64	27476363.88	0.0136	0.0053
Earth	70515-08-18 06:15 G	27476363.53	27476363.76	27476363.99	0.0136	0.0053 *
Mercury	70515-09-17 03:36 G	27476393.52	27476393.65	27476393.80	0.0136	0.0038
Mercury	70515-12-14 07:41 G	27476481.70	27476481.82	27476481.96	0.0136	0.0058
Mercury	70516-03-11 11:46 G	27476569.88	27476569.99	27476570.12	0.0136	0.0078
Mercury	70516-06-07 15:51 G	27476658.07	27476658.16	27476658.27	0.0136	0.0098
Earth	70516-08-21 14:53 G	27476732.95	27476733.12	27476733.31	0.0136	0.0095
Moon	70516-08-21 18:00 G	27476733.07	27476733.25	27476733.45	0.0136	0.0090 *
Mercury	70516-09-03 19:41 G	27476746.26	27476746.32	27476746.40	0.0136	0.0118
Earth	70517-08-26 00:29 G	27477102.51	27477102.52	27477102.56	0.0136	0.0136

Venus	70550-07-10 06:58 G	27489108.74	27489108.79	27489108.89	0.0144	0.0135
Venus	70551-02-21 18:58 G	27489335.14	27489335.29	27489335.47	0.0144	0.0094
Venus	70551-10-06 06:58 G	27489561.58	27489561.79	27489561.99	0.0144	0.0053
Earth	70552-01-31 01:27 G	27489678.49	27489678.56	27489678.67	0.0143	0.0134
Moon	70552-01-31 00:43 G	27489678.51	27489678.53	27489678.59	0.0143	0.0142 *
Venus	70552-05-19 18:15 G	27489788.05	27489788.26	27489788.48	0.0143	0.0013
Venus	70553-01-01 05:46 G	27490014.53	27490014.74	27490014.96	0.0143	0.0028
Earth	70553-02-04 03:07 G	27490048.43	27490048.63	27490048.85	0.0143	0.0085
Moon	70553-02-04 04:48 G	27490048.50	27490048.70	27490048.94	0.0143	0.0082 *
Venus	70553-08-15 17:03 G	27490241.02	27490241.21	27490241.40	0.0143	0.0068
Moon	70554-02-09 02:10 G	27490418.36	27490418.59	27490418.84	0.0143	0.0038
Earth	70554-02-09 04:19 G	27490418.43	27490418.68	27490418.93	0.0143	0.0036 *
Venus	70554-03-30 04:05 G	27490467.53	27490467.67	27490467.81	0.0143	0.0108
Mercury	70554-07-28 07:55 G	27490587.77	27490587.83	27490587.91	0.0143	0.0128
Mercury	70554-10-24 13:41 G	27490675.96	27490676.07	27490676.18	0.0143	0.0103
Mercury	70555-01-20 19:12 G	27490764.17	27490764.30	27490764.44	0.0143	0.0078
Earth	70555-02-14 04:34 G	27490788.44	27490788.69	27490788.95	0.0143	0.0013
Moon	70555-02-14 07:41 G	27490788.56	27490788.82	27490789.08	0.0143	0.0007 *
Mercury	70555-04-19 00:58 G	27490852.39	27490852.54	27490852.70	0.0143	0.0052
Mercury	70555-07-16 06:58 G	27490940.62	27490940.79	27490940.95	0.0143	0.0026
Mercury	70555-10-12 12:43 G	27491028.86	27491029.03	27491029.19	0.0142	0.0001
Mercury	70556-01-08 18:29 G	27491117.11	27491117.27	27491117.44	0.0142	0.0027
Moon	70556-02-19 01:12 G	27491158.35	27491158.55	27491158.79	0.0142	0.0069
Earth	70556-02-19 04:34 G	27491158.46	27491158.69	27491158.92	0.0142	0.0061 *
Mercury	70556-04-06 00:15 G	27491205.36	27491205.51	27491205.67	0.0142	0.0054
Mercury	70556-07-03 06:15 G	27491293.63	27491293.76	27491293.90	0.0142	0.0080
Mercury	70556-09-29 12:29 G	27491381.91	27491382.02	27491382.13	0.0142	0.0107
Mercury	70556-12-26 18:15 G	27491470.21	27491470.26	27491470.32	0.0142	0.0134
Earth	70557-02-23 03:51 G	27491528.49	27491528.66	27491528.82	0.0142	0.0108
Moon	70557-02-23 06:58 G	27491528.62	27491528.79	27491528.98	0.0142	0.0101 *

Venus	70593-04-10 19:41 G	27504724.25	27504724.32	27504724.40	0.0134	0.0126
Venus	70593-11-23 01:12 G	27504950.41	27504950.55	27504950.72	0.0135	0.0093
Venus	70594-07-07 06:58 G	27505176.60	27505176.79	27505176.99	0.0135	0.0060
Venus	70595-02-18 12:43 G	27505402.82	27505403.03	27505403.25	0.0135	0.0027
Moon	70595-08-02 08:39 G	27505567.71	27505567.86	27505568.05	0.0135	0.0096
Earth	70595-08-02 11:03 G	27505567.80	27505567.96	27505568.13	0.0135	0.0102 *
Venus	70595-10-02 18:43 G	27505629.06	27505629.28	27505629.49	0.0135	0.0006
Venus	70596-05-16 00:29 G	27505855.32	27505855.52	27505855.74	0.0135	0.0040
Earth	70596-08-05 17:31 G	27505937.02	27505937.23	27505937.47	0.0135	0.0063
Moon	70596-08-05 20:10 G	27505937.12	27505937.34	27505937.56	0.0135	0.0069 *
Venus	70596-12-28 06:29 G	27506081.60	27506081.77	27506081.96	0.0135	0.0073
Moon	70597-08-09 22:34 G	27506306.20	27506306.44	27506306.69	0.0135	0.0017
Earth	70597-08-10 00:58 G	27506306.30	27506306.54	27506306.80	0.0135	0.0024 *
Venus	70597-08-11 12:43 G	27506307.90	27506308.03	27506308.17	0.0135	0.0107
Mercury	70597-11-01 01:27 G	27506389.49	27506389.56	27506389.63	0.0135	0.0121
Mercury	70598-01-28 05:46 G	27506477.64	27506477.74	27506477.84	0.0135	0.0100
Mercury	70598-04-26 09:51 G	27506565.79	27506565.91	27506566.04	0.0135	0.0079
Mercury	70598-07-23 14:10 G	27506653.96	27506654.09	27506654.23	0.0136	0.0058
Earth	70598-08-14 08:53 G	27506675.62	27506675.87	27506676.12	0.0136	0.0017
Moon	70598-08-14 11:03 G	27506675.71	27506675.96	27506676.22	0.0136	0.0014 *
Mercury	70598-10-19 18:29 G	27506742.12	27506742.27	27506742.41	0.0136	0.0038
Mercury	70599-01-15 22:34 G	27506830.29	27506830.44	27506830.59	0.0136	0.0017
Mercury	70599-04-14 02:53 G	27506918.47	27506918.62	27506918.77	0.0136	0.0005
Mercury	70599-07-11 06:58 G	27507006.64	27507006.79	27507006.94	0.0136	0.0024
Moon	70599-08-18 14:24 G	27507044.88	27507045.10	27507045.32	0.0136	0.0058
Earth	70599-08-18 17:03 G	27507044.99	27507045.21	27507045.44	0.0136	0.0058 *
Mercury	70599-10-07 11:03 G	27507094.82	27507094.96	27507095.10	0.0136	0.0044
Mercury	70600-01-03 14:53 G	27507183.00	27507183.12	27507183.26	0.0136	0.0065
Mercury	70600-04-01 18:58 G	27507271.19	27507271.29	27507271.41	0.0136	0.0085
Mercury	70600-06-28 23:17 G	27507359.38	27507359.47	27507359.56	0.0136	0.0105

Earth	70600-08-23 01:41 G	27507414.41	27507414.57	27507414.76	0.0136	0.0099
Moon	70600-08-23 04:34 G	27507414.53	27507414.69	27507414.87	0.0136	0.0101 *
Mercury	70600-09-25 03:07 G	27507447.58	27507447.63	27507447.69	0.0136	0.0124
Moon	70601-08-27 08:53 G	27507783.84	27507783.87	27507783.91	0.0136	0.0135
Mars	70617-09-12 00:58 G	27513643.24	27513643.54	27513643.86	0.0142	0.0035
Venus	70634-10-23 02:10 G	27519893.47	27519893.59	27519893.74	0.0144	0.0112
Venus	70635-06-06 13:55 G	27520119.90	27520120.08	27520120.28	0.0144	0.0071
Venus	70636-01-19 01:41 G	27520346.36	27520346.57	27520346.79	0.0144	0.0030
Moon	70636-02-01 12:29 G	27520359.89	27520360.02	27520360.16	0.0144	0.0121
Earth	70636-02-01 12:43 G	27520359.93	27520360.03	27520360.16	0.0144	0.0129 *
Venus	70636-09-01 13:12 G	27520572.83	27520573.05	27520573.27	0.0143	0.0011
Earth	70637-02-05 14:24 G	27520729.90	27520730.10	27520730.33	0.0143	0.0080
Moon	70637-02-05 15:22 G	27520729.93	27520730.14	27520730.36	0.0143	0.0085 *
Venus	70637-04-16 00:29 G	27520799.32	27520799.52	27520799.73	0.0143	0.0051
Venus	70637-11-28 11:46 G	27521025.83	27521025.99	27521026.17	0.0143	0.0091
Moon	70638-02-10 13:41 G	27521099.83	27521100.07	27521100.32	0.0143	0.0030
Earth	70638-02-10 15:36 G	27521099.90	27521100.15	27521100.41	0.0143	0.0031 *
Venus	70638-07-12 22:48 G	27521252.38	27521252.45	27521252.55	0.0143	0.0131
Mercury	70638-08-18 15:36 G	27521289.07	27521289.15	27521289.24	0.0143	0.0119
Mercury	70638-11-14 21:07 G	27521377.27	27521377.38	27521377.51	0.0143	0.0094
Mercury	70639-02-11 02:53 G	27521465.48	27521465.62	27521465.77	0.0143	0.0068
Earth	70639-02-15 16:19 G	27521469.93	27521470.18	27521470.44	0.0143	0.0018
Moon	70639-02-15 18:15 G	27521470.01	27521470.26	27521470.53	0.0143	0.0022 *
Mercury	70639-05-10 08:39 G	27521553.71	27521553.86	27521554.02	0.0143	0.0042
Mercury	70639-08-06 14:24 G	27521641.94	27521642.10	27521642.27	0.0143	0.0017
Mercury	70639-11-02 20:24 G	27521730.18	27521730.35	27521730.51	0.0143	0.0010
Mercury	70640-01-30 02:10 G	27521818.43	27521818.59	27521818.75	0.0142	0.0037
Moon	70640-02-20 13:41 G	27521839.84	27521840.07	27521840.30	0.0142	0.0060
Earth	70640-02-20 16:34 G	27521839.96	27521840.19	27521840.42	0.0142	0.0067 *
Mercury	70640-04-27 07:55 G	27521906.69	27521906.83	27521906.99	0.0142	0.0063

Mercury	70640-07-24 14:10 G	27521994.96	27521995.09	27521995.22	0.0142	0.0090
Mercury	70640-10-20 19:55 G	27522083.24	27522083.33	27522083.43	0.0142	0.0117
Earth	70641-02-24 15:36 G	27522210.01	27522210.15	27522210.31	0.0142	0.0114
Moon	70641-02-24 18:43 G	27522210.16	27522210.28	27522210.43	0.0142	0.0122 *
Mars	70658-01-18 06:00 G	27528381.48	27528381.75	27528382.05	0.0136	0.0036
Venus	70677-07-24 12:29 G	27535508.90	27535509.02	27535509.16	0.0134	0.0107
Venus	70678-03-07 18:00 G	27535735.08	27535735.25	27535735.44	0.0135	0.0074
Earth	70678-07-30 17:03 G	27535880.21	27535880.21	27535880.24	0.0135	0.0135
Moon	70678-07-30 18:15 G	27535880.22	27535880.26	27535880.35	0.0135	0.0130 *
Venus	70678-10-19 23:46 G	27535961.29	27535961.49	27535961.70	0.0135	0.0041
Venus	70679-06-03 05:46 G	27536187.53	27536187.74	27536187.96	0.0135	0.0008
Moon	70679-08-03 21:36 G	27536249.26	27536249.40	27536249.57	0.0135	0.0103
Earth	70679-08-03 23:31 G	27536249.32	27536249.48	27536249.67	0.0135	0.0096 *
Venus	70680-01-15 11:31 G	27536413.77	27536413.98	27536414.20	0.0135	0.0026
Earth	70680-08-07 06:15 G	27536618.55	27536618.76	27536619.00	0.0135	0.0057
Moon	70680-08-07 08:10 G	27536618.61	27536618.84	27536619.09	0.0135	0.0050 *
Venus	70680-08-28 17:31 G	27536640.04	27536640.23	27536640.43	0.0135	0.0059
Venus	70681-04-11 23:17 G	27536866.33	27536866.47	27536866.64	0.0135	0.0093
Moon	70681-08-11 12:00 G	27536987.77	27536988.00	27536988.25	0.0135	0.0023
Earth	70681-08-11 13:55 G	27536987.83	27536988.08	27536988.33	0.0135	0.0017 *
Mercury	70681-08-26 04:34 G	27537002.67	27537002.69	27537002.72	0.0135	0.0133
Mercury	70681-11-22 08:53 G	27537090.79	27537090.87	27537090.96	0.0135	0.0112
Venus	70681-11-24 05:31 G	27537092.67	27537092.73	27537092.82	0.0135	0.0127
Mercury	70682-02-18 13:12 G	27537178.95	27537179.05	27537179.17	0.0135	0.0091
Mercury	70682-05-17 17:31 G	27537267.11	27537267.23	27537267.36	0.0135	0.0071
Mercury	70682-08-13 21:51 G	27537355.27	27537355.41	27537355.55	0.0135	0.0050
Earth	70682-08-15 21:36 G	27537357.15	27537357.40	27537357.65	0.0135	0.0024
Moon	70682-08-15 23:46 G	27537357.24	27537357.49	27537357.75	0.0135	0.0027 *
Mercury	70682-11-10 01:55 G	27537443.44	27537443.58	27537443.73	0.0136	0.0030
Mercury	70683-02-06 06:15 G	27537531.61	27537531.76	27537531.91	0.0136	0.0009

Mercury	70683-05-05 10:19 G	27537619.79	27537619.93	27537620.08	0.0136	0.0013
Mercury	70683-08-01 14:24 G	27537707.96	27537708.10	27537708.25	0.0136	0.0033
Moon	70683-08-20 03:51 G	27537726.45	27537726.66	27537726.89	0.0136	0.0063
Earth	70683-08-20 05:31 G	27537726.53	27537726.73	27537726.97	0.0136	0.0065 *
Mercury	70683-10-28 18:29 G	27537796.14	27537796.27	27537796.41	0.0136	0.0053
Mercury	70684-01-24 22:34 G	27537884.32	27537884.44	27537884.57	0.0136	0.0073
Mercury	70684-04-22 02:39 G	27537972.51	27537972.61	27537972.72	0.0136	0.0093
Mercury	70684-07-19 06:43 G	27538060.71	27538060.78	27538060.87	0.0136	0.0113
Earth	70684-08-23 14:24 G	27538095.96	27538096.10	27538096.27	0.0136	0.0105
Moon	70684-08-23 16:48 G	27538096.05	27538096.20	27538096.39	0.0136	0.0102 *
Mercury	70684-10-15 10:34 G	27538148.92	27538148.94	27538148.98	0.0136	0.0133
Venus	70718-06-23 09:22 G	27550451.82	27550451.89	27550452.00	0.0144	0.0130
Venus	70719-02-04 21:22 G	27550678.22	27550678.39	27550678.57	0.0144	0.0089
Venus	70719-09-19 09:07 G	27550904.67	27550904.88	27550905.09	0.0144	0.0048
Earth	70720-02-03 00:15 G	27551041.39	27551041.51	27551041.66	0.0144	0.0122
Moon	70720-02-03 00:29 G	27551041.44	27551041.52	27551041.65	0.0144	0.0130 *
Venus	70720-05-02 20:39 G	27551131.14	27551131.36	27551131.58	0.0144	0.0008
Venus	70720-12-15 08:10 G	27551357.63	27551357.84	27551358.06	0.0143	0.0034
Earth	70721-02-07 01:55 G	27551411.37	27551411.58	27551411.81	0.0143	0.0073
Moon	70721-02-07 02:39 G	27551411.39	27551411.61	27551411.86	0.0143	0.0068 *
Venus	70721-07-29 19:41 G	27551584.13	27551584.32	27551584.51	0.0143	0.0074
Moon	70722-02-12 02:39 G	27551781.37	27551781.61	27551781.86	0.0143	0.0026
Earth	70722-02-12 03:22 G	27551781.39	27551781.64	27551781.90	0.0143	0.0024 *
Venus	70722-03-13 06:29 G	27551810.66	27551810.77	27551810.92	0.0143	0.0114
Mercury	70722-06-12 17:31 G	27551902.19	27551902.23	27551902.29	0.0143	0.0135
Mercury	70722-09-08 23:03 G	27551990.37	27551990.46	27551990.57	0.0143	0.0110
Mercury	70722-12-06 05:03 G	27552078.58	27552078.71	27552078.84	0.0143	0.0084
Earth	70723-02-17 04:05 G	27552151.42	27552151.67	27552151.93	0.0143	0.0026
Moon	70723-02-17 06:29 G	27552151.50	27552151.77	27552152.03	0.0143	0.0021 *
Mercury	70723-03-04 10:34 G	27552166.80	27552166.94	27552167.09	0.0143	0.0059

Mercury	70723-05-31 16:19 G	27552255.03	27552255.18	27552255.34	0.0143	0.0033
Mercury	70723-08-27 22:05 G	27552343.26	27552343.42	27552343.59	0.0143	0.0008
Mercury	70723-11-24 04:05 G	27552431.51	27552431.67	27552431.83	0.0143	0.0020
Mercury	70724-02-20 09:51 G	27552519.76	27552519.91	27552520.07	0.0142	0.0047
Moon	70724-02-22 01:55 G	27552521.39	27552521.58	27552521.80	0.0142	0.0081
Earth	70724-02-22 04:19 G	27552521.47	27552521.68	27552521.91	0.0142	0.0074 *
Mercury	70724-05-18 15:36 G	27552608.02	27552608.15	27552608.30	0.0142	0.0074
Mercury	70724-08-14 21:51 G	27552696.29	27552696.41	27552696.53	0.0142	0.0100
Mercury	70724-11-11 03:51 G	27552784.59	27552784.66	27552784.74	0.0142	0.0127
Earth	70725-02-26 03:36 G	27552891.54	27552891.65	27552891.80	0.0142	0.0121
Moon	70725-02-26 06:43 G	27552891.63	27552891.78	27552891.95	0.0142	0.0114 *
Mars	70742-09-14 01:12 G	27559300.42	27559300.55	27559300.70	0.0136	0.0119
Venus	70761-03-24 23:46 G	27566067.40	27566067.49	27566067.59	0.0134	0.0120
Venus	70761-11-06 05:03 G	27566293.56	27566293.71	27566293.89	0.0134	0.0088
Venus	70762-06-20 10:48 G	27566519.76	27566519.95	27566520.16	0.0135	0.0055
Earth	70762-08-01 05:17 G	27566561.67	27566561.72	27566561.81	0.0135	0.0129
Moon	70762-08-01 06:58 G	27566561.76	27566561.79	27566561.84	0.0135	0.0133 *
Venus	70763-02-01 16:34 G	27566745.98	27566746.19	27566746.41	0.0135	0.0022
Moon	70763-08-05 10:48 G	27566930.78	27566930.95	27566931.16	0.0135	0.0084
Earth	70763-08-05 12:00 G	27566930.82	27566931.00	27566931.19	0.0135	0.0090 *
Venus	70763-09-15 22:19 G	27566972.22	27566972.43	27566972.65	0.0135	0.0013
Venus	70764-04-29 04:19 G	27567198.48	27567198.68	27567198.89	0.0135	0.0046
Earth	70764-08-08 18:58 G	27567300.05	27567300.29	27567300.52	0.0135	0.0050
Moon	70764-08-08 19:55 G	27567300.10	27567300.33	27567300.58	0.0135	0.0057 *
Venus	70764-12-11 10:19 G	27567424.76	27567424.93	27567425.11	0.0135	0.0079
Venus	70765-07-25 16:34 G	27567651.07	27567651.19	27567651.31	0.0135	0.0112
Moon	70765-08-13 00:43 G	27567669.28	27567669.53	27567669.77	0.0135	0.0005
Earth	70765-08-13 02:10 G	27567669.34	27567669.59	27567669.84	0.0135	0.0011 *
Mercury	70765-09-16 12:00 G	27567703.96	27567704.00	27567704.07	0.0135	0.0125
Mercury	70765-12-13 16:19 G	27567792.10	27567792.18	27567792.29	0.0135	0.0104

Mercury	70766-03-11 20:39 G	27567880.25	27567880.36	27567880.49	0.0135	0.0083
Mercury	70766-06-08 00:58 G	27567968.42	27567968.54	27567968.68	0.0135	0.0063
Earth	70766-08-17 09:36 G	27568038.67	27568038.90	27568039.16	0.0135	0.0031
Moon	70766-08-17 11:03 G	27568038.71	27568038.96	27568039.22	0.0135	0.0025 *
Mercury	70766-09-04 05:17 G	27568056.58	27568056.72	27568056.87	0.0135	0.0042
Mercury	70766-12-01 09:36 G	27568144.75	27568144.90	27568145.05	0.0135	0.0021
Mercury	70767-02-27 13:55 G	27568232.93	27568233.08	27568233.23	0.0136	0.0004
Mercury	70767-05-26 18:00 G	27568321.10	27568321.25	27568321.40	0.0136	0.0020
Moon	70767-08-21 15:51 G	27568407.97	27568408.16	27568408.39	0.0136	0.0072
Earth	70767-08-21 17:46 G	27568408.04	27568408.24	27568408.47	0.0136	0.0071 *
Mercury	70767-08-22 22:05 G	27568409.28	27568409.42	27568409.56	0.0136	0.0040
Mercury	70767-11-19 02:10 G	27568497.46	27568497.59	27568497.72	0.0136	0.0061
Mercury	70768-02-15 06:15 G	27568585.64	27568585.76	27568585.88	0.0136	0.0081
Mercury	70768-05-13 10:05 G	27568673.83	27568673.92	27568674.03	0.0136	0.0101
Mercury	70768-08-09 14:10 G	27568762.03	27568762.09	27568762.16	0.0136	0.0121
Earth	70768-08-25 02:39 G	27568777.48	27568777.61	27568777.77	0.0136	0.0111
Moon	70768-08-25 04:34 G	27568777.55	27568777.69	27568777.84	0.0136	0.0112 *
Venus	70802-10-05 04:19 G	27581236.54	27581236.68	27581236.82	0.0144	0.0107
Venus	70803-05-19 15:51 G	27581462.98	27581463.16	27581463.36	0.0144	0.0067
Venus	70804-01-01 03:51 G	27581689.44	27581689.66	27581689.88	0.0144	0.0025
Earth	70804-02-03 11:17 G	27581722.83	27581722.97	27581723.13	0.0144	0.0116
Moon	70804-02-03 11:46 G	27581722.85	27581722.99	27581723.17	0.0144	0.0109 *
Venus	70804-08-14 15:22 G	27581915.92	27581916.14	27581916.36	0.0143	0.0015
Moon	70805-02-07 12:43 G	27582092.81	27582093.03	27582093.27	0.0143	0.0073
Earth	70805-02-07 13:12 G	27582092.83	27582093.05	27582093.28	0.0143	0.0067 *
Venus	70805-03-29 02:39 G	27582142.42	27582142.61	27582142.82	0.0143	0.0056
Venus	70805-11-10 14:10 G	27582368.94	27582369.09	27582369.26	0.0143	0.0096
Moon	70806-02-12 13:41 G	27582462.83	27582463.07	27582463.32	0.0143	0.0016
Earth	70806-02-12 14:39 G	27582462.86	27582463.11	27582463.37	0.0143	0.0018 *
Venus	70806-06-25 01:12 G	27582595.50	27582595.55	27582595.63	0.0143	0.0136

Mercury	70806-07-03 01:12 G	27582603.48	27582603.55	27582603.63	0.0143	0.0126
Mercury	70806-09-29 06:43 G	27582691.67	27582691.78	27582691.90	0.0143	0.0101
Mercury	70806-12-26 12:29 G	27582779.89	27582780.02	27582780.16	0.0143	0.0075
Earth	70807-02-17 15:36 G	27582832.90	27582833.15	27582833.41	0.0143	0.0032
Moon	70807-02-17 16:34 G	27582832.94	27582833.19	27582833.45	0.0143	0.0034 *
Mercury	70807-03-24 18:15 G	27582868.11	27582868.26	27582868.41	0.0143	0.0049
Mercury	70807-06-21 00:00 G	27582956.34	27582956.50	27582956.66	0.0143	0.0023
Mercury	70807-09-17 05:46 G	27583044.58	27583044.74	27583044.91	0.0143	0.0005
Mercury	70807-12-14 11:46 G	27583132.83	27583132.99	27583133.15	0.0143	0.0030
Moon	70808-02-22 14:10 G	27583202.88	27583203.09	27583203.30	0.0142	0.0074
Earth	70808-02-22 16:19 G	27583202.96	27583203.18	27583203.39	0.0142	0.0080 *
Mercury	70808-03-11 17:31 G	27583221.08	27583221.23	27583221.39	0.0142	0.0056
Mercury	70808-06-07 23:31 G	27583309.35	27583309.48	27583309.62	0.0142	0.0083
Mercury	70808-09-04 05:17 G	27583397.63	27583397.72	27583397.84	0.0142	0.0110
Mercury	70808-12-01 11:17 G	27583485.94	27583485.97	27583486.03	0.0142	0.0137
Earth	70809-02-26 15:22 G	27583573.04	27583573.14	27583573.27	0.0142	0.0127
Moon	70809-02-26 17:46 G	27583573.18	27583573.24	27583573.34	0.0142	0.0135 *
Mars	70825-06-08 07:27 G	27589518.70	27589518.81	27589518.97	0.0136	0.0120
Venus	70844-11-22 11:31 G	27596625.95	27596625.98	27596626.01	0.0134	0.0133
Venus	70845-07-06 16:48 G	27596852.07	27596852.20	27596852.35	0.0134	0.0100
Venus	70846-02-17 22:19 G	27597078.25	27597078.43	27597078.63	0.0134	0.0068
Moon	70846-08-01 19:12 G	27597243.19	27597243.30	27597243.44	0.0135	0.0118
Earth	70846-08-01 18:58 G	27597243.20	27597243.29	27597243.40	0.0135	0.0122 *
Venus	70846-10-02 04:05 G	27597304.47	27597304.67	27597304.89	0.0135	0.0035
Venus	70847-05-16 10:05 G	27597530.70	27597530.92	27597531.14	0.0135	0.0002
Moon	70847-08-06 00:43 G	27597612.35	27597612.53	27597612.71	0.0135	0.0089
Earth	70847-08-06 01:12 G	27597612.37	27597612.55	27597612.76	0.0135	0.0083 *
Venus	70847-12-28 16:05 G	27597756.96	27597757.17	27597757.38	0.0135	0.0032
Earth	70848-08-09 08:10 G	27597981.61	27597981.84	27597982.09	0.0135	0.0044
Moon	70848-08-09 09:07 G	27597981.63	27597981.88	27597982.13	0.0135	0.0036 *

Venus	70848-08-10 21:36 G	27597983.22	27597983.40	27597983.60	0.0135	0.0066
Venus	70849-03-25 03:36 G	27598209.52	27598209.65	27598209.81	0.0135	0.0099
Moon	70849-08-13 15:07 G	27598350.89	27598351.13	27598351.37	0.0135	0.0010
Earth	70849-08-13 15:51 G	27598350.90	27598351.16	27598351.41	0.0135	0.0004 *
Mercury	70849-10-06 19:55 G	27598405.26	27598405.33	27598405.41	0.0135	0.0115
Venus	70849-11-06 09:51 G	27598435.88	27598435.91	27598435.96	0.0135	0.0133
Mercury	70850-01-03 00:15 G	27598493.41	27598493.51	27598493.63	0.0135	0.0094
Mercury	70850-04-01 04:34 G	27598581.57	27598581.69	27598581.82	0.0135	0.0074
Mercury	70850-06-28 08:53 G	27598669.74	27598669.87	27598670.01	0.0135	0.0053
Earth	70850-08-17 23:17 G	27598720.24	27598720.47	27598720.72	0.0135	0.0037
Moon	70850-08-18 00:29 G	27598720.29	27598720.52	27598720.78	0.0135	0.0042 *
Mercury	70850-09-24 13:12 G	27598757.90	27598758.05	27598758.20	0.0135	0.0032
Mercury	70850-12-21 17:31 G	27598846.08	27598846.23	27598846.38	0.0135	0.0012
Mercury	70851-03-19 21:36 G	27598934.25	27598934.40	27598934.55	0.0136	0.0009
Mercury	70851-06-16 01:41 G	27599022.43	27599022.57	27599022.72	0.0136	0.0030
Moon	70851-08-22 06:43 G	27599089.59	27599089.78	27599089.99	0.0136	0.0075
Earth	70851-08-22 07:27 G	27599089.62	27599089.81	27599090.03	0.0136	0.0078 *
Mercury	70851-09-12 05:46 G	27599110.61	27599110.74	27599110.88	0.0136	0.0050
Mercury	70851-12-09 09:51 G	27599198.79	27599198.91	27599199.04	0.0136	0.0070
Mercury	70852-03-06 13:55 G	27599286.98	27599287.08	27599287.20	0.0136	0.0090
Mercury	70852-06-02 18:00 G	27599375.17	27599375.25	27599375.34	0.0136	0.0110
Earth	70852-08-25 16:05 G	27599459.07	27599459.17	27599459.32	0.0136	0.0118
Moon	70852-08-25 17:31 G	27599459.12	27599459.23	27599459.39	0.0136	0.0116 *
Mercury	70852-08-29 21:51 G	27599463.38	27599463.41	27599463.47	0.0136	0.0130
Mars	70869-09-25 02:10 G	27605698.29	27605698.59	27605698.91	0.0142	0.0037
Venus	70886-06-04 11:46 G	27611794.90	27611794.99	27611795.12	0.0144	0.0125
Venus	70887-01-16 23:46 G	27612021.33	27612021.49	27612021.68	0.0144	0.0084
Venus	70887-08-31 11:46 G	27612247.78	27612247.99	27612248.20	0.0144	0.0043
Earth	70888-02-03 23:46 G	27612404.33	27612404.49	27612404.66	0.0144	0.0109
Moon	70888-02-04 00:58 G	27612404.42	27612404.54	27612404.71	0.0144	0.0117 *

Venus	70888-04-13 23:31 G	27612474.26	27612474.48	27612474.70	0.0144	0.0002
Venus	70888-11-26 11:17 G	27612700.76	27612700.97	27612701.18	0.0143	0.0039
Moon	70889-02-08 00:58 G	27612774.31	27612774.54	27612774.80	0.0143	0.0054
Earth	70889-02-08 01:41 G	27612774.34	27612774.57	27612774.81	0.0143	0.0060 *
Venus	70889-07-10 22:19 G	27612927.26	27612927.43	27612927.63	0.0143	0.0080
Earth	70890-02-13 03:22 G	27613144.38	27613144.64	27613144.90	0.0143	0.0010
Moon	70890-02-13 03:36 G	27613144.41	27613144.65	27613144.90	0.0143	0.0014 *
Venus	70890-02-22 09:36 G	27613153.80	27613153.90	27613154.04	0.0143	0.0120
Mercury	70890-04-26 03:22 G	27613216.63	27613216.64	27613216.67	0.0143	0.0141
Mercury	70890-07-23 08:53 G	27613304.79	27613304.87	27613304.98	0.0143	0.0116
Mercury	70890-10-19 14:39 G	27613392.99	27613393.11	27613393.24	0.0143	0.0090
Mercury	70891-01-15 20:24 G	27613481.21	27613481.35	27613481.50	0.0143	0.0064
Earth	70891-02-18 04:19 G	27613514.44	27613514.68	27613514.93	0.0143	0.0039
Moon	70891-02-18 05:17 G	27613514.47	27613514.72	27613514.99	0.0143	0.0036 *
Mercury	70891-04-14 02:10 G	27613569.43	27613569.59	27613569.75	0.0143	0.0038
Mercury	70891-07-11 07:55 G	27613657.67	27613657.83	27613658.00	0.0143	0.0013
Mercury	70891-10-07 13:41 G	27613745.91	27613746.07	27613746.24	0.0143	0.0014
Mercury	70892-01-03 19:27 G	27613834.16	27613834.31	27613834.48	0.0143	0.0041
Moon	70892-02-23 03:36 G	27613884.47	27613884.65	27613884.85	0.0142	0.0093
Earth	70892-02-23 04:48 G	27613884.50	27613884.70	27613884.91	0.0142	0.0087 *
Mercury	70892-04-01 01:27 G	27613922.42	27613922.56	27613922.71	0.0142	0.0067
Mercury	70892-06-28 07:27 G	27614010.69	27614010.81	27614010.94	0.0142	0.0094
Mercury	70892-09-24 13:12 G	27614098.97	27614099.05	27614099.15	0.0142	0.0121
Earth	70893-02-27 04:19 G	27614254.61	27614254.68	27614254.78	0.0142	0.0134
Moon	70893-02-27 06:43 G	27614254.66	27614254.78	27614254.90	0.0142	0.0127 *
Mars	70910-02-02 03:07 G	27620437.35	27620437.63	27620437.92	0.0136	0.0037
Venus	70929-03-07 04:05 G	27627410.57	27627410.67	27627410.80	0.0134	0.0113
Venus	70929-10-19 09:51 G	27627636.75	27627636.91	27627637.09	0.0134	0.0081
Venus	70930-06-02 15:36 G	27627862.95	27627863.15	27627863.36	0.0134	0.0048
Earth	70930-08-03 07:41 G	27627924.71	27627924.82	27627924.97	0.0134	0.0116

Moon	70930-08-03 07:55 G	27627924.73	27627924.83	27627924.97	0.0134	0.0120	*
Venus	70931-01-14 21:22 G	27628089.18	27628089.39	27628089.61	0.0135	0.0015	
Earth	70931-08-07 14:24 G	27628293.90	27628294.10	27628294.31	0.0135	0.0077	
Moon	70931-08-07 14:39 G	27628293.91	27628294.11	27628294.32	0.0135	0.0071	*
Venus	70931-08-29 03:07 G	27628315.42	27628315.63	27628315.85	0.0135	0.0019	
Venus	70932-04-11 09:07 G	27628541.68	27628541.88	27628542.08	0.0135	0.0052	
Earth	70932-08-10 21:22 G	27628663.15	27628663.39	27628663.64	0.0135	0.0037	
Moon	70932-08-10 21:22 G	27628663.16	27628663.39	27628663.65	0.0135	0.0044	*
Venus	70932-11-23 14:53 G	27628767.97	27628768.12	27628768.30	0.0135	0.0086	
Venus	70933-07-07 21:07 G	27628994.29	27628994.38	27628994.49	0.0135	0.0119	
Mercury	70933-07-31 23:17 G	27629018.43	27629018.47	27629018.52	0.0135	0.0127	
Moon	70933-08-15 04:05 G	27629032.43	27629032.67	27629032.92	0.0135	0.0010	
Earth	70933-08-15 04:48 G	27629032.45	27629032.70	27629032.95	0.0135	0.0003	*
Mercury	70933-10-28 03:36 G	27629106.57	27629106.65	27629106.75	0.0135	0.0107	
Mercury	70934-01-24 08:10 G	27629194.72	27629194.84	27629194.95	0.0135	0.0085	
Mercury	70934-04-22 12:15 G	27629282.88	27629283.01	27629283.15	0.0135	0.0065	
Mercury	70934-07-19 16:34 G	27629371.05	27629371.19	27629371.34	0.0135	0.0044	
Earth	70934-08-19 12:15 G	27629401.78	27629402.01	27629402.26	0.0135	0.0043	
Moon	70934-08-19 12:29 G	27629401.78	27629402.02	27629402.28	0.0135	0.0038	*
Mercury	70934-10-15 20:53 G	27629459.22	27629459.37	27629459.52	0.0135	0.0023	
Mercury	70935-01-12 01:12 G	27629547.40	27629547.55	27629547.70	0.0135	0.0004	
Mercury	70935-04-10 05:17 G	27629635.57	27629635.72	27629635.87	0.0135	0.0018	
Mercury	70935-07-07 09:22 G	27629723.75	27629723.89	27629724.04	0.0136	0.0038	
Moon	70935-08-23 19:27 G	27629771.14	27629771.31	27629771.51	0.0136	0.0086	
Earth	70935-08-23 20:10 G	27629771.16	27629771.34	27629771.56	0.0136	0.0084	*
Mercury	70935-10-03 13:27 G	27629811.93	27629812.06	27629812.20	0.0136	0.0058	
Mercury	70935-12-30 17:31 G	27629900.12	27629900.23	27629900.36	0.0136	0.0078	
Mercury	70936-03-27 21:51 G	27629988.31	27629988.41	27629988.51	0.0136	0.0098	
Mercury	70936-06-24 01:41 G	27630076.50	27630076.57	27630076.65	0.0136	0.0118	
Earth	70936-08-27 04:48 G	27630140.62	27630140.70	27630140.82	0.0136	0.0124	

Moon	70936-08-27 05:17 G	27630140.64	27630140.72	27630140.85	0.0136	0.0124	*
Venus	70970-02-02 19:12 G	27642353.28	27642353.30	27642353.34	0.0144	0.0143	
Venus	70970-09-17 06:58 G	27642579.65	27642579.79	27642579.96	0.0144	0.0102	
Venus	70971-05-01 18:58 G	27642806.10	27642806.29	27642806.50	0.0144	0.0061	
Venus	70971-12-14 06:58 G	27643032.58	27643032.79	27643033.01	0.0144	0.0020	
Earth	70972-02-05 11:17 G	27643085.80	27643085.97	27643086.16	0.0144	0.0103	
Moon	70972-02-05 13:27 G	27643085.87	27643086.06	27643086.24	0.0144	0.0095	*
Venus	70972-07-27 18:43 G	27643259.07	27643259.28	27643259.50	0.0144	0.0022	
Moon	70973-02-09 11:46 G	27643455.76	27643455.99	27643456.25	0.0143	0.0061	
Earth	70973-02-09 13:27 G	27643455.83	27643456.06	27643456.31	0.0143	0.0054	*
Venus	70973-03-11 06:15 G	27643485.57	27643485.76	27643485.96	0.0143	0.0062	
Venus	70973-10-23 17:46 G	27643712.10	27643712.24	27643712.40	0.0143	0.0102	
Earth	70974-02-14 15:22 G	27643825.89	27643826.14	27643826.40	0.0143	0.0005	
Moon	70974-02-14 15:51 G	27643825.91	27643826.16	27643826.41	0.0143	0.0002	*
Mercury	70974-05-17 11:17 G	27643917.91	27643917.97	27643918.03	0.0143	0.0131	
Venus	70974-06-07 05:03 G	27643938.70	27643938.71	27643938.74	0.0143	0.0142	
Mercury	70974-08-13 16:48 G	27644006.10	27644006.20	27644006.31	0.0143	0.0106	
Mercury	70974-11-09 22:34 G	27644094.31	27644094.44	27644094.57	0.0143	0.0080	
Mercury	70975-02-06 04:05 G	27644182.53	27644182.67	27644182.83	0.0143	0.0055	
Moon	70975-02-19 16:19 G	27644195.93	27644196.18	27644196.44	0.0143	0.0046	
Earth	70975-02-19 16:34 G	27644195.95	27644196.19	27644196.44	0.0143	0.0045	*
Mercury	70975-05-05 09:51 G	27644270.76	27644270.91	27644271.08	0.0143	0.0029	
Mercury	70975-08-01 15:51 G	27644358.99	27644359.16	27644359.32	0.0143	0.0003	
Mercury	70975-10-28 21:36 G	27644447.24	27644447.40	27644447.56	0.0143	0.0024	
Mercury	70976-01-25 03:22 G	27644535.49	27644535.64	27644535.80	0.0143	0.0051	
Moon	70976-02-24 16:19 G	27644565.99	27644566.18	27644566.38	0.0143	0.0088	
Earth	70976-02-24 16:48 G	27644566.03	27644566.20	27644566.42	0.0143	0.0094	*
Mercury	70976-04-22 09:22 G	27644623.75	27644623.89	27644624.03	0.0143	0.0077	
Mercury	70976-07-19 15:22 G	27644712.03	27644712.14	27644712.25	0.0142	0.0104	
Mercury	70976-10-15 21:07 G	27644800.32	27644800.38	27644800.45	0.0142	0.0131	

Earth 70977-02-28 16:34 G 27644936.17 27644936.19 27644936.25 0.0142 0.0141

72ND MILLENNIUM CE

This is a list of transits visible from Uranus in the 72nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	71012-11-05 16:05	G	27657969.11	27657969.17	27657969.26	0.0134	0.0126	
Venus	71013-06-19 21:36	G	27658195.26	27658195.40	27658195.57	0.0134	0.0093	
Venus	71014-02-01 03:22	G	27658421.45	27658421.64	27658421.84	0.0134	0.0060	
Moon	71014-08-04 20:24	G	27658606.22	27658606.35	27658606.53	0.0134	0.0107	
Earth	71014-08-04 21:22	G	27658606.27	27658606.39	27658606.56	0.0134	0.0110	*
Venus	71014-09-15 09:07	G	27658647.67	27658647.88	27658648.09	0.0134	0.0027	
Venus	71015-04-29 14:53	G	27658873.91	27658874.12	27658874.34	0.0135	0.0007	
Earth	71015-08-09 03:51	G	27658975.46	27658975.66	27658975.89	0.0135	0.0071	
Moon	71015-08-09 04:19	G	27658975.49	27658975.68	27658975.89	0.0135	0.0076	*
Venus	71015-12-11 20:39	G	27659100.16	27659100.36	27659100.58	0.0135	0.0040	
Venus	71016-07-25 02:39	G	27659326.44	27659326.61	27659326.80	0.0135	0.0073	
Moon	71016-08-12 10:34	G	27659344.70	27659344.94	27659345.21	0.0135	0.0024	
Earth	71016-08-12 11:03	G	27659344.72	27659344.96	27659345.21	0.0135	0.0031	*
Venus	71017-03-08 08:39	G	27659552.74	27659552.86	27659553.00	0.0135	0.0106	
Earth	71017-08-16 18:29	G	27659714.02	27659714.27	27659714.52	0.0135	0.0009	
Moon	71017-08-16 18:43	G	27659714.04	27659714.28	27659714.53	0.0135	0.0004	*
Mercury	71017-08-22 06:58	G	27659719.73	27659719.79	27659719.88	0.0135	0.0119	
Mercury	71017-11-18 11:31	G	27659807.88	27659807.98	27659808.09	0.0135	0.0097	

Mercury	71018-02-14 15:51 G	27659896.04	27659896.16	27659896.29	0.0135	0.0076
Mercury	71018-05-13 20:10 G	27659984.20	27659984.34	27659984.48	0.0135	0.0055
Mercury	71018-08-10 00:29 G	27660072.37	27660072.52	27660072.67	0.0135	0.0035
Earth	71018-08-21 01:41 G	27660083.35	27660083.57	27660083.82	0.0135	0.0050
Moon	71018-08-21 01:55 G	27660083.36	27660083.58	27660083.83	0.0135	0.0055 *
Mercury	71018-11-06 04:48 G	27660160.55	27660160.70	27660160.85	0.0135	0.0014
Mercury	71019-02-02 08:53 G	27660248.72	27660248.87	27660249.02	0.0135	0.0006
Mercury	71019-05-01 13:12 G	27660336.90	27660337.05	27660337.19	0.0136	0.0027
Mercury	71019-07-28 17:17 G	27660425.08	27660425.22	27660425.36	0.0136	0.0047
Earth	71019-08-25 09:51 G	27660452.73	27660452.91	27660453.11	0.0136	0.0090
Moon	71019-08-25 09:51 G	27660452.74	27660452.91	27660453.12	0.0136	0.0087 *
Mercury	71019-10-24 21:22 G	27660513.26	27660513.39	27660513.52	0.0136	0.0067
Mercury	71020-01-21 01:27 G	27660601.45	27660601.56	27660601.67	0.0136	0.0087
Mercury	71020-04-18 05:31 G	27660689.64	27660689.73	27660689.82	0.0136	0.0107
Mercury	71020-07-15 09:22 G	27660777.85	27660777.89	27660777.95	0.0136	0.0127
Earth	71020-08-28 18:15 G	27660822.21	27660822.26	27660822.35	0.0136	0.0130
Moon	71020-08-28 18:43 G	27660822.22	27660822.28	27660822.38	0.0136	0.0129 *
Mars	71037-02-12 06:15 G	27666833.51	27666833.76	27666834.04	0.0142	0.0079
Venus	71054-05-18 15:36 G	27673138.03	27673138.15	27673138.28	0.0144	0.0118
Venus	71054-12-31 03:36 G	27673364.47	27673364.65	27673364.84	0.0144	0.0077
Moon	71055-02-01 19:27 G	27673397.25	27673397.31	27673397.38	0.0144	0.0139
Venus	71055-08-14 15:36 G	27673590.94	27673591.15	27673591.36	0.0144	0.0036
Earth	71056-02-07 00:58 G	27673767.36	27673767.54	27673767.74	0.0144	0.0096
Moon	71056-02-07 03:36 G	27673767.48	27673767.65	27673767.82	0.0144	0.0103 *
Venus	71056-03-28 03:22 G	27673817.42	27673817.64	27673817.86	0.0144	0.0005
Venus	71056-11-09 15:07 G	27674043.93	27674044.13	27674044.34	0.0143	0.0046
Moon	71057-02-11 01:27 G	27674137.31	27674137.56	27674137.82	0.0143	0.0040
Earth	71057-02-11 03:07 G	27674137.40	27674137.63	27674137.88	0.0143	0.0047 *
Venus	71057-06-24 02:24 G	27674270.44	27674270.60	27674270.79	0.0143	0.0087
Venus	71058-02-05 13:55 G	27674496.99	27674497.08	27674497.19	0.0143	0.0126

Earth	71058-02-16 05:03 G	27674507.46	27674507.71	27674507.97	0.0143	0.0004
Moon	71058-02-16 06:29 G	27674507.52	27674507.77	27674508.02	0.0143	0.0002 *
Mercury	71058-06-07 19:27 G	27674619.22	27674619.31	27674619.39	0.0143	0.0120
Mercury	71058-09-04 00:43 G	27674707.42	27674707.53	27674707.66	0.0143	0.0096
Mercury	71058-12-01 06:43 G	27674795.64	27674795.78	27674795.92	0.0143	0.0069
Moon	71059-02-21 06:15 G	27674877.51	27674877.76	27674878.01	0.0143	0.0050
Earth	71059-02-21 06:15 G	27674877.53	27674877.76	27674878.01	0.0143	0.0052 *
Mercury	71059-02-27 12:15 G	27674883.86	27674884.01	27674884.17	0.0143	0.0044
Mercury	71059-05-26 18:00 G	27674972.09	27674972.25	27674972.42	0.0143	0.0018
Mercury	71059-08-22 23:46 G	27675060.33	27675060.49	27675060.66	0.0143	0.0010
Mercury	71059-11-19 05:31 G	27675148.58	27675148.73	27675148.90	0.0143	0.0036
Mercury	71060-02-15 11:31 G	27675236.83	27675236.98	27675237.13	0.0143	0.0062
Earth	71060-02-26 06:43 G	27675247.60	27675247.78	27675247.97	0.0143	0.0100
Moon	71060-02-26 06:43 G	27675247.62	27675247.78	27675247.95	0.0143	0.0105 *
Mercury	71060-05-13 17:17 G	27675325.10	27675325.22	27675325.36	0.0143	0.0089
Mercury	71060-08-09 23:17 G	27675413.38	27675413.47	27675413.57	0.0142	0.0115
Mercury	71060-11-06 05:17 G	27675501.72	27675501.72	27675501.73	0.0142	0.0142
Moon	71061-03-02 07:27 G	27675617.77	27675617.81	27675617.87	0.0142	0.0140
Mars	71077-06-23 07:27 G	27681574.54	27681574.81	27681575.09	0.0136	0.0044
Venus	71097-02-17 09:36 G	27688753.77	27688753.90	27688754.04	0.0134	0.0105
Venus	71097-10-01 15:07 G	27688979.96	27688980.13	27688980.32	0.0134	0.0073
Venus	71098-05-15 21:07 G	27689206.17	27689206.38	27689206.58	0.0134	0.0040
Moon	71098-08-05 10:19 G	27689287.78	27689287.93	27689288.10	0.0134	0.0106
Earth	71098-08-05 11:17 G	27689287.81	27689287.97	27689288.13	0.0134	0.0103 *
Venus	71098-12-28 02:39 G	27689432.40	27689432.61	27689432.83	0.0134	0.0007
Earth	71099-08-09 17:31 G	27689657.02	27689657.23	27689657.46	0.0135	0.0065
Moon	71099-08-09 18:58 G	27689657.07	27689657.29	27689657.51	0.0135	0.0059 *
Venus	71099-08-11 08:24 G	27689658.64	27689658.85	27689659.07	0.0135	0.0026
Venus	71100-03-25 14:10 G	27689884.90	27689885.09	27689885.29	0.0135	0.0060
Moon	71100-08-13 23:31 G	27690026.24	27690026.48	27690026.74	0.0135	0.0031

Earth	71100-08-14 00:29 G	27690026.28	27690026.52	27690026.77	0.0135	0.0025 *
Venus	71100-11-06 20:10 G	27690111.19	27690111.34	27690111.50	0.0135	0.0093
Mercury	71101-06-16 10:34 G	27690332.91	27690332.94	27690332.98	0.0135	0.0130
Venus	71101-06-21 02:24 G	27690337.53	27690337.60	27690337.67	0.0135	0.0126
Earth	71101-08-18 07:41 G	27690395.57	27690395.82	27690396.07	0.0135	0.0015
Moon	71101-08-18 08:10 G	27690395.60	27690395.84	27690396.08	0.0135	0.0022 *
Mercury	71101-09-12 14:53 G	27690421.04	27690421.12	27690421.22	0.0135	0.0109
Mercury	71101-12-09 19:12 G	27690509.19	27690509.30	27690509.42	0.0135	0.0088
Mercury	71102-03-07 23:46 G	27690597.36	27690597.49	27690597.62	0.0135	0.0067
Mercury	71102-06-04 03:51 G	27690685.52	27690685.66	27690685.81	0.0135	0.0047
Moon	71102-08-22 14:10 G	27690764.85	27690765.09	27690765.33	0.0135	0.0049
Earth	71102-08-22 14:53 G	27690764.90	27690765.12	27690765.36	0.0135	0.0055 *
Mercury	71102-08-31 08:10 G	27690773.69	27690773.84	27690773.99	0.0135	0.0026
Mercury	71102-11-27 12:29 G	27690861.87	27690862.02	27690862.17	0.0135	0.0006
Mercury	71103-02-23 16:34 G	27690950.04	27690950.19	27690950.34	0.0135	0.0015
Mercury	71103-05-22 20:39 G	27691038.22	27691038.36	27691038.51	0.0136	0.0035
Mercury	71103-08-19 00:43 G	27691126.40	27691126.53	27691126.67	0.0136	0.0056
Earth	71103-08-26 23:03 G	27691134.28	27691134.46	27691134.64	0.0136	0.0095
Moon	71103-08-26 22:48 G	27691134.30	27691134.45	27691134.63	0.0136	0.0098 *
Mercury	71103-11-15 04:48 G	27691214.59	27691214.70	27691214.83	0.0136	0.0076
Mercury	71104-02-11 08:53 G	27691302.77	27691302.87	27691302.98	0.0136	0.0096
Mercury	71104-05-09 12:58 G	27691390.97	27691391.04	27691391.12	0.0136	0.0115
Mercury	71104-08-05 17:03 G	27691479.20	27691479.21	27691479.23	0.0136	0.0135
Moon	71104-08-30 06:15 G	27691503.74	27691503.76	27691503.82	0.0136	0.0134
Earth	71104-08-30 06:58 G	27691503.78	27691503.79	27691503.83	0.0136	0.0135 *
Mars	71121-10-10 04:19 G	27697753.50	27697753.68	27697753.91	0.0142	0.0109
Venus	71138-01-16 22:34 G	27703696.39	27703696.44	27703696.53	0.0144	0.0136
Venus	71138-08-31 10:34 G	27703922.79	27703922.94	27703923.12	0.0144	0.0095
Moon	71139-02-03 06:29 G	27704078.76	27704078.77	27704078.81	0.0144	0.0143
Earth	71139-02-03 09:36 G	27704078.86	27704078.90	27704078.99	0.0144	0.0139

Venus	71139-04-14 22:48 G	27704149.25	27704149.45	27704149.66	0.0144	0.0054
Venus	71139-11-27 11:03 G	27704375.74	27704375.96	27704376.18	0.0144	0.0013
Earth	71140-02-08 12:29 G	27704448.83	27704449.02	27704449.23	0.0144	0.0090
Moon	71140-02-08 15:22 G	27704448.94	27704449.14	27704449.35	0.0144	0.0082 *
Venus	71140-07-10 22:34 G	27704602.24	27704602.44	27704602.66	0.0144	0.0029
Moon	71141-02-12 12:29 G	27704818.77	27704819.02	27704819.27	0.0144	0.0048
Earth	71141-02-12 14:53 G	27704818.88	27704819.12	27704819.38	0.0144	0.0041 *
Venus	71141-02-22 10:05 G	27704828.74	27704828.92	27704829.13	0.0144	0.0070
Venus	71141-10-06 21:36 G	27705055.27	27705055.40	27705055.55	0.0143	0.0110
Earth	71142-02-17 17:03 G	27705188.95	27705189.21	27705189.47	0.0143	0.0009
Moon	71142-02-17 18:15 G	27705189.02	27705189.26	27705189.51	0.0143	0.0013 *
Mercury	71142-04-01 21:22 G	27705232.35	27705232.39	27705232.44	0.0143	0.0137
Mercury	71142-06-29 02:53 G	27705320.53	27705320.62	27705320.73	0.0143	0.0111
Mercury	71142-09-25 08:39 G	27705408.73	27705408.86	27705408.99	0.0143	0.0086
Mercury	71142-12-22 14:10 G	27705496.95	27705497.09	27705497.25	0.0143	0.0060
Moon	71143-02-22 16:34 G	27705558.96	27705559.19	27705559.44	0.0143	0.0057
Earth	71143-02-22 18:00 G	27705559.02	27705559.25	27705559.49	0.0143	0.0058 *
Mercury	71143-03-20 19:55 G	27705585.18	27705585.33	27705585.49	0.0143	0.0034
Mercury	71143-06-17 01:41 G	27705673.41	27705673.57	27705673.74	0.0143	0.0009
Mercury	71143-09-13 07:27 G	27705761.65	27705761.81	27705761.98	0.0143	0.0019
Mercury	71143-12-10 13:27 G	27705849.90	27705850.06	27705850.22	0.0143	0.0045
Earth	71144-02-27 18:29 G	27705929.11	27705929.27	27705929.46	0.0143	0.0106
Moon	71144-02-27 18:29 G	27705929.12	27705929.27	27705929.46	0.0143	0.0102 *
Mercury	71144-03-07 19:12 G	27705938.16	27705938.30	27705938.45	0.0143	0.0072
Mercury	71144-06-04 00:58 G	27706026.43	27706026.54	27706026.67	0.0143	0.0099
Mercury	71144-08-31 07:12 G	27706114.72	27706114.80	27706114.88	0.0143	0.0125
Mars	71162-02-17 04:05 G	27712493.52	27712493.67	27712493.87	0.0136	0.0111
Venus	71180-10-18 21:36 G	27719312.31	27719312.40	27719312.52	0.0134	0.0118
Venus	71181-06-02 03:22 G	27719538.48	27719538.64	27719538.82	0.0134	0.0085
Venus	71182-01-14 09:07 G	27719764.68	27719764.88	27719765.08	0.0134	0.0052

Jupiter	71182-06-05 22:19 G	27719907.16	27719907.43	27719907.79	0.0134	0.0104
Moon	71182-08-06 23:17 G	27719969.30	27719969.47	27719969.67	0.0134	0.0095
Earth	71182-08-07 01:12 G	27719969.39	27719969.55	27719969.74	0.0134	0.0096 *
Venus	71182-08-28 14:39 G	27719990.90	27719991.11	27719991.33	0.0134	0.0020
Venus	71183-04-11 20:24 G	27720217.14	27720217.35	27720217.57	0.0135	0.0014
Earth	71183-08-11 07:41 G	27720338.60	27720338.82	27720339.06	0.0135	0.0057
Moon	71183-08-11 08:53 G	27720338.67	27720338.87	27720339.10	0.0135	0.0063 *
Venus	71183-11-24 02:10 G	27720443.39	27720443.59	27720443.80	0.0135	0.0047
Venus	71184-07-07 08:10 G	27720669.67	27720669.84	27720670.02	0.0135	0.0080
Moon	71184-08-14 13:12 G	27720707.79	27720708.05	27720708.30	0.0135	0.0011
Earth	71184-08-14 14:24 G	27720707.86	27720708.10	27720708.35	0.0135	0.0018 *
Venus	71185-02-18 13:41 G	27720895.97	27720896.07	27720896.20	0.0135	0.0114
Mercury	71185-07-06 18:29 G	27721034.21	27721034.27	27721034.34	0.0135	0.0120
Earth	71185-08-18 21:22 G	27721077.15	27721077.39	27721077.64	0.0135	0.0022
Moon	71185-08-18 22:48 G	27721077.21	27721077.45	27721077.69	0.0135	0.0015 *
Mercury	71185-10-02 22:34 G	27721122.35	27721122.44	27721122.56	0.0135	0.0100
Mercury	71185-12-30 03:07 G	27721210.51	27721210.63	27721210.76	0.0135	0.0079
Mercury	71186-03-28 07:27 G	27721298.68	27721298.81	27721298.95	0.0135	0.0058
Mercury	71186-06-24 11:46 G	27721386.85	27721386.99	27721387.14	0.0135	0.0037
Moon	71186-08-23 03:36 G	27721446.44	27721446.65	27721446.89	0.0135	0.0067
Earth	71186-08-23 04:34 G	27721446.47	27721446.69	27721446.92	0.0135	0.0061 *
Mercury	71186-09-20 16:05 G	27721475.02	27721475.17	27721475.32	0.0135	0.0017
Mercury	71186-12-17 20:10 G	27721563.19	27721563.34	27721563.49	0.0135	0.0004
Mercury	71187-03-16 00:15 G	27721651.37	27721651.51	27721651.66	0.0135	0.0025
Mercury	71187-06-12 04:19 G	27721739.55	27721739.68	27721739.83	0.0136	0.0045
Earth	71187-08-27 12:00 G	27721815.85	27721816.00	27721816.19	0.0136	0.0102
Moon	71187-08-27 13:12 G	27721815.90	27721816.05	27721816.24	0.0136	0.0098 *
Mercury	71187-09-08 08:24 G	27721827.73	27721827.85	27721827.99	0.0136	0.0065
Mercury	71187-12-05 12:29 G	27721915.92	27721916.02	27721916.15	0.0136	0.0085
Mercury	71188-03-02 16:48 G	27722004.11	27722004.20	27722004.29	0.0136	0.0104

Mercury	71188-05-29 20:39 G	27722092.31	27722092.36	27722092.43	0.0136	0.0124
Venus	71222-04-30 18:58 G	27734481.16	27734481.29	27734481.43	0.0144	0.0112
Venus	71222-12-13 07:12 G	27734707.61	27734707.80	27734707.99	0.0144	0.0071
Moon	71223-02-03 18:58 G	27734760.19	27734760.29	27734760.42	0.0144	0.0127
Earth	71223-02-03 22:34 G	27734760.36	27734760.44	27734760.56	0.0144	0.0132 *
Venus	71223-07-27 19:12 G	27734934.09	27734934.30	27734934.51	0.0144	0.0030
Earth	71224-02-09 01:27 G	27735130.36	27735130.56	27735130.78	0.0144	0.0083
Moon	71224-02-09 04:34 G	27735130.51	27735130.69	27735130.90	0.0144	0.0090 *
Venus	71224-03-10 06:58 G	27735160.58	27735160.79	27735161.01	0.0144	0.0011
Venus	71224-10-22 18:43 G	27735387.08	27735387.28	27735387.49	0.0144	0.0052
Moon	71225-02-13 01:27 G	27735500.31	27735500.56	27735500.83	0.0144	0.0026
Earth	71225-02-13 04:05 G	27735500.43	27735500.67	27735500.93	0.0144	0.0033 *
Venus	71225-06-06 06:15 G	27735613.60	27735613.76	27735613.94	0.0143	0.0093
Venus	71226-01-18 18:00 G	27735840.17	27735840.25	27735840.33	0.0143	0.0133
Earth	71226-02-18 06:00 G	27735870.50	27735870.75	27735871.01	0.0143	0.0017
Moon	71226-02-18 08:24 G	27735870.61	27735870.85	27735871.11	0.0143	0.0012 *
Mercury	71226-04-22 05:31 G	27735933.66	27735933.73	27735933.80	0.0143	0.0126
Mercury	71226-07-19 11:03 G	27736021.85	27736021.96	27736022.08	0.0143	0.0100
Mercury	71226-10-15 16:34 G	27736110.06	27736110.19	27736110.33	0.0143	0.0075
Mercury	71227-01-11 22:19 G	27736198.28	27736198.43	27736198.58	0.0143	0.0049
Moon	71227-02-23 05:46 G	27736240.52	27736240.74	27736240.99	0.0143	0.0065
Earth	71227-02-23 07:12 G	27736240.58	27736240.80	27736241.04	0.0143	0.0065 *
Mercury	71227-04-10 04:05 G	27736286.51	27736286.67	27736286.83	0.0143	0.0023
Mercury	71227-07-07 09:51 G	27736374.75	27736374.91	27736375.07	0.0143	0.0003
Mercury	71227-10-03 15:36 G	27736462.99	27736463.15	27736463.31	0.0143	0.0029
Mercury	71227-12-30 21:22 G	27736551.24	27736551.39	27736551.54	0.0143	0.0056
Earth	71228-02-28 07:41 G	27736610.68	27736610.82	27736610.99	0.0143	0.0113
Moon	71228-02-28 08:53 G	27736610.74	27736610.87	27736611.02	0.0143	0.0117 *
Mercury	71228-03-28 03:07 G	27736639.50	27736639.63	27736639.77	0.0143	0.0083
Mercury	71228-06-24 08:53 G	27736727.78	27736727.87	27736727.99	0.0143	0.0110

Mercury	71228-09-20 14:53 G	27736816.09	27736816.12	27736816.18	0.0143	0.0137
Mars	71244-11-11 12:58 G	27742711.95	27742712.04	27742712.16	0.0137	0.0127
Venus	71264-06-18 10:05 G	27749870.88	27749870.92	27749870.98	0.0134	0.0130
Venus	71265-01-30 15:22 G	27750097.01	27750097.14	27750097.30	0.0134	0.0098
Earth	71265-08-03 09:22 G	27750281.83	27750281.89	27750281.98	0.0134	0.0127
Moon	71265-08-03 11:46 G	27750281.94	27750281.99	27750282.06	0.0134	0.0129 *
Venus	71265-09-13 20:53 G	27750323.20	27750323.37	27750323.57	0.0134	0.0066
Venus	71266-04-28 02:53 G	27750549.41	27750549.62	27750549.83	0.0134	0.0032
Moon	71266-08-07 13:41 G	27750650.89	27750651.07	27750651.27	0.0134	0.0091
Earth	71266-08-07 15:22 G	27750650.97	27750651.14	27750651.34	0.0134	0.0089 *
Venus	71266-12-10 08:39 G	27750775.64	27750775.86	27750776.07	0.0134	0.0002
Venus	71267-07-24 14:10 G	27751001.89	27751002.09	27751002.31	0.0135	0.0034
Earth	71267-08-11 21:51 G	27751020.18	27751020.41	27751020.65	0.0135	0.0051
Moon	71267-08-12 00:00 G	27751020.27	27751020.50	27751020.73	0.0135	0.0046 *
Venus	71268-03-06 19:41 G	27751228.15	27751228.32	27751228.52	0.0135	0.0068
Moon	71268-08-15 02:39 G	27751389.35	27751389.61	27751389.87	0.0135	0.0017
Earth	71268-08-15 04:34 G	27751389.44	27751389.69	27751389.94	0.0135	0.0011 *
Venus	71268-10-19 01:27 G	27751454.43	27751454.56	27751454.72	0.0135	0.0101
Mercury	71269-04-29 21:51 G	27751647.39	27751647.41	27751647.45	0.0135	0.0132
Venus	71269-06-02 07:27 G	27751680.81	27751680.81	27751680.85	0.0135	0.0134
Mercury	71269-07-27 02:10 G	27751735.52	27751735.59	27751735.69	0.0135	0.0111
Earth	71269-08-19 11:03 G	27751758.72	27751758.96	27751759.21	0.0135	0.0028
Moon	71269-08-19 12:29 G	27751758.80	27751759.02	27751759.27	0.0135	0.0036 *
Mercury	71269-10-23 06:43 G	27751823.67	27751823.78	27751823.90	0.0135	0.0090
Mercury	71270-01-19 11:03 G	27751911.83	27751911.96	27751912.09	0.0135	0.0069
Mercury	71270-04-17 15:22 G	27752000.00	27752000.14	27752000.28	0.0135	0.0049
Mercury	71270-07-14 19:41 G	27752088.17	27752088.32	27752088.47	0.0135	0.0028
Moon	71270-08-23 16:05 G	27752127.96	27752128.17	27752128.42	0.0135	0.0062
Earth	71270-08-23 18:00 G	27752128.05	27752128.25	27752128.49	0.0135	0.0069 *
Mercury	71270-10-10 23:46 G	27752176.34	27752176.49	27752176.65	0.0135	0.0009

Mercury	71271-01-07 04:05 G	27752264.52	27752264.67	27752264.82	0.0135	0.0013
Mercury	71271-04-05 08:10 G	27752352.70	27752352.84	27752352.99	0.0135	0.0033
Mercury	71271-07-02 12:15 G	27752440.88	27752441.01	27752441.15	0.0135	0.0053
Earth	71271-08-28 01:41 G	27752497.44	27752497.57	27752497.74	0.0136	0.0108
Moon	71271-08-28 02:53 G	27752497.50	27752497.62	27752497.78	0.0136	0.0112 *
Mercury	71271-09-28 16:19 G	27752529.06	27752529.18	27752529.31	0.0136	0.0073
Mercury	71271-12-25 20:39 G	27752617.25	27752617.36	27752617.46	0.0136	0.0093
Mercury	71272-03-23 00:29 G	27752705.45	27752705.52	27752705.61	0.0136	0.0113
Mercury	71272-06-19 04:19 G	27752793.67	27752793.68	27752793.72	0.0136	0.0133
Mars	71289-02-25 07:41 G	27758888.49	27758888.82	27758889.14	0.0142	0.0009
Venus	71305-12-30 01:12 G	27765039.47	27765039.55	27765039.65	0.0144	0.0131
Venus	71306-08-13 13:27 G	27765265.90	27765266.06	27765266.24	0.0144	0.0090
Moon	71307-02-05 05:17 G	27765441.63	27765441.72	27765441.86	0.0144	0.0129
Earth	71307-02-05 08:53 G	27765441.77	27765441.87	27765442.02	0.0144	0.0126 *
Venus	71307-03-28 01:27 G	27765492.37	27765492.56	27765492.78	0.0144	0.0049
Venus	71307-11-09 13:41 G	27765718.86	27765719.07	27765719.29	0.0144	0.0008
Earth	71308-02-10 11:46 G	27765811.79	27765811.99	27765812.23	0.0144	0.0077
Moon	71308-02-10 15:22 G	27765811.93	27765812.14	27765812.38	0.0144	0.0069 *
Venus	71308-06-23 01:27 G	27765945.36	27765945.56	27765945.78	0.0144	0.0034
Venus	71309-02-04 12:58 G	27766171.87	27766172.04	27766172.24	0.0144	0.0075
Moon	71309-02-14 11:17 G	27766181.73	27766181.97	27766182.24	0.0144	0.0035
Earth	71309-02-14 14:53 G	27766181.87	27766182.12	27766182.37	0.0144	0.0027 *
Venus	71309-09-19 00:43 G	27766398.41	27766398.53	27766398.67	0.0143	0.0115
Mercury	71310-02-14 07:12 G	27766546.80	27766546.80	27766546.82	0.0143	0.0143
Earth	71310-02-19 16:48 G	27766551.95	27766552.20	27766552.45	0.0143	0.0022
Moon	71310-02-19 18:58 G	27766552.05	27766552.29	27766552.55	0.0143	0.0028 *
Mercury	71310-05-13 12:43 G	27766634.95	27766635.03	27766635.13	0.0143	0.0118
Mercury	71310-08-09 18:15 G	27766723.15	27766723.26	27766723.39	0.0143	0.0092
Mercury	71310-11-06 00:00 G	27766811.36	27766811.50	27766811.65	0.0143	0.0066
Mercury	71311-02-02 05:46 G	27766899.58	27766899.74	27766899.90	0.0143	0.0040

Moon	71311-02-24 15:07 G	27766921.92	27766922.13	27766922.38	0.0143	0.0069
Earth	71311-02-24 17:46 G	27766922.03	27766922.24	27766922.48	0.0143	0.0071 *
Mercury	71311-05-01 11:31 G	27766987.82	27766987.98	27766988.14	0.0143	0.0014
Mercury	71311-07-28 17:17 G	27767076.06	27767076.22	27767076.38	0.0143	0.0012
Mercury	71311-10-24 23:03 G	27767164.30	27767164.46	27767164.62	0.0143	0.0038
Mercury	71312-01-21 04:48 G	27767252.56	27767252.70	27767252.85	0.0143	0.0065
Earth	71312-02-29 18:15 G	27767292.14	27767292.26	27767292.42	0.0143	0.0119
Moon	71312-02-29 19:55 G	27767292.19	27767292.33	27767292.48	0.0143	0.0115 *
Mercury	71312-04-18 10:48 G	27767340.82	27767340.95	27767341.07	0.0143	0.0091
Mercury	71312-07-15 16:34 G	27767429.10	27767429.19	27767429.29	0.0143	0.0118
Mars	71329-07-08 07:41 G	27773630.54	27773630.82	27773631.12	0.0136	0.0028
Venus	71348-10-01 03:51 G	27780655.55	27780655.66	27780655.79	0.0134	0.0110
Venus	71349-05-15 09:22 G	27780881.73	27780881.89	27780882.08	0.0134	0.0078
Earth	71349-08-04 23:31 G	27780963.39	27780963.48	27780963.61	0.0134	0.0121
Moon	71349-08-05 02:10 G	27780963.48	27780963.59	27780963.70	0.0134	0.0120 *
Venus	71349-12-27 15:07 G	27781107.93	27781108.13	27781108.34	0.0134	0.0045
Moon	71350-08-09 02:53 G	27781332.43	27781332.62	27781332.84	0.0134	0.0082
Earth	71350-08-09 05:31 G	27781332.55	27781332.73	27781332.95	0.0134	0.0083 *
Venus	71350-08-10 20:39 G	27781334.15	27781334.36	27781334.58	0.0134	0.0012
Venus	71351-03-25 02:10 G	27781560.38	27781560.59	27781560.81	0.0134	0.0022
Earth	71351-08-13 12:00 G	27781701.77	27781702.00	27781702.25	0.0135	0.0043
Moon	71351-08-13 14:10 G	27781701.87	27781702.09	27781702.32	0.0135	0.0048 *
Venus	71351-11-06 07:55 G	27781786.64	27781786.83	27781787.04	0.0135	0.0054
Venus	71352-06-19 13:41 G	27782012.92	27782013.07	27782013.25	0.0135	0.0088
Moon	71352-08-16 16:19 G	27782070.92	27782071.18	27782071.43	0.0135	0.0003
Earth	71352-08-16 18:29 G	27782071.02	27782071.27	27782071.53	0.0135	0.0005 *
Venus	71353-01-31 19:27 G	27782239.23	27782239.31	27782239.42	0.0135	0.0121
Mercury	71353-05-21 05:46 G	27782348.69	27782348.74	27782348.81	0.0135	0.0122
Mercury	71353-08-17 10:05 G	27782436.83	27782436.92	27782437.03	0.0135	0.0101
Earth	71353-08-21 01:12 G	27782440.31	27782440.55	27782440.80	0.0135	0.0035

Moon	71353-08-21 03:36 G	27782440.41	27782440.65	27782440.89	0.0135	0.0028	*
Mercury	71353-11-13 14:39 G	27782524.99	27782525.11	27782525.24	0.0135	0.0080	
Mercury	71354-02-09 18:58 G	27782613.16	27782613.29	27782613.43	0.0135	0.0059	
Mercury	71354-05-08 23:17 G	27782701.33	27782701.47	27782701.62	0.0135	0.0039	
Mercury	71354-08-05 03:36 G	27782789.50	27782789.65	27782789.80	0.0135	0.0018	
Moon	71354-08-25 06:15 G	27782809.57	27782809.76	27782809.99	0.0135	0.0081	
Earth	71354-08-25 08:24 G	27782809.65	27782809.85	27782810.07	0.0135	0.0075	*
Mercury	71354-11-01 07:41 G	27782877.67	27782877.82	27782877.97	0.0135	0.0004	
Mercury	71355-01-28 12:00 G	27782965.85	27782966.00	27782966.15	0.0135	0.0022	
Mercury	71355-04-26 16:05 G	27783054.03	27783054.17	27783054.31	0.0135	0.0043	
Mercury	71355-07-23 20:10 G	27783142.21	27783142.34	27783142.48	0.0135	0.0063	
Earth	71355-08-29 15:36 G	27783179.04	27783179.15	27783179.30	0.0135	0.0115	
Moon	71355-08-29 17:46 G	27783179.12	27783179.24	27783179.40	0.0135	0.0110	*
Mercury	71355-10-20 00:15 G	27783230.40	27783230.51	27783230.63	0.0136	0.0083	
Mercury	71356-01-16 04:19 G	27783318.59	27783318.68	27783318.78	0.0136	0.0103	
Mercury	71356-04-13 08:10 G	27783406.79	27783406.84	27783406.92	0.0136	0.0123	
Venus	71390-04-12 21:07 G	27795824.25	27795824.38	27795824.54	0.0144	0.0108	
Venus	71390-11-25 09:36 G	27796050.72	27796050.90	27796051.10	0.0144	0.0067	
Moon	71391-02-05 17:46 G	27796123.11	27796123.24	27796123.41	0.0144	0.0115	
Earth	71391-02-05 21:51 G	27796123.27	27796123.41	27796123.56	0.0144	0.0118	*
Venus	71391-07-09 21:51 G	27796277.19	27796277.41	27796277.62	0.0144	0.0025	
Earth	71392-02-11 00:43 G	27796493.31	27796493.53	27796493.76	0.0144	0.0069	
Moon	71392-02-11 04:05 G	27796493.47	27796493.67	27796493.90	0.0144	0.0076	*
Venus	71392-02-21 09:36 G	27796503.69	27796503.90	27796504.12	0.0144	0.0016	
Venus	71392-10-04 21:22 G	27796730.19	27796730.39	27796730.59	0.0144	0.0057	
Moon	71393-02-15 00:00 G	27796863.24	27796863.50	27796863.76	0.0144	0.0012	
Earth	71393-02-15 03:22 G	27796863.39	27796863.64	27796863.90	0.0144	0.0020	*
Venus	71393-05-19 08:53 G	27796956.72	27796956.87	27796957.04	0.0144	0.0098	
Venus	71393-12-31 20:24 G	27797183.31	27797183.35	27797183.42	0.0143	0.0138	
Earth	71394-02-20 05:03 G	27797233.46	27797233.71	27797233.97	0.0143	0.0030	

Moon	71394-02-20 08:24 G	27797233.60	27797233.85	27797234.10	0.0143	0.0023	*
Mercury	71394-03-06 15:07 G	27797248.08	27797248.13	27797248.19	0.0143	0.0132	
Mercury	71394-06-02 20:39 G	27797336.26	27797336.36	27797336.47	0.0143	0.0107	
Mercury	71394-08-30 02:24 G	27797424.47	27797424.60	27797424.73	0.0143	0.0082	
Mercury	71394-11-26 07:55 G	27797512.68	27797512.83	27797512.98	0.0143	0.0056	
Mercury	71395-02-22 13:41 G	27797600.91	27797601.07	27797601.23	0.0143	0.0030	
Moon	71395-02-25 03:51 G	27797603.45	27797603.66	27797603.89	0.0143	0.0079	
Earth	71395-02-25 06:15 G	27797603.56	27797603.76	27797603.99	0.0143	0.0078	*
Mercury	71395-05-21 19:27 G	27797689.14	27797689.31	27797689.47	0.0143	0.0006	
Mercury	71395-08-18 00:58 G	27797777.38	27797777.54	27797777.71	0.0143	0.0023	
Mercury	71395-11-14 06:43 G	27797865.63	27797865.78	27797865.94	0.0143	0.0049	
Mercury	71396-02-10 12:43 G	27797953.89	27797954.03	27797954.17	0.0143	0.0075	
Earth	71396-03-01 07:12 G	27797973.68	27797973.80	27797973.92	0.0143	0.0125	
Moon	71396-03-01 08:53 G	27797973.79	27797973.87	27797974.00	0.0143	0.0129	*
Mercury	71396-05-08 18:29 G	27798042.16	27798042.27	27798042.39	0.0143	0.0102	
Mercury	71396-08-05 00:15 G	27798130.45	27798130.51	27798130.59	0.0143	0.0129	
Venus	71432-06-01 16:34 G	27811214.11	27811214.19	27811214.28	0.0134	0.0122	
Venus	71433-01-13 21:51 G	27811440.26	27811440.41	27811440.58	0.0134	0.0090	
Earth	71433-08-06 13:55 G	27811644.97	27811645.08	27811645.23	0.0134	0.0114	
Moon	71433-08-06 16:48 G	27811645.10	27811645.20	27811645.34	0.0134	0.0117	*
Venus	71433-08-28 03:22 G	27811666.45	27811666.64	27811666.84	0.0134	0.0058	
Venus	71434-04-11 08:53 G	27811892.66	27811892.87	27811893.09	0.0134	0.0025	
Moon	71434-08-10 17:31 G	27812014.03	27812014.23	27812014.45	0.0134	0.0077	
Earth	71434-08-10 19:55 G	27812014.14	27812014.33	27812014.55	0.0134	0.0075	*
Venus	71434-11-23 14:39 G	27812118.89	27812119.11	27812119.32	0.0134	0.0009	
Venus	71435-07-07 20:10 G	27812345.14	27812345.34	27812345.55	0.0134	0.0042	
Earth	71435-08-15 02:10 G	27812383.35	27812383.59	27812383.84	0.0135	0.0036	
Moon	71435-08-15 04:48 G	27812383.48	27812383.70	27812383.95	0.0135	0.0033	*
Venus	71436-02-19 01:55 G	27812571.40	27812571.58	27812571.76	0.0135	0.0075	
Moon	71436-08-18 06:00 G	27812752.50	27812752.75	27812753.01	0.0135	0.0003	

Earth	71436-08-18 08:39 G	27812752.61	27812752.86	27812753.12	0.0135	0.0004	*
Venus	71436-10-02 07:41 G	27812797.69	27812797.82	27812797.95	0.0135	0.0108	
Mercury	71437-03-15 09:22 G	27812961.88	27812961.89	27812961.92	0.0135	0.0133	
Mercury	71437-06-11 13:41 G	27813050.00	27813050.07	27813050.16	0.0135	0.0112	
Earth	71437-08-22 15:07 G	27813121.90	27813122.13	27813122.38	0.0135	0.0042	
Moon	71437-08-22 17:31 G	27813122.01	27813122.23	27813122.47	0.0135	0.0050	*
Mercury	71437-09-07 18:15 G	27813138.15	27813138.26	27813138.37	0.0135	0.0091	
Mercury	71437-12-04 22:34 G	27813226.31	27813226.44	27813226.57	0.0135	0.0070	
Mercury	71438-03-03 02:53 G	27813314.48	27813314.62	27813314.76	0.0135	0.0050	
Mercury	71438-05-30 07:12 G	27813402.65	27813402.80	27813402.95	0.0135	0.0029	
Mercury	71438-08-26 11:31 G	27813490.83	27813490.98	27813491.13	0.0135	0.0009	
Moon	71438-08-26 19:27 G	27813491.11	27813491.31	27813491.54	0.0135	0.0075	*
Earth	71438-08-26 22:34 G	27813491.24	27813491.44	27813491.64	0.0135	0.0081	*
Mercury	71438-11-22 15:36 G	27813579.00	27813579.15	27813579.30	0.0135	0.0012	
Mercury	71439-02-18 19:41 G	27813667.18	27813667.32	27813667.47	0.0135	0.0033	
Mercury	71439-05-18 00:00 G	27813755.36	27813755.50	27813755.64	0.0135	0.0052	
Mercury	71439-08-14 04:05 G	27813843.55	27813843.67	27813843.80	0.0135	0.0072	
Earth	71439-08-31 06:00 G	27813860.65	27813860.75	27813860.87	0.0135	0.0121	
Moon	71439-08-31 07:55 G	27813860.75	27813860.83	27813860.93	0.0135	0.0126	*
Mercury	71439-11-10 07:55 G	27813931.74	27813931.83	27813931.95	0.0135	0.0093	
Mercury	71440-02-06 12:15 G	27814019.93	27814020.01	27814020.10	0.0136	0.0112	
Mercury	71440-05-04 16:19 G	27814108.15	27814108.18	27814108.22	0.0136	0.0132	
Mars	71456-07-15 13:12 G	27820023.90	27820024.05	27820024.25	0.0141	0.0119	
Venus	71473-12-12 04:05 G	27826382.58	27826382.67	27826382.79	0.0144	0.0127	
Venus	71474-07-26 16:19 G	27826609.02	27826609.18	27826609.37	0.0144	0.0085	
Moon	71475-02-07 05:31 G	27826804.58	27826804.73	27826804.88	0.0144	0.0114	
Earth	71475-02-07 08:39 G	27826804.71	27826804.86	27826805.03	0.0144	0.0112	*
Venus	71475-03-10 04:34 G	27826835.48	27826835.69	27826835.90	0.0144	0.0044	
Venus	71475-10-22 16:34 G	27827061.97	27827062.19	27827062.41	0.0144	0.0003	
Earth	71476-02-12 11:31 G	27827174.76	27827174.98	27827175.22	0.0144	0.0063	

Moon	71476-02-12 15:07 G	27827174.91	27827175.13	27827175.38	0.0144	0.0056 *
Venus	71476-06-05 04:19 G	27827288.47	27827288.68	27827288.90	0.0144	0.0039
Venus	71477-01-17 15:51 G	27827514.99	27827515.16	27827515.35	0.0144	0.0080
Moon	71477-02-16 10:19 G	27827544.69	27827544.93	27827545.20	0.0144	0.0022
Earth	71477-02-16 14:10 G	27827544.84	27827545.09	27827545.35	0.0144	0.0013 *
Venus	71477-09-01 03:36 G	27827741.54	27827741.65	27827741.77	0.0144	0.0120
Earth	71478-02-21 15:51 G	27827914.92	27827915.16	27827915.42	0.0143	0.0036
Moon	71478-02-21 18:58 G	27827915.06	27827915.29	27827915.54	0.0143	0.0041 *
Mercury	71478-03-27 22:19 G	27827949.37	27827949.43	27827949.52	0.0143	0.0125
Mercury	71478-06-24 04:05 G	27828037.56	27828037.67	27828037.79	0.0143	0.0099
Mercury	71478-09-20 09:36 G	27828125.77	27828125.90	27828126.05	0.0143	0.0073
Mercury	71478-12-17 15:22 G	27828213.99	27828214.14	27828214.29	0.0143	0.0047
Moon	71479-02-26 13:41 G	27828284.87	27828285.07	27828285.30	0.0143	0.0081
Earth	71479-02-26 16:48 G	27828285.01	27828285.20	27828285.43	0.0143	0.0085 *
Mercury	71479-03-15 21:07 G	27828302.22	27828302.38	27828302.54	0.0143	0.0022
Mercury	71479-06-12 02:39 G	27828390.45	27828390.61	27828390.78	0.0143	0.0006
Mercury	71479-09-08 08:24 G	27828478.70	27828478.85	27828479.01	0.0143	0.0031
Mercury	71479-12-05 14:24 G	27828566.95	27828567.10	27828567.25	0.0143	0.0057
Earth	71480-03-02 17:46 G	27828655.15	27828655.24	27828655.35	0.0143	0.0131
Mercury	71480-03-02 19:55 G	27828655.21	27828655.33	27828655.47	0.0143	0.0084 *
Moon	71480-03-02 19:55 G	27828655.24	27828655.33	27828655.45	0.0143	0.0129 *
Mercury	71480-05-30 01:41 G	27828743.48	27828743.57	27828743.69	0.0143	0.0111
Mercury	71480-08-26 07:55 G	27828831.79	27828831.83	27828831.87	0.0143	0.0137
Mars	71496-11-26 11:03 G	27834767.70	27834767.96	27834768.23	0.0137	0.0056
Venus	71516-09-14 10:05 G	27841998.78	27841998.92	27841999.06	0.0134	0.0103
Venus	71517-04-28 15:22 G	27842224.97	27842225.14	27842225.33	0.0134	0.0070
Earth	71517-08-08 04:05 G	27842326.53	27842326.67	27842326.83	0.0134	0.0107
Moon	71517-08-08 06:43 G	27842326.64	27842326.78	27842326.95	0.0134	0.0106 *
Venus	71517-12-10 20:53 G	27842451.17	27842451.37	27842451.59	0.0134	0.0038
Venus	71518-07-25 02:39 G	27842677.39	27842677.61	27842677.83	0.0134	0.0004

Moon	71518-08-12 06:29 G	27842695.57	27842695.77	27842696.00	0.0134	0.0069
Earth	71518-08-12 09:51 G	27842695.71	27842695.91	27842696.14	0.0134	0.0069 *
Venus	71519-03-08 08:10 G	27842903.63	27842903.84	27842904.05	0.0134	0.0029
Earth	71519-08-16 16:05 G	27843064.93	27843065.17	27843065.42	0.0135	0.0030
Moon	71519-08-16 18:58 G	27843065.05	27843065.29	27843065.53	0.0135	0.0034 *
Venus	71519-10-20 13:41 G	27843129.88	27843130.07	27843130.27	0.0135	0.0062
Venus	71520-06-02 19:41 G	27843356.17	27843356.32	27843356.47	0.0135	0.0095
Moon	71520-08-19 19:27 G	27843434.05	27843434.31	27843434.56	0.0135	0.0016
Earth	71520-08-19 22:19 G	27843434.19	27843434.43	27843434.69	0.0135	0.0010 *
Venus	71521-01-15 01:27 G	27843582.50	27843582.56	27843582.62	0.0135	0.0128
Mercury	71521-04-05 17:31 G	27843663.17	27843663.23	27843663.29	0.0135	0.0123
Mercury	71521-07-02 21:51 G	27843751.31	27843751.41	27843751.51	0.0135	0.0102
Earth	71521-08-24 04:48 G	27843803.48	27843803.70	27843803.95	0.0135	0.0049
Moon	71521-08-24 07:55 G	27843803.60	27843803.83	27843804.07	0.0135	0.0042 *
Mercury	71521-09-29 01:55 G	27843839.47	27843839.58	27843839.71	0.0135	0.0082
Mercury	71521-12-26 06:15 G	27843927.63	27843927.76	27843927.91	0.0135	0.0061
Mercury	71522-03-24 10:48 G	27844015.80	27844015.95	27844016.09	0.0135	0.0040
Mercury	71522-06-20 14:53 G	27844103.98	27844104.12	27844104.28	0.0135	0.0021
Moon	71522-08-28 09:51 G	27844172.73	27844172.91	27844173.09	0.0135	0.0095
Earth	71522-08-28 12:00 G	27844172.83	27844173.00	27844173.21	0.0135	0.0088 *
Mercury	71522-09-16 19:12 G	27844192.15	27844192.30	27844192.46	0.0135	0.0003
Mercury	71522-12-13 23:31 G	27844280.33	27844280.48	27844280.63	0.0135	0.0021
Mercury	71523-03-12 03:36 G	27844368.51	27844368.65	27844368.80	0.0135	0.0041
Mercury	71523-06-08 07:41 G	27844456.69	27844456.82	27844456.96	0.0135	0.0062
Earth	71523-09-01 19:27 G	27844542.25	27844542.31	27844542.41	0.0135	0.0128
Moon	71523-09-01 22:34 G	27844542.35	27844542.44	27844542.56	0.0135	0.0122 *
Mercury	71523-09-04 12:00 G	27844544.88	27844545.00	27844545.12	0.0135	0.0081
Mercury	71523-12-01 15:51 G	27844633.07	27844633.16	27844633.27	0.0135	0.0102
Mercury	71524-02-27 19:55 G	27844721.28	27844721.33	27844721.40	0.0136	0.0122
Mars	71541-03-12 19:12 G	27850944.04	27850944.30	27850944.58	0.0142	0.0077

Venus	71557-08-12 12:15 G	27856941.00	27856941.01	27856941.05	0.0144	0.0143
Venus	71558-03-27 00:29 G	27857167.38	27857167.52	27857167.69	0.0144	0.0102
Venus	71558-11-08 12:43 G	27857393.84	27857394.03	27857394.24	0.0144	0.0061
Moon	71559-02-08 18:15 G	27857486.10	27857486.26	27857486.45	0.0144	0.0103
Earth	71559-02-08 21:51 G	27857486.25	27857486.41	27857486.60	0.0144	0.0105 *
Venus	71559-06-23 00:58 G	27857620.32	27857620.54	27857620.76	0.0144	0.0019
Venus	71560-02-04 12:43 G	27857846.82	27857847.03	27857847.25	0.0144	0.0022
Earth	71560-02-14 00:43 G	27857856.30	27857856.53	27857856.78	0.0144	0.0056
Moon	71560-02-14 04:19 G	27857856.45	27857856.68	27857856.92	0.0144	0.0062 *
Venus	71560-09-18 00:15 G	27858073.33	27858073.51	27858073.72	0.0144	0.0063
Moon	71561-02-17 23:46 G	27858226.23	27858226.49	27858226.75	0.0144	0.0002
Earth	71561-02-18 03:22 G	27858226.39	27858226.64	27858226.90	0.0144	0.0007 *
Venus	71561-05-02 11:46 G	27858299.86	27858299.99	27858300.16	0.0144	0.0104
Venus	71561-12-14 23:46 G	27858526.49	27858526.49	27858526.50	0.0143	0.0143
Mercury	71562-01-20 00:58 G	27858562.51	27858562.54	27858562.58	0.0143	0.0139
Earth	71562-02-23 04:48 G	27858596.46	27858596.70	27858596.95	0.0143	0.0043
Moon	71562-02-23 08:24 G	27858596.61	27858596.85	27858597.11	0.0143	0.0036 *
Mercury	71562-04-18 06:29 G	27858650.68	27858650.77	27858650.87	0.0143	0.0114
Mercury	71562-07-15 12:00 G	27858738.88	27858739.00	27858739.13	0.0143	0.0088
Mercury	71562-10-11 17:46 G	27858827.09	27858827.24	27858827.38	0.0143	0.0063
Mercury	71563-01-07 23:17 G	27858915.32	27858915.47	27858915.63	0.0143	0.0037
Moon	71563-02-28 03:22 G	27858966.44	27858966.64	27858966.84	0.0143	0.0093
Earth	71563-02-28 06:15 G	27858966.57	27858966.76	27858966.97	0.0143	0.0091 *
Mercury	71563-04-06 05:03 G	27859003.55	27859003.71	27859003.87	0.0143	0.0011
Mercury	71563-07-03 10:48 G	27859091.79	27859091.95	27859092.11	0.0143	0.0015
Mercury	71563-09-29 16:19 G	27859180.03	27859180.18	27859180.34	0.0143	0.0042
Mercury	71563-12-26 22:19 G	27859268.28	27859268.43	27859268.57	0.0143	0.0068
Earth	71564-03-04 06:43 G	27859336.74	27859336.78	27859336.87	0.0143	0.0138
Moon	71564-03-04 09:51 G	27859336.88	27859336.91	27859336.98	0.0143	0.0140
Mercury	71564-03-24 03:51 G	27859356.55	27859356.66	27859356.80	0.0143	0.0095

Mercury	71564-06-20 09:51 G	27859444.83	27859444.91	27859445.00	0.0143	0.0122
Mars	71581-07-23 06:00 G	27865686.57	27865686.75	27865686.97	0.0136	0.0100
Venus	71600-05-14 21:51 G	27872557.32	27872557.41	27872557.54	0.0134	0.0115
Moon	71600-08-04 08:53 G	27872638.84	27872638.87	27872638.91	0.0134	0.0133
Venus	71600-12-27 03:36 G	27872783.48	27872783.65	27872783.82	0.0134	0.0082
Earth	71601-08-08 17:46 G	27873008.08	27873008.24	27873008.41	0.0134	0.0100
Moon	71601-08-08 21:22 G	27873008.24	27873008.39	27873008.55	0.0134	0.0104 *
Venus	71601-08-10 08:39 G	27873009.68	27873009.86	27873010.08	0.0134	0.0051
Venus	71602-03-24 14:24 G	27873235.89	27873236.10	27873236.32	0.0134	0.0017
Moon	71602-08-12 20:24 G	27873377.14	27873377.35	27873377.59	0.0134	0.0063
Earth	71602-08-12 23:31 G	27873377.27	27873377.48	27873377.72	0.0134	0.0063 *
Venus	71602-11-05 19:55 G	27873462.12	27873462.33	27873462.55	0.0134	0.0016
Venus	71603-06-20 01:27 G	27873688.37	27873688.56	27873688.77	0.0135	0.0050
Earth	71603-08-17 05:46 G	27873746.49	27873746.74	27873746.99	0.0135	0.0024
Moon	71603-08-17 09:07 G	27873746.64	27873746.88	27873747.13	0.0135	0.0020 *
Venus	71604-02-01 06:58 G	27873914.64	27873914.79	27873914.98	0.0135	0.0083
Moon	71604-08-20 08:53 G	27874115.62	27874115.87	27874116.13	0.0135	0.0010
Earth	71604-08-20 12:00 G	27874115.76	27874116.00	27874116.26	0.0135	0.0016 *
Venus	71604-09-14 12:43 G	27874140.93	27874141.03	27874141.15	0.0135	0.0116
Mercury	71605-04-26 01:12 G	27874364.47	27874364.55	27874364.63	0.0135	0.0114
Mercury	71605-07-23 05:31 G	27874452.63	27874452.73	27874452.85	0.0135	0.0093
Earth	71605-08-24 18:29 G	27874485.06	27874485.27	27874485.51	0.0135	0.0055
Moon	71605-08-24 21:36 G	27874485.19	27874485.40	27874485.63	0.0135	0.0063 *
Mercury	71605-10-19 10:05 G	27874540.79	27874540.92	27874541.05	0.0135	0.0072
Mercury	71606-01-15 14:10 G	27874628.96	27874629.09	27874629.24	0.0135	0.0052
Mercury	71606-04-13 18:29 G	27874717.13	27874717.27	27874717.42	0.0135	0.0031
Mercury	71606-07-10 22:48 G	27874805.30	27874805.45	27874805.60	0.0135	0.0011
Moon	71606-08-28 22:19 G	27874854.25	27874854.43	27874854.64	0.0135	0.0087
Earth	71606-08-29 01:41 G	27874854.41	27874854.57	27874854.76	0.0135	0.0095 *
Mercury	71606-10-07 03:07 G	27874893.48	27874893.63	27874893.78	0.0135	0.0010

Mercury	71607-01-03 07:12 G	27874981.66	27874981.80	27874981.95	0.0135	0.0031
Mercury	71607-04-01 11:31 G	27875069.84	27875069.98	27875070.12	0.0135	0.0050
Mercury	71607-06-28 15:36 G	27875158.03	27875158.15	27875158.28	0.0135	0.0071
Earth	71607-09-02 09:07 G	27875223.86	27875223.88	27875223.94	0.0135	0.0134
Mercury	71607-09-24 19:41 G	27875246.22	27875246.32	27875246.43	0.0135	0.0091
Mercury	71607-12-21 23:46 G	27875334.41	27875334.49	27875334.58	0.0135	0.0111
Mercury	71608-03-19 03:51 G	27875422.63	27875422.66	27875422.70	0.0136	0.0130
Venus	71641-11-24 07:41 G	27887725.71	27887725.82	27887725.95	0.0144	0.0120
Venus	71642-07-08 19:41 G	27887952.15	27887952.32	27887952.52	0.0144	0.0079
Moon	71643-02-09 06:00 G	27888167.59	27888167.75	27888167.94	0.0144	0.0101
Earth	71643-02-09 09:07 G	27888167.70	27888167.88	27888168.07	0.0144	0.0099 *
Venus	71643-02-20 07:41 G	27888178.62	27888178.82	27888179.04	0.0144	0.0038
Venus	71643-10-04 19:41 G	27888405.11	27888405.32	27888405.54	0.0144	0.0005
Earth	71644-02-14 11:46 G	27888537.76	27888537.99	27888538.24	0.0144	0.0050
Moon	71644-02-14 15:36 G	27888537.91	27888538.15	27888538.40	0.0144	0.0043 *
Venus	71644-05-18 07:27 G	27888631.61	27888631.81	27888632.02	0.0144	0.0045
Venus	71644-12-30 19:12 G	27888858.13	27888858.30	27888858.48	0.0144	0.0086
Moon	71645-02-18 10:34 G	27888907.69	27888907.94	27888908.20	0.0144	0.0009
Earth	71645-02-18 14:10 G	27888907.83	27888908.09	27888908.35	0.0144	0.0001 *
Venus	71645-08-14 06:43 G	27889084.69	27889084.78	27889084.89	0.0144	0.0126
Mercury	71646-02-09 08:24 G	27889263.79	27889263.85	27889263.92	0.0143	0.0131
Earth	71646-02-23 15:51 G	27889277.92	27889278.16	27889278.40	0.0143	0.0048
Moon	71646-02-23 19:12 G	27889278.08	27889278.30	27889278.55	0.0143	0.0055 *
Mercury	71646-05-08 13:55 G	27889351.98	27889352.08	27889352.19	0.0143	0.0105
Mercury	71646-08-04 19:41 G	27889440.18	27889440.32	27889440.45	0.0143	0.0080
Mercury	71646-11-01 00:58 G	27889528.40	27889528.54	27889528.70	0.0143	0.0055
Mercury	71647-01-28 06:43 G	27889616.62	27889616.78	27889616.94	0.0143	0.0028
Moon	71647-02-28 13:27 G	27889647.87	27889648.06	27889648.26	0.0143	0.0092
Earth	71647-02-28 17:03 G	27889648.03	27889648.21	27889648.41	0.0143	0.0096 *
Mercury	71647-04-26 12:29 G	27889704.86	27889705.02	27889705.18	0.0143	0.0002

Mercury	71647-07-23 18:15 G	27889793.10	27889793.26	27889793.42	0.0143	0.0024
Mercury	71647-10-20 00:00 G	27889881.34	27889881.50	27889881.65	0.0143	0.0050
Mercury	71648-01-16 05:31 G	27889969.60	27889969.73	27889969.88	0.0143	0.0077
Moon	71648-03-04 20:39 G	27890018.35	27890018.36	27890018.41	0.0143	0.0142
Mercury	71648-04-13 11:17 G	27890057.87	27890057.97	27890058.10	0.0143	0.0104
Mercury	71648-07-10 17:31 G	27890146.17	27890146.23	27890146.30	0.0143	0.0130
Venus	71684-01-13 10:05 G	27903115.86	27903115.92	27903115.99	0.0134	0.0128
Earth	71684-08-05 01:27 G	27903320.54	27903320.56	27903320.63	0.0134	0.0132
Venus	71684-08-26 15:07 G	27903341.99	27903342.13	27903342.29	0.0134	0.0096
Venus	71685-04-09 20:39 G	27903568.18	27903568.36	27903568.56	0.0134	0.0063
Earth	71685-08-09 06:58 G	27903689.63	27903689.79	27903689.99	0.0134	0.0095
Moon	71685-08-09 10:19 G	27903689.77	27903689.93	27903690.13	0.0134	0.0093 *
Venus	71685-11-22 02:10 G	27903794.38	27903794.59	27903794.80	0.0134	0.0030
Venus	71686-07-06 07:41 G	27904020.61	27904020.82	27904021.04	0.0134	0.0004
Moon	71686-08-13 09:07 G	27904058.67	27904058.88	27904059.13	0.0134	0.0058
Earth	71686-08-13 12:43 G	27904058.82	27904059.03	27904059.28	0.0134	0.0057 *
Venus	71687-02-17 13:12 G	27904246.84	27904247.05	27904247.26	0.0134	0.0036
Earth	71687-08-17 18:58 G	27904428.05	27904428.29	27904428.54	0.0135	0.0018
Moon	71687-08-17 22:19 G	27904428.19	27904428.43	27904428.68	0.0135	0.0021 *
Venus	71687-10-01 18:29 G	27904473.10	27904473.27	27904473.47	0.0135	0.0070
Venus	71688-05-15 00:15 G	27904699.39	27904699.51	27904699.67	0.0135	0.0103
Moon	71688-08-20 21:36 G	27904797.16	27904797.40	27904797.66	0.0135	0.0028
Earth	71688-08-21 01:12 G	27904797.31	27904797.55	27904797.81	0.0135	0.0022 *
Mercury	71689-02-17 04:34 G	27904977.64	27904977.69	27904977.75	0.0135	0.0126
Mercury	71689-05-16 08:53 G	27905065.78	27905065.87	27905065.97	0.0135	0.0105
Mercury	71689-08-12 13:27 G	27905153.94	27905154.06	27905154.18	0.0135	0.0084
Earth	71689-08-25 07:55 G	27905166.61	27905166.83	27905167.06	0.0135	0.0061
Moon	71689-08-25 11:17 G	27905166.75	27905166.97	27905167.20	0.0135	0.0054 *
Mercury	71689-11-08 17:46 G	27905242.11	27905242.24	27905242.38	0.0135	0.0063
Mercury	71690-02-04 22:05 G	27905330.28	27905330.42	27905330.57	0.0135	0.0043

Mercury	71690-05-04 02:24 G	27905418.45	27905418.60	27905418.75	0.0135	0.0022
Mercury	71690-07-31 06:43 G	27905506.63	27905506.78	27905506.93	0.0135	0.0003
Moon	71690-08-29 11:46 G	27905535.85	27905535.99	27905536.16	0.0135	0.0108
Earth	71690-08-29 15:07 G	27905535.97	27905536.13	27905536.31	0.0135	0.0100 *
Mercury	71690-10-27 10:48 G	27905594.80	27905594.95	27905595.10	0.0135	0.0019
Mercury	71691-01-23 15:07 G	27905682.98	27905683.13	27905683.27	0.0135	0.0039
Mercury	71691-04-21 19:12 G	27905771.17	27905771.30	27905771.44	0.0135	0.0059
Mercury	71691-07-18 23:17 G	27905859.36	27905859.47	27905859.60	0.0135	0.0080
Moon	71691-09-03 01:55 G	27905905.56	27905905.58	27905905.64	0.0135	0.0133
Mercury	71691-10-15 03:22 G	27905947.55	27905947.64	27905947.75	0.0135	0.0100
Mercury	71692-01-11 07:27 G	27906035.75	27906035.81	27906035.89	0.0135	0.0119
Mars	71708-07-29 23:17 G	27912079.16	27912079.47	27912079.79	0.0141	0.0035
Venus	71725-07-25 15:36 G	27918284.09	27918284.15	27918284.22	0.0144	0.0137
Earth	71726-02-05 18:29 G	27918479.24	27918479.27	27918479.33	0.0144	0.0141
Moon	71726-02-05 20:39 G	27918479.31	27918479.36	27918479.46	0.0144	0.0138 *
Venus	71726-03-09 03:36 G	27918510.50	27918510.65	27918510.82	0.0144	0.0096
Venus	71726-10-21 15:36 G	27918736.96	27918737.15	27918737.36	0.0144	0.0055
Moon	71727-02-10 18:43 G	27918849.10	27918849.28	27918849.48	0.0144	0.0091
Earth	71727-02-10 21:51 G	27918849.22	27918849.41	27918849.61	0.0144	0.0092 *
Venus	71727-06-05 03:51 G	27918963.44	27918963.66	27918963.88	0.0144	0.0014
Venus	71728-01-17 15:36 G	27919189.94	27919190.15	27919190.37	0.0144	0.0028
Earth	71728-02-16 00:29 G	27919219.28	27919219.52	27919219.77	0.0144	0.0043
Moon	71728-02-16 03:22 G	27919219.40	27919219.64	27919219.90	0.0144	0.0049 *
Venus	71728-08-31 03:07 G	27919416.45	27919416.63	27919416.83	0.0144	0.0069
Moon	71729-02-19 23:17 G	27919589.21	27919589.47	27919589.72	0.0144	0.0014
Earth	71729-02-20 02:53 G	27919589.36	27919589.62	27919589.88	0.0144	0.0006 *
Venus	71729-04-14 15:07 G	27919642.99	27919643.13	27919643.27	0.0144	0.0109
Earth	71730-02-25 04:19 G	27919959.45	27919959.68	27919959.93	0.0143	0.0055
Moon	71730-02-25 07:55 G	27919959.60	27919959.83	27919960.09	0.0143	0.0047 *
Mercury	71730-03-02 16:19 G	27919965.10	27919965.18	27919965.27	0.0143	0.0120

Mercury	71730-05-29 21:36 G	27920053.29	27920053.40	27920053.53	0.0143	0.0096
Mercury	71730-08-26 03:22 G	27920141.50	27920141.64	27920141.78	0.0143	0.0070
Mercury	71730-11-22 08:53 G	27920229.72	27920229.87	27920230.03	0.0143	0.0044
Mercury	71731-02-18 14:39 G	27920317.95	27920318.11	27920318.27	0.0143	0.0018
Moon	71731-03-02 02:10 G	27920329.44	27920329.59	27920329.78	0.0143	0.0106
Earth	71731-03-02 06:00 G	27920329.58	27920329.75	27920329.93	0.0143	0.0103 *
Mercury	71731-05-17 20:24 G	27920406.19	27920406.35	27920406.51	0.0143	0.0008
Mercury	71731-08-14 02:10 G	27920494.43	27920494.59	27920494.75	0.0143	0.0034
Mercury	71731-11-10 07:41 G	27920582.68	27920582.82	27920582.98	0.0143	0.0061
Mercury	71732-02-06 13:41 G	27920670.94	27920671.07	27920671.20	0.0143	0.0087
Mercury	71732-05-04 19:27 G	27920759.22	27920759.31	27920759.41	0.0143	0.0114
Mercury	71732-08-01 01:12 G	27920847.54	27920847.55	27920847.59	0.0143	0.0141
Mars	71748-12-11 09:22 G	27926823.60	27926823.89	27926824.18	0.0137	0.0014
Venus	71768-04-27 02:53 G	27933900.51	27933900.62	27933900.77	0.0134	0.0109
Moon	71768-08-06 11:31 G	27934001.88	27934001.98	27934002.10	0.0134	0.0120
Earth	71768-08-06 15:07 G	27934002.05	27934002.13	27934002.23	0.0134	0.0125 *
Venus	71768-12-09 08:39 G	27934126.68	27934126.86	27934127.04	0.0134	0.0075
Venus	71769-07-23 13:55 G	27934352.88	27934353.08	27934353.29	0.0134	0.0043
Earth	71769-08-10 20:39 G	27934371.18	27934371.36	27934371.56	0.0134	0.0088
Moon	71769-08-11 00:29 G	27934371.34	27934371.52	27934371.70	0.0134	0.0092 *
Venus	71770-03-06 19:27 G	27934579.09	27934579.31	27934579.53	0.0134	0.0010
Moon	71770-08-14 23:03 G	27934740.23	27934740.46	27934740.70	0.0134	0.0050
Earth	71770-08-15 02:24 G	27934740.38	27934740.60	27934740.84	0.0134	0.0050 *
Venus	71770-10-19 00:43 G	27934805.32	27934805.53	27934805.75	0.0134	0.0024
Venus	71771-06-02 06:29 G	27935031.58	27935031.77	27935031.97	0.0135	0.0057
Earth	71771-08-19 08:24 G	27935109.60	27935109.85	27935110.10	0.0135	0.0011
Moon	71771-08-19 12:15 G	27935109.76	27935110.01	27935110.26	0.0135	0.0008 *
Venus	71772-01-14 12:00 G	27935257.85	27935258.00	27935258.17	0.0135	0.0090
Moon	71772-08-22 11:17 G	27935478.73	27935478.97	27935479.23	0.0135	0.0024
Earth	71772-08-22 14:39 G	27935478.88	27935479.11	27935479.37	0.0135	0.0029 *

Venus	71772-08-27 17:46 G	27935484.16	27935484.24	27935484.34	0.0135	0.0123
Mercury	71773-03-10 12:15 G	27935678.94	27935679.01	27935679.09	0.0135	0.0117
Mercury	71773-06-06 16:34 G	27935767.10	27935767.19	27935767.31	0.0135	0.0096
Earth	71773-08-26 21:36 G	27935848.19	27935848.40	27935848.62	0.0135	0.0067
Moon	71773-08-27 00:58 G	27935848.34	27935848.54	27935848.76	0.0135	0.0075 *
Mercury	71773-09-02 21:07 G	27935855.26	27935855.38	27935855.51	0.0135	0.0075
Mercury	71773-11-30 01:27 G	27935943.43	27935943.56	27935943.71	0.0135	0.0054
Mercury	71774-02-26 05:46 G	27936031.60	27936031.74	27936031.89	0.0135	0.0034
Mercury	71774-05-25 10:19 G	27936119.77	27936119.93	27936120.08	0.0135	0.0013
Mercury	71774-08-21 14:24 G	27936207.95	27936208.10	27936208.25	0.0135	0.0008
Moon	71774-08-31 00:58 G	27936217.38	27936217.54	27936217.72	0.0135	0.0099
Earth	71774-08-31 04:19 G	27936217.55	27936217.68	27936217.86	0.0135	0.0107 *
Mercury	71774-11-17 18:43 G	27936296.13	27936296.28	27936296.43	0.0135	0.0028
Mercury	71775-02-13 22:48 G	27936384.31	27936384.45	27936384.59	0.0135	0.0048
Mercury	71775-05-13 03:07 G	27936472.50	27936472.63	27936472.76	0.0135	0.0068
Mercury	71775-08-09 07:12 G	27936560.69	27936560.80	27936560.91	0.0135	0.0089
Mercury	71775-11-05 11:17 G	27936648.89	27936648.97	27936649.06	0.0135	0.0108
Mercury	71776-02-01 15:07 G	27936737.10	27936737.13	27936737.19	0.0135	0.0129
Saturn	71798-07-21 22:48 G	27944942.80	27944943.45	27944944.11	0.0143	0.0006
Venus	71809-11-07 09:51 G	27949068.79	27949068.91	27949069.05	0.0144	0.0115
Earth	71810-02-07 04:19 G	27949160.61	27949160.68	27949160.78	0.0144	0.0135
Moon	71810-02-07 06:15 G	27949160.71	27949160.76	27949160.84	0.0144	0.0139 *
Venus	71810-06-21 21:51 G	27949295.24	27949295.41	27949295.61	0.0144	0.0075
Venus	71811-02-03 09:51 G	27949521.71	27949521.91	27949522.13	0.0144	0.0033
Moon	71811-02-12 05:17 G	27949530.53	27949530.72	27949530.93	0.0144	0.0087
Earth	71811-02-12 07:12 G	27949530.62	27949530.80	27949531.03	0.0144	0.0087 *
Venus	71811-09-17 21:51 G	27949748.19	27949748.41	27949748.63	0.0144	0.0009
Earth	71812-02-17 10:05 G	27949900.68	27949900.92	27949901.18	0.0144	0.0038
Moon	71812-02-17 13:27 G	27949900.81	27949901.06	27949901.32	0.0144	0.0032 *
Venus	71812-05-01 09:36 G	27949974.70	27949974.90	27949975.11	0.0144	0.0050

Venus	71812-12-13 21:22 G	27950201.23	27950201.39	27950201.57	0.0144	0.0091
Moon	71813-02-21 09:36 G	27950270.65	27950270.90	27950271.15	0.0144	0.0004
Earth	71813-02-21 12:43 G	27950270.77	27950271.03	27950271.28	0.0144	0.0012 *
Venus	71813-07-28 08:53 G	27950427.80	27950427.87	27950427.97	0.0144	0.0131
Mercury	71813-12-25 18:00 G	27950578.22	27950578.25	27950578.30	0.0143	0.0138
Earth	71814-02-26 14:10 G	27950640.87	27950641.09	27950641.34	0.0143	0.0061
Moon	71814-02-26 18:00 G	27950641.03	27950641.25	27950641.49	0.0143	0.0067 *
Mercury	71814-03-23 23:31 G	27950666.39	27950666.48	27950666.58	0.0143	0.0113
Mercury	71814-06-20 05:03 G	27950754.59	27950754.71	27950754.84	0.0143	0.0087
Mercury	71814-09-16 10:48 G	27950842.80	27950842.95	27950843.09	0.0143	0.0062
Mercury	71814-12-13 16:19 G	27950931.02	27950931.18	27950931.34	0.0143	0.0036
Moon	71815-03-03 12:00 G	27951010.84	27951011.00	27951011.20	0.0143	0.0104
Earth	71815-03-03 16:05 G	27951011.01	27951011.17	27951011.34	0.0143	0.0108 *
Mercury	71815-03-11 21:51 G	27951019.25	27951019.41	27951019.58	0.0143	0.0011
Mercury	71815-06-08 03:36 G	27951107.49	27951107.65	27951107.81	0.0143	0.0016
Mercury	71815-09-04 09:22 G	27951195.74	27951195.89	27951196.05	0.0143	0.0042
Mercury	71815-12-01 15:07 G	27951283.99	27951284.13	27951284.27	0.0143	0.0069
Mercury	71816-02-27 20:39 G	27951372.25	27951372.36	27951372.50	0.0143	0.0096
Mercury	71816-05-26 02:53 G	27951460.54	27951460.62	27951460.70	0.0143	0.0122
Venus	71851-12-27 14:39 G	27964459.03	27964459.11	27964459.22	0.0134	0.0121
Moon	71852-08-08 00:43 G	27964683.46	27964683.53	27964683.63	0.0134	0.0126
Earth	71852-08-08 03:51 G	27964683.57	27964683.66	27964683.80	0.0134	0.0119 *
Venus	71852-08-09 20:10 G	27964685.18	27964685.34	27964685.51	0.0134	0.0089
Venus	71853-03-24 01:12 G	27964911.37	27964911.55	27964911.76	0.0134	0.0057
Earth	71853-08-12 09:36 G	27965052.71	27965052.90	27965053.11	0.0134	0.0082
Moon	71853-08-12 13:12 G	27965052.86	27965053.05	27965053.27	0.0134	0.0079 *
Venus	71853-11-05 06:58 G	27965137.58	27965137.79	27965138.00	0.0134	0.0023
Venus	71854-06-19 12:29 G	27965363.81	27965364.02	27965364.24	0.0134	0.0010
Moon	71854-08-16 12:00 G	27965421.77	27965422.00	27965422.24	0.0134	0.0045
Earth	71854-08-16 15:22 G	27965421.92	27965422.14	27965422.39	0.0134	0.0043 *

Venus	71855-01-31 17:46 G	27965590.05	27965590.24	27965590.46	0.0134	0.0044
Earth	71855-08-20 21:36 G	27965791.15	27965791.40	27965791.65	0.0135	0.0004
Moon	71855-08-21 00:58 G	27965791.30	27965791.54	27965791.80	0.0135	0.0008 *
Venus	71855-09-14 23:17 G	27965816.31	27965816.47	27965816.67	0.0135	0.0077
Venus	71856-04-28 05:03 G	27966042.60	27966042.71	27966042.85	0.0135	0.0110
Moon	71856-08-24 00:15 G	27966160.28	27966160.51	27966160.76	0.0135	0.0040
Earth	71856-08-24 04:05 G	27966160.43	27966160.67	27966160.92	0.0135	0.0035 *
Mercury	71857-01-02 15:22 G	27966292.11	27966292.14	27966292.20	0.0135	0.0129
Mercury	71857-03-31 19:55 G	27966380.25	27966380.33	27966380.43	0.0135	0.0108
Mercury	71857-06-28 00:15 G	27966468.41	27966468.51	27966468.64	0.0135	0.0087
Earth	71857-08-28 10:48 G	27966529.74	27966529.95	27966530.16	0.0135	0.0074
Moon	71857-08-28 13:55 G	27966529.88	27966530.08	27966530.31	0.0135	0.0068 *
Mercury	71857-09-24 04:48 G	27966556.57	27966556.70	27966556.84	0.0135	0.0066
Mercury	71857-12-21 09:07 G	27966644.74	27966644.88	27966645.03	0.0135	0.0045
Mercury	71858-03-19 13:41 G	27966732.92	27966733.07	27966733.22	0.0135	0.0024
Mercury	71858-06-15 18:00 G	27966821.10	27966821.25	27966821.40	0.0135	0.0004
Moon	71858-09-01 14:39 G	27966899.00	27966899.11	27966899.22	0.0135	0.0121
Earth	71858-09-01 18:00 G	27966899.13	27966899.25	27966899.40	0.0135	0.0113 *
Mercury	71858-09-11 22:19 G	27966909.28	27966909.43	27966909.58	0.0135	0.0017
Mercury	71858-12-09 02:24 G	27966997.46	27966997.60	27966997.75	0.0135	0.0037
Mercury	71859-03-07 06:43 G	27967085.64	27967085.78	27967085.91	0.0135	0.0057
Mercury	71859-06-03 10:48 G	27967173.83	27967173.95	27967174.07	0.0135	0.0078
Mercury	71859-08-30 14:53 G	27967262.02	27967262.12	27967262.23	0.0135	0.0098
Mercury	71859-11-26 18:58 G	27967350.23	27967350.29	27967350.37	0.0135	0.0118
Venus	71893-07-07 16:34 G	27979627.13	27979627.19	27979627.29	0.0144	0.0134
Earth	71894-02-07 15:07 G	27979842.04	27979842.13	27979842.27	0.0144	0.0130
Moon	71894-02-07 16:34 G	27979842.07	27979842.19	27979842.34	0.0144	0.0124 *
Venus	71894-02-19 04:34 G	27979853.54	27979853.69	27979853.88	0.0144	0.0093
Venus	71894-10-03 17:03 G	27980080.00	27980080.21	27980080.41	0.0144	0.0051
Moon	71895-02-12 16:48 G	27980211.99	27980212.20	27980212.41	0.0144	0.0080

Earth	71895-02-12 18:29 G	27980212.07	27980212.27	27980212.50	0.0144	0.0080	*
Venus	71895-05-18 05:03 G	27980306.49	27980306.71	27980306.92	0.0144	0.0010	
Venus	71895-12-30 16:48 G	27980532.99	27980533.20	27980533.42	0.0144	0.0031	
Earth	71896-02-17 21:22 G	27980582.14	27980582.39	27980582.64	0.0144	0.0031	
Moon	71896-02-17 23:31 G	27980582.23	27980582.48	27980582.74	0.0144	0.0035	*
Venus	71896-08-13 04:34 G	27980759.51	27980759.69	27980759.89	0.0144	0.0072	
Moon	71897-02-21 20:39 G	27980952.11	27980952.36	27980952.61	0.0144	0.0026	
Earth	71897-02-21 23:46 G	27980952.24	27980952.49	27980952.75	0.0144	0.0018	*
Venus	71897-03-27 16:05 G	27980986.05	27980986.17	27980986.32	0.0144	0.0113	
Mercury	71898-01-15 01:41 G	27981279.51	27981279.57	27981279.64	0.0143	0.0129	
Earth	71898-02-27 01:27 G	27981322.35	27981322.56	27981322.80	0.0143	0.0068	
Moon	71898-02-27 04:48 G	27981322.47	27981322.70	27981322.95	0.0143	0.0060	*
Mercury	71898-04-13 07:12 G	27981367.69	27981367.80	27981367.91	0.0143	0.0103	
Mercury	71898-07-10 12:29 G	27981455.90	27981456.02	27981456.17	0.0143	0.0079	
Mercury	71898-10-06 18:15 G	27981544.11	27981544.26	27981544.41	0.0143	0.0052	
Mercury	71899-01-03 00:00 G	27981632.34	27981632.50	27981632.66	0.0143	0.0027	
Moon	71899-03-03 23:46 G	27981692.36	27981692.49	27981692.64	0.0143	0.0119	
Earth	71899-03-04 03:07 G	27981692.50	27981692.63	27981692.80	0.0143	0.0115	*
Mercury	71899-04-01 05:31 G	27981720.57	27981720.73	27981720.89	0.0143	0.0002	
Mercury	71899-06-28 11:17 G	27981808.81	27981808.97	27981809.13	0.0143	0.0026	
Mercury	71899-09-24 17:03 G	27981897.06	27981897.21	27981897.36	0.0143	0.0052	
Mercury	71899-12-21 22:48 G	27981985.31	27981985.45	27981985.59	0.0143	0.0078	
Mercury	71900-03-20 04:34 G	27982073.58	27982073.69	27982073.80	0.0143	0.0105	
Mercury	71900-06-16 10:19 G	27982161.88	27982161.93	27982162.00	0.0143	0.0132	
Mars	71916-05-02 09:22 G	27987960.66	27987960.89	27987961.15	0.0137	0.0075	
Venus	71936-04-10 07:27 G	27995243.69	27995243.81	27995243.97	0.0134	0.0102	
Moon	71936-08-09 13:41 G	27995364.93	27995365.07	27995365.23	0.0134	0.0106	
Earth	71936-08-09 17:31 G	27995365.10	27995365.23	27995365.36	0.0134	0.0113	*
Venus	71936-11-22 12:58 G	27995469.87	27995470.04	27995470.24	0.0134	0.0069	
Venus	71937-07-06 18:29 G	27995696.07	27995696.27	27995696.49	0.0134	0.0037	

Earth	71937-08-13 22:48 G	27995734.25	27995734.45	27995734.67	0.0134	0.0075
Moon	71937-08-14 02:10 G	27995734.40	27995734.59	27995734.81	0.0134	0.0079 *
Venus	71938-02-18 00:00 G	27995922.29	27995922.50	27995922.72	0.0134	0.0004
Moon	71938-08-18 01:27 G	27996103.32	27996103.56	27996103.80	0.0134	0.0036
Earth	71938-08-18 04:48 G	27996103.46	27996103.70	27996103.95	0.0134	0.0036 *
Venus	71938-10-02 05:31 G	27996148.52	27996148.73	27996148.95	0.0134	0.0030
Venus	71939-05-16 11:17 G	27996374.78	27996374.97	27996375.16	0.0134	0.0063
Earth	71939-08-22 11:03 G	27996472.70	27996472.96	27996473.21	0.0134	0.0003
Moon	71939-08-22 14:39 G	27996472.86	27996473.11	27996473.36	0.0134	0.0005 *
Venus	71939-12-28 17:03 G	27996601.06	27996601.21	27996601.36	0.0135	0.0096
Venus	71940-08-10 22:48 G	27996827.40	27996827.45	27996827.51	0.0135	0.0129
Moon	71940-08-25 13:55 G	27996841.85	27996842.08	27996842.33	0.0135	0.0038
Earth	71940-08-25 17:31 G	27996841.99	27996842.23	27996842.47	0.0135	0.0042 *
Mercury	71941-01-23 23:17 G	27996993.41	27996993.47	27996993.55	0.0135	0.0119
Mercury	71941-04-22 03:51 G	27997081.56	27997081.66	27997081.77	0.0135	0.0098
Mercury	71941-07-19 08:10 G	27997169.72	27997169.84	27997169.98	0.0135	0.0077
Earth	71941-08-30 00:15 G	27997211.32	27997211.51	27997211.72	0.0135	0.0081
Moon	71941-08-30 03:36 G	27997211.48	27997211.65	27997211.86	0.0135	0.0089 *
Mercury	71941-10-15 12:43 G	27997257.89	27997258.03	27997258.17	0.0135	0.0056
Mercury	71942-01-11 17:03 G	27997346.07	27997346.21	27997346.36	0.0135	0.0035
Mercury	71942-04-09 21:22 G	27997434.24	27997434.39	27997434.55	0.0135	0.0015
Mercury	71942-07-07 01:41 G	27997522.42	27997522.57	27997522.72	0.0135	0.0006
Moon	71942-09-03 04:19 G	27997580.55	27997580.68	27997580.82	0.0135	0.0113
Earth	71942-09-03 07:27 G	27997580.71	27997580.81	27997580.94	0.0135	0.0120 *
Mercury	71942-10-03 06:00 G	27997610.60	27997610.75	27997610.90	0.0135	0.0026
Mercury	71942-12-30 10:19 G	27997698.79	27997698.93	27997699.07	0.0135	0.0047
Mercury	71943-03-28 14:24 G	27997786.97	27997787.10	27997787.23	0.0135	0.0067
Mercury	71943-06-24 18:29 G	27997875.16	27997875.27	27997875.39	0.0135	0.0087
Mercury	71943-09-20 22:48 G	27997963.36	27997963.45	27997963.54	0.0135	0.0107
Mercury	71943-12-18 02:53 G	27998051.57	27998051.62	27998051.67	0.0135	0.0127

Mars	71960-08-13 01:55 G	28004134.29	28004134.58	28004134.91	0.0141	0.0041
Venus	71977-10-20 10:48 G	28010411.83	28010411.95	28010412.10	0.0144	0.0112
Earth	71978-02-09 01:12 G	28010523.43	28010523.55	28010523.70	0.0144	0.0123
Moon	71978-02-09 01:41 G	28010523.47	28010523.57	28010523.71	0.0144	0.0128 *
Venus	71978-06-03 22:48 G	28010638.28	28010638.45	28010638.66	0.0144	0.0071
Venus	71979-01-16 11:17 G	28010864.75	28010864.97	28010865.18	0.0144	0.0029
Moon	71979-02-14 03:22 G	28010893.43	28010893.64	28010893.86	0.0144	0.0073
Earth	71979-02-14 04:19 G	28010893.47	28010893.68	28010893.91	0.0144	0.0074 *
Venus	71979-08-30 23:03 G	28011091.24	28011091.46	28011091.68	0.0144	0.0012
Earth	71980-02-19 06:58 G	28011263.54	28011263.79	28011264.05	0.0144	0.0025
Moon	71980-02-19 09:07 G	28011263.63	28011263.88	28011264.15	0.0144	0.0021 *
Venus	71980-04-13 10:48 G	28011317.75	28011317.95	28011318.16	0.0144	0.0053
Venus	71980-11-25 22:34 G	28011544.29	28011544.44	28011544.62	0.0144	0.0094
Moon	71981-02-23 07:12 G	28011633.55	28011633.80	28011634.05	0.0144	0.0018
Earth	71981-02-23 09:22 G	28011633.64	28011633.89	28011634.15	0.0144	0.0024 *
Venus	71981-07-10 10:05 G	28011770.86	28011770.92	28011771.01	0.0143	0.0134
Mercury	71982-02-05 08:39 G	28011980.79	28011980.86	28011980.96	0.0143	0.0121
Earth	71982-02-28 11:31 G	28012003.76	28012003.98	28012004.20	0.0143	0.0073
Moon	71982-02-28 14:24 G	28012003.90	28012004.10	28012004.33	0.0143	0.0081 *
Mercury	71982-05-04 14:24 G	28012068.98	28012069.10	28012069.22	0.0143	0.0096
Mercury	71982-07-31 19:55 G	28012157.19	28012157.33	28012157.47	0.0143	0.0070
Mercury	71982-10-28 01:27 G	28012245.41	28012245.56	28012245.72	0.0143	0.0045
Mercury	71983-01-24 07:12 G	28012333.64	28012333.80	28012333.96	0.0143	0.0019
Moon	71983-03-05 09:22 G	28012373.76	28012373.89	28012374.06	0.0143	0.0115
Earth	71983-03-05 12:43 G	28012373.92	28012374.03	28012374.19	0.0143	0.0121 *
Mercury	71983-04-22 12:43 G	28012421.87	28012422.03	28012422.19	0.0143	0.0007
Mercury	71983-07-19 18:29 G	28012510.11	28012510.27	28012510.43	0.0143	0.0033
Mercury	71983-10-16 00:00 G	28012598.36	28012598.50	28012598.66	0.0143	0.0060
Mercury	71984-01-12 06:00 G	28012686.62	28012686.75	28012686.88	0.0143	0.0086
Mercury	71984-04-09 11:31 G	28012774.89	28012774.98	28012775.09	0.0143	0.0113

Mercury 71984-07-06 17:17 G 28012863.20 28012863.22 28012863.27 0.0143 0.0140

Mars 72000-12-25 22:34 G 28018879.22 28018879.44 28018879.71 0.0137 0.0074

73RD MILLENNIUM CE

This is a list of transits visible from Uranus in the 73rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	72019-12-09 18:43	G	28025802.19	28025802.28	28025802.40	0.0134	0.0115	
Venus	72020-07-23 00:29	G	28026028.35	28026028.52	28026028.69	0.0134	0.0083	
Moon	72020-08-10 02:39	G	28026046.49	28026046.61	28026046.75	0.0134	0.0113	
Earth	72020-08-10 05:31	G	28026046.59	28026046.73	28026046.90	0.0134	0.0107	*
Venus	72021-03-06 05:31	G	28026254.54	28026254.73	28026254.94	0.0134	0.0050	
Earth	72021-08-14 11:17	G	28026415.77	28026415.97	28026416.20	0.0134	0.0069	
Moon	72021-08-14 14:39	G	28026415.91	28026416.11	28026416.35	0.0134	0.0065	*
Venus	72021-10-18 11:03	G	28026480.75	28026480.96	28026481.18	0.0134	0.0018	
Venus	72022-06-01 16:48	G	28026706.99	28026707.20	28026707.42	0.0134	0.0016	
Moon	72022-08-18 14:10	G	28026784.85	28026785.09	28026785.33	0.0134	0.0033	
Earth	72022-08-18 17:31	G	28026784.98	28026785.23	28026785.47	0.0134	0.0030	*
Venus	72023-01-13 22:19	G	28026933.24	28026933.43	28026933.64	0.0134	0.0050	
Earth	72023-08-22 23:46	G	28027154.24	28027154.49	28027154.74	0.0135	0.0009	
Moon	72023-08-23 03:07	G	28027154.38	28027154.63	28027154.88	0.0135	0.0007	*
Venus	72023-08-28 03:51	G	28027159.51	28027159.66	28027159.85	0.0135	0.0083	
Venus	72024-04-10 09:36	G	28027385.81	28027385.90	28027386.03	0.0135	0.0116	
Moon	72024-08-26 02:53	G	28027523.40	28027523.62	28027523.85	0.0135	0.0053	

Earth	72024-08-26 06:29 G	28027523.54	28027523.77	28027524.01	0.0135	0.0048	*
Mercury	72024-11-17 02:39 G	28027606.58	28027606.61	28027606.65	0.0135	0.0131	
Mercury	72025-02-13 07:12 G	28027694.71	28027694.80	28027694.89	0.0135	0.0110	
Mercury	72025-05-12 11:31 G	28027782.87	28027782.98	28027783.10	0.0135	0.0089	
Mercury	72025-08-08 16:05 G	28027871.04	28027871.17	28027871.30	0.0135	0.0068	
Earth	72025-08-30 12:58 G	28027892.87	28027893.04	28027893.25	0.0135	0.0088	
Moon	72025-08-30 16:34 G	28027892.99	28027893.19	28027893.40	0.0135	0.0081	*
Mercury	72025-11-04 20:24 G	28027959.21	28027959.35	28027959.50	0.0135	0.0047	
Mercury	72026-02-01 00:43 G	28028047.38	28028047.53	28028047.68	0.0135	0.0027	
Mercury	72026-04-30 05:03 G	28028135.56	28028135.71	28028135.87	0.0135	0.0007	
Mercury	72026-07-27 09:22 G	28028223.74	28028223.89	28028224.04	0.0135	0.0015	
Moon	72026-09-03 16:48 G	28028262.19	28028262.20	28028262.25	0.0135	0.0134	
Earth	72026-09-03 20:24 G	28028262.28	28028262.35	28028262.45	0.0135	0.0126	
Mercury	72026-10-23 13:41 G	28028311.92	28028312.07	28028312.22	0.0135	0.0035	
Mercury	72027-01-19 17:46 G	28028400.11	28028400.24	28028400.38	0.0135	0.0056	
Mercury	72027-04-17 22:05 G	28028488.30	28028488.42	28028488.55	0.0135	0.0075	
Mercury	72027-07-15 02:10 G	28028576.49	28028576.59	28028576.70	0.0135	0.0096	
Mercury	72027-10-11 06:15 G	28028664.69	28028664.76	28028664.84	0.0135	0.0116	
Mercury	72028-01-07 10:19 G	28028752.93	28028752.93	28028752.95	0.0135	0.0135	
Venus	72061-06-19 18:00 G	28040970.17	28040970.25	28040970.36	0.0144	0.0130	
Venus	72062-02-01 06:00 G	28041196.59	28041196.75	28041196.94	0.0144	0.0089	
Moon	72062-02-09 12:29 G	28041204.87	28041205.02	28041205.20	0.0144	0.0111	
Earth	72062-02-09 12:29 G	28041204.89	28041205.02	28041205.19	0.0144	0.0117	*
Venus	72062-09-15 18:29 G	28041423.06	28041423.27	28041423.47	0.0144	0.0047	
Moon	72063-02-14 15:07 G	28041574.92	28041575.13	28041575.35	0.0144	0.0069	
Earth	72063-02-14 15:36 G	28041574.94	28041575.15	28041575.39	0.0144	0.0068	*
Venus	72063-04-30 06:15 G	28041649.55	28041649.76	28041649.98	0.0144	0.0007	
Venus	72063-12-12 18:29 G	28041876.06	28041876.27	28041876.48	0.0144	0.0035	
Earth	72064-02-19 18:29 G	28041945.02	28041945.27	28041945.53	0.0144	0.0018	
Moon	72064-02-19 19:41 G	28041945.06	28041945.32	28041945.59	0.0144	0.0021	*

Venus	72064-07-26 06:15 G	28042102.58	28042102.76	28042102.95	0.0144	0.0076
Moon	72065-02-23 18:43 G	28042315.04	28042315.28	28042315.53	0.0144	0.0038
Earth	72065-02-23 21:07 G	28042315.13	28042315.38	28042315.63	0.0144	0.0031 *
Venus	72065-03-09 17:31 G	28042329.12	28042329.23	28042329.37	0.0143	0.0117
Mercury	72065-11-29 11:03 G	28042593.92	28042593.96	28042594.01	0.0143	0.0137
Mercury	72066-02-25 16:34 G	28042682.09	28042682.19	28042682.29	0.0143	0.0112
Earth	72066-02-28 23:03 G	28042685.25	28042685.46	28042685.68	0.0143	0.0080
Moon	72066-03-01 01:27 G	28042685.34	28042685.56	28042685.80	0.0143	0.0072 *
Mercury	72066-05-24 21:51 G	28042770.29	28042770.41	28042770.55	0.0143	0.0087
Mercury	72066-08-21 03:22 G	28042858.50	28042858.64	28042858.79	0.0143	0.0061
Mercury	72066-11-17 09:07 G	28042946.72	28042946.88	28042947.04	0.0143	0.0035
Mercury	72067-02-13 14:39 G	28043034.95	28043035.11	28043035.28	0.0143	0.0010
Moon	72067-03-05 21:36 G	28043055.31	28043055.40	28043055.50	0.0143	0.0132
Earth	72067-03-06 00:29 G	28043055.42	28043055.52	28043055.65	0.0143	0.0127 *
Mercury	72067-05-12 20:24 G	28043123.19	28043123.35	28043123.51	0.0143	0.0017
Mercury	72067-08-09 01:55 G	28043211.43	28043211.58	28043211.74	0.0143	0.0043
Mercury	72067-11-05 07:41 G	28043299.68	28043299.82	28043299.97	0.0143	0.0069
Mercury	72068-02-01 13:27 G	28043387.95	28043388.06	28043388.19	0.0143	0.0096
Mercury	72068-04-29 19:27 G	28043476.23	28043476.31	28043476.39	0.0143	0.0122
Venus	72103-08-10 06:00 G	28056360.70	28056360.75	28056360.82	0.0134	0.0129
Venus	72104-03-23 11:17 G	28056586.83	28056586.97	28056587.13	0.0134	0.0096
Moon	72104-08-11 14:39 G	28056727.95	28056728.11	28056728.30	0.0134	0.0095
Earth	72104-08-11 17:46 G	28056728.10	28056728.24	28056728.43	0.0134	0.0101 *
Venus	72104-11-04 16:48 G	28056813.01	28056813.20	28056813.40	0.0134	0.0063
Venus	72105-06-18 22:34 G	28057039.23	28057039.44	28057039.65	0.0134	0.0031
Earth	72105-08-15 23:46 G	28057097.28	28057097.49	28057097.72	0.0134	0.0062
Moon	72105-08-16 02:53 G	28057097.40	28057097.62	28057097.84	0.0134	0.0068 *
Venus	72106-01-31 04:05 G	28057265.45	28057265.67	28057265.89	0.0134	0.0003
Moon	72106-08-20 02:53 G	28057466.38	28057466.62	28057466.87	0.0134	0.0022
Earth	72106-08-20 06:00 G	28057466.51	28057466.75	28057467.00	0.0134	0.0024 *

Venus	72106-09-14 09:36 G	28057491.69	28057491.90	28057492.11	0.0134	0.0036
Venus	72107-04-28 15:22 G	28057717.95	28057718.14	28057718.33	0.0134	0.0069
Earth	72107-08-24 12:15 G	28057835.77	28057836.01	28057836.27	0.0135	0.0016
Moon	72107-08-24 15:36 G	28057835.90	28057836.15	28057836.41	0.0135	0.0016 *
Venus	72107-12-10 21:07 G	28057944.24	28057944.38	28057944.52	0.0135	0.0102
Moon	72108-08-27 16:05 G	28058204.95	28058205.17	28058205.40	0.0135	0.0051
Earth	72108-08-27 18:58 G	28058205.07	28058205.29	28058205.53	0.0135	0.0055 *
Mercury	72108-12-08 10:05 G	28058307.87	28058307.92	28058308.00	0.0135	0.0123
Mercury	72109-03-06 14:53 G	28058396.02	28058396.12	28058396.22	0.0135	0.0101
Mercury	72109-06-02 18:58 G	28058484.18	28058484.29	28058484.43	0.0135	0.0081
Mercury	72109-08-29 23:31 G	28058572.35	28058572.48	28058572.63	0.0135	0.0060
Earth	72109-09-01 01:41 G	28058574.41	28058574.57	28058574.77	0.0135	0.0094
Moon	72109-09-01 05:03 G	28058574.56	28058574.71	28058574.90	0.0135	0.0101 *
Mercury	72109-11-26 04:05 G	28058660.52	28058660.67	28058660.82	0.0135	0.0039
Mercury	72110-02-22 08:24 G	28058748.70	28058748.85	28058749.00	0.0135	0.0018
Mercury	72110-05-21 12:43 G	28058836.88	28058837.03	28058837.18	0.0135	0.0003
Mercury	72110-08-17 17:03 G	28058925.06	28058925.21	28058925.36	0.0135	0.0023
Moon	72110-09-05 06:00 G	28058943.67	28058943.75	28058943.85	0.0135	0.0125
Earth	72110-09-05 09:22 G	28058943.85	28058943.89	28058943.94	0.0135	0.0133 *
Mercury	72110-11-13 21:22 G	28059013.25	28059013.39	28059013.53	0.0135	0.0043
Mercury	72111-02-10 01:27 G	28059101.43	28059101.56	28059101.70	0.0135	0.0064
Mercury	72111-05-09 05:46 G	28059189.62	28059189.74	28059189.86	0.0135	0.0084
Mercury	72111-08-05 09:51 G	28059277.82	28059277.91	28059278.01	0.0135	0.0104
Mercury	72111-11-01 13:55 G	28059366.03	28059366.08	28059366.14	0.0135	0.0124
Mars	72127-12-31 03:22 G	28065269.37	28065269.64	28065269.94	0.0141	0.0070
Venus	72145-10-02 12:43 G	28071754.90	28071755.03	28071755.19	0.0144	0.0107
Moon	72146-02-10 22:48 G	28071886.31	28071886.45	28071886.61	0.0144	0.0117
Earth	72146-02-10 23:31 G	28071886.33	28071886.48	28071886.65	0.0144	0.0111 *
Venus	72146-05-17 00:58 G	28071981.35	28071981.54	28071981.74	0.0144	0.0066
Venus	72146-12-29 13:12 G	28072207.84	28072208.05	28072208.27	0.0144	0.0024

Earth	72147-02-16 02:24 G	28072256.38	28072256.60	28072256.84	0.0144	0.0062
Moon	72147-02-16 02:24 G	28072256.39	28072256.60	28072256.84	0.0144	0.0060 *
Venus	72147-08-13 01:12 G	28072434.33	28072434.55	28072434.77	0.0144	0.0017
Earth	72148-02-21 05:17 G	28072626.46	28072626.72	28072626.97	0.0144	0.0013
Moon	72148-02-21 06:15 G	28072626.50	28072626.76	28072627.03	0.0144	0.0010 *
Venus	72148-03-26 12:43 G	28072660.84	28072661.03	28072661.24	0.0144	0.0058
Venus	72148-11-08 00:29 G	28072887.37	28072887.52	28072887.69	0.0144	0.0099
Moon	72149-02-25 06:29 G	28072996.53	28072996.77	28072997.01	0.0143	0.0031
Earth	72149-02-25 07:27 G	28072996.57	28072996.81	28072997.07	0.0143	0.0037 *
Venus	72149-06-22 12:15 G	28073113.97	28073114.01	28073114.07	0.0143	0.0139
Mercury	72149-12-20 18:29 G	28073295.20	28073295.27	28073295.34	0.0143	0.0129
Earth	72150-03-02 09:07 G	28073366.69	28073366.88	28073367.11	0.0143	0.0086
Moon	72150-03-02 11:46 G	28073366.80	28073366.99	28073367.20	0.0143	0.0093 *
Mercury	72150-03-18 23:46 G	28073383.39	28073383.49	28073383.61	0.0143	0.0104
Mercury	72150-06-15 05:17 G	28073471.59	28073471.72	28073471.86	0.0143	0.0078
Mercury	72150-09-11 10:48 G	28073559.81	28073559.95	28073560.10	0.0143	0.0053
Mercury	72150-12-08 16:34 G	28073648.03	28073648.19	28073648.34	0.0143	0.0027
Mercury	72151-03-06 22:05 G	28073736.26	28073736.42	28073736.58	0.0143	0.0002
Moon	72151-03-07 08:10 G	28073736.74	28073736.84	28073736.97	0.0143	0.0126
Earth	72151-03-07 10:34 G	28073736.87	28073736.94	28073737.06	0.0143	0.0133 *
Mercury	72151-06-03 03:36 G	28073824.49	28073824.65	28073824.81	0.0143	0.0025
Mercury	72151-08-30 09:22 G	28073912.74	28073912.89	28073913.04	0.0143	0.0051
Mercury	72151-11-26 15:07 G	28074000.99	28074001.13	28074001.27	0.0143	0.0077
Mercury	72152-02-22 20:39 G	28074089.26	28074089.36	28074089.48	0.0143	0.0104
Mercury	72152-05-21 02:39 G	28074177.55	28074177.61	28074177.68	0.0143	0.0130
Mars	72168-05-15 19:27 G	28080016.03	28080016.31	28080016.60	0.0137	0.0018
Earth	72187-08-08 23:31 G	28087040.47	28087040.48	28087040.53	0.0134	0.0134
Moon	72187-08-09 02:24 G	28087040.53	28087040.60	28087040.71	0.0134	0.0126 *
Venus	72187-11-21 22:05 G	28087145.30	28087145.42	28087145.55	0.0134	0.0110
Venus	72188-07-05 03:22 G	28087371.48	28087371.64	28087371.83	0.0134	0.0077

Moon	72188-08-12 03:07 G	28087409.49	28087409.63	28087409.80	0.0134	0.0103
Earth	72188-08-12 05:31 G	28087409.57	28087409.73	28087409.92	0.0134	0.0095 *
Venus	72189-02-16 08:53 G	28087597.67	28087597.87	28087598.08	0.0134	0.0045
Earth	72189-08-16 11:17 G	28087778.76	28087778.97	28087779.21	0.0134	0.0058
Moon	72189-08-16 14:24 G	28087778.88	28087779.10	28087779.35	0.0134	0.0053 *
Venus	72189-09-30 14:39 G	28087823.89	28087824.11	28087824.32	0.0134	0.0011
Venus	72190-05-14 20:10 G	28088050.13	28088050.34	28088050.56	0.0134	0.0022
Moon	72190-08-20 15:07 G	28088147.89	28088148.13	28088148.38	0.0134	0.0022
Earth	72190-08-20 17:46 G	28088147.99	28088148.24	28088148.49	0.0134	0.0018 *
Venus	72190-12-27 01:41 G	28088276.39	28088276.57	28088276.78	0.0134	0.0056
Venus	72191-08-10 07:27 G	28088502.66	28088502.81	28088502.99	0.0135	0.0089
Earth	72191-08-25 00:15 G	28088517.26	28088517.51	28088517.76	0.0135	0.0021
Moon	72191-08-25 03:07 G	28088517.38	28088517.63	28088517.88	0.0135	0.0020 *
Venus	72192-03-23 12:58 G	28088728.97	28088729.04	28088729.16	0.0135	0.0122
Moon	72192-08-28 03:51 G	28088886.45	28088886.66	28088886.88	0.0135	0.0064
Earth	72192-08-28 06:43 G	28088886.57	28088886.78	28088887.02	0.0135	0.0060 *
Mercury	72192-12-28 17:31 G	28089009.16	28089009.23	28089009.32	0.0135	0.0115
Mercury	72193-03-26 22:05 G	28089097.32	28089097.42	28089097.54	0.0135	0.0094
Mercury	72193-06-23 02:39 G	28089185.49	28089185.61	28089185.74	0.0135	0.0073
Earth	72193-09-01 13:27 G	28089255.90	28089256.06	28089256.24	0.0135	0.0099
Moon	72193-09-01 16:19 G	28089256.00	28089256.18	28089256.37	0.0135	0.0093 *
Mercury	72193-09-19 06:58 G	28089273.66	28089273.79	28089273.94	0.0135	0.0052
Mercury	72193-12-16 11:31 G	28089361.83	28089361.98	28089362.13	0.0135	0.0031
Mercury	72194-03-14 15:51 G	28089450.01	28089450.16	28089450.31	0.0135	0.0011
Mercury	72194-06-10 20:10 G	28089538.19	28089538.34	28089538.49	0.0135	0.0010
Mercury	72194-09-07 00:29 G	28089626.37	28089626.52	28089626.67	0.0135	0.0031
Mercury	72194-12-04 04:34 G	28089714.56	28089714.69	28089714.84	0.0135	0.0051
Mercury	72195-03-02 08:53 G	28089802.74	28089802.87	28089803.00	0.0135	0.0071
Mercury	72195-05-29 12:58 G	28089890.94	28089891.04	28089891.16	0.0135	0.0091
Mercury	72195-08-25 17:03 G	28089979.14	28089979.21	28089979.30	0.0135	0.0111

Mercury	72195-11-21 21:22 G	28090067.36	28090067.39	28090067.43	0.0135	0.0131
Mars	72212-08-27 04:19 G	28096189.51	28096189.68	28096189.88	0.0141	0.0116
Venus	72229-06-02 19:55 G	28102313.24	28102313.33	28102313.45	0.0144	0.0125
Venus	72230-01-15 07:55 G	28102539.67	28102539.83	28102540.03	0.0144	0.0084
Moon	72230-02-12 09:22 G	28102567.71	28102567.89	28102568.10	0.0144	0.0098
Earth	72230-02-12 10:48 G	28102567.79	28102567.95	28102568.14	0.0144	0.0105 *
Venus	72230-08-29 20:24 G	28102766.14	28102766.35	28102766.56	0.0144	0.0042
Earth	72231-02-17 13:55 G	28102937.85	28102938.08	28102938.33	0.0144	0.0056
Moon	72231-02-17 14:10 G	28102937.88	28102938.09	28102938.33	0.0144	0.0059 *
Venus	72231-04-13 08:24 G	28102992.63	28102992.85	28102993.07	0.0144	0.0001
Venus	72231-11-25 20:24 G	28103219.14	28103219.35	28103219.56	0.0144	0.0040
Moon	72232-02-22 16:34 G	28103307.92	28103308.19	28103308.46	0.0144	0.0007
Earth	72232-02-22 16:34 G	28103307.94	28103308.19	28103308.45	0.0144	0.0007 *
Venus	72232-07-09 08:10 G	28103445.66	28103445.84	28103446.02	0.0144	0.0081
Venus	72233-02-20 19:27 G	28103672.21	28103672.31	28103672.44	0.0143	0.0122
Moon	72233-02-26 17:46 G	28103678.01	28103678.24	28103678.48	0.0143	0.0049
Earth	72233-02-26 18:58 G	28103678.05	28103678.29	28103678.54	0.0143	0.0043 *
Mercury	72234-01-11 02:10 G	28103996.50	28103996.59	28103996.67	0.0143	0.0120
Earth	72234-03-03 20:39 G	28104048.18	28104048.36	28104048.58	0.0143	0.0092
Moon	72234-03-03 22:05 G	28104048.22	28104048.42	28104048.65	0.0143	0.0084 *
Mercury	72234-04-09 07:27 G	28104084.70	28104084.81	28104084.93	0.0143	0.0095
Mercury	72234-07-06 12:58 G	28104172.90	28104173.04	28104173.18	0.0143	0.0069
Mercury	72234-10-02 18:29 G	28104261.12	28104261.27	28104261.42	0.0143	0.0044
Mercury	72234-12-30 00:00 G	28104349.34	28104349.50	28104349.66	0.0143	0.0018
Earth	72235-03-08 22:19 G	28104418.37	28104418.43	28104418.50	0.0143	0.0138
Mercury	72235-03-28 05:31 G	28104437.57	28104437.73	28104437.90	0.0143	0.0009
Mercury	72235-06-24 11:17 G	28104525.81	28104525.97	28104526.13	0.0143	0.0034
Mercury	72235-09-20 16:48 G	28104614.06	28104614.20	28104614.35	0.0143	0.0060
Mercury	72235-12-17 22:34 G	28104702.32	28104702.44	28104702.57	0.0143	0.0086
Mercury	72236-03-15 04:19 G	28104790.59	28104790.68	28104790.78	0.0143	0.0113

Mercury	72236-06-11 10:19 G	28104878.89	28104878.93	28104878.96	0.0143	0.0139
Mars	72253-01-09 11:03 G	28110934.89	28110934.96	28110935.07	0.0137	0.0130
Venus	72271-07-23 08:39 G	28117703.79	28117703.86	28117703.96	0.0134	0.0124
Earth	72271-08-10 11:17 G	28117721.92	28117721.97	28117722.07	0.0134	0.0128
Moon	72271-08-10 13:41 G	28117722.06	28117722.07	28117722.10	0.0134	0.0134 *
Venus	72272-03-05 13:55 G	28117929.94	28117930.08	28117930.26	0.0134	0.0092
Moon	72272-08-13 15:07 G	28118090.94	28118091.13	28118091.33	0.0134	0.0083
Earth	72272-08-13 17:31 G	28118091.05	28118091.23	28118091.42	0.0134	0.0090 *
Venus	72272-10-17 19:41 G	28118156.13	28118156.32	28118156.52	0.0134	0.0058
Venus	72273-06-01 01:27 G	28118382.35	28118382.56	28118382.77	0.0134	0.0025
Earth	72273-08-17 23:17 G	28118460.25	28118460.47	28118460.71	0.0134	0.0051
Moon	72273-08-18 01:12 G	28118460.33	28118460.55	28118460.80	0.0134	0.0058 *
Jupiter	72273-09-05 15:51 G	28118478.67	28118479.16	28118479.66	0.0134	0.0002
Venus	72274-01-13 06:58 G	28118608.58	28118608.79	28118609.01	0.0134	0.0008
Moon	72274-08-22 03:22 G	28118829.40	28118829.64	28118829.88	0.0134	0.0010
Earth	72274-08-22 05:46 G	28118829.49	28118829.74	28118829.99	0.0134	0.0012 *
Venus	72274-08-27 12:29 G	28118834.82	28118835.02	28118835.23	0.0134	0.0041
Venus	72275-04-10 18:00 G	28119061.08	28119061.25	28119061.44	0.0135	0.0075
Earth	72275-08-26 12:00 G	28119198.76	28119199.00	28119199.25	0.0135	0.0027
Moon	72275-08-26 14:24 G	28119198.86	28119199.10	28119199.36	0.0135	0.0027 *
Venus	72275-11-22 23:46 G	28119287.37	28119287.49	28119287.63	0.0135	0.0108
Moon	72276-08-29 16:19 G	28119567.97	28119568.18	28119568.40	0.0135	0.0063
Earth	72276-08-29 18:29 G	28119568.06	28119568.27	28119568.50	0.0135	0.0066 *
Mercury	72276-10-22 20:39 G	28119622.32	28119622.36	28119622.41	0.0135	0.0128
Mercury	72277-01-19 01:12 G	28119710.46	28119710.55	28119710.64	0.0135	0.0107
Mercury	72277-04-17 05:31 G	28119798.62	28119798.73	28119798.86	0.0135	0.0086
Mercury	72277-07-14 10:05 G	28119886.79	28119886.92	28119887.06	0.0135	0.0065
Earth	72277-09-03 01:27 G	28119937.40	28119937.56	28119937.72	0.0135	0.0104
Moon	72277-09-03 03:51 G	28119937.53	28119937.66	28119937.83	0.0135	0.0111 *
Mercury	72277-10-10 14:39 G	28119974.96	28119975.11	28119975.25	0.0135	0.0044

Mercury	72278-01-06 18:43 G	28120063.14	28120063.28	28120063.44	0.0135	0.0025
Mercury	72278-04-04 23:17 G	28120151.32	28120151.47	28120151.62	0.0135	0.0003
Mercury	72278-07-02 03:36 G	28120239.50	28120239.65	28120239.80	0.0135	0.0018
Mercury	72278-09-28 07:41 G	28120327.68	28120327.82	28120327.97	0.0135	0.0038
Mercury	72278-12-25 12:00 G	28120415.87	28120416.00	28120416.14	0.0135	0.0058
Mercury	72279-03-23 16:05 G	28120504.06	28120504.17	28120504.30	0.0135	0.0079
Mercury	72279-06-19 20:24 G	28120592.25	28120592.35	28120592.46	0.0135	0.0098
Mercury	72279-09-16 00:29 G	28120680.46	28120680.52	28120680.60	0.0135	0.0118
Venus	72313-02-01 02:24 G	28132871.59	28132871.60	28132871.63	0.0144	0.0143
Moon	72313-02-08 20:24 G	28132879.31	28132879.35	28132879.42	0.0144	0.0140
Venus	72313-09-15 14:39 G	28133097.96	28133098.11	28133098.27	0.0144	0.0102
Moon	72314-02-13 19:12 G	28133249.13	28133249.30	28133249.49	0.0144	0.0106
Earth	72314-02-13 21:07 G	28133249.21	28133249.38	28133249.58	0.0144	0.0099 *
Venus	72314-04-30 02:39 G	28133324.42	28133324.61	28133324.81	0.0144	0.0061
Jupiter	72314-12-01 06:58 G	28133539.32	28133539.79	28133540.29	0.0144	0.0066
Venus	72314-12-12 14:53 G	28133550.91	28133551.12	28133551.34	0.0144	0.0020
Earth	72315-02-19 00:00 G	28133619.27	28133619.50	28133619.75	0.0144	0.0050
Moon	72315-02-19 01:27 G	28133619.33	28133619.56	28133619.80	0.0144	0.0046 *
Venus	72315-07-27 02:53 G	28133777.40	28133777.62	28133777.84	0.0144	0.0021
Moon	72316-02-24 02:39 G	28133989.34	28133989.61	28133989.88	0.0144	0.0001
Earth	72316-02-24 02:53 G	28133989.36	28133989.62	28133989.88	0.0144	0.0001 *
Venus	72316-03-09 14:39 G	28134003.91	28134004.11	28134004.31	0.0144	0.0062
Venus	72316-10-22 02:10 G	28134230.45	28134230.59	28134230.75	0.0144	0.0103
Earth	72317-02-28 05:03 G	28134359.47	28134359.71	28134359.96	0.0143	0.0048
Moon	72317-02-28 05:03 G	28134359.48	28134359.71	28134359.96	0.0143	0.0044 *
Venus	72317-06-05 13:41 G	28134457.07	28134457.07	28134457.10	0.0143	0.0143
Mercury	72317-11-05 03:36 G	28134609.62	28134609.65	28134609.71	0.0143	0.0138
Mercury	72318-02-01 09:07 G	28134697.79	28134697.88	28134697.99	0.0143	0.0112
Earth	72318-03-05 06:43 G	28134729.60	28134729.78	28134729.98	0.0143	0.0097
Moon	72318-03-05 08:10 G	28134729.66	28134729.84	28134730.03	0.0143	0.0104 *

Mercury	72318-04-30 14:39 G	28134785.99	28134786.11	28134786.24	0.0143	0.0087
Mercury	72318-07-27 20:10 G	28134874.20	28134874.34	28134874.49	0.0143	0.0062
Mercury	72318-10-24 01:41 G	28134962.42	28134962.57	28134962.73	0.0143	0.0036
Mercury	72319-01-20 07:12 G	28135050.64	28135050.80	28135050.96	0.0143	0.0011
Moon	72319-03-10 06:15 G	28135099.71	28135099.76	28135099.85	0.0143	0.0137
Mercury	72319-04-18 12:43 G	28135138.88	28135139.03	28135139.20	0.0143	0.0016
Mercury	72319-07-15 18:29 G	28135227.11	28135227.27	28135227.43	0.0143	0.0041
Mercury	72319-10-12 00:00 G	28135315.36	28135315.50	28135315.65	0.0143	0.0068
Mercury	72320-01-08 05:31 G	28135403.62	28135403.73	28135403.87	0.0143	0.0094
Mercury	72320-04-05 11:31 G	28135491.90	28135491.98	28135492.07	0.0143	0.0120
Mars	72335-10-05 14:53 G	28141152.98	28141153.12	28141153.31	0.0137	0.0113
Earth	72355-08-11 22:19 G	28148403.35	28148403.43	28148403.56	0.0134	0.0122
Moon	72355-08-12 00:15 G	28148403.40	28148403.51	28148403.66	0.0134	0.0115 *
Venus	72355-11-05 00:15 G	28148488.40	28148488.51	28148488.66	0.0134	0.0106
Venus	72356-06-18 06:00 G	28148714.58	28148714.75	28148714.94	0.0134	0.0073
Moon	72356-08-15 02:53 G	28148772.46	28148772.62	28148772.82	0.0134	0.0092
Earth	72356-08-15 04:19 G	28148772.50	28148772.68	28148772.89	0.0134	0.0084 *
Venus	72357-01-30 11:46 G	28148940.78	28148940.99	28148941.20	0.0134	0.0040
Earth	72357-08-19 10:34 G	28149141.71	28149141.94	28149142.18	0.0134	0.0046
Moon	72357-08-19 12:43 G	28149141.79	28149142.03	28149142.28	0.0134	0.0040 *
Venus	72357-09-13 17:17 G	28149167.00	28149167.22	28149167.44	0.0134	0.0007
Venus	72358-04-27 22:48 G	28149393.24	28149393.45	28149393.67	0.0134	0.0027
Moon	72358-08-23 15:07 G	28149510.89	28149511.13	28149511.38	0.0134	0.0012
Earth	72358-08-23 16:48 G	28149510.95	28149511.20	28149511.46	0.0134	0.0007 *
Venus	72358-12-10 04:34 G	28149619.50	28149619.69	28149619.88	0.0135	0.0060
Venus	72359-07-24 10:19 G	28149845.77	28149845.93	28149846.09	0.0135	0.0093
Earth	72359-08-27 22:48 G	28149880.22	28149880.45	28149880.71	0.0135	0.0033
Moon	72359-08-28 00:58 G	28149880.30	28149880.54	28149880.80	0.0135	0.0033 *
Venus	72360-03-06 15:51 G	28150072.10	28150072.16	28150072.24	0.0135	0.0126
Moon	72360-08-31 03:22 G	28150249.45	28150249.64	28150249.85	0.0135	0.0074

Earth	72360-08-31 05:31 G	28150249.52	28150249.73	28150249.95	0.0135	0.0071	*
Mercury	72360-11-13 03:51 G	28150323.60	28150323.66	28150323.73	0.0135	0.0121	
Mercury	72361-02-09 08:24 G	28150411.75	28150411.85	28150411.96	0.0135	0.0100	
Mercury	72361-05-08 12:43 G	28150499.91	28150500.03	28150500.16	0.0135	0.0079	
Mercury	72361-08-04 17:17 G	28150588.09	28150588.22	28150588.36	0.0135	0.0058	
Earth	72361-09-04 12:00 G	28150618.87	28150619.00	28150619.16	0.0135	0.0110	
Moon	72361-09-04 13:55 G	28150618.93	28150619.08	28150619.26	0.0135	0.0105	*
Mercury	72361-10-31 21:51 G	28150676.26	28150676.41	28150676.56	0.0135	0.0037	
Mercury	72362-01-28 02:10 G	28150764.44	28150764.59	28150764.74	0.0135	0.0017	
Mercury	72362-04-26 06:29 G	28150852.62	28150852.77	28150852.92	0.0135	0.0004	
Mercury	72362-07-23 10:48 G	28150940.80	28150940.95	28150941.10	0.0135	0.0024	
Mercury	72362-10-19 14:53 G	28151028.99	28151029.12	28151029.27	0.0135	0.0045	
Mercury	72363-01-15 19:12 G	28151117.17	28151117.30	28151117.44	0.0135	0.0065	
Mercury	72363-04-13 23:17 G	28151205.36	28151205.47	28151205.60	0.0135	0.0086	
Mercury	72363-07-11 03:36 G	28151293.56	28151293.65	28151293.75	0.0135	0.0105	
Mercury	72363-10-07 07:55 G	28151381.77	28151381.83	28151381.88	0.0135	0.0125	
Mars	72380-01-13 21:22 G	28157324.07	28157324.39	28157324.72	0.0141	0.0004	
Earth	72397-02-09 03:36 G	28163560.62	28163560.65	28163560.71	0.0144	0.0141	
Venus	72397-05-15 20:24 G	28163656.25	28163656.35	28163656.48	0.0144	0.0122	
Venus	72397-12-28 08:39 G	28163882.70	28163882.86	28163883.06	0.0144	0.0081	
Moon	72398-02-14 04:19 G	28163930.47	28163930.68	28163930.90	0.0144	0.0085	
Earth	72398-02-14 06:43 G	28163930.60	28163930.78	28163930.99	0.0144	0.0093	*
Venus	72398-08-11 20:53 G	28164109.17	28164109.37	28164109.59	0.0144	0.0040	
Earth	72399-02-19 09:36 G	28164300.67	28164300.90	28164301.16	0.0144	0.0044	
Moon	72399-02-19 11:31 G	28164300.75	28164300.98	28164301.22	0.0144	0.0048	*
Venus	72399-03-26 09:07 G	28164335.66	28164335.88	28164336.10	0.0144	0.0003	
Venus	72399-11-07 20:53 G	28164562.16	28164562.37	28164562.58	0.0144	0.0043	
Moon	72400-02-24 11:03 G	28164670.69	28164670.96	28164671.23	0.0144	0.0006	
Earth	72400-02-24 12:29 G	28164670.77	28164671.02	28164671.28	0.0144	0.0006	*
Venus	72400-06-21 08:39 G	28164788.69	28164788.86	28164789.04	0.0144	0.0084	

Venus	72401-02-02 20:10 G	28165015.25	28165015.34	28165015.46	0.0143	0.0124
Earth	72401-02-28 14:39 G	28165040.88	28165041.11	28165041.36	0.0143	0.0054
Moon	72401-02-28 14:53 G	28165040.90	28165041.12	28165041.35	0.0143	0.0060 *
Mercury	72401-11-25 11:03 G	28165310.90	28165310.96	28165311.03	0.0143	0.0130
Mercury	72402-02-21 16:34 G	28165399.08	28165399.19	28165399.30	0.0143	0.0105
Moon	72402-03-05 16:19 G	28165411.00	28165411.18	28165411.39	0.0143	0.0095
Earth	72402-03-05 16:19 G	28165411.02	28165411.18	28165411.37	0.0143	0.0103 *
Mercury	72402-05-20 21:51 G	28165487.28	28165487.41	28165487.55	0.0143	0.0080
Mercury	72402-08-17 03:22 G	28165575.50	28165575.64	28165575.79	0.0143	0.0054
Mercury	72402-11-13 08:53 G	28165663.72	28165663.87	28165664.03	0.0143	0.0029
Mercury	72403-02-09 14:24 G	28165751.94	28165752.10	28165752.26	0.0143	0.0004
Mercury	72403-05-08 19:55 G	28165840.18	28165840.33	28165840.49	0.0143	0.0023
Mercury	72403-08-05 01:41 G	28165928.42	28165928.57	28165928.72	0.0143	0.0049
Mercury	72403-11-01 07:12 G	28166016.67	28166016.80	28166016.94	0.0143	0.0075
Mercury	72404-01-28 12:58 G	28166104.93	28166105.04	28166105.16	0.0143	0.0101
Mercury	72404-04-25 18:29 G	28166193.21	28166193.27	28166193.35	0.0143	0.0128
Mars	72420-05-30 04:48 G	28172071.44	28172071.70	28172072.00	0.0137	0.0035
Venus	72439-07-05 11:03 G	28179046.87	28179046.96	28179047.07	0.0134	0.0119
Earth	72439-08-12 10:19 G	28179084.80	28179084.93	28179085.05	0.0134	0.0116
Moon	72439-08-12 11:03 G	28179084.86	28179084.96	28179085.07	0.0134	0.0122 *
Venus	72440-02-16 16:48 G	28179273.03	28179273.20	28179273.36	0.0134	0.0087
Moon	72440-08-15 14:24 G	28179453.91	28179454.10	28179454.32	0.0134	0.0071
Earth	72440-08-15 15:51 G	28179453.97	28179454.16	28179454.38	0.0134	0.0078 *
Venus	72440-09-29 21:51 G	28179499.23	28179499.41	28179499.62	0.0134	0.0055
Venus	72441-05-14 03:36 G	28179725.44	28179725.65	28179725.87	0.0134	0.0021
Earth	72441-08-19 21:51 G	28179823.18	28179823.41	28179823.66	0.0134	0.0040
Moon	72441-08-19 23:03 G	28179823.22	28179823.46	28179823.70	0.0134	0.0046 *
Venus	72441-12-26 09:22 G	28179951.67	28179951.89	28179952.11	0.0134	0.0012
Venus	72442-08-09 14:39 G	28180177.92	28180178.11	28180178.33	0.0134	0.0046
Moon	72442-08-24 02:39 G	28180192.37	28180192.61	28180192.86	0.0134	0.0004

Earth	72442-08-24 04:05 G	28180192.42	28180192.67	28180192.93	0.0134	0.0003	*
Venus	72443-03-23 20:10 G	28180404.18	28180404.34	28180404.53	0.0135	0.0079	
Earth	72443-08-28 10:05 G	28180561.70	28180561.92	28180562.18	0.0135	0.0039	
Moon	72443-08-28 11:46 G	28180561.75	28180561.99	28180562.24	0.0135	0.0037	*
Venus	72443-11-05 01:55 G	28180630.47	28180630.58	28180630.71	0.0135	0.0112	
Moon	72444-08-31 15:22 G	28180930.95	28180931.14	28180931.35	0.0135	0.0076	
Earth	72444-08-31 16:34 G	28180931.00	28180931.19	28180931.41	0.0135	0.0077	*
Mercury	72444-12-03 11:03 G	28181024.89	28181024.96	28181025.05	0.0135	0.0114	
Mercury	72445-03-01 15:36 G	28181113.05	28181113.15	28181113.27	0.0135	0.0093	
Mercury	72445-05-28 20:10 G	28181201.21	28181201.34	28181201.47	0.0135	0.0072	
Mercury	72445-08-25 00:29 G	28181289.38	28181289.52	28181289.67	0.0135	0.0051	
Earth	72445-09-04 23:31 G	28181300.36	28181300.48	28181300.61	0.0135	0.0115	
Moon	72445-09-05 01:27 G	28181300.45	28181300.56	28181300.68	0.0135	0.0120	*
Mercury	72445-11-21 05:03 G	28181377.56	28181377.71	28181377.86	0.0135	0.0030	
Mercury	72446-02-17 09:22 G	28181465.74	28181465.89	28181466.05	0.0135	0.0010	
Mercury	72446-05-16 13:41 G	28181553.92	28181554.07	28181554.23	0.0135	0.0012	
Mercury	72446-08-12 18:00 G	28181642.11	28181642.25	28181642.40	0.0135	0.0032	
Mercury	72446-11-08 22:19 G	28181730.29	28181730.43	28181730.57	0.0135	0.0052	
Mercury	72447-02-05 02:24 G	28181818.48	28181818.60	28181818.74	0.0135	0.0073	
Mercury	72447-05-04 06:43 G	28181906.68	28181906.78	28181906.89	0.0135	0.0092	
Mercury	72447-07-31 10:48 G	28181994.88	28181994.95	28181995.04	0.0135	0.0113	
Mercury	72447-10-27 14:53 G	28182083.10	28182083.12	28182083.16	0.0135	0.0133	
Venus	72481-01-13 02:10 G	28194214.57	28194214.59	28194214.65	0.0144	0.0141	
Earth	72481-02-09 12:29 G	28194241.96	28194242.02	28194242.13	0.0144	0.0136	
Moon	72481-02-09 15:51 G	28194242.07	28194242.16	28194242.29	0.0144	0.0129	*
Venus	72481-08-27 14:24 G	28194440.95	28194441.10	28194441.27	0.0144	0.0100	
Moon	72482-02-14 12:43 G	28194611.85	28194612.03	28194612.24	0.0144	0.0095	
Earth	72482-02-14 15:51 G	28194611.97	28194612.16	28194612.38	0.0144	0.0087	*
Venus	72482-04-11 02:39 G	28194667.41	28194667.61	28194667.81	0.0144	0.0059	
Venus	72482-11-23 14:53 G	28194893.90	28194894.12	28194894.33	0.0144	0.0018	

Earth	72483-02-19 18:43 G	28194982.03	28194982.28	28194982.53	0.0144	0.0038
Moon	72483-02-19 21:07 G	28194982.14	28194982.38	28194982.63	0.0144	0.0033 *
Venus	72483-07-08 02:39 G	28195120.40	28195120.61	28195120.83	0.0144	0.0023
Venus	72484-02-19 14:10 G	28195346.91	28195347.09	28195347.30	0.0144	0.0065
Moon	72484-02-24 19:41 G	28195352.06	28195352.32	28195352.59	0.0144	0.0011
Earth	72484-02-24 21:22 G	28195352.13	28195352.39	28195352.65	0.0144	0.0011 *
Venus	72484-10-03 01:55 G	28195573.44	28195573.58	28195573.74	0.0143	0.0105
Earth	72485-02-28 23:17 G	28195722.24	28195722.47	28195722.71	0.0143	0.0060
Moon	72485-03-01 00:43 G	28195722.31	28195722.53	28195722.77	0.0143	0.0057 *
Mercury	72485-12-15 18:00 G	28196012.18	28196012.25	28196012.33	0.0143	0.0123
Earth	72486-03-06 00:43 G	28196092.37	28196092.53	28196092.71	0.0143	0.0108
Moon	72486-03-06 00:29 G	28196092.38	28196092.52	28196092.70	0.0143	0.0115 *
Mercury	72486-03-13 23:17 G	28196100.37	28196100.47	28196100.59	0.0143	0.0098
Mercury	72486-06-10 04:48 G	28196188.57	28196188.70	28196188.84	0.0143	0.0073
Mercury	72486-09-06 10:19 G	28196276.78	28196276.93	28196277.08	0.0143	0.0048
Mercury	72486-12-03 15:51 G	28196365.00	28196365.16	28196365.32	0.0143	0.0022
Mercury	72487-03-01 21:22 G	28196453.23	28196453.39	28196453.55	0.0143	0.0003
Mercury	72487-05-29 02:53 G	28196541.46	28196541.62	28196541.78	0.0143	0.0029
Mercury	72487-08-25 08:24 G	28196629.71	28196629.85	28196630.01	0.0143	0.0055
Mercury	72487-11-21 14:10 G	28196717.96	28196718.09	28196718.23	0.0143	0.0081
Mercury	72488-02-17 19:41 G	28196806.22	28196806.32	28196806.44	0.0143	0.0108
Mercury	72488-05-16 01:27 G	28196894.52	28196894.56	28196894.62	0.0143	0.0134
Venus	72523-03-05 21:07 G	28209605.37	28209605.38	28209605.40	0.0134	0.0134
Earth	72523-08-13 20:39 G	28209766.23	28209766.36	28209766.51	0.0134	0.0111
Moon	72523-08-13 21:07 G	28209766.23	28209766.38	28209766.56	0.0134	0.0104 *
Venus	72523-10-18 02:24 G	28209831.47	28209831.60	28209831.75	0.0134	0.0101
Venus	72524-05-31 08:10 G	28210057.66	28210057.84	28210058.03	0.0134	0.0069
Moon	72524-08-17 02:10 G	28210135.40	28210135.59	28210135.79	0.0134	0.0079
Earth	72524-08-17 02:24 G	28210135.40	28210135.60	28210135.82	0.0134	0.0072 *
Venus	72525-01-12 13:41 G	28210283.86	28210284.07	28210284.28	0.0134	0.0036

Earth	72525-08-21 08:24 G	28210504.62	28210504.85	28210505.10	0.0134	0.0034
Moon	72525-08-21 09:36 G	28210504.64	28210504.90	28210505.15	0.0134	0.0028 *
Venus	72525-08-26 19:12 G	28210510.08	28210510.30	28210510.52	0.0134	0.0003
Venus	72526-04-10 00:43 G	28210736.32	28210736.53	28210736.74	0.0134	0.0030
Moon	72526-08-25 14:10 G	28210873.85	28210874.09	28210874.34	0.0135	0.0002
Earth	72526-08-25 14:39 G	28210873.86	28210874.11	28210874.37	0.0135	0.0006 *
Venus	72526-11-22 06:15 G	28210962.57	28210962.76	28210962.96	0.0135	0.0064
Venus	72527-07-06 12:00 G	28211188.86	28211189.00	28211189.16	0.0135	0.0097
Earth	72527-08-29 20:39 G	28211243.14	28211243.36	28211243.61	0.0135	0.0044
Moon	72527-08-29 21:51 G	28211243.16	28211243.41	28211243.65	0.0135	0.0045 *
Venus	72528-02-17 17:31 G	28211415.19	28211415.23	28211415.30	0.0135	0.0130
Moon	72528-09-02 02:10 G	28211612.41	28211612.59	28211612.79	0.0135	0.0084
Earth	72528-09-02 03:22 G	28211612.45	28211612.64	28211612.84	0.0135	0.0082 *
Mercury	72528-09-27 13:55 G	28211638.03	28211638.08	28211638.12	0.0135	0.0128
Mercury	72528-12-24 18:15 G	28211726.17	28211726.26	28211726.36	0.0135	0.0107
Mercury	72529-03-22 22:48 G	28211814.34	28211814.45	28211814.57	0.0135	0.0086
Mercury	72529-06-19 03:22 G	28211902.51	28211902.64	28211902.78	0.0135	0.0065
Earth	72529-09-06 09:51 G	28211981.82	28211981.91	28211982.04	0.0135	0.0121
Moon	72529-09-06 10:34 G	28211981.83	28211981.94	28211982.09	0.0135	0.0117 *
Mercury	72529-09-15 07:41 G	28211990.68	28211990.82	28211990.97	0.0135	0.0044
Mercury	72529-12-12 12:15 G	28212078.86	28212079.01	28212079.16	0.0135	0.0023
Mercury	72530-03-10 16:34 G	28212167.04	28212167.19	28212167.35	0.0135	0.0003
Mercury	72530-06-06 20:53 G	28212255.22	28212255.37	28212255.52	0.0135	0.0018
Mercury	72530-09-03 01:12 G	28212343.41	28212343.55	28212343.70	0.0135	0.0038
Mercury	72530-11-30 05:31 G	28212431.59	28212431.73	28212431.87	0.0135	0.0059
Mercury	72531-02-26 09:36 G	28212519.79	28212519.90	28212520.03	0.0135	0.0079
Mercury	72531-05-25 13:55 G	28212607.98	28212608.08	28212608.19	0.0135	0.0099
Mercury	72531-08-21 18:00 G	28212696.19	28212696.25	28212696.33	0.0135	0.0119
Mars	72547-06-01 12:58 G	28218458.89	28218459.04	28218459.23	0.0141	0.0121
Earth	72565-02-10 22:05 G	28224923.33	28224923.42	28224923.55	0.0144	0.0130

Moon	72565-02-11 02:10 G	28224923.52	28224923.59	28224923.67	0.0144	0.0137 *
Venus	72565-04-27 20:39 G	28224999.24	28224999.36	28224999.48	0.0144	0.0119
Venus	72565-12-10 08:24 G	28225225.68	28225225.85	28225226.05	0.0144	0.0079
Moon	72566-02-15 21:51 G	28225293.20	28225293.41	28225293.65	0.0144	0.0074
Earth	72566-02-16 01:27 G	28225293.35	28225293.56	28225293.77	0.0144	0.0081 *
Venus	72566-07-24 20:39 G	28225452.16	28225452.36	28225452.58	0.0144	0.0037
Earth	72567-02-21 04:05 G	28225663.42	28225663.67	28225663.92	0.0144	0.0032
Moon	72567-02-21 06:43 G	28225663.54	28225663.78	28225664.03	0.0144	0.0038 *
Venus	72567-03-08 08:39 G	28225678.64	28225678.86	28225679.08	0.0144	0.0004
Venus	72567-10-20 20:24 G	28225905.14	28225905.35	28225905.56	0.0144	0.0045
Moon	72568-02-26 03:51 G	28226033.40	28226033.66	28226033.93	0.0144	0.0019
Earth	72568-02-26 06:29 G	28226033.52	28226033.77	28226034.03	0.0144	0.0017 *
Venus	72568-06-03 07:55 G	28226131.67	28226131.83	28226132.01	0.0143	0.0086
Venus	72569-01-15 19:27 G	28226358.23	28226358.31	28226358.43	0.0143	0.0126
Earth	72569-03-02 08:10 G	28226403.63	28226403.84	28226404.08	0.0143	0.0066
Moon	72569-03-02 09:36 G	28226403.70	28226403.90	28226404.13	0.0143	0.0070 *
Mercury	72569-10-09 19:27 G	28226625.30	28226625.31	28226625.35	0.0143	0.0142
Mercury	72570-01-06 00:58 G	28226713.46	28226713.54	28226713.64	0.0143	0.0116
Moon	72570-03-07 08:24 G	28226773.69	28226773.85	28226774.04	0.0143	0.0106
Earth	72570-03-07 09:36 G	28226773.77	28226773.90	28226774.08	0.0143	0.0114 *
Mercury	72570-04-04 06:29 G	28226801.65	28226801.77	28226801.89	0.0143	0.0091
Mercury	72570-07-01 11:46 G	28226889.86	28226889.99	28226890.14	0.0143	0.0066
Mercury	72570-09-27 17:17 G	28226978.07	28226978.22	28226978.38	0.0143	0.0041
Mercury	72570-12-24 22:48 G	28227066.29	28227066.45	28227066.61	0.0143	0.0016
Mercury	72571-03-23 04:19 G	28227154.52	28227154.68	28227154.84	0.0143	0.0010
Mercury	72571-06-19 09:51 G	28227242.76	28227242.91	28227243.07	0.0143	0.0036
Mercury	72571-09-15 15:22 G	28227331.00	28227331.14	28227331.29	0.0143	0.0062
Mercury	72571-12-12 21:07 G	28227419.26	28227419.38	28227419.51	0.0143	0.0088
Mercury	72572-03-10 02:39 G	28227507.53	28227507.61	28227507.72	0.0143	0.0115
Mercury	72572-06-06 08:24 G	28227595.84	28227595.85	28227595.88	0.0143	0.0141

Mars	72587-10-18 20:10 G	28233208.09	28233208.34	28233208.60	0.0138	0.0064
Venus	72607-06-18 12:43 G	28240389.93	28240390.03	28240390.14	0.0134	0.0116
Moon	72607-08-15 06:43 G	28240447.65	28240447.78	28240447.94	0.0134	0.0110
Earth	72607-08-15 06:58 G	28240447.65	28240447.79	28240447.96	0.0134	0.0105 *
Venus	72608-01-30 18:00 G	28240616.09	28240616.25	28240616.43	0.0134	0.0083
Moon	72608-08-18 12:43 G	28240816.83	28240817.03	28240817.26	0.0134	0.0061
Earth	72608-08-18 12:58 G	28240816.84	28240817.04	28240817.27	0.0134	0.0067 *
Venus	72608-09-12 23:31 G	28240842.29	28240842.48	28240842.69	0.0134	0.0051
Venus	72609-04-27 05:03 G	28241068.50	28241068.71	28241068.93	0.0134	0.0018
Moon	72609-08-22 18:43 G	28241186.04	28241186.28	28241186.54	0.0134	0.0035
Earth	72609-08-22 19:12 G	28241186.06	28241186.30	28241186.55	0.0134	0.0028 *
Venus	72609-12-09 10:48 G	28241294.73	28241294.95	28241295.16	0.0134	0.0016
Venus	72610-07-23 16:19 G	28241520.98	28241521.18	28241521.38	0.0135	0.0049
Moon	72610-08-27 00:58 G	28241555.30	28241555.54	28241555.78	0.0135	0.0015
Earth	72610-08-27 01:12 G	28241555.30	28241555.55	28241555.80	0.0135	0.0010 *
Venus	72611-03-06 21:51 G	28241747.24	28241747.41	28241747.59	0.0135	0.0082
Earth	72611-08-31 07:27 G	28241924.58	28241924.81	28241925.05	0.0135	0.0049
Moon	72611-08-31 07:41 G	28241924.58	28241924.82	28241925.07	0.0135	0.0046 *
Venus	72611-10-19 03:36 G	28241973.54	28241973.65	28241973.76	0.0135	0.0115
Moon	72612-09-03 13:41 G	28242293.90	28242294.07	28242294.27	0.0135	0.0088
Earth	72612-09-03 13:41 G	28242293.90	28242294.07	28242294.28	0.0135	0.0088 *
Mercury	72612-10-18 20:39 G	28242339.31	28242339.36	28242339.44	0.0135	0.0122
Mercury	72613-01-15 01:27 G	28242427.46	28242427.56	28242427.67	0.0135	0.0100
Mercury	72613-04-13 06:00 G	28242515.63	28242515.75	28242515.88	0.0135	0.0079
Mercury	72613-07-10 10:34 G	28242603.80	28242603.94	28242604.08	0.0135	0.0058
Earth	72613-09-07 20:39 G	28242663.29	28242663.36	28242663.46	0.0135	0.0126
Moon	72613-09-07 21:07 G	28242663.33	28242663.38	28242663.47	0.0135	0.0130 *
Mercury	72613-10-06 15:07 G	28242691.98	28242692.13	28242692.27	0.0135	0.0037
Mercury	72614-01-02 19:27 G	28242780.16	28242780.31	28242780.46	0.0135	0.0016
Mercury	72614-03-31 23:46 G	28242868.34	28242868.49	28242868.64	0.0135	0.0004

Mercury	72614-06-28 04:05 G	28242956.52	28242956.67	28242956.82	0.0135	0.0025
Mercury	72614-09-24 08:24 G	28243044.71	28243044.85	28243045.00	0.0135	0.0045
Mercury	72614-12-21 12:43 G	28243132.90	28243133.03	28243133.16	0.0135	0.0066
Mercury	72615-03-19 17:03 G	28243221.09	28243221.21	28243221.32	0.0135	0.0086
Mercury	72615-06-15 20:53 G	28243309.29	28243309.37	28243309.48	0.0135	0.0107
Mercury	72615-09-12 01:27 G	28243397.51	28243397.56	28243397.61	0.0135	0.0126
Mars	72632-01-27 14:10 G	28249378.82	28249379.09	28249379.40	0.0141	0.0065
Venus	72648-12-27 02:39 G	28255557.56	28255557.61	28255557.68	0.0144	0.0138
Earth	72649-02-12 08:24 G	28255604.73	28255604.85	28255604.98	0.0144	0.0124
Moon	72649-02-12 11:46 G	28255604.86	28255604.99	28255605.15	0.0144	0.0118 *
Venus	72649-08-10 14:53 G	28255783.96	28255784.12	28255784.29	0.0144	0.0097
Moon	72650-02-17 07:27 G	28255974.61	28255974.81	28255975.03	0.0144	0.0084
Earth	72650-02-17 11:03 G	28255974.75	28255974.96	28255975.19	0.0144	0.0076 *
Venus	72650-03-25 02:53 G	28256010.42	28256010.62	28256010.82	0.0144	0.0056
Venus	72650-11-06 14:53 G	28256236.90	28256237.12	28256237.34	0.0144	0.0015
Earth	72651-02-22 13:41 G	28256344.82	28256345.07	28256345.33	0.0144	0.0027
Moon	72651-02-22 16:48 G	28256344.96	28256345.20	28256345.46	0.0144	0.0021 *
Venus	72651-06-21 02:39 G	28256463.40	28256463.61	28256463.83	0.0144	0.0026
Venus	72652-02-02 14:24 G	28256689.91	28256690.10	28256690.29	0.0144	0.0067
Moon	72652-02-27 13:12 G	28256714.80	28256715.05	28256715.32	0.0143	0.0021
Earth	72652-02-27 15:51 G	28256714.92	28256715.16	28256715.42	0.0143	0.0023 *
Venus	72652-09-16 01:41 G	28256916.44	28256916.57	28256916.73	0.0143	0.0108
Earth	72653-03-03 17:46 G	28257085.02	28257085.24	28257085.47	0.0143	0.0070
Moon	72653-03-03 20:24 G	28257085.13	28257085.35	28257085.57	0.0143	0.0069 *
Mercury	72653-10-31 02:39 G	28257326.57	28257326.61	28257326.68	0.0143	0.0134
Mercury	72654-01-27 08:10 G	28257414.74	28257414.84	28257414.94	0.0143	0.0109
Moon	72654-03-08 17:17 G	28257455.11	28257455.22	28257455.37	0.0143	0.0124
Earth	72654-03-08 18:43 G	28257455.16	28257455.28	28257455.45	0.0143	0.0119 *
Mercury	72654-04-25 13:27 G	28257502.94	28257503.06	28257503.19	0.0143	0.0085
Mercury	72654-07-22 18:58 G	28257591.15	28257591.29	28257591.44	0.0143	0.0059

Mercury	72654-10-19 00:29 G	28257679.36	28257679.52	28257679.67	0.0143	0.0034
Mercury	72655-01-15 05:46 G	28257767.59	28257767.74	28257767.91	0.0143	0.0010
Mercury	72655-04-13 11:17 G	28257855.82	28257855.97	28257856.13	0.0143	0.0018
Mercury	72655-07-10 16:48 G	28257944.05	28257944.20	28257944.36	0.0143	0.0043
Mercury	72655-10-06 22:34 G	28258032.30	28258032.44	28258032.58	0.0143	0.0069
Mercury	72656-01-03 04:05 G	28258120.56	28258120.67	28258120.80	0.0143	0.0095
Mercury	72656-03-31 09:36 G	28258208.83	28258208.90	28258209.00	0.0143	0.0122
Mars	72672-06-13 06:29 G	28264126.54	28264126.77	28264127.02	0.0137	0.0080
Venus	72691-02-15 21:51 G	28270948.38	28270948.41	28270948.47	0.0134	0.0131
Moon	72691-08-15 15:51 G	28271128.99	28271129.16	28271129.36	0.0134	0.0095
Earth	72691-08-15 16:48 G	28271129.04	28271129.20	28271129.37	0.0134	0.0101 *
Venus	72691-09-30 03:07 G	28271174.50	28271174.63	28271174.79	0.0134	0.0099
Venus	72692-05-13 08:53 G	28271400.69	28271400.87	28271401.07	0.0134	0.0065
Earth	72692-08-18 22:19 G	28271498.22	28271498.43	28271498.67	0.0134	0.0063
Moon	72692-08-18 23:17 G	28271498.28	28271498.47	28271498.70	0.0134	0.0070 *
Venus	72692-12-25 14:24 G	28271626.90	28271627.10	28271627.32	0.0134	0.0033
Venus	72693-08-08 20:10 G	28271853.12	28271853.34	28271853.55	0.0135	0.0003
Moon	72693-08-23 04:05 G	28271867.42	28271867.67	28271867.94	0.0135	0.0018
Earth	72693-08-23 04:48 G	28271867.45	28271867.70	28271867.94	0.0135	0.0024 *
Venus	72694-03-23 01:27 G	28272079.36	28272079.56	28272079.77	0.0135	0.0034
Earth	72694-08-27 10:48 G	28272236.70	28272236.95	28272237.20	0.0135	0.0015
Moon	72694-08-27 11:31 G	28272236.74	28272236.98	28272237.23	0.0135	0.0009 *
Venus	72694-11-04 07:12 G	28272305.61	28272305.80	28272305.99	0.0135	0.0067
Venus	72695-06-18 12:58 G	28272531.90	28272532.04	28272532.18	0.0135	0.0100
Moon	72695-08-31 16:19 G	28272605.96	28272606.18	28272606.43	0.0135	0.0057
Earth	72695-08-31 16:48 G	28272605.98	28272606.20	28272606.44	0.0135	0.0054 *
Venus	72696-01-30 18:43 G	28272758.25	28272758.28	28272758.31	0.0135	0.0133
Earth	72696-09-03 23:31 G	28272975.31	28272975.48	28272975.67	0.0135	0.0092
Moon	72696-09-03 23:31 G	28272975.32	28272975.48	28272975.67	0.0135	0.0093 *
Mercury	72696-11-08 03:51 G	28273040.59	28273040.66	28273040.75	0.0135	0.0116

Mercury	72697-02-04 08:39 G	28273128.75	28273128.86	28273128.97	0.0135	0.0094
Mercury	72697-05-03 12:58 G	28273216.92	28273217.04	28273217.17	0.0135	0.0073
Mercury	72697-07-30 17:31 G	28273305.09	28273305.23	28273305.37	0.0135	0.0052
Moon	72697-09-08 06:00 G	28273344.68	28273344.75	28273344.84	0.0135	0.0128
Earth	72697-09-08 06:15 G	28273344.72	28273344.76	28273344.84	0.0135	0.0131 *
Mercury	72697-10-26 22:05 G	28273393.27	28273393.42	28273393.57	0.0135	0.0031
Mercury	72698-01-23 02:24 G	28273481.45	28273481.60	28273481.76	0.0135	0.0011
Mercury	72698-04-21 06:43 G	28273569.63	28273569.78	28273569.94	0.0135	0.0011
Mercury	72698-07-18 11:03 G	28273657.82	28273657.96	28273658.11	0.0135	0.0031
Mercury	72698-10-14 15:22 G	28273746.01	28273746.14	28273746.29	0.0135	0.0052
Mercury	72699-01-10 19:55 G	28273834.20	28273834.33	28273834.45	0.0135	0.0072
Mercury	72699-04-08 23:46 G	28273922.39	28273922.49	28273922.61	0.0135	0.0093
Mercury	72699-07-06 04:05 G	28274010.60	28274010.67	28274010.76	0.0135	0.0112
Mercury	72699-10-02 08:10 G	28274098.83	28274098.84	28274098.88	0.0135	0.0133
Earth	72733-02-13 18:00 G	28286286.13	28286286.25	28286286.42	0.0144	0.0119
Moon	72733-02-13 22:19 G	28286286.31	28286286.43	28286286.56	0.0144	0.0125 *
Venus	72733-04-10 20:53 G	28286342.26	28286342.37	28286342.51	0.0144	0.0116
Venus	72733-11-23 09:07 G	28286568.70	28286568.88	28286569.07	0.0144	0.0075
Moon	72734-02-18 17:17 G	28286656.00	28286656.22	28286656.46	0.0144	0.0063
Earth	72734-02-18 21:07 G	28286656.15	28286656.38	28286656.60	0.0144	0.0070 *
Venus	72734-07-07 21:07 G	28286795.17	28286795.38	28286795.60	0.0144	0.0034
Venus	72735-02-19 08:53 G	28287021.65	28287021.87	28287022.09	0.0144	0.0007
Earth	72735-02-23 23:17 G	28287026.22	28287026.47	28287026.73	0.0144	0.0022
Moon	72735-02-24 02:53 G	28287026.37	28287026.62	28287026.87	0.0144	0.0028 *
Venus	72735-10-03 20:24 G	28287248.15	28287248.35	28287248.56	0.0144	0.0048
Moon	72736-02-28 22:05 G	28287396.17	28287396.42	28287396.68	0.0144	0.0032
Earth	72736-02-29 01:41 G	28287396.32	28287396.57	28287396.82	0.0144	0.0027 *
Venus	72736-05-17 08:10 G	28287474.67	28287474.84	28287475.01	0.0143	0.0089
Venus	72736-12-29 19:27 G	28287701.24	28287701.31	28287701.42	0.0143	0.0130
Earth	72737-03-05 03:07 G	28287766.42	28287766.63	28287766.86	0.0143	0.0076

Moon	72737-03-05 05:31 G	28287766.53	28287766.73	28287766.95	0.0143	0.0079	*
Mercury	72737-11-21 09:51 G	28288027.85	28288027.91	28288027.99	0.0143	0.0127	
Mercury	72738-02-17 15:22 G	28288116.03	28288116.14	28288116.25	0.0143	0.0102	
Moon	72738-03-10 01:55 G	28288136.45	28288136.58	28288136.74	0.0143	0.0118	
Earth	72738-03-10 04:34 G	28288136.58	28288136.69	28288136.83	0.0143	0.0123	*
Mercury	72738-05-16 20:39 G	28288204.23	28288204.36	28288204.50	0.0143	0.0077	
Mercury	72738-08-13 02:10 G	28288292.44	28288292.59	28288292.74	0.0143	0.0052	
Mercury	72738-11-09 07:27 G	28288380.66	28288380.81	28288380.97	0.0143	0.0027	
Mercury	72739-02-05 12:58 G	28288468.88	28288469.04	28288469.20	0.0143	0.0003	
Mercury	72739-05-04 18:29 G	28288557.11	28288557.27	28288557.43	0.0143	0.0024	
Mercury	72739-08-01 00:00 G	28288645.35	28288645.50	28288645.66	0.0143	0.0050	
Mercury	72739-10-28 05:46 G	28288733.60	28288733.74	28288733.88	0.0143	0.0076	
Mercury	72740-01-24 11:03 G	28288821.86	28288821.96	28288822.09	0.0143	0.0103	
Mercury	72740-04-21 16:48 G	28288910.14	28288910.20	28288910.28	0.0143	0.0129	
Earth	72774-08-12 20:39 G	28301441.35	28301441.36	28301441.40	0.0134	0.0134	
Moon	72774-08-12 22:34 G	28301441.39	28301441.44	28301441.49	0.0134	0.0131	*
Venus	72775-05-31 13:12 G	28301732.94	28301733.05	28301733.17	0.0134	0.0113	
Moon	72775-08-17 00:58 G	28301810.37	28301810.54	28301810.72	0.0134	0.0100	
Earth	72775-08-17 02:24 G	28301810.44	28301810.60	28301810.79	0.0134	0.0096	*
Venus	72776-01-12 18:15 G	28301959.10	28301959.26	28301959.45	0.0134	0.0081	
Earth	72776-08-20 08:24 G	28302179.63	28302179.85	28302180.08	0.0134	0.0058	
Moon	72776-08-20 09:36 G	28302179.68	28302179.90	28302180.13	0.0134	0.0051	*
Venus	72776-08-25 23:46 G	28302185.30	28302185.49	28302185.70	0.0134	0.0048	
Venus	72777-04-09 05:17 G	28302411.51	28302411.72	28302411.94	0.0135	0.0015	
Moon	72777-08-24 12:43 G	28302548.79	28302549.03	28302549.29	0.0135	0.0027	
Earth	72777-08-24 14:24 G	28302548.86	28302549.10	28302549.36	0.0135	0.0020	*
Venus	72777-11-21 11:03 G	28302637.74	28302637.96	28302638.17	0.0135	0.0019	
Venus	72778-07-05 16:34 G	28302863.99	28302864.19	28302864.39	0.0135	0.0052	
Earth	72778-08-28 20:24 G	28302918.11	28302918.35	28302918.61	0.0135	0.0020	
Moon	72778-08-28 21:36 G	28302918.16	28302918.40	28302918.64	0.0135	0.0025	*

Venus	72779-02-16 22:19 G	28303090.26	28303090.43	28303090.59	0.0135	0.0085
Moon	72779-09-02 01:27 G	28303287.34	28303287.56	28303287.81	0.0135	0.0054
Earth	72779-09-02 02:53 G	28303287.40	28303287.62	28303287.85	0.0135	0.0058 *
Venus	72779-10-01 03:51 G	28303316.56	28303316.66	28303316.77	0.0135	0.0118
Mercury	72780-09-02 06:15 G	28303653.73	28303653.76	28303653.80	0.0135	0.0131
Earth	72780-09-05 09:07 G	28303656.72	28303656.88	28303657.07	0.0135	0.0097
Moon	72780-09-05 10:19 G	28303656.78	28303656.93	28303657.11	0.0135	0.0099 *
Mercury	72780-11-29 10:48 G	28303741.87	28303741.95	28303742.05	0.0135	0.0110
Mercury	72781-02-25 15:36 G	28303830.03	28303830.15	28303830.27	0.0135	0.0088
Mercury	72781-05-24 19:55 G	28303918.20	28303918.33	28303918.47	0.0135	0.0067
Mercury	72781-08-21 00:29 G	28304006.38	28304006.52	28304006.67	0.0135	0.0046
Mercury	72781-11-17 05:03 G	28304094.56	28304094.71	28304094.86	0.0135	0.0025
Mercury	72782-02-13 09:22 G	28304182.74	28304182.89	28304183.05	0.0135	0.0006
Mercury	72782-05-12 13:55 G	28304270.92	28304271.08	28304271.23	0.0135	0.0016
Mercury	72782-08-08 18:00 G	28304359.11	28304359.25	28304359.41	0.0135	0.0038
Mercury	72782-11-04 22:34 G	28304447.30	28304447.44	28304447.58	0.0135	0.0057
Mercury	72783-02-01 02:53 G	28304535.49	28304535.62	28304535.74	0.0135	0.0078
Mercury	72783-04-30 06:58 G	28304623.69	28304623.79	28304623.90	0.0135	0.0098
Mercury	72783-07-27 11:03 G	28304711.90	28304711.96	28304712.04	0.0135	0.0119
Mars	72799-06-15 04:19 G	28310513.38	28310513.68	28310513.99	0.0141	0.0055
Venus	72816-12-09 03:36 G	28316900.57	28316900.65	28316900.73	0.0144	0.0134
Earth	72817-02-14 04:05 G	28316967.52	28316967.67	28316967.84	0.0144	0.0113
Moon	72817-02-14 07:12 G	28316967.65	28316967.80	28316967.99	0.0144	0.0108 *
Venus	72817-07-23 15:07 G	28317126.98	28317127.13	28317127.31	0.0144	0.0094
Moon	72818-02-19 02:53 G	28317337.41	28317337.62	28317337.85	0.0144	0.0073
Earth	72818-02-19 06:43 G	28317337.56	28317337.78	28317338.02	0.0144	0.0065 *
Venus	72818-03-07 03:07 G	28317353.44	28317353.63	28317353.85	0.0144	0.0053
Venus	72818-10-19 15:07 G	28317579.91	28317580.13	28317580.35	0.0144	0.0012
Earth	72819-02-24 09:07 G	28317707.63	28317707.88	28317708.14	0.0144	0.0016
Moon	72819-02-24 12:43 G	28317707.78	28317708.03	28317708.29	0.0144	0.0009 *

Venus	72819-06-03 02:53 G	28317806.41	28317806.62	28317806.84	0.0144	0.0030
Venus	72820-01-15 14:24 G	28318032.92	28318033.10	28318033.30	0.0143	0.0071
Moon	72820-02-29 07:41 G	28318077.57	28318077.82	28318078.08	0.0143	0.0030
Earth	72820-02-29 11:17 G	28318077.72	28318077.97	28318078.22	0.0143	0.0033 *
Venus	72820-08-29 02:10 G	28318259.46	28318259.59	28318259.73	0.0143	0.0111
Earth	72821-03-05 12:58 G	28318447.83	28318448.04	28318448.25	0.0143	0.0081
Moon	72821-03-05 16:05 G	28318447.97	28318448.17	28318448.39	0.0143	0.0081 *
Mercury	72821-12-11 17:03 G	28318729.14	28318729.21	28318729.31	0.0143	0.0120
Mercury	72822-03-09 22:19 G	28318817.33	28318817.43	28318817.56	0.0143	0.0096
Moon	72822-03-10 11:31 G	28318817.90	28318817.98	28318818.09	0.0143	0.0133
Earth	72822-03-10 14:10 G	28318817.99	28318818.09	28318818.22	0.0143	0.0128 *
Mercury	72822-06-06 03:51 G	28318905.53	28318905.66	28318905.80	0.0143	0.0070
Mercury	72822-09-02 09:07 G	28318993.74	28318993.88	28318994.04	0.0143	0.0045
Mercury	72822-11-29 14:39 G	28319081.96	28319082.11	28319082.27	0.0143	0.0020
Mercury	72823-02-25 20:10 G	28319170.18	28319170.34	28319170.50	0.0143	0.0006
Mercury	72823-05-25 01:41 G	28319258.42	28319258.57	28319258.73	0.0143	0.0032
Mercury	72823-08-21 07:12 G	28319346.66	28319346.80	28319346.95	0.0143	0.0058
Mercury	72823-11-17 12:43 G	28319434.91	28319435.03	28319435.17	0.0143	0.0084
Mercury	72824-02-13 18:15 G	28319523.17	28319523.26	28319523.38	0.0143	0.0110
Mercury	72824-05-12 00:15 G	28319611.46	28319611.51	28319611.56	0.0143	0.0136
Mars	72839-11-01 23:17 G	28325263.19	28325263.47	28325263.76	0.0137	0.0019
Earth	72858-08-13 05:46 G	28332122.68	28332122.74	28332122.82	0.0134	0.0129
Moon	72858-08-13 07:41 G	28332122.78	28332122.82	28332122.89	0.0134	0.0131 *
Venus	72859-01-28 21:51 G	28332291.37	28332291.41	28332291.49	0.0134	0.0128
Moon	72859-08-17 09:22 G	28332491.71	28332491.89	28332492.11	0.0134	0.0087
Earth	72859-08-17 11:31 G	28332491.81	28332491.98	28332492.17	0.0134	0.0091 *
Venus	72859-09-12 03:22 G	28332517.50	28332517.64	28332517.80	0.0134	0.0096
Venus	72860-04-25 08:53 G	28332743.69	28332743.87	28332744.07	0.0134	0.0063
Earth	72860-08-20 17:17 G	28332861.00	28332861.22	28332861.46	0.0134	0.0053
Moon	72860-08-20 19:27 G	28332861.11	28332861.31	28332861.54	0.0134	0.0060 *

Venus	72860-12-07 14:24 G	28332969.89	28332970.10	28332970.32	0.0135	0.0030
Venus	72861-07-21 19:55 G	28333196.12	28333196.33	28333196.55	0.0135	0.0005
Moon	72861-08-24 21:51 G	28333230.15	28333230.41	28333230.67	0.0135	0.0008
Earth	72861-08-24 23:31 G	28333230.23	28333230.48	28333230.73	0.0135	0.0015 *
Venus	72862-03-05 01:27 G	28333422.36	28333422.56	28333422.77	0.0135	0.0037
Earth	72862-08-29 05:31 G	28333599.49	28333599.73	28333599.98	0.0135	0.0024
Moon	72862-08-29 07:27 G	28333599.57	28333599.81	28333600.06	0.0135	0.0018 *
Venus	72862-10-17 06:58 G	28333648.61	28333648.79	28333648.98	0.0135	0.0070
Venus	72863-05-31 12:43 G	28333874.90	28333875.03	28333875.18	0.0135	0.0103
Moon	72863-09-02 09:51 G	28333968.70	28333968.91	28333969.15	0.0135	0.0068
Earth	72863-09-02 11:46 G	28333968.78	28333968.99	28333969.22	0.0135	0.0063 *
Earth	72864-09-05 18:15 G	28334338.11	28334338.26	28334338.44	0.0135	0.0102
Moon	72864-09-05 19:41 G	28334338.18	28334338.32	28334338.50	0.0135	0.0101 *
Mercury	72864-09-22 12:58 G	28334355.00	28334355.04	28334355.11	0.0135	0.0126
Mercury	72864-12-19 17:46 G	28334443.15	28334443.24	28334443.34	0.0135	0.0104
Mercury	72865-03-17 22:19 G	28334531.31	28334531.43	28334531.56	0.0135	0.0083
Mercury	72865-06-14 02:53 G	28334619.48	28334619.62	28334619.76	0.0135	0.0062
Mercury	72865-09-10 07:12 G	28334707.66	28334707.80	28334707.96	0.0135	0.0041
Mercury	72865-12-07 11:46 G	28334795.84	28334795.99	28334796.15	0.0135	0.0020
Mercury	72866-03-05 16:19 G	28334884.03	28334884.18	28334884.33	0.0135	0.0001
Mercury	72866-06-01 20:39 G	28334972.21	28334972.36	28334972.52	0.0135	0.0022
Mercury	72866-08-29 00:58 G	28335060.40	28335060.54	28335060.69	0.0135	0.0043
Mercury	72866-11-25 05:17 G	28335148.59	28335148.72	28335148.86	0.0135	0.0063
Mercury	72867-02-21 09:36 G	28335236.79	28335236.90	28335237.02	0.0135	0.0083
Mercury	72867-05-20 13:55 G	28335324.99	28335325.08	28335325.18	0.0135	0.0104
Mercury	72867-08-16 18:15 G	28335413.20	28335413.26	28335413.32	0.0135	0.0124
Mars	72884-02-09 00:58 G	28341433.42	28341433.54	28341433.73	0.0141	0.0124
Earth	72901-02-15 12:43 G	28347648.87	28347649.03	28347649.21	0.0144	0.0108
Moon	72901-02-15 16:19 G	28347649.03	28347649.18	28347649.35	0.0144	0.0113 *
Venus	72901-03-23 20:53 G	28347685.24	28347685.37	28347685.51	0.0144	0.0113

Venus	72901-11-05 08:53 G	28347911.69	28347911.87	28347912.06	0.0144	0.0072
Moon	72902-02-20 12:15 G	28348018.78	28348019.01	28348019.25	0.0144	0.0052
Earth	72902-02-20 15:22 G	28348018.92	28348019.14	28348019.38	0.0144	0.0060 *
Venus	72902-06-19 20:53 G	28348138.15	28348138.37	28348138.58	0.0144	0.0031
Venus	72903-02-01 08:39 G	28348364.64	28348364.86	28348365.08	0.0144	0.0010
Earth	72903-02-25 17:46 G	28348388.99	28348389.24	28348389.50	0.0144	0.0011
Moon	72903-02-25 21:36 G	28348389.15	28348389.40	28348389.66	0.0144	0.0018 *
Venus	72903-09-15 20:24 G	28348591.14	28348591.35	28348591.55	0.0144	0.0051
Moon	72904-03-01 16:05 G	28348758.94	28348759.17	28348759.43	0.0143	0.0044
Earth	72904-03-01 20:10 G	28348759.09	28348759.34	28348759.59	0.0143	0.0038 *
Venus	72904-04-29 07:41 G	28348817.67	28348817.82	28348818.00	0.0143	0.0092
Venus	72904-12-11 19:41 G	28349044.24	28349044.32	28349044.41	0.0143	0.0132
Earth	72905-03-06 21:22 G	28349129.20	28349129.39	28349129.61	0.0143	0.0087
Moon	72905-03-07 00:58 G	28349129.34	28349129.54	28349129.74	0.0143	0.0088 *
Mercury	72905-10-05 18:58 G	28349342.26	28349342.29	28349342.34	0.0143	0.0138
Mercury	72906-01-02 00:15 G	28349430.42	28349430.51	28349430.61	0.0143	0.0113
Moon	72906-03-11 19:41 G	28349499.22	28349499.32	28349499.45	0.0143	0.0129
Earth	72906-03-11 23:31 G	28349499.39	28349499.48	28349499.57	0.0143	0.0134 *
Mercury	72906-03-31 05:31 G	28349518.61	28349518.73	28349518.86	0.0143	0.0088
Mercury	72906-06-27 11:03 G	28349606.82	28349606.96	28349607.10	0.0143	0.0063
Mercury	72906-09-23 16:19 G	28349695.03	28349695.18	28349695.34	0.0143	0.0038
Mercury	72906-12-20 21:51 G	28349783.25	28349783.41	28349783.57	0.0143	0.0013
Mercury	72907-03-19 03:22 G	28349871.48	28349871.64	28349871.80	0.0143	0.0013
Mercury	72907-06-15 08:39 G	28349959.71	28349959.86	28349960.02	0.0143	0.0039
Mercury	72907-09-11 14:10 G	28350047.95	28350048.09	28350048.24	0.0143	0.0065
Mercury	72907-12-08 19:41 G	28350136.21	28350136.32	28350136.46	0.0143	0.0091
Mercury	72908-03-06 01:27 G	28350224.48	28350224.56	28350224.66	0.0143	0.0117
Mars	72924-06-27 10:48 G	28356181.85	28356181.95	28356182.09	0.0137	0.0124
Earth	72942-08-14 15:22 G	28362804.05	28362804.14	28362804.24	0.0134	0.0124
Moon	72942-08-14 17:46 G	28362804.16	28362804.24	28362804.35	0.0134	0.0123 *

Venus	72943-05-13 12:43 G	28363075.92	28363076.03	28363076.17	0.0134	0.0111
Moon	72943-08-18 18:00 G	28363173.08	28363173.25	28363173.46	0.0134	0.0090
Earth	72943-08-18 20:53 G	28363173.19	28363173.37	28363173.58	0.0134	0.0086 *
Venus	72943-12-25 18:29 G	28363302.09	28363302.27	28363302.45	0.0134	0.0078
Venus	72944-08-07 23:31 G	28363528.29	28363528.48	28363528.70	0.0134	0.0046
Earth	72944-08-22 02:39 G	28363542.39	28363542.61	28363542.86	0.0134	0.0049
Moon	72944-08-22 05:03 G	28363542.49	28363542.71	28363542.95	0.0134	0.0042 *
Venus	72945-03-22 05:17 G	28363754.50	28363754.72	28363754.94	0.0134	0.0012
Moon	72945-08-26 06:15 G	28363911.51	28363911.76	28363912.02	0.0135	0.0017
Earth	72945-08-26 09:07 G	28363911.63	28363911.88	28363912.13	0.0135	0.0009 *
Venus	72945-11-03 10:34 G	28363980.74	28363980.94	28363981.16	0.0135	0.0022
Venus	72946-06-17 16:19 G	28364206.99	28364207.18	28364207.39	0.0135	0.0055
Earth	72946-08-30 15:07 G	28364280.88	28364281.13	28364281.37	0.0135	0.0029
Moon	72946-08-30 17:03 G	28364280.98	28364281.21	28364281.45	0.0135	0.0036 *
Venus	72947-01-29 21:51 G	28364433.26	28364433.41	28364433.59	0.0135	0.0088
Moon	72947-09-03 18:58 G	28364650.07	28364650.29	28364650.53	0.0135	0.0063
Earth	72947-09-03 21:36 G	28364650.19	28364650.40	28364650.62	0.0135	0.0068 *
Venus	72947-09-13 03:36 G	28364659.57	28364659.65	28364659.76	0.0135	0.0121
Earth	72948-09-07 03:51 G	28365019.53	28365019.66	28365019.83	0.0135	0.0107
Moon	72948-09-07 06:15 G	28365019.64	28365019.76	28365019.92	0.0135	0.0110 *
Mercury	72948-10-13 19:55 G	28365056.27	28365056.33	28365056.41	0.0135	0.0120
Mercury	72949-01-10 00:43 G	28365144.43	28365144.53	28365144.64	0.0135	0.0098
Mercury	72949-04-08 05:17 G	28365232.60	28365232.72	28365232.85	0.0135	0.0077
Mercury	72949-07-05 09:51 G	28365320.77	28365320.91	28365321.05	0.0135	0.0056
Mercury	72949-10-01 14:10 G	28365408.95	28365409.09	28365409.25	0.0135	0.0036
Mercury	72949-12-28 18:43 G	28365497.13	28365497.28	28365497.44	0.0135	0.0015
Mercury	72950-03-26 23:17 G	28365585.32	28365585.47	28365585.62	0.0135	0.0007
Mercury	72950-06-23 03:36 G	28365673.50	28365673.65	28365673.80	0.0135	0.0028
Mercury	72950-09-19 08:10 G	28365761.69	28365761.84	28365761.98	0.0135	0.0049
Mercury	72950-12-16 12:15 G	28365849.89	28365850.01	28365850.15	0.0135	0.0069

Mercury	72951-03-14 16:34 G	28365938.08	28365938.19	28365938.31	0.0135	0.0089
Mercury	72951-06-10 20:53 G	28366026.29	28366026.37	28366026.46	0.0135	0.0110
Mercury	72951-09-07 01:12 G	28366114.51	28366114.55	28366114.59	0.0135	0.0130
Venus	72984-11-21 01:55 G	28378243.51	28378243.58	28378243.68	0.0144	0.0133
Earth	72985-02-15 20:39 G	28378330.20	28378330.36	28378330.56	0.0144	0.0103
Moon	72985-02-15 23:46 G	28378330.30	28378330.49	28378330.68	0.0144	0.0098 *
Venus	72985-07-05 14:10 G	28378469.93	28378470.09	28378470.26	0.0144	0.0092
Venus	72986-02-17 02:10 G	28378696.38	28378696.59	28378696.79	0.0144	0.0051
Moon	72986-02-20 20:10 G	28378700.12	28378700.34	28378700.58	0.0144	0.0062
Earth	72986-02-20 23:46 G	28378700.25	28378700.49	28378700.73	0.0144	0.0054 *
Venus	72986-10-01 13:55 G	28378922.86	28378923.08	28378923.30	0.0144	0.0010
Earth	72987-02-26 02:10 G	28379070.33	28379070.59	28379070.84	0.0144	0.0006
Moon	72987-02-26 05:31 G	28379070.47	28379070.73	28379070.99	0.0144	0.0002 *
Venus	72987-05-16 01:41 G	28379149.36	28379149.57	28379149.79	0.0144	0.0031
Venus	72987-12-28 13:27 G	28379375.88	28379376.06	28379376.26	0.0143	0.0072
Moon	72988-03-02 00:29 G	28379440.27	28379440.52	28379440.77	0.0143	0.0039
Earth	72988-03-02 04:05 G	28379440.43	28379440.67	28379440.92	0.0143	0.0043 *
Venus	72988-08-11 00:58 G	28379602.42	28379602.54	28379602.69	0.0143	0.0112
Earth	72989-03-07 05:46 G	28379810.56	28379810.74	28379810.95	0.0143	0.0092
Moon	72989-03-07 09:36 G	28379810.72	28379810.90	28379811.11	0.0143	0.0093 *
Mercury	72989-10-26 01:55 G	28380043.52	28380043.58	28380043.64	0.0143	0.0131
Mercury	72990-01-22 06:58 G	28380131.70	28380131.79	28380131.91	0.0143	0.0107
Moon	72990-03-12 04:19 G	28380180.68	28380180.68	28380180.70	0.0143	0.0143
Earth	72990-03-12 07:12 G	28380180.77	28380180.80	28380180.89	0.0143	0.0140
Mercury	72990-04-20 12:29 G	28380219.89	28380220.02	28380220.15	0.0143	0.0082
Mercury	72990-07-17 17:46 G	28380308.10	28380308.24	28380308.39	0.0143	0.0057
Mercury	72990-10-13 23:17 G	28380396.32	28380396.47	28380396.63	0.0143	0.0032
Mercury	72991-01-10 04:48 G	28380484.54	28380484.70	28380484.86	0.0143	0.0007
Mercury	72991-04-08 10:05 G	28380572.77	28380572.92	28380573.08	0.0143	0.0020
Mercury	72991-07-05 15:36 G	28380661.00	28380661.15	28380661.31	0.0143	0.0045

Mercury 72991-10-01 21:07 G 28380749.25 28380749.38 28380749.53 0.0143 0.0071

Mercury 72991-12-29 02:53 G 28380837.50 28380837.62 28380837.74 0.0143 0.0097

Mercury 72992-03-26 08:39 G 28380925.78 28380925.86 28380925.94 0.0143 0.0123

74TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 74th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	73007-03-23 16:05	G	28386400.04	28386400.17	28386400.34	0.0138	0.0118	
Earth	73026-08-15 23:46	G	28393485.39	28393485.49	28393485.62	0.0134	0.0119	
Moon	73026-08-16 02:53	G	28393485.52	28393485.62	28393485.74	0.0134	0.0120	*
Venus	73027-01-11 21:36	G	28393634.35	28393634.40	28393634.49	0.0134	0.0127	
Moon	73027-08-20 02:53	G	28393854.42	28393854.62	28393854.84	0.0134	0.0078	
Earth	73027-08-20 05:46	G	28393854.55	28393854.74	28393854.95	0.0134	0.0082	*
Venus	73027-08-26 03:07	G	28393860.49	28393860.63	28393860.80	0.0134	0.0094	
Venus	73028-04-08 08:39	G	28394086.67	28394086.86	28394087.06	0.0134	0.0061	
Earth	73028-08-23 11:46	G	28394223.76	28394223.99	28394224.24	0.0134	0.0043	
Moon	73028-08-23 14:53	G	28394223.90	28394224.12	28394224.36	0.0134	0.0049	*
Venus	73028-11-20 14:10	G	28394312.88	28394313.09	28394313.30	0.0134	0.0028	
Venus	73029-07-04 19:55	G	28394539.11	28394539.33	28394539.54	0.0135	0.0006	
Moon	73029-08-27 15:22	G	28394592.88	28394593.14	28394593.39	0.0135	0.0003	
Earth	73029-08-27 18:00	G	28394593.00	28394593.25	28394593.50	0.0135	0.0005	*
Venus	73030-02-16 01:12	G	28394765.35	28394765.55	28394765.77	0.0135	0.0039	
Earth	73030-09-01 00:00	G	28394962.27	28394962.50	28394962.75	0.0135	0.0035	

Moon	73030-09-01 03:07 G	28394962.39	28394962.63	28394962.87	0.0135	0.0027 *
Venus	73030-09-30 06:58 G	28394991.61	28394991.79	28394991.98	0.0135	0.0072
Venus	73031-05-14 12:43 G	28395217.90	28395218.03	28395218.17	0.0135	0.0105
Moon	73031-09-05 03:51 G	28395331.46	28395331.66	28395331.87	0.0135	0.0079
Earth	73031-09-05 06:43 G	28395331.57	28395331.78	28395331.99	0.0135	0.0073 *
Earth	73032-09-08 13:12 G	28395700.93	28395701.05	28395701.21	0.0135	0.0112
Moon	73032-09-08 16:05 G	28395701.03	28395701.17	28395701.31	0.0135	0.0109 *
Mercury	73032-11-04 02:53 G	28395757.55	28395757.62	28395757.71	0.0135	0.0114
Mercury	73033-01-31 07:41 G	28395845.71	28395845.82	28395845.93	0.0135	0.0092
Mercury	73033-04-29 12:15 G	28395933.88	28395934.01	28395934.14	0.0135	0.0071
Mercury	73033-07-26 16:34 G	28396022.05	28396022.19	28396022.34	0.0135	0.0050
Mercury	73033-10-22 21:07 G	28396110.24	28396110.38	28396110.54	0.0135	0.0029
Mercury	73034-01-19 01:41 G	28396198.42	28396198.57	28396198.73	0.0135	0.0008
Mercury	73034-04-17 06:15 G	28396286.61	28396286.76	28396286.91	0.0135	0.0013
Mercury	73034-07-14 10:34 G	28396374.79	28396374.94	28396375.09	0.0135	0.0034
Mercury	73034-10-10 14:53 G	28396462.98	28396463.12	28396463.26	0.0135	0.0054
Mercury	73035-01-06 19:12 G	28396551.18	28396551.30	28396551.43	0.0135	0.0075
Mercury	73035-04-04 23:31 G	28396639.38	28396639.48	28396639.59	0.0135	0.0095
Mercury	73035-07-02 03:36 G	28396727.59	28396727.65	28396727.74	0.0135	0.0116
Mercury	73035-09-28 08:10 G	28396815.84	28396815.84	28396815.85	0.0136	0.0135
Mars	73051-06-28 08:39 G	28402567.53	28402567.86	28402568.20	0.0141	0.0004
Earth	73069-02-17 04:34 G	28409011.52	28409011.69	28409011.89	0.0144	0.0098
Moon	73069-02-17 06:58 G	28409011.62	28409011.79	28409011.99	0.0144	0.0102 *
Venus	73069-03-05 18:43 G	28409028.17	28409028.28	28409028.44	0.0144	0.0113
Venus	73069-10-18 06:43 G	28409254.61	28409254.78	28409254.99	0.0144	0.0072
Moon	73070-02-22 04:48 G	28409381.47	28409381.70	28409381.95	0.0144	0.0043
Earth	73070-02-22 07:12 G	28409381.57	28409381.80	28409382.06	0.0144	0.0050 *
Venus	73070-06-01 18:58 G	28409481.08	28409481.29	28409481.51	0.0144	0.0030
Venus	73071-01-14 06:58 G	28409707.57	28409707.79	28409708.01	0.0144	0.0011
Earth	73071-02-27 09:51 G	28409751.65	28409751.91	28409752.17	0.0143	0.0001

Moon	73071-02-27 13:12 G	28409751.79	28409752.05	28409752.31	0.0143	0.0008 *
Venus	73071-08-28 18:43 G	28409934.08	28409934.28	28409934.48	0.0143	0.0051
Moon	73072-03-03 08:24 G	28410121.63	28410121.85	28410122.10	0.0143	0.0055
Earth	73072-03-03 12:00 G	28410121.76	28410122.00	28410122.25	0.0143	0.0048 *
Venus	73072-04-11 06:00 G	28410160.60	28410160.75	28410160.94	0.0143	0.0093
Venus	73072-11-23 17:46 G	28410387.18	28410387.24	28410387.34	0.0143	0.0133
Earth	73073-03-08 13:27 G	28410491.90	28410492.06	28410492.27	0.0143	0.0098
Moon	73073-03-08 17:31 G	28410492.05	28410492.23	28410492.42	0.0143	0.0097 *
Mercury	73073-11-16 08:39 G	28410744.79	28410744.86	28410744.94	0.0143	0.0125
Mercury	73074-02-12 13:55 G	28410832.98	28410833.08	28410833.20	0.0143	0.0101
Moon	73074-03-13 11:46 G	28410861.96	28410861.99	28410862.04	0.0143	0.0141
Mercury	73074-05-11 19:12 G	28410921.17	28410921.30	28410921.44	0.0143	0.0076
Mercury	73074-08-08 00:43 G	28411009.38	28411009.53	28411009.68	0.0143	0.0051
Mercury	73074-11-04 06:00 G	28411097.60	28411097.75	28411097.91	0.0143	0.0026
Mercury	73075-01-31 11:31 G	28411185.82	28411185.98	28411186.14	0.0143	0.0001
Mercury	73075-04-29 17:03 G	28411274.05	28411274.21	28411274.37	0.0143	0.0025
Mercury	73075-07-26 22:34 G	28411362.29	28411362.44	28411362.59	0.0143	0.0051
Mercury	73075-10-23 04:05 G	28411450.53	28411450.67	28411450.81	0.0143	0.0077
Mercury	73076-01-19 09:36 G	28411538.79	28411538.90	28411539.01	0.0143	0.0103
Mercury	73076-04-16 15:07 G	28411627.07	28411627.13	28411627.21	0.0143	0.0129
Mars	73091-11-16 01:55 G	28417318.31	28417318.58	28417318.87	0.0138	0.0025
Earth	73110-08-17 09:07 G	28424166.77	28424166.88	28424167.03	0.0134	0.0115
Moon	73110-08-17 12:43 G	28424166.91	28424167.03	28424167.17	0.0134	0.0114 *
Venus	73111-04-26 12:29 G	28424418.90	28424419.02	28424419.15	0.0134	0.0109
Moon	73111-08-21 11:46 G	28424535.80	28424535.99	28424536.21	0.0134	0.0079
Earth	73111-08-21 15:22 G	28424535.94	28424536.14	28424536.35	0.0134	0.0077 *
Venus	73111-12-08 17:46 G	28424645.08	28424645.24	28424645.43	0.0134	0.0076
Venus	73112-07-21 23:17 G	28424871.28	28424871.47	28424871.69	0.0134	0.0044
Earth	73112-08-24 21:07 G	28424905.15	28424905.38	28424905.63	0.0134	0.0039
Moon	73112-08-25 00:29 G	28424905.28	28424905.52	28424905.76	0.0134	0.0032 *

Venus	73113-03-05 05:03 G	28425097.50	28425097.71	28425097.93	0.0134	0.0010
Moon	73113-08-29 00:00 G	28425274.25	28425274.50	28425274.76	0.0135	0.0007
Earth	73113-08-29 03:36 G	28425274.40	28425274.65	28425274.90	0.0135	0.0001 *
Venus	73113-10-17 10:34 G	28425323.73	28425323.94	28425324.16	0.0135	0.0023
Venus	73114-05-31 16:19 G	28425549.99	28425550.18	28425550.38	0.0135	0.0056
Earth	73114-09-02 09:36 G	28425643.67	28425643.90	28425644.15	0.0135	0.0040
Moon	73114-09-02 12:29 G	28425643.80	28425644.02	28425644.26	0.0135	0.0047 *
Venus	73115-01-12 21:51 G	28425776.26	28425776.41	28425776.59	0.0135	0.0090
Venus	73115-08-27 03:36 G	28426002.58	28426002.65	28426002.75	0.0135	0.0123
Moon	73115-09-06 12:58 G	28426012.84	28426013.04	28426013.27	0.0135	0.0072
Earth	73115-09-06 16:19 G	28426012.99	28426013.18	28426013.39	0.0135	0.0079 *
Mercury	73116-08-29 05:17 G	28426370.68	28426370.72	28426370.77	0.0135	0.0129
Earth	73116-09-09 23:17 G	28426382.36	28426382.47	28426382.60	0.0135	0.0117
Moon	73116-09-10 02:10 G	28426382.50	28426382.59	28426382.71	0.0135	0.0122 *
Mercury	73116-11-25 10:05 G	28426458.83	28426458.92	28426459.01	0.0135	0.0107
Mercury	73117-02-21 14:39 G	28426546.99	28426547.11	28426547.23	0.0135	0.0086
Mercury	73117-05-20 19:12 G	28426635.17	28426635.30	28426635.44	0.0135	0.0065
Mercury	73117-08-16 23:46 G	28426723.34	28426723.49	28426723.64	0.0135	0.0044
Mercury	73117-11-13 04:19 G	28426811.53	28426811.68	28426811.83	0.0135	0.0023
Mercury	73118-02-09 08:39 G	28426899.71	28426899.86	28426900.02	0.0135	0.0004
Mercury	73118-05-08 13:12 G	28426987.90	28426988.05	28426988.20	0.0135	0.0019
Mercury	73118-08-04 17:31 G	28427076.09	28427076.23	28427076.38	0.0135	0.0040
Mercury	73118-10-31 21:51 G	28427164.28	28427164.41	28427164.55	0.0135	0.0061
Mercury	73119-01-28 02:24 G	28427252.48	28427252.60	28427252.72	0.0135	0.0081
Mercury	73119-04-26 06:29 G	28427340.68	28427340.77	28427340.88	0.0135	0.0101
Mercury	73119-07-23 10:34 G	28427428.89	28427428.94	28427429.02	0.0135	0.0122
Moon	73152-02-14 09:36 G	28439322.86	28439322.90	28439322.99	0.0144	0.0139
Earth	73152-02-14 10:34 G	28439322.91	28439322.94	28439323.02	0.0144	0.0141 *
Venus	73152-11-04 00:29 G	28439586.45	28439586.52	28439586.62	0.0144	0.0132
Earth	73153-02-18 13:12 G	28439692.87	28439693.05	28439693.27	0.0144	0.0093

Moon	73153-02-18 14:53 G	28439692.93	28439693.12	28439693.34	0.0144	0.0090	*
Venus	73153-06-18 12:29 G	28439812.86	28439813.02	28439813.20	0.0144	0.0091	
Venus	73154-01-31 00:43 G	28440039.32	28440039.53	28440039.73	0.0144	0.0050	
Moon	73154-02-23 13:41 G	28440062.84	28440063.07	28440063.31	0.0144	0.0051	
Earth	73154-02-23 16:05 G	28440062.93	28440063.17	28440063.42	0.0144	0.0044	*
Venus	73154-09-14 12:29 G	28440265.80	28440266.02	28440266.24	0.0144	0.0009	
Earth	73155-02-28 18:43 G	28440433.02	28440433.28	28440433.54	0.0143	0.0005	
Moon	73155-02-28 21:07 G	28440433.13	28440433.38	28440433.65	0.0143	0.0014	*
Venus	73155-04-29 00:15 G	28440492.30	28440492.51	28440492.73	0.0143	0.0032	
Venus	73155-12-11 12:15 G	28440718.83	28440719.01	28440719.20	0.0143	0.0073	
Moon	73156-03-04 17:17 G	28440802.99	28440803.22	28440803.47	0.0143	0.0049	
Earth	73156-03-04 20:39 G	28440803.13	28440803.36	28440803.61	0.0143	0.0054	*
Venus	73156-07-24 23:46 G	28440945.37	28440945.49	28440945.63	0.0143	0.0113	
Earth	73157-03-09 22:34 G	28441173.27	28441173.44	28441173.63	0.0143	0.0102	
Moon	73157-03-10 01:55 G	28441173.43	28441173.58	28441173.78	0.0143	0.0105	*
Mercury	73157-09-10 10:34 G	28441357.94	28441357.94	28441357.94	0.0143	0.0143	
Mercury	73157-12-07 15:36 G	28441446.07	28441446.15	28441446.24	0.0143	0.0119	
Mercury	73158-03-05 20:53 G	28441534.26	28441534.37	28441534.50	0.0143	0.0094	
Mercury	73158-06-02 02:24 G	28441622.46	28441622.60	28441622.74	0.0143	0.0069	
Mercury	73158-08-29 07:41 G	28441710.67	28441710.82	28441710.97	0.0143	0.0044	
Mercury	73158-11-25 12:58 G	28441798.89	28441799.04	28441799.20	0.0143	0.0019	
Mercury	73159-02-21 18:29 G	28441887.11	28441887.27	28441887.43	0.0143	0.0006	
Mercury	73159-05-21 00:00 G	28441975.34	28441975.50	28441975.65	0.0143	0.0032	
Mercury	73159-08-17 05:17 G	28442063.58	28442063.72	28442063.87	0.0143	0.0058	
Mercury	73159-11-13 10:48 G	28442151.83	28442151.95	28442152.09	0.0143	0.0084	
Mercury	73160-02-09 16:19 G	28442240.09	28442240.18	28442240.29	0.0143	0.0110	
Mercury	73160-05-07 22:05 G	28442328.38	28442328.42	28442328.47	0.0142	0.0136	
Earth	73194-08-17 17:31 G	28454848.11	28454848.23	28454848.39	0.0134	0.0111	
Moon	73194-08-17 20:53 G	28454848.25	28454848.37	28454848.53	0.0134	0.0109	*
Venus	73194-12-24 21:07 G	28454977.32	28454977.38	28454977.48	0.0134	0.0124	

Venus	73195-08-08 02:39 G	28455203.46	28455203.61	28455203.78	0.0134	0.0092
Moon	73195-08-21 20:10 G	28455217.14	28455217.34	28455217.57	0.0134	0.0070
Earth	73195-08-21 23:31 G	28455217.29	28455217.48	28455217.71	0.0134	0.0073 *
Venus	73196-03-21 08:10 G	28455429.65	28455429.84	28455430.04	0.0134	0.0059
Earth	73196-08-25 06:00 G	28455586.51	28455586.75	28455587.00	0.0134	0.0033
Moon	73196-08-25 09:36 G	28455586.66	28455586.90	28455587.14	0.0134	0.0038 *
Venus	73196-11-02 13:55 G	28455655.87	28455656.08	28455656.29	0.0134	0.0026
Venus	73197-06-16 19:41 G	28455882.10	28455882.32	28455882.53	0.0135	0.0008
Moon	73197-08-29 08:53 G	28455955.62	28455955.87	28455956.13	0.0135	0.0012
Earth	73197-08-29 12:15 G	28455955.76	28455956.01	28455956.26	0.0135	0.0006 *
Venus	73198-01-29 01:12 G	28456108.35	28456108.55	28456108.76	0.0135	0.0041
Earth	73198-09-02 18:29 G	28456325.05	28456325.27	28456325.52	0.0135	0.0045
Moon	73198-09-02 22:05 G	28456325.19	28456325.42	28456325.67	0.0135	0.0037 *
Venus	73198-09-12 06:43 G	28456334.61	28456334.78	28456334.97	0.0135	0.0074
Venus	73199-04-26 12:29 G	28456560.90	28456561.02	28456561.16	0.0135	0.0107
Moon	73199-09-06 22:05 G	28456694.24	28456694.42	28456694.62	0.0135	0.0090
Earth	73199-09-07 01:27 G	28456694.37	28456694.56	28456694.77	0.0135	0.0083 *
Earth	73200-09-10 08:10 G	28457063.75	28457063.84	28457063.96	0.0135	0.0122
Moon	73200-09-10 11:31 G	28457063.87	28457063.98	28457064.11	0.0135	0.0118 *
Mercury	73200-09-18 12:00 G	28457071.95	28457072.00	28457072.07	0.0135	0.0124
Mercury	73200-12-15 16:48 G	28457160.10	28457160.20	28457160.31	0.0135	0.0102
Mercury	73201-03-13 21:22 G	28457248.27	28457248.39	28457248.52	0.0135	0.0081
Mercury	73201-06-10 02:10 G	28457336.45	28457336.59	28457336.73	0.0135	0.0059
Mercury	73201-09-06 06:29 G	28457424.63	28457424.77	28457424.93	0.0135	0.0039
Mercury	73201-12-03 11:03 G	28457512.81	28457512.96	28457513.12	0.0135	0.0018
Mercury	73202-03-01 15:36 G	28457601.00	28457601.15	28457601.30	0.0135	0.0004
Mercury	73202-05-28 19:55 G	28457689.18	28457689.33	28457689.49	0.0135	0.0025
Mercury	73202-08-25 00:15 G	28457777.37	28457777.51	28457777.66	0.0135	0.0046
Mercury	73202-11-21 04:48 G	28457865.57	28457865.70	28457865.83	0.0135	0.0066
Mercury	73203-02-17 08:53 G	28457953.77	28457953.87	28457954.00	0.0135	0.0087

Mercury	73203-05-16 13:12 G	28458041.97	28458042.05	28458042.15	0.0136	0.0107
Mercury	73203-08-12 17:31 G	28458130.19	28458130.23	28458130.29	0.0136	0.0127
Mars	73218-11-13 18:00 G	28463702.10	28463702.25	28463702.41	0.0140	0.0124
Earth	73236-02-14 19:55 G	28470004.26	28470004.33	28470004.43	0.0144	0.0135
Moon	73236-02-14 19:55 G	28470004.27	28470004.33	28470004.40	0.0144	0.0138 *
Venus	73237-02-15 18:29 G	28470371.13	28470371.27	28470371.41	0.0144	0.0110
Earth	73237-02-18 22:34 G	28470374.25	28470374.44	28470374.66	0.0144	0.0087
Moon	73237-02-19 00:00 G	28470374.30	28470374.50	28470374.71	0.0144	0.0089 *
Venus	73237-09-30 06:29 G	28470597.58	28470597.77	28470597.96	0.0144	0.0069
Moon	73238-02-24 00:00 G	28470744.26	28470744.50	28470744.75	0.0144	0.0033
Earth	73238-02-24 01:12 G	28470744.31	28470744.55	28470744.81	0.0144	0.0039 *
Venus	73238-05-14 18:15 G	28470824.05	28470824.26	28470824.48	0.0144	0.0029
Venus	73238-12-27 06:29 G	28471050.55	28471050.77	28471050.99	0.0143	0.0013
Earth	73239-03-01 03:36 G	28471114.40	28471114.65	28471114.91	0.0143	0.0011
Moon	73239-03-01 06:29 G	28471114.50	28471114.77	28471115.03	0.0143	0.0003 *
Venus	73239-08-10 18:15 G	28471277.06	28471277.26	28471277.47	0.0143	0.0054
Moon	73240-03-05 03:22 G	28471484.42	28471484.64	28471484.87	0.0143	0.0067
Earth	73240-03-05 05:46 G	28471484.52	28471484.74	28471484.99	0.0143	0.0060 *
Venus	73240-03-24 05:46 G	28471503.59	28471503.74	28471503.91	0.0143	0.0094
Venus	73240-11-05 17:17 G	28471730.16	28471730.22	28471730.31	0.0143	0.0135
Earth	73241-03-10 07:55 G	28471854.67	28471854.83	28471855.00	0.0143	0.0108
Moon	73241-03-10 11:03 G	28471854.80	28471854.96	28471855.15	0.0143	0.0106 *
Mercury	73241-09-30 17:31 G	28472059.19	28472059.23	28472059.28	0.0143	0.0136
Mercury	73241-12-27 22:48 G	28472147.36	28472147.45	28472147.55	0.0143	0.0112
Mercury	73242-03-26 04:05 G	28472235.55	28472235.67	28472235.80	0.0143	0.0087
Mercury	73242-06-22 09:22 G	28472323.75	28472323.89	28472324.03	0.0143	0.0062
Mercury	73242-09-18 14:39 G	28472411.96	28472412.11	28472412.27	0.0143	0.0038
Mercury	73242-12-15 20:10 G	28472500.18	28472500.34	28472500.50	0.0143	0.0012
Mercury	73243-03-14 01:27 G	28472588.41	28472588.56	28472588.72	0.0143	0.0014
Mercury	73243-06-10 06:58 G	28472676.64	28472676.79	28472676.94	0.0143	0.0039

Mercury	73243-09-06 12:29 G	28472764.88	28472765.02	28472765.16	0.0143	0.0065
Mercury	73243-12-03 17:46 G	28472853.13	28472853.24	28472853.38	0.0143	0.0091
Mercury	73244-02-29 23:17 G	28472941.39	28472941.47	28472941.58	0.0143	0.0117
Mercury	73244-05-28 05:17 G	28473029.72	28473029.72	28473029.72	0.0142	0.0142
Mars	73259-04-05 17:17 G	28478455.00	28478455.22	28478455.48	0.0138	0.0075
Earth	73278-08-18 02:53 G	28485529.47	28485529.62	28485529.78	0.0134	0.0106
Moon	73278-08-18 06:43 G	28485529.63	28485529.78	28485529.93	0.0134	0.0107 *
Venus	73279-04-07 11:46 G	28485761.87	28485761.99	28485762.13	0.0134	0.0107
Moon	73279-08-22 05:46 G	28485898.52	28485898.74	28485898.95	0.0134	0.0068
Earth	73279-08-22 08:53 G	28485898.67	28485898.87	28485899.10	0.0134	0.0068 *
Venus	73279-11-19 17:31 G	28485988.05	28485988.23	28485988.41	0.0134	0.0074
Venus	73280-07-02 22:48 G	28486214.26	28486214.45	28486214.67	0.0134	0.0042
Earth	73280-08-25 15:07 G	28486267.89	28486268.13	28486268.38	0.0135	0.0029
Moon	73280-08-25 18:43 G	28486268.03	28486268.28	28486268.53	0.0135	0.0023 *
Venus	73281-02-14 04:34 G	28486440.48	28486440.69	28486440.91	0.0135	0.0008
Moon	73281-08-29 18:00 G	28486637.00	28486637.25	28486637.50	0.0135	0.0004
Earth	73281-08-29 21:36 G	28486637.15	28486637.40	28486637.65	0.0135	0.0010 *
Venus	73281-09-28 10:05 G	28486666.72	28486666.92	28486667.14	0.0135	0.0026
Jupiter	73281-12-20 15:36 G	28486749.79	28486750.15	28486750.59	0.0135	0.0080
Venus	73282-05-12 15:51 G	28486892.97	28486893.16	28486893.36	0.0135	0.0059
Earth	73282-09-03 04:05 G	28487006.44	28487006.67	28487006.90	0.0135	0.0049
Moon	73282-09-03 07:12 G	28487006.58	28487006.80	28487007.04	0.0135	0.0057 *
Venus	73282-12-24 21:36 G	28487119.25	28487119.40	28487119.57	0.0135	0.0092
Venus	73283-08-08 03:22 G	28487345.57	28487345.64	28487345.73	0.0135	0.0125
Moon	73283-09-07 06:43 G	28487375.60	28487375.78	28487376.00	0.0135	0.0081
Earth	73283-09-07 10:34 G	28487375.76	28487375.94	28487376.14	0.0135	0.0088 *
Earth	73284-09-10 17:03 G	28487745.15	28487745.21	28487745.32	0.0135	0.0127
Moon	73284-09-10 20:53 G	28487745.33	28487745.37	28487745.43	0.0135	0.0132
Mercury	73284-10-08 18:58 G	28487773.22	28487773.29	28487773.37	0.0135	0.0118
Mercury	73285-01-04 23:46 G	28487861.38	28487861.49	28487861.60	0.0135	0.0097

Mercury	73285-04-03 04:19 G	28487949.55	28487949.68	28487949.81	0.0135	0.0075
Mercury	73285-06-30 08:53 G	28488037.73	28488037.87	28488038.01	0.0135	0.0054
Mercury	73285-09-26 13:27 G	28488125.91	28488126.06	28488126.21	0.0135	0.0033
Mercury	73285-12-23 18:00 G	28488214.09	28488214.25	28488214.40	0.0135	0.0012
Mercury	73286-03-21 22:19 G	28488302.28	28488302.43	28488302.59	0.0135	0.0010
Mercury	73286-06-18 02:53 G	28488390.47	28488390.62	28488390.77	0.0135	0.0030
Mercury	73286-09-14 07:12 G	28488478.66	28488478.80	28488478.95	0.0135	0.0051
Mercury	73286-12-11 11:31 G	28488566.86	28488566.98	28488567.12	0.0135	0.0071
Mercury	73287-03-09 15:51 G	28488655.06	28488655.16	28488655.28	0.0136	0.0092
Mercury	73287-06-05 20:10 G	28488743.26	28488743.34	28488743.43	0.0136	0.0112
Mercury	73287-09-02 00:29 G	28488831.49	28488831.52	28488831.56	0.0136	0.0132
Mars	73303-07-11 16:48 G	28494621.90	28494622.20	28494622.51	0.0141	0.0054
Earth	73320-02-16 05:46 G	28500685.64	28500685.74	28500685.86	0.0144	0.0130
Moon	73320-02-16 06:00 G	28500685.65	28500685.75	28500685.88	0.0144	0.0127 *
Venus	73320-10-17 00:29 G	28500929.44	28500929.52	28500929.63	0.0144	0.0129
Moon	73321-02-20 08:39 G	28501055.65	28501055.86	28501056.09	0.0144	0.0081
Earth	73321-02-20 08:24 G	28501055.65	28501055.85	28501056.08	0.0144	0.0082 *
Venus	73321-05-31 12:43 G	28501155.86	28501156.03	28501156.21	0.0144	0.0088
Venus	73322-01-13 00:43 G	28501382.33	28501382.53	28501382.74	0.0144	0.0047
Moon	73322-02-25 09:51 G	28501425.67	28501425.91	28501426.15	0.0144	0.0038
Earth	73322-02-25 11:03 G	28501425.72	28501425.96	28501426.22	0.0144	0.0033 *
Venus	73322-08-27 12:43 G	28501608.81	28501609.03	28501609.25	0.0143	0.0006
Earth	73323-03-02 13:41 G	28501795.81	28501796.07	28501796.33	0.0143	0.0016
Moon	73323-03-02 15:07 G	28501795.87	28501796.13	28501796.40	0.0143	0.0024 *
Jupiter	73323-03-09 00:29 G	28501801.99	28501802.52	28501803.07	0.0143	0.0019
Venus	73323-04-11 00:29 G	28501835.31	28501835.52	28501835.74	0.0143	0.0035
Venus	73323-11-23 12:29 G	28502061.83	28502062.02	28502062.20	0.0143	0.0076
Moon	73324-03-06 12:58 G	28502165.83	28502166.04	28502166.28	0.0143	0.0059
Earth	73324-03-06 15:36 G	28502165.93	28502166.15	28502166.39	0.0143	0.0066 *
Venus	73324-07-06 23:46 G	28502288.38	28502288.49	28502288.63	0.0143	0.0117

Earth	73325-03-11 17:17 G	28502536.09	28502536.22	28502536.40	0.0143	0.0114
Moon	73325-03-11 20:10 G	28502536.22	28502536.34	28502536.52	0.0143	0.0117 *
Mercury	73325-10-22 00:43 G	28502760.48	28502760.53	28502760.60	0.0143	0.0129
Mercury	73326-01-18 06:15 G	28502848.65	28502848.76	28502848.86	0.0143	0.0104
Mercury	73326-04-16 11:17 G	28502936.84	28502936.97	28502937.10	0.0143	0.0080
Mercury	73326-07-13 16:34 G	28503025.05	28503025.19	28503025.34	0.0143	0.0055
Mercury	73326-10-09 21:51 G	28503113.26	28503113.41	28503113.57	0.0143	0.0030
Mercury	73327-01-06 03:22 G	28503201.48	28503201.64	28503201.80	0.0143	0.0005
Mercury	73327-04-04 08:39 G	28503289.71	28503289.86	28503290.02	0.0143	0.0021
Mercury	73327-07-01 14:10 G	28503377.94	28503378.09	28503378.24	0.0143	0.0046
Mercury	73327-09-27 19:27 G	28503466.18	28503466.31	28503466.46	0.0143	0.0072
Mercury	73327-12-25 00:58 G	28503554.43	28503554.54	28503554.67	0.0143	0.0098
Mercury	73328-03-22 06:29 G	28503642.70	28503642.77	28503642.86	0.0143	0.0124
Mars	73343-11-30 04:05 G	28509373.44	28509373.67	28509373.94	0.0137	0.0066
Earth	73362-08-19 11:03 G	28516210.82	28516210.96	28516211.14	0.0134	0.0102
Moon	73362-08-19 14:39 G	28516210.95	28516211.11	28516211.29	0.0134	0.0099 *
Venus	73362-12-06 20:24 G	28516320.28	28516320.35	28516320.45	0.0134	0.0123
Venus	73363-07-21 01:55 G	28516546.44	28516546.58	28516546.76	0.0134	0.0090
Moon	73363-08-23 13:55 G	28516579.86	28516580.08	28516580.31	0.0134	0.0062
Earth	73363-08-23 17:17 G	28516580.01	28516580.22	28516580.46	0.0134	0.0063 *
Venus	73364-03-03 07:41 G	28516772.63	28516772.82	28516773.02	0.0134	0.0057
Earth	73364-08-26 23:46 G	28516949.25	28516949.49	28516949.74	0.0135	0.0024
Moon	73364-08-27 03:07 G	28516949.39	28516949.63	28516949.89	0.0135	0.0028 *
Venus	73364-10-15 13:12 G	28516998.84	28516999.05	28516999.27	0.0135	0.0024
Venus	73365-05-29 18:58 G	28517225.08	28517225.29	28517225.51	0.0135	0.0010
Moon	73365-08-31 02:39 G	28517318.36	28517318.61	28517318.86	0.0135	0.0021
Earth	73365-08-31 06:00 G	28517318.51	28517318.75	28517319.01	0.0135	0.0015 *
Venus	73366-01-11 00:29 G	28517451.32	28517451.52	28517451.73	0.0135	0.0043
Venus	73366-08-25 06:15 G	28517677.59	28517677.76	28517677.94	0.0135	0.0076
Earth	73366-09-04 12:15 G	28517687.79	28517688.01	28517688.25	0.0135	0.0054

Moon	73366-09-04 16:05 G	28517687.94	28517688.17	28517688.41	0.0135	0.0046 *
Venus	73367-04-08 11:46 G	28517903.88	28517903.99	28517904.13	0.0135	0.0109
Moon	73367-09-08 15:51 G	28518056.99	28518057.16	28518057.33	0.0135	0.0099
Earth	73367-09-08 19:12 G	28518057.12	28518057.30	28518057.49	0.0135	0.0092 *
Mercury	73368-08-02 20:53 G	28518386.37	28518386.37	28518386.38	0.0135	0.0135
Earth	73368-09-12 01:27 G	28518426.52	28518426.56	28518426.64	0.0135	0.0131
Moon	73368-09-12 05:03 G	28518426.64	28518426.71	28518426.82	0.0135	0.0126 *
Mercury	73368-10-30 01:41 G	28518474.49	28518474.57	28518474.65	0.0135	0.0113
Mercury	73369-01-26 06:15 G	28518562.65	28518562.76	28518562.88	0.0135	0.0092
Mercury	73369-04-24 10:48 G	28518650.82	28518650.95	28518651.09	0.0135	0.0071
Mercury	73369-07-21 15:36 G	28518739.00	28518739.15	28518739.29	0.0135	0.0049
Mercury	73369-10-17 20:10 G	28518827.18	28518827.34	28518827.49	0.0135	0.0028
Mercury	73370-01-14 00:29 G	28518915.37	28518915.52	28518915.68	0.0135	0.0008
Mercury	73370-04-12 05:03 G	28519003.56	28519003.71	28519003.87	0.0135	0.0014
Mercury	73370-07-09 09:22 G	28519091.75	28519091.89	28519092.05	0.0135	0.0035
Mercury	73370-10-05 13:41 G	28519179.94	28519180.07	28519180.22	0.0135	0.0056
Mercury	73371-01-01 18:15 G	28519268.14	28519268.26	28519268.39	0.0136	0.0076
Mercury	73371-03-30 22:34 G	28519356.34	28519356.44	28519356.55	0.0136	0.0096
Mercury	73371-06-27 02:39 G	28519444.55	28519444.61	28519444.70	0.0136	0.0117
Earth	73404-02-17 15:22 G	28531367.02	28531367.14	28531367.28	0.0144	0.0124
Moon	73404-02-17 16:05 G	28531367.09	28531367.17	28531367.30	0.0144	0.0129 *
Venus	73405-01-29 18:43 G	28531714.14	28531714.28	28531714.43	0.0144	0.0107
Moon	73405-02-21 18:00 G	28531737.03	28531737.25	28531737.48	0.0144	0.0076
Earth	73405-02-21 18:00 G	28531737.04	28531737.25	28531737.48	0.0144	0.0076 *
Venus	73405-09-13 06:43 G	28531940.59	28531940.78	28531940.98	0.0144	0.0066
Moon	73406-02-26 20:39 G	28532107.12	28532107.36	28532107.61	0.0144	0.0023
Earth	73406-02-26 20:53 G	28532107.12	28532107.37	28532107.62	0.0144	0.0027 *
Venus	73406-04-27 18:43 G	28532167.07	28532167.28	28532167.50	0.0144	0.0025
Venus	73406-12-10 06:43 G	28532393.57	28532393.78	28532394.00	0.0143	0.0017
Earth	73407-03-03 23:03 G	28532477.21	28532477.46	28532477.72	0.0143	0.0023

Moon	73407-03-04 00:43 G	28532477.27	28532477.53	28532477.80	0.0143	0.0015 *
Venus	73407-07-24 18:43 G	28532620.08	28532620.28	28532620.48	0.0143	0.0057
Venus	73408-03-07 06:15 G	28532846.61	28532846.76	28532846.92	0.0143	0.0097
Moon	73408-03-07 23:31 G	28532847.29	28532847.48	28532847.71	0.0143	0.0079
Earth	73408-03-08 01:27 G	28532847.34	28532847.56	28532847.79	0.0143	0.0071 *
Venus	73408-10-19 17:46 G	28533073.19	28533073.24	28533073.31	0.0143	0.0138
Earth	73409-03-13 03:07 G	28533217.50	28533217.63	28533217.78	0.0143	0.0119
Moon	73409-03-13 05:46 G	28533217.60	28533217.74	28533217.91	0.0143	0.0115 *
Mercury	73409-11-12 07:55 G	28533461.76	28533461.83	28533461.92	0.0143	0.0122
Mercury	73410-02-08 13:12 G	28533549.94	28533550.05	28533550.17	0.0143	0.0098
Mercury	73410-05-07 18:29 G	28533638.14	28533638.27	28533638.41	0.0143	0.0073
Mercury	73410-08-03 23:46 G	28533726.34	28533726.49	28533726.64	0.0143	0.0048
Mercury	73410-10-31 05:03 G	28533814.56	28533814.71	28533814.87	0.0143	0.0023
Mercury	73411-01-27 10:19 G	28533902.78	28533902.93	28533903.09	0.0143	0.0005
Mercury	73411-04-25 15:51 G	28533991.00	28533991.16	28533991.32	0.0143	0.0028
Mercury	73411-07-22 21:22 G	28534079.24	28534079.39	28534079.53	0.0143	0.0053
Mercury	73411-10-19 02:39 G	28534167.48	28534167.61	28534167.75	0.0143	0.0079
Mercury	73412-01-15 08:10 G	28534255.74	28534255.84	28534255.95	0.0143	0.0104
Mercury	73412-04-12 13:41 G	28534344.01	28534344.07	28534344.14	0.0143	0.0130
Moon	73445-08-16 11:31 G	28546522.92	28546522.98	28546523.05	0.0134	0.0129
Earth	73445-08-16 14:24 G	28546523.10	28546523.10	28546523.13	0.0134	0.0134
Earth	73446-08-20 20:24 G	28546892.19	28546892.35	28546892.54	0.0134	0.0096
Moon	73446-08-21 00:15 G	28546892.34	28546892.51	28546892.68	0.0134	0.0099 *
Venus	73447-03-21 11:17 G	28547104.84	28547104.97	28547105.11	0.0134	0.0105
Moon	73447-08-24 23:31 G	28547261.27	28547261.48	28547261.72	0.0134	0.0058
Earth	73447-08-25 02:39 G	28547261.40	28547261.61	28547261.85	0.0134	0.0058 *
Venus	73447-11-02 16:34 G	28547331.02	28547331.19	28547331.39	0.0134	0.0073
Venus	73448-06-15 22:19 G	28547557.23	28547557.43	28547557.65	0.0134	0.0040
Earth	73448-08-28 08:53 G	28547630.63	28547630.87	28547631.12	0.0134	0.0019
Moon	73448-08-28 12:15 G	28547630.77	28547631.01	28547631.27	0.0134	0.0016 *

Venus	73449-01-28 04:05 G	28547783.45	28547783.67	28547783.89	0.0135	0.0006
Moon	73449-09-01 11:46 G	28547999.75	28547999.99	28548000.25	0.0135	0.0015
Earth	73449-09-01 15:22 G	28547999.89	28548000.14	28548000.39	0.0135	0.0020 *
Venus	73449-09-11 09:36 G	28548009.69	28548009.90	28548010.11	0.0135	0.0027
Venus	73450-04-25 14:53 G	28548235.94	28548236.12	28548236.33	0.0135	0.0061
Earth	73450-09-05 21:22 G	28548369.18	28548369.39	28548369.63	0.0135	0.0059
Moon	73450-09-06 00:43 G	28548369.32	28548369.53	28548369.76	0.0135	0.0066 *
Venus	73450-12-07 20:39 G	28548462.22	28548462.36	28548462.53	0.0135	0.0094
Venus	73451-07-22 02:24 G	28548688.54	28548688.60	28548688.69	0.0135	0.0127
Moon	73451-09-10 00:00 G	28548738.34	28548738.50	28548738.71	0.0135	0.0090
Earth	73451-09-10 03:51 G	28548738.50	28548738.66	28548738.85	0.0135	0.0097 *
Mercury	73452-08-24 03:22 G	28549087.62	28549087.64	28549087.70	0.0135	0.0130
Mercury	73452-11-20 08:24 G	28549175.76	28549175.85	28549175.94	0.0135	0.0108
Mercury	73453-02-16 12:58 G	28549263.93	28549264.04	28549264.16	0.0135	0.0087
Mercury	73453-05-15 17:46 G	28549352.10	28549352.24	28549352.37	0.0135	0.0066
Mercury	73453-08-11 22:19 G	28549440.28	28549440.43	28549440.58	0.0135	0.0044
Mercury	73453-11-08 02:53 G	28549528.46	28549528.62	28549528.77	0.0135	0.0023
Mercury	73454-02-04 07:12 G	28549616.65	28549616.80	28549616.96	0.0135	0.0005
Mercury	73454-05-03 11:46 G	28549704.84	28549704.99	28549705.14	0.0135	0.0019
Mercury	73454-07-30 16:05 G	28549793.03	28549793.17	28549793.32	0.0135	0.0040
Mercury	73454-10-26 20:24 G	28549881.22	28549881.35	28549881.50	0.0135	0.0061
Mercury	73455-01-23 00:58 G	28549969.42	28549969.54	28549969.67	0.0136	0.0081
Mercury	73455-04-21 05:17 G	28550057.62	28550057.72	28550057.83	0.0136	0.0101
Mercury	73455-07-18 09:22 G	28550145.84	28550145.89	28550145.97	0.0136	0.0122
Mars	73470-11-26 19:41 G	28555756.05	28555756.32	28555756.62	0.0140	0.0074
Earth	73488-02-17 23:46 G	28562048.37	28562048.49	28562048.65	0.0144	0.0119
Moon	73488-02-18 01:41 G	28562048.43	28562048.57	28562048.73	0.0144	0.0114 *
Venus	73488-09-29 00:00 G	28562272.41	28562272.50	28562272.62	0.0144	0.0127
Moon	73489-02-22 01:55 G	28562418.35	28562418.58	28562418.81	0.0144	0.0071
Earth	73489-02-22 03:07 G	28562418.41	28562418.63	28562418.85	0.0144	0.0070 *

Venus	73489-05-13 12:15 G	28562498.84	28562499.01	28562499.19	0.0144	0.0086
Venus	73489-12-26 00:29 G	28562725.32	28562725.52	28562725.73	0.0144	0.0045
Earth	73490-02-27 05:31 G	28562788.48	28562788.73	28562788.99	0.0144	0.0021
Moon	73490-02-27 05:31 G	28562788.49	28562788.73	28562788.98	0.0144	0.0026 *
Venus	73490-08-09 12:29 G	28562951.80	28562952.02	28562952.24	0.0144	0.0004
Earth	73491-03-04 08:10 G	28563158.59	28563158.84	28563159.09	0.0143	0.0028
Moon	73491-03-04 08:10 G	28563158.59	28563158.84	28563159.11	0.0143	0.0035 *
Venus	73491-03-24 00:15 G	28563178.31	28563178.51	28563178.73	0.0143	0.0038
Venus	73491-11-05 11:46 G	28563404.82	28563404.99	28563405.19	0.0143	0.0079
Moon	73492-03-08 08:39 G	28563528.65	28563528.86	28563529.09	0.0143	0.0070
Earth	73492-03-08 10:05 G	28563528.71	28563528.92	28563529.15	0.0143	0.0077 *
Venus	73492-06-18 23:31 G	28563631.37	28563631.48	28563631.62	0.0143	0.0119
Earth	73493-03-13 11:31 G	28563898.88	28563898.98	28563899.13	0.0143	0.0125
Moon	73493-03-13 13:27 G	28563898.97	28563899.06	28563899.20	0.0143	0.0129 *
Mercury	73493-09-05 09:36 G	28564074.88	28564074.90	28564074.95	0.0143	0.0140
Mercury	73493-12-02 15:07 G	28564163.04	28564163.13	28564163.22	0.0143	0.0115
Mercury	73494-02-28 20:10 G	28564251.23	28564251.34	28564251.46	0.0143	0.0091
Mercury	73494-05-28 01:27 G	28564339.42	28564339.56	28564339.70	0.0143	0.0066
Mercury	73494-08-24 06:43 G	28564427.63	28564427.78	28564427.93	0.0143	0.0041
Mercury	73494-11-20 12:00 G	28564515.85	28564516.00	28564516.16	0.0143	0.0017
Mercury	73495-02-16 17:31 G	28564604.07	28564604.23	28564604.39	0.0143	0.0009
Mercury	73495-05-15 22:48 G	28564692.30	28564692.45	28564692.61	0.0143	0.0034
Mercury	73495-08-12 04:05 G	28564780.53	28564780.67	28564780.82	0.0143	0.0060
Mercury	73495-11-08 09:36 G	28564868.78	28564868.90	28564869.03	0.0143	0.0085
Mercury	73496-02-04 15:22 G	28564957.04	28564957.14	28564957.24	0.0143	0.0111
Mercury	73496-05-02 20:53 G	28565045.33	28565045.37	28565045.41	0.0143	0.0137
Mars	73511-04-20 22:48 G	28570510.18	28570510.45	28570510.74	0.0138	0.0033
Earth	73529-08-17 22:48 G	28577204.41	28577204.45	28577204.54	0.0134	0.0130
Earth	73530-08-22 05:17 G	28577573.54	28577573.72	28577573.91	0.0134	0.0091
Moon	73530-08-22 08:10 G	28577573.65	28577573.84	28577574.04	0.0134	0.0088 *

Venus	73530-11-19 20:10 G	28577663.25	28577663.34	28577663.44	0.0134	0.0121
Venus	73531-07-04 01:27 G	28577889.41	28577889.56	28577889.74	0.0134	0.0088
Moon	73531-08-26 08:10 G	28577942.62	28577942.84	28577943.08	0.0134	0.0053
Earth	73531-08-26 11:17 G	28577942.75	28577942.97	28577943.21	0.0134	0.0053 *
Venus	73532-02-15 06:58 G	28578115.61	28578115.79	28578116.00	0.0134	0.0056
Earth	73532-08-29 17:31 G	28578311.99	28578312.23	28578312.48	0.0134	0.0015
Moon	73532-08-29 20:39 G	28578312.11	28578312.36	28578312.61	0.0134	0.0016 *
Venus	73532-09-28 12:43 G	28578341.82	28578342.03	28578342.25	0.0134	0.0022
Venus	73533-05-12 18:15 G	28578568.05	28578568.26	28578568.48	0.0135	0.0011
Moon	73533-09-02 20:39 G	28578681.12	28578681.36	28578681.61	0.0135	0.0030
Earth	73533-09-02 23:46 G	28578681.25	28578681.49	28578681.74	0.0135	0.0024 *
Venus	73533-12-24 23:46 G	28578794.29	28578794.49	28578794.70	0.0135	0.0044
Venus	73534-08-08 05:17 G	28579020.56	28579020.72	28579020.91	0.0135	0.0078
Earth	73534-09-07 05:46 G	28579050.53	28579050.74	28579050.97	0.0135	0.0064
Moon	73534-09-07 09:07 G	28579050.66	28579050.88	28579051.12	0.0135	0.0056 *
Venus	73535-03-22 10:48 G	28579246.85	28579246.95	28579247.09	0.0135	0.0111
Moon	73535-09-11 09:22 G	28579419.76	28579419.89	28579420.04	0.0135	0.0109
Earth	73535-09-11 12:00 G	28579419.86	28579420.00	28579420.19	0.0135	0.0102 *
Mercury	73536-09-14 10:05 G	28579788.88	28579788.92	28579788.99	0.0135	0.0125
Moon	73536-09-14 22:05 G	28579789.41	28579789.42	28579789.47	0.0135	0.0134
Mercury	73536-12-11 15:07 G	28579877.03	28579877.13	28579877.23	0.0135	0.0103
Mercury	73537-03-09 19:27 G	28579965.20	28579965.31	28579965.45	0.0135	0.0083
Mercury	73537-06-06 00:15 G	28580053.37	28580053.51	28580053.65	0.0135	0.0061
Mercury	73537-09-02 04:48 G	28580141.55	28580141.70	28580141.85	0.0135	0.0040
Mercury	73537-11-29 09:22 G	28580229.74	28580229.89	28580230.05	0.0135	0.0019
Mercury	73538-02-25 13:55 G	28580317.93	28580318.08	28580318.24	0.0135	0.0003
Mercury	73538-05-24 18:29 G	28580406.12	28580406.27	28580406.42	0.0135	0.0023
Mercury	73538-08-20 22:48 G	28580494.31	28580494.45	28580494.60	0.0135	0.0044
Mercury	73538-11-17 03:22 G	28580582.50	28580582.64	28580582.77	0.0135	0.0065
Mercury	73539-02-13 07:27 G	28580670.70	28580670.81	28580670.94	0.0135	0.0086

Mercury	73539-05-12 12:00 G	28580758.91	28580759.00	28580759.10	0.0136	0.0106
Mercury	73539-08-08 16:19 G	28580847.13	28580847.18	28580847.24	0.0136	0.0126
Mars	73555-07-24 16:19 G	28586675.98	28586676.18	28586676.43	0.0141	0.0102
Earth	73572-02-19 08:10 G	28592729.69	28592729.84	28592730.01	0.0144	0.0113
Moon	73572-02-19 10:19 G	28592729.81	28592729.93	28592730.08	0.0144	0.0119 *
Venus	73573-01-11 17:31 G	28593057.09	28593057.23	28593057.39	0.0144	0.0106
Moon	73573-02-23 09:07 G	28593099.66	28593099.88	28593100.13	0.0144	0.0064
Earth	73573-02-23 10:48 G	28593099.73	28593099.95	28593100.19	0.0144	0.0065 *
Venus	73573-08-26 05:46 G	28593283.54	28593283.74	28593283.94	0.0144	0.0065
Earth	73574-02-28 13:41 G	28593469.82	28593470.07	28593470.33	0.0144	0.0016
Moon	73574-02-28 14:53 G	28593469.88	28593470.12	28593470.37	0.0144	0.0013 *
Venus	73574-04-09 17:46 G	28593510.02	28593510.24	28593510.46	0.0144	0.0024
Venus	73574-11-22 05:46 G	28593736.52	28593736.74	28593736.96	0.0143	0.0017
Moon	73575-03-05 16:05 G	28593839.91	28593840.17	28593840.44	0.0143	0.0027
Earth	73575-03-05 16:05 G	28593839.92	28593840.17	28593840.42	0.0143	0.0033 *
Venus	73575-07-06 17:17 G	28593963.03	28593963.22	28593963.43	0.0143	0.0058
Venus	73576-02-18 05:03 G	28594189.56	28594189.71	28594189.88	0.0143	0.0099
Moon	73576-03-09 18:00 G	28594210.06	28594210.25	28594210.45	0.0143	0.0090
Earth	73576-03-09 18:15 G	28594210.06	28594210.26	28594210.48	0.0143	0.0082 *
Venus	73576-10-01 16:48 G	28594416.15	28594416.20	28594416.25	0.0143	0.0139
Earth	73577-03-14 19:55 G	28594580.23	28594580.33	28594580.45	0.0143	0.0129
Moon	73577-03-14 21:22 G	28594580.27	28594580.39	28594580.53	0.0143	0.0125 *
Mercury	73577-09-26 16:34 G	28594776.15	28594776.19	28594776.25	0.0143	0.0134
Mercury	73577-12-23 21:51 G	28594864.32	28594864.41	28594864.51	0.0143	0.0109
Mercury	73578-03-22 02:53 G	28594952.51	28594952.62	28594952.75	0.0143	0.0085
Mercury	73578-06-18 08:24 G	28595040.71	28595040.85	28595040.99	0.0143	0.0060
Mercury	73578-09-14 13:27 G	28595128.91	28595129.06	28595129.22	0.0143	0.0036
Mercury	73578-12-11 18:58 G	28595217.13	28595217.29	28595217.45	0.0143	0.0011
Mercury	73579-03-10 00:15 G	28595305.35	28595305.51	28595305.67	0.0143	0.0015
Mercury	73579-06-06 05:31 G	28595393.58	28595393.73	28595393.89	0.0143	0.0040

Mercury	73579-09-02 11:03 G	28595481.82	28595481.96	28595482.10	0.0143	0.0066
Mercury	73579-11-29 16:19 G	28595570.07	28595570.18	28595570.31	0.0143	0.0092
Mercury	73580-02-25 22:05 G	28595658.33	28595658.42	28595658.51	0.0143	0.0117
Mars	73595-12-14 07:55 G	28601428.67	28601428.83	28601429.02	0.0137	0.0108
Moon	73613-08-18 06:15 G	28607885.66	28607885.76	28607885.89	0.0134	0.0119
Earth	73613-08-18 08:24 G	28607885.78	28607885.85	28607885.97	0.0134	0.0125 *
Earth	73614-08-22 14:39 G	28608254.93	28608255.11	28608255.32	0.0134	0.0086
Moon	73614-08-22 17:46 G	28608255.05	28608255.24	28608255.43	0.0134	0.0090 *
Venus	73615-03-03 10:48 G	28608447.83	28608447.95	28608448.10	0.0134	0.0104
Moon	73615-08-26 18:43 G	28608624.05	28608624.28	28608624.51	0.0134	0.0046
Earth	73615-08-26 21:07 G	28608624.14	28608624.38	28608624.61	0.0134	0.0048 *
Venus	73615-10-15 16:19 G	28608674.01	28608674.18	28608674.37	0.0134	0.0071
Venus	73616-05-28 22:05 G	28608900.21	28608900.42	28608900.63	0.0134	0.0038
Earth	73616-08-30 02:53 G	28608993.37	28608993.62	28608993.87	0.0134	0.0009
Moon	73616-08-30 06:00 G	28608993.49	28608993.75	28608994.00	0.0134	0.0006 *
Venus	73617-01-10 03:36 G	28609126.43	28609126.65	28609126.87	0.0134	0.0005
Venus	73617-08-24 09:07 G	28609352.67	28609352.88	28609353.09	0.0135	0.0029
Moon	73617-09-03 06:29 G	28609362.53	28609362.77	28609363.01	0.0135	0.0026
Earth	73617-09-03 09:07 G	28609362.64	28609362.88	28609363.13	0.0135	0.0030 *
Venus	73618-04-07 14:24 G	28609578.92	28609579.10	28609579.30	0.0135	0.0062
Earth	73618-09-07 14:53 G	28609731.93	28609732.12	28609732.36	0.0135	0.0069
Moon	73618-09-07 17:46 G	28609732.04	28609732.24	28609732.47	0.0135	0.0075 *
Venus	73618-11-19 19:55 G	28609805.19	28609805.33	28609805.50	0.0135	0.0095
Venus	73619-07-04 01:41 G	28610031.52	28610031.57	28610031.65	0.0135	0.0128
Moon	73619-09-11 18:43 G	28610101.12	28610101.28	28610101.45	0.0135	0.0099
Earth	73619-09-11 21:22 G	28610101.25	28610101.39	28610101.56	0.0135	0.0107 *
Mercury	73620-10-04 17:03 G	28610490.15	28610490.21	28610490.29	0.0135	0.0119
Mercury	73620-12-31 21:36 G	28610578.31	28610578.40	28610578.52	0.0135	0.0098
Mercury	73621-03-30 02:24 G	28610666.48	28610666.60	28610666.74	0.0135	0.0077
Mercury	73621-06-26 06:58 G	28610754.66	28610754.79	28610754.94	0.0135	0.0056

Mercury	73621-09-22 11:46 G	28610842.84	28610842.99	28610843.14	0.0135	0.0034
Mercury	73621-12-19 16:19 G	28610931.02	28610931.18	28610931.34	0.0135	0.0013
Mercury	73622-03-17 20:53 G	28611019.21	28611019.37	28611019.52	0.0135	0.0008
Mercury	73622-06-14 01:12 G	28611107.40	28611107.55	28611107.71	0.0135	0.0029
Mercury	73622-09-10 05:46 G	28611195.60	28611195.74	28611195.88	0.0135	0.0050
Mercury	73622-12-07 10:05 G	28611283.79	28611283.92	28611284.06	0.0135	0.0071
Mercury	73623-03-05 14:39 G	28611372.00	28611372.11	28611372.22	0.0135	0.0091
Mercury	73623-06-01 18:43 G	28611460.21	28611460.28	28611460.38	0.0136	0.0112
Mercury	73623-08-28 23:03 G	28611548.44	28611548.46	28611548.50	0.0136	0.0132
Earth	73656-02-19 16:19 G	28623411.03	28623411.18	28623411.36	0.0144	0.0108
Moon	73656-02-19 19:12 G	28623411.13	28623411.30	28623411.49	0.0144	0.0102 *
Venus	73656-09-10 22:34 G	28623615.35	28623615.44	28623615.56	0.0144	0.0126
Moon	73657-02-23 16:34 G	28623780.97	28623781.19	28623781.44	0.0144	0.0063
Earth	73657-02-23 19:27 G	28623781.08	28623781.31	28623781.55	0.0144	0.0059 *
Venus	73657-04-25 10:48 G	28623841.78	28623841.95	28623842.13	0.0144	0.0085
Venus	73657-12-07 23:03 G	28624068.25	28624068.46	28624068.67	0.0144	0.0044
Earth	73658-02-28 21:51 G	28624151.16	28624151.41	28624151.67	0.0144	0.0010
Moon	73658-02-28 23:17 G	28624151.22	28624151.47	28624151.72	0.0144	0.0013 *
Venus	73658-07-22 11:03 G	28624294.74	28624294.96	28624295.18	0.0144	0.0003
Moon	73659-03-05 22:48 G	28624521.21	28624521.45	28624521.71	0.0143	0.0045
Venus	73659-03-05 22:34 G	28624521.24	28624521.44	28624521.66	0.0143	0.0039 *
Earth	73659-03-06 00:15 G	28624521.27	28624521.51	28624521.76	0.0143	0.0039 *
Venus	73659-10-18 10:34 G	28624747.76	28624747.94	28624748.12	0.0143	0.0079
Moon	73660-03-10 02:10 G	28624891.40	28624891.59	28624891.81	0.0143	0.0080
Earth	73660-03-10 02:10 G	28624891.40	28624891.59	28624891.81	0.0143	0.0087 *
Venus	73660-05-31 21:51 G	28624974.31	28624974.41	28624974.54	0.0143	0.0119
Earth	73661-03-15 03:51 G	28625261.59	28625261.66	28625261.76	0.0143	0.0134
Moon	73661-03-15 04:19 G	28625261.64	28625261.68	28625261.74	0.0143	0.0140 *
Mercury	73661-10-16 23:17 G	28625477.42	28625477.47	28625477.55	0.0143	0.0129
Mercury	73662-01-13 04:48 G	28625565.59	28625565.70	28625565.81	0.0143	0.0104

Mercury	73662-04-11 09:51 G	28625653.79	28625653.91	28625654.04	0.0143	0.0079
Mercury	73662-07-08 15:07 G	28625741.99	28625742.13	28625742.28	0.0143	0.0054
Mercury	73662-10-04 20:24 G	28625830.20	28625830.35	28625830.50	0.0143	0.0030
Mercury	73663-01-01 01:41 G	28625918.41	28625918.57	28625918.73	0.0143	0.0005
Mercury	73663-03-30 06:58 G	28626006.64	28626006.79	28626006.95	0.0143	0.0021
Mercury	73663-06-26 12:29 G	28626094.87	28626095.02	28626095.17	0.0143	0.0046
Mercury	73663-09-22 17:46 G	28626183.11	28626183.24	28626183.38	0.0143	0.0072
Mercury	73663-12-19 23:03 G	28626271.36	28626271.46	28626271.59	0.0143	0.0098
Mercury	73664-03-17 04:34 G	28626359.62	28626359.69	28626359.78	0.0143	0.0124
Mars	73678-09-07 15:22 G	28631647.06	28631647.14	28631647.26	0.0138	0.0129
Moon	73697-08-18 15:36 G	28638567.08	28638567.15	28638567.24	0.0134	0.0127
Earth	73697-08-18 17:31 G	28638567.13	28638567.23	28638567.36	0.0134	0.0119 *
Earth	73698-08-22 23:31 G	28638936.30	28638936.48	28638936.69	0.0134	0.0082
Moon	73698-08-23 01:27 G	28638936.36	28638936.56	28638936.78	0.0134	0.0077 *
Venus	73698-10-31 19:55 G	28639006.24	28639006.33	28639006.43	0.0134	0.0119
Venus	73699-06-15 01:12 G	28639232.40	28639232.55	28639232.73	0.0134	0.0087
Moon	73699-08-27 03:22 G	28639305.41	28639305.64	28639305.87	0.0134	0.0044
Earth	73699-08-27 05:46 G	28639305.50	28639305.74	28639305.98	0.0134	0.0043 *
Venus	73700-01-27 06:43 G	28639458.59	28639458.78	28639458.99	0.0134	0.0054
Earth	73700-08-31 11:46 G	28639674.74	28639674.99	28639675.24	0.0134	0.0004
Moon	73700-08-31 13:41 G	28639674.81	28639675.07	28639675.33	0.0134	0.0005 *
Venus	73700-09-10 12:15 G	28639684.80	28639685.01	28639685.23	0.0134	0.0021
Venus	73701-04-24 17:46 G	28639911.03	28639911.24	28639911.46	0.0135	0.0013
Moon	73701-09-04 15:22 G	28640043.92	28640044.14	28640044.38	0.0135	0.0039
Earth	73701-09-04 17:46 G	28640044.00	28640044.24	28640044.49	0.0135	0.0034 *
Venus	73701-12-06 23:17 G	28640137.27	28640137.47	28640137.68	0.0135	0.0046
Venus	73702-07-21 04:48 G	28640363.54	28640363.70	28640363.88	0.0135	0.0079
Earth	73702-09-09 00:00 G	28640413.29	28640413.50	28640413.71	0.0135	0.0073
Moon	73702-09-09 02:10 G	28640413.38	28640413.59	28640413.82	0.0135	0.0067 *
Venus	73703-03-04 10:19 G	28640589.83	28640589.93	28640590.06	0.0135	0.0112

Moon	73703-09-13 04:19 G	28640782.57	28640782.68	28640782.79	0.0135	0.0118
Earth	73703-09-13 06:15 G	28640782.63	28640782.76	28640782.91	0.0135	0.0111 *
Mercury	73704-10-25 23:46 G	28641191.42	28641191.49	28641191.58	0.0135	0.0114
Mercury	73705-01-22 04:19 G	28641279.58	28641279.68	28641279.81	0.0135	0.0093
Mercury	73705-04-20 09:07 G	28641367.75	28641367.88	28641368.02	0.0135	0.0071
Mercury	73705-07-17 13:41 G	28641455.94	28641456.07	28641456.23	0.0135	0.0051
Mercury	73705-10-13 18:29 G	28641544.12	28641544.27	28641544.43	0.0135	0.0029
Mercury	73706-01-09 23:03 G	28641632.31	28641632.46	28641632.62	0.0135	0.0008
Mercury	73706-04-08 03:36 G	28641720.50	28641720.65	28641720.80	0.0135	0.0014
Mercury	73706-07-05 08:10 G	28641808.69	28641808.84	28641808.99	0.0135	0.0034
Mercury	73706-10-01 12:29 G	28641896.88	28641897.02	28641897.16	0.0135	0.0055
Mercury	73706-12-28 17:03 G	28641985.08	28641985.21	28641985.34	0.0135	0.0076
Mercury	73707-03-26 21:07 G	28642073.29	28642073.38	28642073.50	0.0135	0.0097
Mercury	73707-06-23 01:41 G	28642161.50	28642161.57	28642161.65	0.0136	0.0117
Mars	73722-12-09 21:22 G	28647810.06	28647810.39	28647810.72	0.0140	0.0022
Moon	73739-02-15 19:12 G	28653722.27	28653722.30	28653722.35	0.0144	0.0142
Earth	73740-02-21 01:41 G	28654092.40	28654092.57	28654092.76	0.0144	0.0102
Moon	73740-02-21 04:48 G	28654092.55	28654092.70	28654092.88	0.0144	0.0109 *
Venus	73740-12-24 16:48 G	28654400.05	28654400.20	28654400.35	0.0144	0.0104
Moon	73741-02-25 01:27 G	28654462.33	28654462.56	28654462.82	0.0144	0.0051
Earth	73741-02-25 04:19 G	28654462.45	28654462.68	28654462.93	0.0144	0.0054 *
Venus	73741-08-08 04:34 G	28654626.51	28654626.69	28654626.90	0.0144	0.0064
Earth	73742-03-02 06:58 G	28654832.53	28654832.79	28654833.05	0.0144	0.0005
Moon	73742-03-02 09:22 G	28654832.64	28654832.89	28654833.14	0.0144	0.0004 *
Venus	73742-03-22 16:34 G	28654852.98	28654853.19	28654853.42	0.0144	0.0023
Venus	73742-11-04 04:34 G	28655079.48	28655079.69	28655079.91	0.0144	0.0019
Moon	73743-03-07 07:41 G	28655202.58	28655202.82	28655203.09	0.0143	0.0039
Earth	73743-03-07 09:07 G	28655202.65	28655202.88	28655203.14	0.0143	0.0045 *
Venus	73743-06-18 16:19 G	28655305.99	28655306.18	28655306.38	0.0143	0.0059
Venus	73744-01-31 03:51 G	28655532.52	28655532.66	28655532.83	0.0143	0.0100

Earth	73744-03-11 11:03 G	28655572.78	28655572.96	28655573.17	0.0143	0.0093
Moon	73744-03-11 12:15 G	28655572.84	28655573.01	28655573.20	0.0143	0.0101 *
Venus	73744-09-13 15:22 G	28655759.12	28655759.14	28655759.20	0.0143	0.0141
Moon	73745-03-16 12:58 G	28655942.95	28655943.04	28655943.14	0.0143	0.0134
Earth	73745-03-16 12:29 G	28655942.99	28655943.02	28655943.10	0.0143	0.0140 *
Mercury	73745-11-07 06:29 G	28656178.70	28656178.77	28656178.86	0.0143	0.0122
Mercury	73746-02-03 11:46 G	28656266.88	28656266.99	28656267.11	0.0143	0.0097
Mercury	73746-05-02 16:48 G	28656355.07	28656355.20	28656355.34	0.0143	0.0073
Mercury	73746-07-29 22:05 G	28656443.28	28656443.42	28656443.57	0.0143	0.0048
Mercury	73746-10-26 03:22 G	28656531.49	28656531.64	28656531.80	0.0143	0.0023
Mercury	73747-01-22 08:39 G	28656619.71	28656619.86	28656620.02	0.0143	0.0004
Mercury	73747-04-20 13:55 G	28656707.93	28656708.08	28656708.24	0.0143	0.0028
Mercury	73747-07-17 19:27 G	28656796.16	28656796.31	28656796.46	0.0143	0.0053
Mercury	73747-10-14 00:43 G	28656884.41	28656884.53	28656884.67	0.0143	0.0079
Mercury	73748-01-10 06:00 G	28656972.66	28656972.75	28656972.87	0.0143	0.0105
Mercury	73748-04-07 11:46 G	28657060.93	28657060.99	28657061.06	0.0142	0.0130
Mars	73763-05-04 02:10 G	28662565.31	28662565.59	28662565.88	0.0138	0.0013
Moon	73781-08-20 01:41 G	28669248.44	28669248.57	28669248.73	0.0134	0.0109
Earth	73781-08-20 03:07 G	28669248.51	28669248.63	28669248.77	0.0134	0.0115 *
Venus	73782-07-02 05:31 G	28669564.71	28669564.73	28669564.75	0.0134	0.0134
Earth	73782-08-24 08:53 G	28669617.68	28669617.87	28669618.09	0.0134	0.0077
Moon	73782-08-24 10:34 G	28669617.75	28669617.94	28669618.16	0.0134	0.0082 *
Venus	73783-02-13 10:34 G	28669790.81	28669790.94	28669791.09	0.0134	0.0102
Moon	73783-08-28 13:55 G	28669986.84	28669987.08	28669987.31	0.0134	0.0035
Earth	73783-08-28 14:53 G	28669986.89	28669987.12	28669987.37	0.0134	0.0038 *
Venus	73783-09-27 16:05 G	28670016.99	28670017.17	28670017.36	0.0134	0.0069
Venus	73784-05-10 21:36 G	28670243.19	28670243.40	28670243.61	0.0135	0.0036
Earth	73784-08-31 20:53 G	28670356.12	28670356.37	28670356.63	0.0135	0.0003
Moon	73784-08-31 22:48 G	28670356.20	28670356.45	28670356.71	0.0135	0.0003 *
Venus	73784-12-23 03:07 G	28670469.41	28670469.63	28670469.85	0.0135	0.0003

Venus	73785-08-06 08:24 G	28670695.65	28670695.85	28670696.07	0.0135	0.0031
Moon	73785-09-05 01:27 G	28670725.33	28670725.56	28670725.80	0.0135	0.0036
Earth	73785-09-05 02:53 G	28670725.39	28670725.62	28670725.87	0.0135	0.0040 *
Venus	73786-03-20 13:55 G	28670921.90	28670922.08	28670922.28	0.0135	0.0064
Earth	73786-09-09 08:53 G	28671094.68	28671094.87	28671095.09	0.0135	0.0078
Moon	73786-09-09 10:48 G	28671094.75	28671094.95	28671095.16	0.0135	0.0083 *
Venus	73786-11-01 19:27 G	28671148.17	28671148.31	28671148.47	0.0135	0.0097
Venus	73787-06-16 00:58 G	28671374.51	28671374.54	28671374.62	0.0135	0.0130
Moon	73787-09-13 13:27 G	28671463.93	28671464.06	28671464.21	0.0135	0.0109
Earth	73787-09-13 15:36 G	28671464.03	28671464.15	28671464.28	0.0135	0.0116 *
Mercury	73788-08-19 01:55 G	28671804.55	28671804.58	28671804.63	0.0135	0.0130
Mercury	73788-11-15 06:43 G	28671892.69	28671892.78	28671892.88	0.0135	0.0108
Mercury	73789-02-11 11:17 G	28671980.86	28671980.97	28671981.10	0.0135	0.0087
Mercury	73789-05-10 16:05 G	28672069.04	28672069.17	28672069.31	0.0135	0.0065
Mercury	73789-08-06 20:39 G	28672157.22	28672157.36	28672157.52	0.0135	0.0044
Mercury	73789-11-03 01:27 G	28672245.41	28672245.56	28672245.71	0.0135	0.0023
Mercury	73790-01-30 06:00 G	28672333.59	28672333.75	28672333.91	0.0135	0.0002
Mercury	73790-04-28 10:34 G	28672421.79	28672421.94	28672422.09	0.0135	0.0019
Mercury	73790-07-25 14:53 G	28672509.98	28672510.12	28672510.27	0.0135	0.0041
Mercury	73790-10-21 19:27 G	28672598.18	28672598.31	28672598.45	0.0135	0.0061
Mercury	73791-01-18 00:00 G	28672686.38	28672686.50	28672686.62	0.0135	0.0082
Mercury	73791-04-16 04:05 G	28672774.58	28672774.67	28672774.78	0.0135	0.0103
Mercury	73791-07-13 08:39 G	28672862.80	28672862.86	28672862.93	0.0136	0.0123
Earth	73824-02-22 11:03 G	28684773.79	28684773.96	28684774.17	0.0144	0.0097
Moon	73824-02-22 14:39 G	28684773.93	28684774.11	28684774.32	0.0144	0.0090 *
Venus	73824-08-24 22:34 G	28684958.34	28684958.44	28684958.56	0.0144	0.0123
Moon	73825-02-26 10:34 G	28685143.71	28685143.94	28685144.19	0.0144	0.0053
Earth	73825-02-26 13:55 G	28685143.85	28685144.08	28685144.33	0.0144	0.0048 *
Venus	73825-04-08 10:34 G	28685184.77	28685184.94	28685185.13	0.0144	0.0083
Venus	73825-11-20 22:34 G	28685411.24	28685411.44	28685411.66	0.0144	0.0042

Earth	73826-03-03 16:34 G	28685513.93	28685514.19	28685514.44	0.0144	0.0002
Moon	73826-03-03 18:58 G	28685514.04	28685514.29	28685514.54	0.0144	0.0001 *
Venus	73826-07-05 10:48 G	28685637.73	28685637.95	28685638.17	0.0144	0.0000
Venus	73827-02-16 22:34 G	28685864.23	28685864.44	28685864.65	0.0144	0.0041
Moon	73827-03-08 15:51 G	28685883.93	28685884.16	28685884.42	0.0144	0.0055
Earth	73827-03-08 18:43 G	28685884.04	28685884.28	28685884.53	0.0144	0.0050 *
Venus	73827-10-01 10:05 G	28686090.75	28686090.92	28686091.11	0.0143	0.0081
Earth	73828-03-12 20:53 G	28686254.18	28686254.37	28686254.56	0.0143	0.0098
Moon	73828-03-12 22:05 G	28686254.23	28686254.42	28686254.61	0.0143	0.0091 *
Venus	73828-05-14 21:51 G	28686317.30	28686317.41	28686317.53	0.0143	0.0122
Mercury	73829-09-01 08:39 G	28686791.83	28686791.86	28686791.90	0.0143	0.0138
Mercury	73829-11-28 13:41 G	28686879.99	28686880.07	28686880.17	0.0143	0.0114
Mercury	73830-02-24 18:43 G	28686968.17	28686968.28	28686968.41	0.0143	0.0090
Mercury	73830-05-24 00:15 G	28687056.37	28687056.51	28687056.64	0.0143	0.0065
Mercury	73830-08-20 05:17 G	28687144.57	28687144.72	28687144.87	0.0143	0.0041
Mercury	73830-11-16 10:34 G	28687232.79	28687232.94	28687233.10	0.0143	0.0016
Mercury	73831-02-12 15:51 G	28687321.01	28687321.16	28687321.32	0.0143	0.0010
Mercury	73831-05-11 21:22 G	28687409.23	28687409.39	28687409.54	0.0143	0.0035
Mercury	73831-08-08 02:24 G	28687497.47	28687497.60	28687497.75	0.0143	0.0061
Mercury	73831-11-04 07:55 G	28687585.71	28687585.83	28687585.96	0.0143	0.0086
Mercury	73832-01-31 13:27 G	28687673.97	28687674.06	28687674.16	0.0143	0.0112
Mercury	73832-04-28 18:58 G	28687762.26	28687762.29	28687762.34	0.0142	0.0137
Moon	73865-08-21 11:03 G	28699929.85	28699929.96	28699930.08	0.0134	0.0118
Earth	73865-08-21 11:31 G	28699929.86	28699929.98	28699930.14	0.0134	0.0111 *
Earth	73866-08-25 17:31 G	28700299.03	28700299.23	28700299.46	0.0134	0.0072
Moon	73866-08-25 18:00 G	28700299.04	28700299.25	28700299.49	0.0134	0.0067 *
Venus	73866-10-14 19:27 G	28700349.21	28700349.31	28700349.42	0.0134	0.0117
Venus	73867-05-29 00:43 G	28700575.38	28700575.53	28700575.71	0.0134	0.0085
Moon	73867-08-29 22:19 G	28700668.20	28700668.43	28700668.67	0.0134	0.0037
Earth	73867-08-29 23:31 G	28700668.24	28700668.48	28700668.73	0.0134	0.0034 *

Venus	73868-01-10 06:15 G	28700801.57	28700801.76	28700801.97	0.0134	0.0052
Venus	73868-08-23 11:46 G	28701027.78	28701027.99	28701028.21	0.0135	0.0018
Earth	73868-09-02 05:31 G	28701037.48	28701037.73	28701037.98	0.0135	0.0005
Moon	73868-09-02 06:15 G	28701037.50	28701037.76	28701038.02	0.0135	0.0006 *
Venus	73869-04-06 17:17 G	28701254.00	28701254.22	28701254.43	0.0135	0.0015
Moon	73869-09-06 10:05 G	28701406.71	28701406.92	28701407.16	0.0135	0.0047
Earth	73869-09-06 11:17 G	28701406.75	28701406.97	28701407.22	0.0135	0.0044 *
Venus	73869-11-18 22:34 G	28701480.24	28701480.44	28701480.65	0.0135	0.0048
Venus	73870-07-03 04:05 G	28701706.51	28701706.67	28701706.85	0.0135	0.0081
Earth	73870-09-10 17:31 G	28701776.04	28701776.23	28701776.43	0.0135	0.0082
Moon	73870-09-10 18:29 G	28701776.08	28701776.27	28701776.50	0.0135	0.0077 *
Venus	73871-02-14 09:36 G	28701932.80	28701932.90	28701933.03	0.0135	0.0114
Moon	73871-09-14 22:48 G	28702145.39	28702145.45	28702145.55	0.0135	0.0127
Earth	73871-09-15 00:00 G	28702145.39	28702145.50	28702145.62	0.0135	0.0120 *
Mercury	73872-09-09 08:39 G	28702505.81	28702505.86	28702505.92	0.0135	0.0125
Mercury	73872-12-06 13:27 G	28702593.96	28702594.06	28702594.16	0.0135	0.0103
Mercury	73873-03-04 18:00 G	28702682.13	28702682.25	28702682.38	0.0135	0.0082
Mercury	73873-05-31 22:48 G	28702770.31	28702770.45	28702770.59	0.0135	0.0060
Mercury	73873-08-28 03:22 G	28702858.50	28702858.64	28702858.80	0.0135	0.0039
Mercury	73873-11-24 08:10 G	28702946.68	28702946.84	28702946.99	0.0135	0.0018
Mercury	73874-02-20 12:43 G	28703034.87	28703035.03	28703035.18	0.0135	0.0004
Mercury	73874-05-19 17:17 G	28703123.07	28703123.22	28703123.37	0.0135	0.0024
Mercury	73874-08-15 21:36 G	28703211.26	28703211.40	28703211.55	0.0135	0.0046
Mercury	73874-11-12 02:10 G	28703299.46	28703299.59	28703299.73	0.0135	0.0066
Mercury	73875-02-08 06:43 G	28703387.66	28703387.78	28703387.90	0.0135	0.0087
Mercury	73875-05-07 10:48 G	28703475.87	28703475.95	28703476.06	0.0136	0.0108
Mercury	73875-08-03 15:22 G	28703564.10	28703564.14	28703564.19	0.0136	0.0128
Moon	73907-02-18 15:07 G	28715085.04	28715085.13	28715085.25	0.0144	0.0131
Earth	73907-02-18 19:12 G	28715085.25	28715085.30	28715085.37	0.0144	0.0139 *
Earth	73908-02-23 21:36 G	28715455.21	28715455.40	28715455.61	0.0144	0.0091

Moon	73908-02-24 01:12 G	28715455.37	28715455.55	28715455.75	0.0144	0.0098 *
Venus	73908-04-25 04:48 G	28715516.68	28715516.70	28715516.75	0.0144	0.0142
Venus	73908-12-07 17:03 G	28715743.07	28715743.21	28715743.38	0.0144	0.0101
Moon	73909-02-27 20:39 G	28715825.12	28715825.36	28715825.62	0.0144	0.0038
Earth	73909-02-28 00:15 G	28715825.27	28715825.51	28715825.76	0.0144	0.0042 *
Venus	73909-07-22 05:17 G	28715969.53	28715969.72	28715969.92	0.0144	0.0060
Earth	73910-03-05 02:53 G	28716195.36	28716195.62	28716195.87	0.0144	0.0007
Moon	73910-03-05 06:00 G	28716195.50	28716195.75	28716196.01	0.0144	0.0006 *
Venus	73910-03-05 17:17 G	28716196.00	28716196.22	28716196.44	0.0144	0.0019 *
Venus	73910-10-18 05:03 G	28716422.49	28716422.71	28716422.93	0.0144	0.0022
Moon	73911-03-10 02:39 G	28716565.36	28716565.61	28716565.86	0.0144	0.0050
Earth	73911-03-10 04:48 G	28716565.48	28716565.70	28716565.95	0.0144	0.0056 *
Venus	73911-06-01 16:48 G	28716649.01	28716649.20	28716649.40	0.0144	0.0063
Venus	73912-01-14 04:34 G	28716875.55	28716875.69	28716875.85	0.0143	0.0104
Earth	73912-03-14 06:43 G	28716935.62	28716935.78	28716935.97	0.0143	0.0103
Moon	73912-03-14 08:53 G	28716935.73	28716935.87	28716936.05	0.0143	0.0112 *
Mercury	73913-09-22 15:51 G	28717493.11	28717493.16	28717493.23	0.0143	0.0131
Mercury	73913-12-19 20:53 G	28717581.28	28717581.37	28717581.48	0.0143	0.0107
Mercury	73914-03-18 02:10 G	28717669.47	28717669.59	28717669.72	0.0143	0.0082
Mercury	73914-06-14 07:27 G	28717757.67	28717757.81	28717757.95	0.0143	0.0057
Mercury	73914-09-10 12:43 G	28717845.88	28717846.03	28717846.18	0.0143	0.0033
Mercury	73914-12-07 18:00 G	28717934.09	28717934.25	28717934.41	0.0143	0.0008
Mercury	73915-03-05 23:17 G	28718022.31	28718022.47	28718022.63	0.0143	0.0017
Mercury	73915-06-02 04:34 G	28718110.54	28718110.69	28718110.84	0.0143	0.0043
Mercury	73915-08-29 09:51 G	28718198.78	28718198.91	28718199.06	0.0143	0.0069
Mercury	73915-11-25 15:22 G	28718287.03	28718287.14	28718287.26	0.0143	0.0094
Mercury	73916-02-21 20:53 G	28718375.29	28718375.37	28718375.46	0.0143	0.0120
Mars	73930-09-22 22:48 G	28723702.23	28723702.45	28723702.69	0.0138	0.0080
Moon	73949-08-22 21:07 G	28730611.24	28730611.38	28730611.56	0.0134	0.0100
Earth	73949-08-22 21:07 G	28730611.25	28730611.38	28730611.56	0.0134	0.0106 *

Venus	73950-06-15 05:03 G	28730907.68	28730907.71	28730907.76	0.0134	0.0132
Earth	73950-08-27 02:53 G	28730980.42	28730980.62	28730980.85	0.0134	0.0068
Moon	73950-08-27 03:22 G	28730980.44	28730980.64	28730980.87	0.0134	0.0073 *
Venus	73951-01-27 10:05 G	28731133.79	28731133.92	28731134.08	0.0134	0.0100
Earth	73951-08-31 08:53 G	28731349.63	28731349.87	28731350.12	0.0134	0.0029
Moon	73951-08-31 09:07 G	28731349.64	28731349.88	28731350.12	0.0134	0.0024 *
Venus	73951-09-10 15:36 G	28731359.97	28731360.15	28731360.34	0.0134	0.0067
Venus	73952-04-23 20:53 G	28731586.17	28731586.37	28731586.59	0.0134	0.0034
Earth	73952-09-03 14:53 G	28731718.87	28731719.12	28731719.37	0.0135	0.0010
Moon	73952-09-03 15:22 G	28731718.89	28731719.14	28731719.41	0.0135	0.0009 *
Venus	73952-12-06 02:24 G	28731812.39	28731812.60	28731812.82	0.0135	0.0001
Venus	73953-07-20 07:55 G	28732038.62	28732038.83	28732039.04	0.0135	0.0032
Moon	73953-09-07 20:24 G	28732088.13	28732088.35	28732088.59	0.0135	0.0047
Earth	73953-09-07 20:39 G	28732088.13	28732088.36	28732088.60	0.0135	0.0048 *
Venus	73954-03-03 13:12 G	28732264.87	28732265.05	28732265.25	0.0135	0.0066
Earth	73954-09-12 02:39 G	28732457.43	28732457.61	28732457.82	0.0135	0.0087
Moon	73954-09-12 02:53 G	28732457.45	28732457.62	28732457.83	0.0135	0.0091 *
Venus	73954-10-15 18:43 G	28732491.15	28732491.28	28732491.44	0.0135	0.0099
Venus	73955-05-30 00:15 G	28732717.49	28732717.51	28732717.58	0.0135	0.0132
Moon	73955-09-16 08:24 G	28732826.75	28732826.85	28732826.97	0.0135	0.0119
Earth	73955-09-16 09:22 G	28732826.80	28732826.89	28732826.98	0.0135	0.0125 *
Mercury	73956-09-30 15:36 G	28733207.08	28733207.15	28733207.22	0.0135	0.0119
Mercury	73956-12-27 20:10 G	28733295.24	28733295.34	28733295.46	0.0135	0.0098
Mercury	73957-03-26 00:58 G	28733383.41	28733383.54	28733383.67	0.0135	0.0076
Mercury	73957-06-22 05:31 G	28733471.59	28733471.73	28733471.88	0.0135	0.0055
Mercury	73957-09-18 10:19 G	28733559.78	28733559.93	28733560.08	0.0135	0.0033
Mercury	73957-12-15 14:53 G	28733647.97	28733648.12	28733648.28	0.0135	0.0013
Mercury	73958-03-13 19:27 G	28733736.16	28733736.31	28733736.47	0.0135	0.0010
Mercury	73958-06-10 00:00 G	28733824.35	28733824.50	28733824.66	0.0135	0.0030
Mercury	73958-09-06 04:34 G	28733912.55	28733912.69	28733912.84	0.0135	0.0051

Mercury	73958-12-03 09:07 G	28734000.75	28734000.88	28734001.01	0.0135	0.0072
Mercury	73959-03-01 13:27 G	28734088.95	28734089.06	28734089.18	0.0135	0.0092
Mercury	73959-05-28 18:00 G	28734177.17	28734177.25	28734177.33	0.0136	0.0113
Mercury	73959-08-24 22:05 G	28734265.41	28734265.42	28734265.46	0.0136	0.0134
Mars	73974-12-23 01:27 G	28739864.25	28739864.56	28739864.89	0.0140	0.0034
Moon	73991-02-19 00:58 G	28745766.51	28745766.54	28745766.61	0.0144	0.0141
Earth	73991-02-19 04:48 G	28745766.61	28745766.70	28745766.79	0.0144	0.0133 *
Earth	73992-02-24 07:12 G	28746136.59	28746136.80	28746137.01	0.0144	0.0085
Moon	73992-02-24 10:34 G	28746136.74	28746136.94	28746137.18	0.0144	0.0078 *
Venus	73992-08-06 23:03 G	28746301.35	28746301.46	28746301.59	0.0144	0.0120
Moon	73993-02-28 06:00 G	28746506.51	28746506.75	28746507.01	0.0144	0.0043
Earth	73993-02-28 09:36 G	28746506.66	28746506.90	28746507.16	0.0144	0.0037 *
Venus	73993-03-21 11:03 G	28746527.79	28746527.96	28746528.15	0.0144	0.0079
Venus	73993-11-02 23:17 G	28746754.26	28746754.47	28746754.68	0.0144	0.0038
Earth	73994-03-05 12:15 G	28746876.76	28746877.01	28746877.27	0.0144	0.0012
Moon	73994-03-05 15:36 G	28746876.90	28746877.15	28746877.40	0.0144	0.0012 *
Venus	73994-06-17 11:17 G	28746980.75	28746980.97	28746981.19	0.0144	0.0003
Venus	73995-01-29 23:03 G	28747207.26	28747207.46	28747207.67	0.0144	0.0044
Moon	73995-03-10 11:03 G	28747246.74	28747246.96	28747247.21	0.0144	0.0064
Earth	73995-03-10 14:39 G	28747246.88	28747247.11	28747247.35	0.0144	0.0061 *
Venus	73995-09-13 10:48 G	28747433.78	28747433.95	28747434.13	0.0143	0.0085
Earth	73996-03-14 16:19 G	28747617.04	28747617.18	28747617.37	0.0143	0.0110
Moon	73996-03-14 18:43 G	28747617.12	28747617.28	28747617.47	0.0143	0.0103 *
Venus	73996-04-26 22:19 G	28747660.34	28747660.43	28747660.55	0.0143	0.0126
Mercury	73997-10-12 23:17 G	28748194.40	28748194.47	28748194.55	0.0143	0.0123
Mercury	73998-01-09 04:19 G	28748282.57	28748282.68	28748282.80	0.0143	0.0099
Mercury	73998-04-07 09:22 G	28748370.77	28748370.89	28748371.03	0.0143	0.0075
Mercury	73998-07-04 14:39 G	28748458.97	28748459.11	28748459.26	0.0143	0.0050
Mercury	73998-09-30 19:55 G	28748547.18	28748547.33	28748547.49	0.0143	0.0025
Mercury	73998-12-28 01:12 G	28748635.40	28748635.55	28748635.71	0.0143	0.0003

Mercury	73999-03-26 06:29 G	28748723.62	28748723.77	28748723.93	0.0143	0.0026
Mercury	73999-06-22 11:46 G	28748811.85	28748811.99	28748812.15	0.0143	0.0051
Mercury	73999-09-18 17:03 G	28748900.09	28748900.21	28748900.36	0.0143	0.0077
Mercury	73999-12-15 22:34 G	28748988.34	28748988.44	28748988.56	0.0143	0.0102
Mercury	74000-03-13 04:05 G	28749076.61	28749076.67	28749076.75	0.0143	0.0128

75TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 75th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	74015-05-18 11:03 G		28754620.71	28754620.96	28754621.22	0.0137	0.0061	
Moon	74032-08-18 23:31 G		28760923.46	28760923.48	28760923.56	0.0134	0.0133	
Earth	74033-08-23 06:15 G		28761292.61	28761292.76	28761292.94	0.0134	0.0101	
Moon	74033-08-23 06:29 G		28761292.65	28761292.77	28761292.94	0.0134	0.0109	*
Moon	74034-08-27 11:03 G		28761661.74	28761661.96	28761662.21	0.0134	0.0056	
Earth	74034-08-27 12:00 G		28761661.79	28761662.00	28761662.23	0.0134	0.0063	*
Venus	74034-09-26 19:12 G		28761692.20	28761692.30	28761692.42	0.0134	0.0115	
Venus	74035-05-11 00:29 G		28761918.36	28761918.52	28761918.70	0.0134	0.0082	
Earth	74035-08-31 17:46 G		28762031.00	28762031.24	28762031.49	0.0134	0.0024	
Moon	74035-08-31 18:00 G		28762031.01	28762031.25	28762031.49	0.0134	0.0029	*
Venus	74035-12-23 06:00 G		28762144.55	28762144.75	28762144.95	0.0134	0.0049	
Venus	74036-08-05 11:17 G		28762370.76	28762370.97	28762371.19	0.0134	0.0017	
Moon	74036-09-03 22:48 G		28762400.20	28762400.45	28762400.72	0.0134	0.0018	
Earth	74036-09-03 23:31 G		28762400.24	28762400.48	28762400.74	0.0134	0.0015	*

Venus	74037-03-19 16:48 G	28762596.99	28762597.20	28762597.42	0.0134	0.0017
Earth	74037-09-08 05:31 G	28762769.50	28762769.73	28762769.96	0.0135	0.0053
Moon	74037-09-08 05:46 G	28762769.52	28762769.74	28762769.96	0.0135	0.0054 *
Venus	74037-10-31 22:05 G	28762823.23	28762823.42	28762823.63	0.0135	0.0050
Venus	74038-06-15 03:51 G	28763049.49	28763049.66	28763049.83	0.0135	0.0083
Moon	74038-09-12 11:03 G	28763138.78	28763138.96	28763139.18	0.0135	0.0088
Earth	74038-09-12 11:17 G	28763138.80	28763138.97	28763139.17	0.0135	0.0092 *
Venus	74039-01-27 09:22 G	28763275.79	28763275.89	28763276.01	0.0135	0.0116
Earth	74039-09-16 17:46 G	28763508.19	28763508.24	28763508.32	0.0135	0.0130
Mercury	74040-10-20 22:05 G	28763908.35	28763908.42	28763908.51	0.0135	0.0114
Mercury	74041-01-17 03:07 G	28763996.51	28763996.63	28763996.74	0.0135	0.0092
Mercury	74041-04-15 07:41 G	28764084.69	28764084.82	28764084.96	0.0135	0.0071
Mercury	74041-07-12 12:29 G	28764172.87	28764173.02	28764173.17	0.0135	0.0049
Mercury	74041-10-08 17:03 G	28764261.06	28764261.21	28764261.37	0.0135	0.0028
Mercury	74042-01-04 21:36 G	28764349.25	28764349.40	28764349.56	0.0135	0.0008
Mercury	74042-04-03 02:24 G	28764437.44	28764437.60	28764437.75	0.0135	0.0015
Mercury	74042-06-30 06:43 G	28764525.64	28764525.78	28764525.94	0.0135	0.0035
Mercury	74042-09-26 11:17 G	28764613.83	28764613.97	28764614.11	0.0135	0.0056
Mercury	74042-12-23 15:51 G	28764702.03	28764702.16	28764702.29	0.0135	0.0077
Mercury	74043-03-21 20:10 G	28764790.24	28764790.34	28764790.45	0.0135	0.0097
Mercury	74043-06-18 00:43 G	28764878.46	28764878.53	28764878.60	0.0136	0.0118
Moon	74075-02-19 09:36 G	28776447.78	28776447.90	28776448.05	0.0144	0.0121
Earth	74075-02-19 13:12 G	28776447.94	28776448.05	28776448.17	0.0144	0.0128 *
Earth	74076-02-24 15:36 G	28776817.95	28776818.15	28776818.38	0.0144	0.0080
Moon	74076-02-24 19:27 G	28776818.10	28776818.31	28776818.51	0.0144	0.0087 *
Venus	74076-04-06 04:19 G	28776859.65	28776859.68	28776859.75	0.0144	0.0140
Venus	74076-11-18 16:34 G	28777086.05	28777086.19	28777086.36	0.0144	0.0099
Moon	74077-02-28 14:53 G	28777187.87	28777188.12	28777188.38	0.0144	0.0026
Earth	74077-02-28 18:43 G	28777188.03	28777188.28	28777188.53	0.0144	0.0031 *
Venus	74077-07-03 04:48 G	28777312.51	28777312.70	28777312.91	0.0144	0.0058

Venus	74078-02-14 17:03 G	28777538.99	28777539.21	28777539.43	0.0144	0.0016
Earth	74078-03-05 21:22 G	28777558.13	28777558.39	28777558.65	0.0144	0.0018
Moon	74078-03-06 00:58 G	28777558.29	28777558.54	28777558.80	0.0144	0.0016 *
Venus	74078-09-29 05:03 G	28777765.49	28777765.71	28777765.92	0.0144	0.0025
Moon	74079-03-10 20:24 G	28777928.13	28777928.35	28777928.60	0.0144	0.0063
Earth	74079-03-10 23:46 G	28777928.27	28777928.49	28777928.73	0.0144	0.0067 *
Venus	74079-05-13 16:48 G	28777992.01	28777992.20	28777992.40	0.0144	0.0066
Venus	74079-12-26 04:34 G	28778218.56	28778218.69	28778218.85	0.0143	0.0107
Earth	74080-03-15 01:41 G	28778298.44	28778298.57	28778298.74	0.0143	0.0115
Moon	74080-03-15 05:03 G	28778298.59	28778298.71	28778298.85	0.0143	0.0122 *
Mercury	74081-08-06 01:12 G	28778807.53	28778807.55	28778807.59	0.0143	0.0140
Mercury	74081-11-02 06:15 G	28778895.68	28778895.76	28778895.86	0.0143	0.0117
Mercury	74082-01-29 11:31 G	28778983.87	28778983.98	28778984.10	0.0143	0.0092
Mercury	74082-04-27 16:48 G	28779072.06	28779072.20	28779072.34	0.0143	0.0067
Mercury	74082-07-24 21:51 G	28779160.27	28779160.41	28779160.56	0.0143	0.0043
Mercury	74082-10-21 03:07 G	28779248.48	28779248.63	28779248.79	0.0143	0.0018
Mercury	74083-01-17 08:24 G	28779336.70	28779336.85	28779337.01	0.0143	0.0009
Mercury	74083-04-15 13:41 G	28779424.92	28779425.07	28779425.23	0.0143	0.0033
Mercury	74083-07-12 18:58 G	28779513.15	28779513.29	28779513.44	0.0143	0.0059
Mercury	74083-10-09 00:29 G	28779601.40	28779601.52	28779601.65	0.0143	0.0084
Mercury	74084-01-05 05:46 G	28779689.65	28779689.74	28779689.85	0.0143	0.0110
Mercury	74084-04-02 11:17 G	28779777.93	28779777.97	28779778.03	0.0143	0.0136
Earth	74116-08-20 10:48 G	28791604.92	28791604.95	28791604.99	0.0134	0.0133
Earth	74117-08-24 16:05 G	28791974.01	28791974.17	28791974.36	0.0134	0.0096
Moon	74117-08-24 17:17 G	28791974.06	28791974.22	28791974.42	0.0134	0.0090 *
Venus	74118-05-28 05:03 G	28792250.67	28792250.71	28792250.78	0.0134	0.0129
Moon	74118-08-28 20:39 G	28792343.15	28792343.36	28792343.61	0.0134	0.0065
Earth	74118-08-28 21:51 G	28792343.19	28792343.41	28792343.65	0.0134	0.0057 *
Venus	74119-01-09 10:05 G	28792476.79	28792476.92	28792477.09	0.0134	0.0098
Venus	74119-08-23 15:36 G	28792702.97	28792703.15	28792703.35	0.0134	0.0064

Earth	74119-09-02 03:36 G	28792712.41	28792712.65	28792712.91	0.0134	0.0019
Moon	74119-09-02 05:03 G	28792712.47	28792712.71	28792712.96	0.0134	0.0013 *
Venus	74120-04-05 20:53 G	28792929.17	28792929.37	28792929.59	0.0134	0.0032
Moon	74120-09-05 08:39 G	28793081.61	28793081.86	28793082.12	0.0134	0.0018
Earth	74120-09-05 09:36 G	28793081.65	28793081.90	28793082.15	0.0134	0.0020 *
Venus	74120-11-18 02:24 G	28793155.38	28793155.60	28793155.82	0.0134	0.0001
Venus	74121-07-02 07:55 G	28793381.62	28793381.83	28793382.04	0.0134	0.0034
Earth	74121-09-09 15:07 G	28793450.92	28793451.13	28793451.37	0.0134	0.0059
Moon	74121-09-09 16:19 G	28793450.97	28793451.18	28793451.41	0.0134	0.0059 *
Venus	74122-02-13 13:12 G	28793607.87	28793608.05	28793608.25	0.0135	0.0068
Moon	74122-09-13 20:10 G	28793820.19	28793820.34	28793820.54	0.0135	0.0100
Earth	74122-09-13 21:36 G	28793820.23	28793820.40	28793820.58	0.0135	0.0097 *
Venus	74122-09-27 18:43 G	28793834.15	28793834.28	28793834.44	0.0135	0.0101
Venus	74123-05-12 00:15 G	28794060.50	28794060.51	28794060.56	0.0135	0.0134
Moon	74123-09-18 04:19 G	28794189.64	28794189.68	28794189.76	0.0135	0.0130
Mercury	74124-08-15 00:29 G	28794521.48	28794521.52	28794521.57	0.0135	0.0129
Mercury	74124-11-11 05:03 G	28794609.63	28794609.71	28794609.82	0.0135	0.0108
Mercury	74125-02-07 09:51 G	28794697.80	28794697.91	28794698.04	0.0135	0.0086
Mercury	74125-05-06 14:53 G	28794785.98	28794786.12	28794786.26	0.0135	0.0064
Mercury	74125-08-02 19:27 G	28794874.16	28794874.31	28794874.46	0.0135	0.0043
Mercury	74125-10-30 00:00 G	28794962.35	28794962.50	28794962.66	0.0135	0.0022
Mercury	74126-01-26 04:48 G	28795050.54	28795050.70	28795050.85	0.0135	0.0002
Mercury	74126-04-24 09:22 G	28795138.73	28795138.89	28795139.04	0.0135	0.0021
Mercury	74126-07-21 13:55 G	28795226.93	28795227.08	28795227.23	0.0135	0.0041
Mercury	74126-10-17 18:15 G	28795315.13	28795315.26	28795315.40	0.0135	0.0062
Mercury	74127-01-13 22:34 G	28795403.33	28795403.44	28795403.57	0.0135	0.0084
Mercury	74127-04-12 03:07 G	28795491.54	28795491.63	28795491.73	0.0135	0.0104
Mercury	74127-07-09 07:41 G	28795579.76	28795579.82	28795579.88	0.0135	0.0124
Mars	74142-05-10 00:15 G	28800998.28	28800998.51	28800998.78	0.0140	0.0093
Moon	74159-02-20 18:29 G	28807129.17	28807129.27	28807129.39	0.0144	0.0129

Earth	74159-02-20 21:07 G	28807129.26	28807129.38	28807129.52	0.0144	0.0123	*
Earth	74160-02-25 23:31 G	28807499.28	28807499.48	28807499.72	0.0144	0.0075	
Moon	74160-02-26 03:07 G	28807499.42	28807499.63	28807499.88	0.0144	0.0067	*
Venus	74160-07-19 21:36 G	28807644.29	28807644.40	28807644.54	0.0144	0.0119	
Moon	74161-03-01 23:17 G	28807869.23	28807869.47	28807869.73	0.0144	0.0033	
Earth	74161-03-02 02:39 G	28807869.37	28807869.61	28807869.87	0.0144	0.0026	*
Venus	74161-03-03 09:51 G	28807870.74	28807870.91	28807871.10	0.0144	0.0078	
Venus	74161-10-15 22:05 G	28808097.21	28808097.42	28808097.63	0.0144	0.0037	
Earth	74162-03-07 05:31 G	28808239.48	28808239.73	28808239.99	0.0144	0.0024	
Moon	74162-03-07 09:07 G	28808239.63	28808239.88	28808240.14	0.0144	0.0025	*
Venus	74162-05-30 10:05 G	28808323.71	28808323.92	28808324.15	0.0144	0.0006	
Venus	74163-01-11 22:19 G	28808550.22	28808550.43	28808550.64	0.0144	0.0046	
Moon	74163-03-12 04:05 G	28808609.46	28808609.67	28808609.91	0.0144	0.0075	
Earth	74163-03-12 07:55 G	28808609.62	28808609.83	28808610.07	0.0144	0.0073	*
Venus	74163-08-26 10:05 G	28808776.76	28808776.92	28808777.10	0.0144	0.0087	
Earth	74164-03-16 10:34 G	28808979.81	28808979.94	28808980.08	0.0143	0.0121	
Moon	74164-03-16 13:27 G	28808979.93	28808980.06	28808980.23	0.0143	0.0115	*
Venus	74164-04-08 22:05 G	28809003.32	28809003.42	28809003.52	0.0143	0.0127	
Mercury	74165-08-27 08:24 G	28809508.80	28809508.85	28809508.91	0.0143	0.0134	
Mercury	74165-11-23 13:27 G	28809596.97	28809597.06	28809597.16	0.0143	0.0109	
Mercury	74166-02-19 18:29 G	28809685.15	28809685.27	28809685.40	0.0143	0.0085	
Mercury	74166-05-18 23:46 G	28809773.35	28809773.49	28809773.63	0.0143	0.0060	
Mercury	74166-08-15 04:48 G	28809861.56	28809861.70	28809861.86	0.0143	0.0036	
Mercury	74166-11-11 10:19 G	28809949.77	28809949.93	28809950.08	0.0143	0.0011	
Mercury	74167-02-07 15:36 G	28810037.99	28810038.15	28810038.30	0.0143	0.0015	
Mercury	74167-05-06 20:39 G	28810126.22	28810126.36	28810126.52	0.0143	0.0040	
Mercury	74167-08-03 02:10 G	28810214.45	28810214.59	28810214.73	0.0143	0.0065	
Mercury	74167-10-30 07:27 G	28810302.69	28810302.81	28810302.94	0.0143	0.0091	
Mercury	74168-01-26 12:43 G	28810390.95	28810391.03	28810391.13	0.0143	0.0117	
Mercury	74168-04-23 18:15 G	28810479.26	28810479.26	28810479.28	0.0143	0.0143	

Mars	74182-10-06 09:07 G	28815757.60	28815757.88	28815758.16	0.0138	0.0030
Moon	74200-08-21 18:29 G	28822286.17	28822286.27	28822286.38	0.0134	0.0123
Earth	74200-08-21 19:55 G	28822286.28	28822286.33	28822286.43	0.0134	0.0129 *
Earth	74201-08-26 01:41 G	28822655.40	28822655.57	28822655.77	0.0134	0.0090
Moon	74201-08-26 03:22 G	28822655.49	28822655.64	28822655.82	0.0134	0.0098 *
Moon	74202-08-30 05:17 G	28823024.49	28823024.72	28823024.98	0.0134	0.0046
Earth	74202-08-30 07:27 G	28823024.59	28823024.81	28823025.05	0.0134	0.0053 *
Venus	74202-09-09 19:41 G	28823035.22	28823035.32	28823035.45	0.0134	0.0112
Venus	74203-04-24 00:58 G	28823261.38	28823261.54	28823261.72	0.0134	0.0080
Earth	74203-09-03 13:27 G	28823393.81	28823394.06	28823394.31	0.0134	0.0014
Moon	74203-09-03 14:39 G	28823393.87	28823394.11	28823394.36	0.0134	0.0019 *
Venus	74203-12-06 06:29 G	28823487.57	28823487.77	28823487.97	0.0134	0.0047
Venus	74204-07-19 11:46 G	28823713.78	28823713.99	28823714.21	0.0134	0.0015
Moon	74204-09-06 17:03 G	28823762.96	28823763.21	28823763.47	0.0134	0.0029
Earth	74204-09-06 18:58 G	28823763.05	28823763.29	28823763.54	0.0134	0.0025 *
Venus	74205-03-02 17:17 G	28823940.01	28823940.22	28823940.44	0.0134	0.0019
Earth	74205-09-11 00:58 G	28824132.33	28824132.54	28824132.77	0.0134	0.0064
Moon	74205-09-11 02:10 G	28824132.39	28824132.59	28824132.82	0.0134	0.0064 *
Venus	74205-10-14 22:48 G	28824166.25	28824166.45	28824166.65	0.0134	0.0052
Venus	74206-05-29 04:19 G	28824392.52	28824392.68	28824392.85	0.0134	0.0085
Moon	74206-09-15 05:17 G	28824501.57	28824501.72	28824501.92	0.0135	0.0100
Earth	74206-09-15 06:58 G	28824501.64	28824501.79	28824501.97	0.0135	0.0103 *
Venus	74207-01-10 09:51 G	28824618.82	28824618.91	28824619.02	0.0135	0.0118
Mercury	74208-09-05 07:27 G	28825222.75	28825222.81	28825222.87	0.0135	0.0123
Mercury	74208-12-02 12:00 G	28825310.91	28825311.00	28825311.11	0.0135	0.0102
Mercury	74209-02-28 16:48 G	28825399.08	28825399.20	28825399.34	0.0135	0.0080
Mercury	74209-05-27 21:36 G	28825487.26	28825487.40	28825487.55	0.0135	0.0059
Mercury	74209-08-24 02:24 G	28825575.45	28825575.60	28825575.75	0.0135	0.0037
Mercury	74209-11-20 06:58 G	28825663.64	28825663.79	28825663.95	0.0135	0.0016
Mercury	74210-02-16 11:31 G	28825751.83	28825751.98	28825752.14	0.0135	0.0007

Mercury	74210-05-15 16:19 G	28825840.02	28825840.18	28825840.33	0.0135	0.0027
Mercury	74210-08-11 20:39 G	28825928.22	28825928.36	28825928.51	0.0135	0.0048
Mercury	74210-11-08 01:12 G	28826016.42	28826016.55	28826016.69	0.0135	0.0068
Mercury	74211-02-04 05:46 G	28826104.62	28826104.74	28826104.85	0.0135	0.0089
Mercury	74211-05-03 09:51 G	28826192.83	28826192.91	28826193.01	0.0135	0.0110
Mercury	74211-07-30 14:24 G	28826281.07	28826281.10	28826281.15	0.0135	0.0130
Mars	74227-01-04 22:05 G	28831918.17	28831918.42	28831918.71	0.0141	0.0081
Moon	74243-02-22 03:07 G	28837810.49	28837810.63	28837810.81	0.0144	0.0112
Earth	74243-02-22 05:46 G	28837810.61	28837810.74	28837810.90	0.0144	0.0118 *
Earth	74244-02-27 08:53 G	28838180.65	28838180.87	28838181.10	0.0144	0.0069
Moon	74244-02-27 11:17 G	28838180.77	28838180.97	28838181.21	0.0144	0.0077 *
Venus	74244-03-20 03:22 G	28838202.59	28838202.64	28838202.70	0.0144	0.0138
Venus	74244-11-01 15:36 G	28838428.99	28838429.15	28838429.31	0.0144	0.0097
Moon	74245-03-03 08:24 G	28838550.60	28838550.85	28838551.11	0.0144	0.0014
Earth	74245-03-03 12:00 G	28838550.74	28838551.00	28838551.25	0.0144	0.0020 *
Venus	74245-06-16 03:51 G	28838655.46	28838655.66	28838655.86	0.0144	0.0056
Venus	74246-01-28 16:05 G	28838881.95	28838882.17	28838882.39	0.0144	0.0015
Earth	74246-03-08 14:39 G	28838920.86	28838921.11	28838921.37	0.0144	0.0029
Moon	74246-03-08 18:15 G	28838921.01	28838921.26	28838921.52	0.0144	0.0026 *
Venus	74246-09-12 04:05 G	28839108.46	28839108.67	28839108.89	0.0144	0.0026
Moon	74247-03-13 13:41 G	28839290.86	28839291.07	28839291.30	0.0144	0.0076
Earth	74247-03-13 17:17 G	28839291.02	28839291.22	28839291.45	0.0144	0.0079 *
Venus	74247-04-26 15:51 G	28839334.98	28839335.16	28839335.37	0.0144	0.0068
Venus	74247-12-09 04:05 G	28839561.53	28839561.67	28839561.82	0.0143	0.0108
Earth	74248-03-17 19:41 G	28839661.22	28839661.32	28839661.46	0.0143	0.0127
Moon	74248-03-17 23:46 G	28839661.40	28839661.49	28839661.59	0.0143	0.0133 *
Mercury	74249-09-17 15:36 G	28840210.08	28840210.15	28840210.22	0.0143	0.0127
Mercury	74249-12-14 20:39 G	28840298.26	28840298.36	28840298.47	0.0143	0.0102
Mercury	74250-03-13 01:41 G	28840386.45	28840386.57	28840386.71	0.0143	0.0078
Mercury	74250-06-09 06:58 G	28840474.65	28840474.79	28840474.93	0.0143	0.0053

Mercury	74250-09-05 12:00 G	28840562.85	28840563.00	28840563.16	0.0143	0.0029
Mercury	74250-12-02 17:17 G	28840651.07	28840651.22	28840651.38	0.0143	0.0005
Mercury	74251-02-28 22:34 G	28840739.29	28840739.44	28840739.60	0.0143	0.0022
Mercury	74251-05-28 03:51 G	28840827.52	28840827.66	28840827.81	0.0143	0.0047
Mercury	74251-08-24 09:07 G	28840915.75	28840915.88	28840916.02	0.0143	0.0073
Mercury	74251-11-20 14:39 G	28841004.00	28841004.11	28841004.23	0.0143	0.0098
Mercury	74252-02-16 19:55 G	28841092.26	28841092.33	28841092.42	0.0143	0.0124
Mars	74267-06-01 19:27 G	28846676.16	28846676.31	28846676.50	0.0138	0.0111
Moon	74284-08-22 03:51 G	28852967.60	28852967.66	28852967.75	0.0134	0.0128
Earth	74284-08-22 06:15 G	28852967.69	28852967.76	28852967.89	0.0134	0.0124 *
Earth	74285-08-26 12:15 G	28853336.83	28853337.01	28853337.21	0.0134	0.0085
Moon	74285-08-26 14:39 G	28853336.92	28853337.11	28853337.32	0.0134	0.0079 *
Venus	74286-05-10 05:46 G	28853593.69	28853593.74	28853593.83	0.0134	0.0127
Moon	74286-08-30 15:51 G	28853705.93	28853706.16	28853706.41	0.0134	0.0054
Earth	74286-08-30 18:15 G	28853706.02	28853706.26	28853706.49	0.0134	0.0047 *
Venus	74286-12-22 11:03 G	28853819.82	28853819.96	28853820.13	0.0134	0.0094
Venus	74287-08-05 16:34 G	28854046.00	28854046.19	28854046.39	0.0134	0.0061
Earth	74287-09-03 23:46 G	28854075.25	28854075.49	28854075.75	0.0134	0.0009
Moon	74287-09-04 02:24 G	28854075.35	28854075.60	28854075.84	0.0134	0.0002 *
Venus	74288-03-18 21:51 G	28854272.21	28854272.41	28854272.63	0.0134	0.0029
Moon	74288-09-07 03:51 G	28854444.41	28854444.66	28854444.91	0.0134	0.0027
Earth	74288-09-07 05:46 G	28854444.50	28854444.74	28854444.99	0.0134	0.0031 *
Venus	74288-10-31 03:22 G	28854498.42	28854498.64	28854498.86	0.0134	0.0004
Venus	74289-06-14 08:53 G	28854724.67	28854724.87	28854725.08	0.0134	0.0037
Earth	74289-09-11 11:31 G	28854813.78	28854813.98	28854814.21	0.0134	0.0070
Moon	74289-09-11 13:55 G	28854813.87	28854814.08	28854814.29	0.0134	0.0071 *
Venus	74290-01-26 14:10 G	28854950.92	28854951.09	28854951.29	0.0134	0.0071
Jupiter	74290-03-28 17:46 G	28855012.23	28855012.24	28855012.36	0.0134	0.0134
Venus	74290-09-09 19:41 G	28855177.20	28855177.32	28855177.47	0.0135	0.0104
Moon	74290-09-15 15:36 G	28855183.01	28855183.15	28855183.31	0.0135	0.0109

Earth	74290-09-15 18:00 G	28855183.11	28855183.25	28855183.40	0.0135	0.0108	*
Mercury	74292-09-25 14:24 G	28855924.03	28855924.10	28855924.19	0.0135	0.0116	
Mercury	74292-12-22 19:27 G	28856012.20	28856012.31	28856012.42	0.0135	0.0094	
Mercury	74293-03-21 00:00 G	28856100.37	28856100.50	28856100.64	0.0135	0.0073	
Mercury	74293-06-17 04:48 G	28856188.56	28856188.70	28856188.85	0.0135	0.0051	
Mercury	74293-09-13 09:36 G	28856276.75	28856276.90	28856277.05	0.0135	0.0030	
Mercury	74293-12-10 14:10 G	28856364.94	28856365.09	28856365.25	0.0135	0.0009	
Mercury	74294-03-08 18:43 G	28856453.13	28856453.28	28856453.44	0.0135	0.0013	
Mercury	74294-06-04 23:17 G	28856541.32	28856541.47	28856541.63	0.0135	0.0033	
Mercury	74294-09-01 03:51 G	28856629.52	28856629.66	28856629.81	0.0135	0.0054	
Mercury	74294-11-28 08:10 G	28856717.72	28856717.84	28856717.98	0.0135	0.0075	
Mercury	74295-02-24 12:43 G	28856805.93	28856806.03	28856806.15	0.0135	0.0096	
Mercury	74295-05-23 17:17 G	28856894.14	28856894.22	28856894.30	0.0135	0.0116	
Moon	74327-02-23 13:41 G	28868491.95	28868492.07	28868492.23	0.0144	0.0118	
Earth	74327-02-23 15:51 G	28868492.00	28868492.16	28868492.32	0.0144	0.0112	*
Earth	74328-02-28 18:15 G	28868862.05	28868862.26	28868862.51	0.0144	0.0064	
Moon	74328-02-28 21:22 G	28868862.15	28868862.39	28868862.64	0.0144	0.0055	*
Venus	74328-07-02 21:36 G	28868987.28	28868987.40	28868987.54	0.0144	0.0116	
Venus	74329-02-14 09:51 G	28869213.73	28869213.91	28869214.10	0.0144	0.0075	
Moon	74329-03-04 18:58 G	28869232.04	28869232.29	28869232.54	0.0144	0.0021	
Earth	74329-03-04 21:51 G	28869232.15	28869232.41	28869232.66	0.0144	0.0014	*
Venus	74329-09-28 22:05 G	28869440.21	28869440.42	28869440.64	0.0144	0.0034	
Earth	74330-03-10 00:29 G	28869602.28	28869602.52	28869602.78	0.0144	0.0035	
Moon	74330-03-10 04:05 G	28869602.42	28869602.67	28869602.93	0.0144	0.0038	*
Venus	74330-05-13 10:19 G	28869666.71	28869666.93	28869667.15	0.0144	0.0007	
Venus	74330-12-25 22:19 G	28869893.24	28869893.43	28869893.65	0.0144	0.0049	
Moon	74331-03-14 23:31 G	28869972.29	28869972.48	28869972.70	0.0144	0.0085	
Earth	74331-03-15 03:07 G	28869972.44	28869972.63	28869972.85	0.0144	0.0085	*
Jupiter	74331-06-13 13:12 G	28870062.72	28870063.05	28870063.44	0.0144	0.0106	
Venus	74331-08-09 10:34 G	28870119.77	28870119.94	28870120.11	0.0144	0.0089	

Earth	74332-03-19 05:46 G	28870342.66	28870342.74	28870342.85	0.0143	0.0133
Moon	74332-03-19 09:22 G	28870342.78	28870342.89	28870343.02	0.0143	0.0127 *
Venus	74332-03-22 22:05 G	28870346.35	28870346.42	28870346.53	0.0143	0.0130
Mercury	74333-07-12 17:46 G	28870823.24	28870823.24	28870823.25	0.0143	0.0143
Mercury	74333-10-08 22:48 G	28870911.37	28870911.45	28870911.54	0.0143	0.0119
Mercury	74334-01-05 03:51 G	28870999.55	28870999.66	28870999.78	0.0143	0.0095
Mercury	74334-04-03 09:07 G	28871087.74	28871087.88	28871088.01	0.0143	0.0070
Mercury	74334-06-30 14:10 G	28871175.95	28871176.09	28871176.24	0.0143	0.0046
Mercury	74334-09-26 19:27 G	28871264.16	28871264.31	28871264.46	0.0143	0.0021
Mercury	74334-12-24 00:43 G	28871352.37	28871352.53	28871352.68	0.0143	0.0005
Mercury	74335-03-22 05:46 G	28871440.59	28871440.74	28871440.90	0.0143	0.0030
Mercury	74335-06-18 11:03 G	28871528.82	28871528.96	28871529.11	0.0143	0.0055
Mercury	74335-09-14 16:34 G	28871617.06	28871617.19	28871617.32	0.0143	0.0080
Mercury	74335-12-11 21:51 G	28871705.31	28871705.41	28871705.52	0.0143	0.0106
Mercury	74336-03-09 03:07 G	28871793.58	28871793.63	28871793.70	0.0143	0.0132
Mars	74350-02-25 07:27 G	28876894.68	28876894.81	28876894.97	0.0138	0.0118
Moon	74368-08-23 13:41 G	28883648.96	28883649.07	28883649.22	0.0134	0.0114
Earth	74368-08-23 16:34 G	28883649.09	28883649.19	28883649.32	0.0134	0.0119 *
Earth	74369-08-27 22:05 G	28884018.23	28884018.42	28884018.64	0.0134	0.0081
Moon	74369-08-28 00:58 G	28884018.36	28884018.54	28884018.73	0.0134	0.0088 *
Venus	74370-08-22 20:53 G	28884378.26	28884378.37	28884378.51	0.0134	0.0109
Moon	74370-09-01 01:12 G	28884387.30	28884387.55	28884387.80	0.0134	0.0035
Earth	74370-09-01 04:05 G	28884387.44	28884387.67	28884387.91	0.0134	0.0042 *
Venus	74371-04-06 02:10 G	28884604.42	28884604.59	28884604.78	0.0134	0.0076
Earth	74371-09-05 10:05 G	28884756.67	28884756.92	28884757.17	0.0134	0.0004
Moon	74371-09-05 12:29 G	28884756.77	28884757.02	28884757.26	0.0134	0.0010 *
Venus	74371-11-18 07:41 G	28884830.62	28884830.82	28884831.03	0.0134	0.0043
Venus	74372-07-01 13:12 G	28885056.83	28885057.05	28885057.27	0.0134	0.0010
Moon	74372-09-08 12:43 G	28885125.80	28885126.03	28885126.28	0.0134	0.0041
Earth	74372-09-08 15:51 G	28885125.92	28885126.16	28885126.40	0.0134	0.0036 *

Venus	74373-02-12 18:29 G	28885283.06	28885283.27	28885283.49	0.0134	0.0023
Earth	74373-09-12 21:36 G	28885495.20	28885495.40	28885495.62	0.0134	0.0075
Moon	74373-09-13 00:15 G	28885495.31	28885495.51	28885495.72	0.0134	0.0073 *
Venus	74373-09-26 23:46 G	28885509.31	28885509.49	28885509.70	0.0134	0.0056
Venus	74374-05-11 05:17 G	28885735.57	28885735.72	28885735.89	0.0134	0.0089
Moon	74374-09-17 01:12 G	28885864.43	28885864.55	28885864.71	0.0135	0.0112
Earth	74374-09-17 04:05 G	28885864.54	28885864.67	28885864.81	0.0135	0.0113 *
Venus	74374-12-23 11:03 G	28885961.87	28885961.96	28885962.06	0.0135	0.0121
Mercury	74376-07-20 16:34 G	28886537.17	28886537.19	28886537.23	0.0135	0.0132
Mercury	74376-10-16 21:22 G	28886625.31	28886625.39	28886625.49	0.0135	0.0110
Mercury	74377-01-13 02:24 G	28886713.48	28886713.60	28886713.72	0.0135	0.0088
Mercury	74377-04-11 06:58 G	28886801.66	28886801.79	28886801.93	0.0135	0.0067
Mercury	74377-07-08 11:46 G	28886889.84	28886889.99	28886890.14	0.0135	0.0045
Mercury	74377-10-04 16:34 G	28886978.03	28886978.19	28886978.34	0.0135	0.0024
Mercury	74377-12-31 21:07 G	28887066.22	28887066.38	28887066.54	0.0135	0.0003
Mercury	74378-03-30 01:41 G	28887154.42	28887154.57	28887154.73	0.0135	0.0018
Mercury	74378-06-26 06:15 G	28887242.61	28887242.76	28887242.91	0.0135	0.0039
Mercury	74378-09-22 10:34 G	28887330.81	28887330.94	28887331.09	0.0135	0.0061
Mercury	74378-12-19 15:22 G	28887419.02	28887419.14	28887419.26	0.0135	0.0081
Mercury	74379-03-17 19:41 G	28887507.23	28887507.32	28887507.43	0.0135	0.0101
Mercury	74379-06-14 00:15 G	28887595.45	28887595.51	28887595.58	0.0135	0.0122
Mars	74394-05-23 05:03 G	28893052.40	28893052.71	28893053.04	0.0140	0.0037
Moon	74411-02-24 00:43 G	28899173.37	28899173.53	28899173.73	0.0144	0.0102
Earth	74411-02-24 02:10 G	28899173.44	28899173.59	28899173.78	0.0144	0.0107 *
Earth	74412-02-29 05:17 G	28899543.50	28899543.72	28899543.97	0.0144	0.0058
Moon	74412-02-29 07:12 G	28899543.57	28899543.80	28899544.05	0.0144	0.0065 *
Venus	74412-03-02 04:19 G	28899545.61	28899545.68	28899545.76	0.0144	0.0134
Venus	74412-10-14 16:34 G	28899772.03	28899772.19	28899772.36	0.0144	0.0093
Moon	74413-03-05 06:00 G	28899913.50	28899913.75	28899914.00	0.0144	0.0002
Earth	74413-03-05 08:53 G	28899913.61	28899913.87	28899914.13	0.0144	0.0008 *

Venus	74413-05-29 04:48 G	28899998.50	28899998.70	28899998.91	0.0144	0.0052
Venus	74414-01-10 17:17 G	28900225.01	28900225.22	28900225.44	0.0144	0.0011
Earth	74414-03-10 11:31 G	28900283.74	28900283.98	28900284.24	0.0144	0.0042
Moon	74414-03-10 14:39 G	28900283.86	28900284.11	28900284.37	0.0144	0.0037 *
Venus	74414-08-25 05:31 G	28900451.52	28900451.73	28900451.95	0.0144	0.0030
Moon	74415-03-15 11:03 G	28900653.77	28900653.96	28900654.17	0.0144	0.0089
Earth	74415-03-15 14:24 G	28900653.91	28900654.10	28900654.31	0.0144	0.0091 *
Venus	74415-04-08 17:31 G	28900678.04	28900678.23	28900678.42	0.0144	0.0071
Venus	74415-11-21 05:17 G	28900904.60	28900904.72	28900904.87	0.0144	0.0112
Earth	74416-03-19 17:03 G	28901024.16	28901024.21	28901024.29	0.0144	0.0139
Mercury	74417-08-02 01:27 G	28901524.51	28901524.56	28901524.61	0.0143	0.0135
Mercury	74417-10-29 06:29 G	28901612.67	28901612.77	28901612.86	0.0143	0.0111
Mercury	74418-01-25 11:17 G	28901700.86	28901700.97	28901701.10	0.0143	0.0087
Mercury	74418-04-23 16:34 G	28901789.05	28901789.19	28901789.33	0.0143	0.0062
Mercury	74418-07-20 21:36 G	28901877.26	28901877.40	28901877.56	0.0143	0.0037
Mercury	74418-10-17 02:53 G	28901965.47	28901965.62	28901965.78	0.0143	0.0012
Mercury	74419-01-13 08:10 G	28902053.68	28902053.84	28902054.00	0.0143	0.0013
Mercury	74419-04-11 13:27 G	28902141.91	28902142.06	28902142.21	0.0143	0.0038
Mercury	74419-07-08 18:43 G	28902230.14	28902230.28	28902230.42	0.0143	0.0063
Mercury	74419-10-05 00:00 G	28902318.38	28902318.50	28902318.63	0.0143	0.0089
Mercury	74420-01-01 05:17 G	28902406.64	28902406.72	28902406.82	0.0143	0.0115
Mercury	74420-03-29 10:48 G	28902494.93	28902494.95	28902494.98	0.0143	0.0140
Mars	74434-10-20 20:53 G	28907813.10	28907813.37	28907813.66	0.0138	0.0024
Moon	74452-08-24 00:00 G	28914330.40	28914330.50	28914330.64	0.0134	0.0118
Earth	74452-08-24 03:22 G	28914330.53	28914330.64	28914330.80	0.0134	0.0113 *
Earth	74453-08-28 09:07 G	28914699.69	28914699.88	28914700.11	0.0134	0.0075
Moon	74453-08-28 12:15 G	28914699.82	28914700.01	28914700.24	0.0134	0.0070 *
Venus	74454-04-22 07:27 G	28914936.73	28914936.81	28914936.90	0.0134	0.0122
Moon	74454-09-01 12:00 G	28915068.77	28915069.00	28915069.26	0.0134	0.0044
Earth	74454-09-01 15:07 G	28915068.90	28915069.13	28915069.38	0.0134	0.0037 *

Venus	74454-12-04 12:29 G	28915162.88	28915163.02	28915163.20	0.0134	0.0090
Venus	74455-07-18 18:00 G	28915389.07	28915389.25	28915389.46	0.0134	0.0058
Earth	74455-09-05 21:07 G	28915438.13	28915438.38	28915438.63	0.0134	0.0003
Moon	74455-09-06 00:15 G	28915438.27	28915438.51	28915438.76	0.0134	0.0010 *
Venus	74456-02-29 23:31 G	28915615.27	28915615.48	28915615.69	0.0134	0.0025
Moon	74456-09-09 00:00 G	28915807.26	28915807.50	28915807.75	0.0134	0.0036
Earth	74456-09-09 02:53 G	28915807.39	28915807.62	28915807.86	0.0134	0.0041 *
Venus	74456-10-13 04:48 G	28915841.49	28915841.70	28915841.92	0.0134	0.0008
Venus	74457-05-27 10:05 G	28916067.73	28916067.92	28916068.14	0.0134	0.0042
Earth	74457-09-13 08:53 G	28916176.67	28916176.87	28916177.07	0.0134	0.0080
Moon	74457-09-13 11:46 G	28916176.81	28916176.99	28916177.19	0.0134	0.0083 *
Venus	74458-01-08 15:51 G	28916293.98	28916294.16	28916294.34	0.0134	0.0074
Venus	74458-08-22 21:07 G	28916520.26	28916520.38	28916520.52	0.0135	0.0107
Moon	74458-09-17 11:46 G	28916545.88	28916545.99	28916546.12	0.0135	0.0118
Earth	74458-09-17 14:39 G	28916546.01	28916546.11	28916546.24	0.0135	0.0119 *
Mercury	74460-08-09 23:46 G	28917238.44	28917238.49	28917238.56	0.0135	0.0125
Mercury	74460-11-06 04:34 G	28917326.60	28917326.69	28917326.80	0.0135	0.0103
Mercury	74461-02-02 09:22 G	28917414.77	28917414.89	28917415.02	0.0135	0.0082
Mercury	74461-05-01 14:10 G	28917502.95	28917503.09	28917503.24	0.0135	0.0060
Mercury	74461-07-28 18:43 G	28917591.14	28917591.28	28917591.44	0.0135	0.0040
Mercury	74461-10-24 23:31 G	28917679.33	28917679.48	28917679.64	0.0135	0.0018
Mercury	74462-01-21 04:19 G	28917767.52	28917767.68	28917767.83	0.0135	0.0004
Mercury	74462-04-19 08:53 G	28917855.72	28917855.87	28917856.02	0.0135	0.0025
Mercury	74462-07-16 13:12 G	28917943.91	28917944.05	28917944.21	0.0135	0.0047
Mercury	74462-10-12 18:00 G	28918032.11	28918032.25	28918032.38	0.0135	0.0067
Mercury	74463-01-08 22:19 G	28918120.32	28918120.43	28918120.55	0.0135	0.0087
Mercury	74463-04-07 02:53 G	28918208.53	28918208.62	28918208.71	0.0135	0.0108
Mercury	74463-07-04 07:12 G	28918296.76	28918296.80	28918296.86	0.0135	0.0128
Moon	74495-02-24 13:27 G	28929854.89	28929855.06	28929855.23	0.0144	0.0104
Earth	74495-02-24 13:41 G	28929854.90	28929855.07	28929855.26	0.0144	0.0100 *

Earth	74496-02-29 17:03 G	28930224.97	28930225.21	28930225.45	0.0144	0.0051
Moon	74496-02-29 18:43 G	28930225.03	28930225.28	28930225.54	0.0144	0.0043 *
Venus	74496-06-13 23:31 G	28930330.35	28930330.48	28930330.63	0.0144	0.0111
Venus	74497-01-26 12:00 G	28930556.81	28930557.00	28930557.20	0.0144	0.0070
Moon	74497-03-05 18:29 G	28930595.02	28930595.27	28930595.52	0.0144	0.0009
Earth	74497-03-05 20:10 G	28930595.08	28930595.34	28930595.60	0.0144	0.0002 *
Venus	74497-09-10 00:15 G	28930783.30	28930783.51	28930783.73	0.0144	0.0029
Earth	74498-03-10 23:03 G	28930965.22	28930965.46	28930965.71	0.0144	0.0048
Moon	74498-03-11 02:10 G	28930965.35	28930965.59	28930965.84	0.0144	0.0051 *
Venus	74498-04-24 12:29 G	28931009.81	28931010.02	28931010.24	0.0144	0.0013
Venus	74498-12-07 00:29 G	28931236.33	28931236.52	28931236.74	0.0144	0.0054
Moon	74499-03-15 22:34 G	28931335.27	28931335.44	28931335.65	0.0144	0.0097
Earth	74499-03-16 01:55 G	28931335.40	28931335.58	28931335.78	0.0144	0.0097 *
Venus	74499-07-21 12:43 G	28931462.87	28931463.03	28931463.20	0.0144	0.0094
Venus	74500-03-05 00:29 G	28931689.46	28931689.52	28931689.60	0.0144	0.0135
Moon	74500-03-21 07:55 G	28931705.79	28931705.83	28931705.90	0.0144	0.0140
Mercury	74501-08-23 08:39 G	28932225.80	28932225.86	28932225.94	0.0143	0.0127
Mercury	74501-11-19 13:41 G	28932313.98	28932314.07	28932314.19	0.0143	0.0103
Mercury	74502-02-15 18:43 G	28932402.16	28932402.28	28932402.42	0.0143	0.0079
Mercury	74502-05-15 00:00 G	28932490.36	28932490.50	28932490.65	0.0143	0.0053
Mercury	74502-08-11 05:17 G	28932578.57	28932578.72	28932578.87	0.0143	0.0028
Mercury	74502-11-07 10:34 G	28932666.78	28932666.94	28932667.09	0.0143	0.0005
Mercury	74503-02-03 15:36 G	28932755.00	28932755.15	28932755.31	0.0143	0.0022
Mercury	74503-05-02 20:53 G	28932843.23	28932843.37	28932843.52	0.0143	0.0047
Mercury	74503-07-30 02:10 G	28932931.46	28932931.59	28932931.73	0.0143	0.0072
Mercury	74503-10-26 07:27 G	28933019.70	28933019.81	28933019.93	0.0143	0.0098
Mercury	74504-01-22 12:58 G	28933107.96	28933108.04	28933108.12	0.0143	0.0123
Moon	74536-08-25 11:17 G	28945011.82	28945011.97	28945012.13	0.0134	0.0104
Earth	74536-08-25 14:10 G	28945011.97	28945012.09	28945012.26	0.0134	0.0108 *
Earth	74537-08-29 20:10 G	28945381.13	28945381.34	28945381.56	0.0134	0.0069

Moon	74537-08-29 23:31 G	28945381.28	28945381.48	28945381.69	0.0134	0.0076	*
Venus	74538-08-04 22:48 G	28945721.33	28945721.45	28945721.60	0.0134	0.0105	
Moon	74538-09-02 22:34 G	28945750.19	28945750.44	28945750.69	0.0134	0.0024	
Earth	74538-09-03 01:55 G	28945750.34	28945750.58	28945750.83	0.0134	0.0031	*
Venus	74539-03-19 04:05 G	28945947.50	28945947.67	28945947.87	0.0134	0.0072	
Earth	74539-09-07 07:41 G	28946119.57	28946119.82	28946120.07	0.0134	0.0008	
Moon	74539-09-07 10:48 G	28946119.71	28946119.95	28946120.20	0.0134	0.0002	*
Venus	74539-10-31 09:36 G	28946173.70	28946173.90	28946174.11	0.0134	0.0039	
Venus	74540-06-13 15:07 G	28946399.91	28946400.13	28946400.34	0.0134	0.0006	
Moon	74540-09-10 09:36 G	28946488.68	28946488.90	28946489.15	0.0134	0.0053	
Earth	74540-09-10 13:27 G	28946488.83	28946489.06	28946489.30	0.0134	0.0046	*
Venus	74541-01-25 20:24 G	28946626.14	28946626.35	28946626.56	0.0134	0.0026	
Venus	74541-09-09 01:27 G	28946852.38	28946852.56	28946852.77	0.0134	0.0060	
Earth	74541-09-14 18:43 G	28946858.11	28946858.28	28946858.49	0.0134	0.0086	
Moon	74541-09-14 22:05 G	28946858.24	28946858.42	28946858.63	0.0134	0.0082	*
Venus	74542-04-23 06:43 G	28947078.64	28947078.78	28947078.95	0.0134	0.0093	
Moon	74542-09-18 21:51 G	28947227.31	28947227.41	28947227.51	0.0135	0.0123	
Earth	74542-09-19 00:43 G	28947227.45	28947227.53	28947227.65	0.0135	0.0124	*
Venus	74542-12-05 12:15 G	28947304.95	28947305.01	28947305.10	0.0135	0.0125	
Mercury	74544-08-31 06:43 G	28947939.72	28947939.78	28947939.86	0.0135	0.0119	
Mercury	74544-11-27 11:31 G	28948027.88	28948027.98	28948028.10	0.0135	0.0097	
Mercury	74545-02-23 16:19 G	28948116.06	28948116.18	28948116.32	0.0135	0.0076	
Mercury	74545-05-22 21:07 G	28948204.24	28948204.38	28948204.53	0.0135	0.0054	
Mercury	74545-08-19 01:55 G	28948292.43	28948292.58	28948292.73	0.0135	0.0033	
Mercury	74545-11-15 06:29 G	28948380.62	28948380.77	28948380.93	0.0135	0.0012	
Mercury	74546-02-11 11:17 G	28948468.81	28948468.97	28948469.12	0.0135	0.0010	
Mercury	74546-05-10 15:36 G	28948557.01	28948557.15	28948557.31	0.0135	0.0031	
Mercury	74546-08-06 20:24 G	28948645.20	28948645.35	28948645.49	0.0135	0.0052	
Mercury	74546-11-03 00:43 G	28948733.41	28948733.53	28948733.67	0.0135	0.0073	
Mercury	74547-01-30 05:03 G	28948821.61	28948821.71	28948821.84	0.0135	0.0094	

Mercury	74547-04-28 09:36 G	28948909.83	28948909.90	28948909.99	0.0135	0.0114
Mercury	74547-07-25 14:10 G	28948998.08	28948998.09	28948998.12	0.0135	0.0134
Moon	74578-02-20 20:10 G	28960166.30	28960166.34	28960166.39	0.0144	0.0142
Earth	74578-02-20 20:53 G	28960166.36	28960166.37	28960166.41	0.0144	0.0143 *
Moon	74579-02-26 00:15 G	28960536.32	28960536.51	28960536.70	0.0144	0.0090
Earth	74579-02-26 00:15 G	28960536.32	28960536.51	28960536.71	0.0144	0.0095 *
Venus	74580-02-13 05:46 G	28960888.67	28960888.74	28960888.86	0.0144	0.0130
Earth	74580-03-02 03:36 G	28960906.41	28960906.65	28960906.90	0.0144	0.0045
Moon	74580-03-02 04:19 G	28960906.43	28960906.68	28960906.93	0.0144	0.0051 *
Venus	74580-09-26 18:15 G	28961115.11	28961115.26	28961115.45	0.0144	0.0089
Moon	74581-03-07 05:17 G	28961276.47	28961276.72	28961276.97	0.0144	0.0012
Earth	74581-03-07 07:12 G	28961276.54	28961276.80	28961277.05	0.0144	0.0005 *
Venus	74581-05-11 06:58 G	28961341.59	28961341.79	28961342.00	0.0144	0.0047
Venus	74581-12-23 19:27 G	28961568.09	28961568.31	28961568.53	0.0144	0.0006
Earth	74582-03-12 10:05 G	28961646.68	28961646.92	28961647.16	0.0144	0.0054
Moon	74582-03-12 12:00 G	28961646.76	28961647.00	28961647.26	0.0144	0.0049 *
Venus	74582-08-07 07:41 G	28961794.61	28961794.82	28961795.03	0.0144	0.0035
Moon	74583-03-17 10:05 G	28962016.76	28962016.92	28962017.11	0.0144	0.0103
Earth	74583-03-17 13:12 G	28962016.87	28962017.05	28962017.23	0.0144	0.0103 *
Venus	74583-03-21 19:41 G	28962021.14	28962021.32	28962021.51	0.0144	0.0076
Venus	74583-11-03 07:27 G	28962247.70	28962247.81	28962247.95	0.0144	0.0117
Mercury	74585-06-16 11:31 G	28962838.96	28962838.98	28962839.00	0.0143	0.0142
Mercury	74585-09-12 16:34 G	28962927.10	28962927.19	28962927.27	0.0143	0.0118
Mercury	74585-12-09 21:22 G	28963015.28	28963015.39	28963015.51	0.0143	0.0094
Mercury	74586-03-08 02:24 G	28963103.47	28963103.60	28963103.74	0.0143	0.0069
Mercury	74586-06-04 07:41 G	28963191.67	28963191.82	28963191.97	0.0143	0.0045
Mercury	74586-08-31 12:43 G	28963279.88	28963280.03	28963280.19	0.0143	0.0020
Mercury	74586-11-27 18:00 G	28963368.10	28963368.25	28963368.41	0.0143	0.0005
Mercury	74587-02-23 23:17 G	28963456.32	28963456.47	28963456.62	0.0143	0.0030
Mercury	74587-05-23 04:34 G	28963544.54	28963544.69	28963544.83	0.0143	0.0055

Mercury	74587-08-19 09:36 G	28963632.78	28963632.90	28963633.04	0.0143	0.0081
Mercury	74587-11-15 15:07 G	28963721.03	28963721.13	28963721.24	0.0143	0.0106
Mercury	74588-02-11 20:24 G	28963809.30	28963809.35	28963809.42	0.0143	0.0132
Mars	74602-03-12 02:24 G	28968950.35	28968950.60	28968950.86	0.0138	0.0060
Moon	74620-08-26 22:19 G	28975693.29	28975693.43	28975693.60	0.0134	0.0105
Earth	74620-08-27 02:24 G	28975693.44	28975693.60	28975693.76	0.0134	0.0101 *
Earth	74621-08-31 07:55 G	28976062.62	28976062.83	28976063.06	0.0134	0.0063
Moon	74621-08-31 11:17 G	28976062.76	28976062.97	28976063.21	0.0134	0.0058 *
Venus	74622-04-05 09:36 G	28976279.82	28976279.90	28976280.02	0.0134	0.0118
Moon	74622-09-04 10:19 G	28976431.69	28976431.93	28976432.18	0.0134	0.0032
Earth	74622-09-04 13:41 G	28976431.83	28976432.07	28976432.33	0.0134	0.0025 *
Venus	74622-11-17 14:53 G	28976505.97	28976506.12	28976506.30	0.0134	0.0086
Venus	74623-07-01 20:24 G	28976732.16	28976732.35	28976732.56	0.0134	0.0053
Earth	74623-09-08 19:12 G	28976801.06	28976801.30	28976801.56	0.0134	0.0014
Moon	74623-09-08 23:03 G	28976801.21	28976801.46	28976801.70	0.0134	0.0021 *
Venus	74624-02-13 01:41 G	28976958.36	28976958.57	28976958.79	0.0134	0.0021
Moon	74624-09-11 21:22 G	28977170.17	28977170.39	28977170.64	0.0134	0.0047
Earth	74624-09-12 00:58 G	28977170.31	28977170.54	28977170.78	0.0134	0.0053 *
Venus	74624-09-26 06:58 G	28977184.58	28977184.79	28977185.01	0.0134	0.0012
Venus	74625-05-10 12:00 G	28977410.81	28977411.00	28977411.22	0.0134	0.0046
Earth	74625-09-16 06:15 G	28977539.60	28977539.76	28977539.96	0.0134	0.0091
Moon	74625-09-16 10:19 G	28977539.75	28977539.93	28977540.10	0.0134	0.0095 *
Venus	74625-12-22 17:31 G	28977637.06	28977637.23	28977637.41	0.0134	0.0078
Venus	74626-08-05 22:48 G	28977863.34	28977863.45	28977863.58	0.0134	0.0111
Moon	74626-09-20 08:39 G	28977908.80	28977908.86	28977908.95	0.0134	0.0128
Earth	74626-09-20 12:00 G	28977908.96	28977909.00	28977909.09	0.0134	0.0130
Mercury	74628-06-25 09:22 G	28978552.87	28978552.89	28978552.91	0.0135	0.0133
Mercury	74628-09-21 14:10 G	28978641.00	28978641.09	28978641.18	0.0135	0.0111
Mercury	74628-12-18 18:43 G	28978729.17	28978729.28	28978729.41	0.0135	0.0090
Mercury	74629-03-16 23:46 G	28978817.35	28978817.49	28978817.63	0.0135	0.0068

Mercury	74629-06-13 04:19 G	28978905.54	28978905.68	28978905.84	0.0135	0.0047
Mercury	74629-09-09 09:07 G	28978993.73	28978993.88	28978994.04	0.0135	0.0025
Mercury	74629-12-06 13:55 G	28979081.92	28979082.08	28979082.23	0.0135	0.0005
Mercury	74630-03-04 18:29 G	28979170.11	28979170.27	28979170.43	0.0135	0.0017
Mercury	74630-05-31 23:03 G	28979258.31	28979258.46	28979258.61	0.0135	0.0038
Mercury	74630-08-28 03:22 G	28979346.51	28979346.64	28979346.79	0.0135	0.0059
Mercury	74630-11-24 08:10 G	28979434.71	28979434.84	28979434.96	0.0135	0.0079
Mercury	74631-02-20 12:29 G	28979522.92	28979523.02	28979523.13	0.0135	0.0100
Mercury	74631-05-19 17:03 G	28979611.15	28979611.21	28979611.28	0.0135	0.0120
Mars	74646-06-05 11:31 G	28985106.65	28985106.98	28985107.31	0.0140	0.0022
Moon	74662-02-22 05:03 G	28990847.66	28990847.71	28990847.80	0.0144	0.0139
Earth	74662-02-22 06:29 G	28990847.72	28990847.77	28990847.87	0.0144	0.0138 *
Earth	74663-02-27 10:05 G	28991217.73	28991217.92	28991218.13	0.0144	0.0088
Moon	74663-02-27 10:48 G	28991217.77	28991217.95	28991218.16	0.0144	0.0091 *
Earth	74664-03-03 13:41 G	28991587.83	28991588.07	28991588.32	0.0144	0.0039
Moon	74664-03-03 13:55 G	28991587.83	28991588.08	28991588.35	0.0144	0.0032 *
Venus	74664-05-28 00:29 G	28991673.39	28991673.52	28991673.68	0.0144	0.0108
Venus	74665-01-09 12:58 G	28991899.86	28991900.04	28991900.25	0.0144	0.0067
Moon	74665-03-08 16:19 G	28991957.94	28991958.18	28991958.43	0.0144	0.0004
Earth	74665-03-08 17:03 G	28991957.95	28991958.21	28991958.47	0.0144	0.0011 *
Venus	74665-08-24 01:41 G	28992126.35	28992126.57	28992126.79	0.0144	0.0025
Earth	74666-03-13 19:55 G	28992328.11	28992328.33	28992328.58	0.0144	0.0061
Moon	74666-03-13 22:05 G	28992328.19	28992328.42	28992328.67	0.0144	0.0065 *
Venus	74666-04-07 13:55 G	28992352.86	28992353.08	28992353.30	0.0144	0.0016
Venus	74666-11-20 01:55 G	28992579.39	28992579.58	28992579.79	0.0144	0.0057
Moon	74667-03-18 20:53 G	28992698.22	28992698.37	28992698.55	0.0144	0.0108
Earth	74667-03-18 23:03 G	28992698.31	28992698.46	28992698.64	0.0144	0.0110 *
Venus	74667-07-04 13:55 G	28992805.93	28992806.08	28992806.25	0.0144	0.0098
Venus	74668-02-16 01:55 G	28993032.54	28993032.58	28993032.65	0.0144	0.0139
Mercury	74669-07-07 18:29 G	28993540.23	28993540.27	28993540.33	0.0144	0.0135

Mercury	74669-10-03 23:31 G	28993628.40	28993628.48	28993628.59	0.0143	0.0111
Mercury	74669-12-31 04:48 G	28993716.58	28993716.70	28993716.82	0.0143	0.0086
Mercury	74670-03-29 09:51 G	28993804.77	28993804.91	28993805.05	0.0143	0.0061
Mercury	74670-06-25 14:53 G	28993892.98	28993893.12	28993893.27	0.0143	0.0037
Mercury	74670-09-21 20:10 G	28993981.18	28993981.34	28993981.50	0.0143	0.0012
Mercury	74670-12-19 01:27 G	28994069.40	28994069.56	28994069.71	0.0143	0.0013
Mercury	74671-03-17 06:29 G	28994157.62	28994157.77	28994157.93	0.0143	0.0039
Mercury	74671-06-13 11:46 G	28994245.85	28994245.99	28994246.14	0.0143	0.0064
Mercury	74671-09-09 17:03 G	28994334.09	28994334.21	28994334.34	0.0143	0.0089
Mercury	74671-12-06 22:19 G	28994422.35	28994422.43	28994422.53	0.0143	0.0115
Mercury	74672-03-04 03:51 G	28994510.64	28994510.66	28994510.69	0.0143	0.0140
Mars	74686-11-04 15:07 G	28999868.92	28999869.13	28999869.38	0.0138	0.0082
Earth	74703-08-25 08:10 G	29006005.84	29006005.84	29006005.87	0.0134	0.0134
Moon	74703-08-25 11:46 G	29006005.98	29006005.99	29006006.03	0.0134	0.0133
Moon	74704-08-28 10:48 G	29006374.77	29006374.95	29006375.13	0.0134	0.0093
Earth	74704-08-28 13:55 G	29006374.92	29006375.08	29006375.27	0.0134	0.0096 *
Earth	74705-09-01 19:55 G	29006744.10	29006744.33	29006744.55	0.0134	0.0057
Moon	74705-09-01 23:17 G	29006744.26	29006744.47	29006744.70	0.0134	0.0064 *
Venus	74705-12-04 20:24 G	29006838.34	29006838.35	29006838.41	0.0134	0.0132
Venus	74706-07-19 02:10 G	29007064.45	29007064.59	29007064.73	0.0134	0.0099
Moon	74706-09-05 21:51 G	29007113.16	29007113.41	29007113.66	0.0134	0.0012
Earth	74706-09-06 01:27 G	29007113.31	29007113.56	29007113.81	0.0134	0.0019 *
Venus	74707-03-02 07:12 G	29007290.62	29007290.80	29007290.99	0.0134	0.0067
Earth	74707-09-10 06:43 G	29007482.54	29007482.78	29007483.03	0.0134	0.0020
Moon	74707-09-10 10:19 G	29007482.68	29007482.93	29007483.18	0.0134	0.0013 *
Venus	74707-10-14 12:15 G	29007516.81	29007517.01	29007517.22	0.0134	0.0035
Venus	74708-05-27 17:31 G	29007743.02	29007743.23	29007743.45	0.0134	0.0003
Moon	74708-09-13 08:24 G	29007851.64	29007851.85	29007852.08	0.0134	0.0065
Earth	74708-09-13 12:15 G	29007851.79	29007852.01	29007852.24	0.0134	0.0058 *
Venus	74709-01-08 22:34 G	29007969.24	29007969.44	29007969.66	0.0134	0.0032

Venus	74709-08-23 04:05 G	29008195.48	29008195.67	29008195.86	0.0134	0.0063
Earth	74709-09-17 17:46 G	29008221.07	29008221.24	29008221.41	0.0134	0.0097
Moon	74709-09-17 20:39 G	29008221.20	29008221.36	29008221.56	0.0134	0.0093 *
Venus	74710-04-06 09:07 G	29008421.74	29008421.88	29008422.04	0.0134	0.0096
Venus	74710-11-18 14:39 G	29008648.05	29008648.11	29008648.17	0.0134	0.0129
Mercury	74712-07-16 16:19 G	29009254.14	29009254.18	29009254.24	0.0135	0.0126
Mercury	74712-10-12 21:22 G	29009342.29	29009342.39	29009342.49	0.0135	0.0104
Mercury	74713-01-09 01:55 G	29009430.47	29009430.58	29009430.72	0.0135	0.0083
Mercury	74713-04-07 06:58 G	29009518.65	29009518.79	29009518.93	0.0135	0.0061
Mercury	74713-07-04 11:31 G	29009606.84	29009606.98	29009607.14	0.0135	0.0040
Mercury	74713-09-30 16:19 G	29009695.03	29009695.18	29009695.34	0.0135	0.0018
Mercury	74713-12-27 21:07 G	29009783.22	29009783.38	29009783.53	0.0135	0.0004
Mercury	74714-03-26 01:41 G	29009871.41	29009871.57	29009871.72	0.0135	0.0024
Mercury	74714-06-22 06:15 G	29009959.61	29009959.76	29009959.91	0.0135	0.0045
Mercury	74714-09-18 10:48 G	29010047.81	29010047.95	29010048.09	0.0135	0.0066
Mercury	74714-12-15 15:07 G	29010136.02	29010136.13	29010136.26	0.0135	0.0087
Mercury	74715-03-13 19:27 G	29010224.23	29010224.31	29010224.42	0.0135	0.0108
Mercury	74715-06-10 00:00 G	29010312.46	29010312.50	29010312.56	0.0135	0.0128
Moon	74746-02-23 13:55 G	29021528.97	29021529.08	29021529.21	0.0144	0.0128
Earth	74746-02-23 15:51 G	29021529.08	29021529.16	29021529.28	0.0144	0.0132 *
Earth	74747-02-28 19:12 G	29021899.11	29021899.30	29021899.53	0.0144	0.0083
Moon	74747-02-28 20:24 G	29021899.16	29021899.35	29021899.57	0.0144	0.0081 *
Venus	74748-01-27 06:15 G	29022231.67	29022231.76	29022231.87	0.0144	0.0127
Moon	74748-03-04 22:05 G	29022269.17	29022269.42	29022269.68	0.0144	0.0038
Earth	74748-03-04 22:48 G	29022269.21	29022269.45	29022269.71	0.0144	0.0033 *
Venus	74748-09-09 18:43 G	29022458.11	29022458.28	29022458.46	0.0144	0.0086
Moon	74749-03-10 01:55 G	29022639.33	29022639.58	29022639.82	0.0144	0.0024
Earth	74749-03-10 02:24 G	29022639.35	29022639.60	29022639.86	0.0144	0.0017 *
Venus	74749-04-24 07:12 G	29022684.60	29022684.80	29022685.01	0.0144	0.0045
Venus	74749-12-06 19:41 G	29022911.10	29022911.32	29022911.54	0.0144	0.0004

Earth	74750-03-15 05:17 G	29023009.51	29023009.72	29023009.96	0.0144	0.0067
Moon	74750-03-15 06:15 G	29023009.53	29023009.76	29023010.01	0.0144	0.0060 *
Venus	74750-07-21 07:55 G	29023137.62	29023137.83	29023138.05	0.0144	0.0038
Venus	74751-03-04 19:55 G	29023364.16	29023364.33	29023364.52	0.0144	0.0079
Moon	74751-03-20 06:43 G	29023379.65	29023379.78	29023379.93	0.0144	0.0117
Earth	74751-03-20 08:24 G	29023379.72	29023379.85	29023380.02	0.0144	0.0116 *
Venus	74751-10-17 07:55 G	29023590.72	29023590.83	29023590.96	0.0144	0.0120
Mercury	74753-07-29 01:41 G	29024241.52	29024241.57	29024241.65	0.0144	0.0128
Mercury	74753-10-25 06:58 G	29024329.69	29024329.79	29024329.90	0.0144	0.0103
Mercury	74754-01-21 12:00 G	29024417.87	29024418.00	29024418.13	0.0143	0.0079
Mercury	74754-04-19 17:03 G	29024506.07	29024506.21	29024506.36	0.0143	0.0054
Mercury	74754-07-16 22:19 G	29024594.28	29024594.43	29024594.58	0.0143	0.0029
Mercury	74754-10-13 03:22 G	29024682.49	29024682.64	29024682.80	0.0143	0.0005
Mercury	74755-01-09 08:39 G	29024770.70	29024770.86	29024771.01	0.0143	0.0021
Mercury	74755-04-07 13:41 G	29024858.93	29024859.07	29024859.23	0.0143	0.0046
Mercury	74755-07-04 19:12 G	29024947.16	29024947.30	29024947.43	0.0143	0.0071
Mercury	74755-10-01 00:15 G	29025035.41	29025035.51	29025035.64	0.0143	0.0097
Mercury	74755-12-28 05:46 G	29025123.66	29025123.74	29025123.82	0.0143	0.0122
Earth	74787-08-25 21:07 G	29036687.31	29036687.38	29036687.46	0.0134	0.0127
Moon	74787-08-26 00:29 G	29036687.45	29036687.52	29036687.60	0.0134	0.0127 *
Moon	74788-08-28 23:03 G	29037056.29	29037056.46	29037056.65	0.0134	0.0092
Earth	74788-08-29 02:53 G	29037056.44	29037056.62	29037056.81	0.0134	0.0089 *
Earth	74789-09-02 08:10 G	29037425.62	29037425.84	29037426.08	0.0134	0.0051
Moon	74789-09-02 11:46 G	29037425.76	29037425.99	29037426.23	0.0134	0.0046 *
Venus	74790-03-18 13:12 G	29037622.95	29037623.05	29037623.18	0.0134	0.0113
Moon	74790-09-06 10:19 G	29037794.69	29037794.93	29037795.18	0.0134	0.0020
Earth	74790-09-06 13:55 G	29037794.83	29037795.08	29037795.33	0.0134	0.0012 *
Venus	74790-10-30 18:43 G	29037849.11	29037849.28	29037849.45	0.0134	0.0080
Venus	74791-06-13 23:46 G	29038075.29	29038075.49	29038075.70	0.0134	0.0048
Earth	74791-09-10 19:12 G	29038164.05	29038164.30	29038164.55	0.0134	0.0026

Moon	74791-09-10 22:34 G	29038164.20	29038164.44	29038164.69	0.0134	0.0034 *
Venus	74792-01-26 05:03 G	29038301.49	29038301.71	29038301.92	0.0134	0.0016
Venus	74792-09-08 10:05 G	29038527.71	29038527.92	29038528.14	0.0134	0.0017
Moon	74792-09-13 21:07 G	29038533.16	29038533.38	29038533.61	0.0134	0.0059
Earth	74792-09-14 00:15 G	29038533.31	29038533.51	29038533.75	0.0134	0.0066 *
Venus	74793-04-22 15:07 G	29038753.94	29038754.13	29038754.34	0.0134	0.0050
Earth	74793-09-18 05:31 G	29038902.60	29038902.73	29038902.92	0.0134	0.0104
Moon	74793-09-18 09:36 G	29038902.76	29038902.90	29038903.06	0.0134	0.0108 *
Venus	74793-12-04 20:24 G	29038980.19	29038980.35	29038980.53	0.0134	0.0082
Venus	74794-07-19 01:27 G	29039206.47	29039206.56	29039206.69	0.0134	0.0116
Mercury	74796-08-05 23:46 G	29039955.43	29039955.49	29039955.58	0.0135	0.0118
Mercury	74796-11-02 04:48 G	29040043.59	29040043.70	29040043.82	0.0135	0.0096
Mercury	74797-01-29 09:36 G	29040131.77	29040131.90	29040132.04	0.0135	0.0074
Mercury	74797-04-27 14:24 G	29040219.96	29040220.10	29040220.25	0.0135	0.0053
Mercury	74797-07-24 19:12 G	29040308.15	29040308.30	29040308.46	0.0135	0.0031
Mercury	74797-10-21 00:00 G	29040396.34	29040396.50	29040396.66	0.0135	0.0010
Mercury	74798-01-17 04:34 G	29040484.53	29040484.69	29040484.85	0.0135	0.0011
Mercury	74798-04-15 09:07 G	29040572.73	29040572.88	29040573.04	0.0135	0.0033
Mercury	74798-07-12 13:55 G	29040660.93	29040661.08	29040661.22	0.0135	0.0053
Mercury	74798-10-08 18:15 G	29040749.14	29040749.26	29040749.40	0.0135	0.0074
Mercury	74799-01-04 22:48 G	29040837.35	29040837.45	29040837.57	0.0135	0.0095
Mercury	74799-04-03 03:22 G	29040925.56	29040925.64	29040925.72	0.0135	0.0115
Mars	74813-10-21 18:29 G	29046241.04	29046241.27	29046241.54	0.0140	0.0092
Moon	74830-02-24 00:00 G	29052210.40	29052210.50	29052210.64	0.0144	0.0129
Earth	74830-02-24 02:53 G	29052210.50	29052210.62	29052210.75	0.0144	0.0126 *
Earth	74831-03-01 06:15 G	29052580.55	29052580.76	29052580.99	0.0144	0.0076
Moon	74831-03-01 08:10 G	29052580.64	29052580.84	29052581.06	0.0144	0.0078 *
Moon	74832-03-05 08:53 G	29052950.61	29052950.87	29052951.13	0.0144	0.0020
Earth	74832-03-05 09:51 G	29052950.66	29052950.91	29052951.16	0.0144	0.0027 *
Venus	74832-05-10 00:58 G	29053016.41	29053016.54	29053016.71	0.0144	0.0105

Venus	74832-12-22 13:55 G	29053242.88	29053243.08	29053243.28	0.0144	0.0064
Earth	74833-03-10 12:58 G	29053320.79	29053321.04	29053321.30	0.0144	0.0023
Moon	74833-03-10 13:41 G	29053320.82	29053321.07	29053321.32	0.0144	0.0016 *
Venus	74833-08-06 02:10 G	29053469.38	29053469.59	29053469.81	0.0144	0.0023
Earth	74834-03-15 15:51 G	29053690.96	29053691.16	29053691.40	0.0144	0.0074
Moon	74834-03-15 17:03 G	29053690.99	29053691.21	29053691.43	0.0144	0.0078 *
Venus	74834-03-20 14:24 G	29053695.89	29053696.10	29053696.32	0.0144	0.0019
Venus	74834-11-02 02:39 G	29053922.41	29053922.61	29053922.81	0.0144	0.0060
Moon	74835-03-20 18:00 G	29054061.13	29054061.25	29054061.41	0.0144	0.0119
Earth	74835-03-20 18:58 G	29054061.17	29054061.29	29054061.44	0.0144	0.0122 *
Venus	74835-06-16 14:39 G	29054148.96	29054149.11	29054149.27	0.0144	0.0101
Venus	74836-01-29 02:39 G	29054375.59	29054375.61	29054375.66	0.0144	0.0142
Mercury	74837-05-22 04:19 G	29054854.68	29054854.68	29054854.69	0.0144	0.0143
Mercury	74837-08-18 09:07 G	29054942.81	29054942.88	29054942.98	0.0144	0.0120
Mercury	74837-11-14 14:24 G	29055030.99	29055031.10	29055031.21	0.0144	0.0095
Mercury	74838-02-10 19:27 G	29055119.18	29055119.31	29055119.44	0.0143	0.0070
Mercury	74838-05-10 00:29 G	29055207.38	29055207.52	29055207.67	0.0143	0.0046
Mercury	74838-08-06 05:46 G	29055295.58	29055295.74	29055295.89	0.0143	0.0021
Mercury	74838-11-02 10:48 G	29055383.80	29055383.95	29055384.11	0.0143	0.0004
Mercury	74839-01-29 16:05 G	29055472.02	29055472.17	29055472.32	0.0143	0.0029
Mercury	74839-04-27 21:22 G	29055560.24	29055560.39	29055560.53	0.0143	0.0054
Mercury	74839-07-25 02:24 G	29055648.48	29055648.60	29055648.74	0.0143	0.0080
Mercury	74839-10-21 07:55 G	29055736.73	29055736.83	29055736.94	0.0143	0.0105
Mercury	74840-01-17 13:12 G	29055824.99	29055825.05	29055825.12	0.0143	0.0131
Mars	74854-03-25 20:53 G	29061006.09	29061006.37	29061006.66	0.0138	0.0002
Earth	74871-08-26 09:07 G	29067368.80	29067368.88	29067369.00	0.0134	0.0122
Moon	74871-08-26 12:43 G	29067368.93	29067369.03	29067369.15	0.0134	0.0120 *
Moon	74872-08-29 11:46 G	29067737.81	29067737.99	29067738.20	0.0134	0.0082
Earth	74872-08-29 14:53 G	29067737.95	29067738.12	29067738.34	0.0134	0.0084 *
Earth	74873-09-02 20:39 G	29068107.13	29068107.36	29068107.60	0.0134	0.0045

Moon	74873-09-03 00:00 G	29068107.28	29068107.50	29068107.75	0.0134	0.0051	*
Venus	74873-11-16 00:29 G	29068181.46	29068181.52	29068181.61	0.0134	0.0126	
Venus	74874-06-30 05:46 G	29068407.60	29068407.74	29068407.90	0.0134	0.0094	
Moon	74874-09-06 22:48 G	29068476.21	29068476.45	29068476.70	0.0134	0.0002	
Earth	74874-09-07 02:10 G	29068476.34	29068476.59	29068476.84	0.0134	0.0007	*
Venus	74875-02-11 11:03 G	29068633.77	29068633.96	29068634.15	0.0134	0.0061	
Earth	74875-09-11 07:12 G	29068845.56	29068845.80	29068846.05	0.0134	0.0032	
Moon	74875-09-11 10:34 G	29068845.70	29068845.94	29068846.20	0.0134	0.0025	*
Venus	74875-09-25 16:05 G	29068859.96	29068860.17	29068860.38	0.0134	0.0029	
Venus	74876-05-08 21:07 G	29069086.17	29069086.38	29069086.60	0.0134	0.0004	
Moon	74876-09-14 08:53 G	29069214.69	29069214.87	29069215.09	0.0134	0.0078	
Earth	74876-09-14 12:43 G	29069214.82	29069215.03	29069215.25	0.0134	0.0070	*
Venus	74876-12-21 02:10 G	29069312.39	29069312.59	29069312.81	0.0134	0.0037	
Venus	74877-08-04 07:12 G	29069538.63	29069538.80	29069539.00	0.0134	0.0070	
Earth	74877-09-18 18:00 G	29069584.11	29069584.25	29069584.40	0.0134	0.0109	
Moon	74877-09-18 20:53 G	29069584.24	29069584.37	29069584.55	0.0134	0.0105	*
Venus	74878-03-18 12:43 G	29069764.90	29069765.03	29069765.18	0.0134	0.0101	
Venus	74878-10-30 17:46 G	29069991.24	29069991.24	29069991.27	0.0134	0.0134	
Mercury	74880-05-30 02:39 G	29070568.58	29070568.61	29070568.65	0.0135	0.0131	
Mercury	74880-08-26 07:27 G	29070656.72	29070656.81	29070656.91	0.0135	0.0109	
Mercury	74880-11-22 12:15 G	29070744.90	29070745.01	29070745.14	0.0135	0.0087	
Mercury	74881-02-18 17:03 G	29070833.08	29070833.21	29070833.36	0.0135	0.0066	
Mercury	74881-05-17 21:51 G	29070921.27	29070921.41	29070921.57	0.0135	0.0044	
Mercury	74881-08-14 02:39 G	29071009.46	29071009.61	29071009.77	0.0135	0.0023	
Mercury	74881-11-10 07:27 G	29071097.65	29071097.81	29071097.97	0.0135	0.0002	
Mercury	74882-02-06 12:00 G	29071185.85	29071186.00	29071186.16	0.0135	0.0020	
Mercury	74882-05-05 16:34 G	29071274.05	29071274.19	29071274.35	0.0135	0.0041	
Mercury	74882-08-01 21:22 G	29071362.25	29071362.39	29071362.53	0.0135	0.0061	
Mercury	74882-10-29 01:41 G	29071450.45	29071450.57	29071450.70	0.0135	0.0082	
Mercury	74883-01-25 06:15 G	29071538.67	29071538.76	29071538.87	0.0135	0.0103	

Mercury	74883-04-23 10:48 G	29071626.89	29071626.95	29071627.02	0.0135	0.0123
Mars	74898-06-17 23:46 G	29077161.23	29077161.49	29077161.76	0.0140	0.0086
Moon	74914-02-25 10:34 G	29082891.80	29082891.94	29082892.11	0.0144	0.0116
Earth	74914-02-25 13:27 G	29082891.94	29082892.06	29082892.23	0.0144	0.0121 *
Earth	74915-03-02 17:17 G	29083262.00	29083262.22	29083262.45	0.0144	0.0070
Moon	74915-03-02 19:12 G	29083262.10	29083262.30	29083262.54	0.0144	0.0070 *
Venus	74916-01-09 07:41 G	29083574.73	29083574.82	29083574.95	0.0144	0.0124
Moon	74916-03-06 18:15 G	29083632.01	29083632.26	29083632.53	0.0144	0.0026
Earth	74916-03-06 20:39 G	29083632.10	29083632.36	29083632.61	0.0144	0.0021 *
Venus	74916-08-22 20:10 G	29083801.18	29083801.34	29083801.54	0.0144	0.0082
Earth	74917-03-11 23:46 G	29084002.25	29084002.49	29084002.75	0.0144	0.0029
Moon	74917-03-12 00:29 G	29084002.29	29084002.52	29084002.77	0.0144	0.0037 *
Venus	74917-04-06 08:53 G	29084027.66	29084027.87	29084028.08	0.0144	0.0041
Venus	74917-11-18 21:07 G	29084254.16	29084254.38	29084254.60	0.0144	0.0003
Moon	74918-03-17 02:39 G	29084372.38	29084372.61	29084372.85	0.0144	0.0072
Earth	74918-03-17 02:53 G	29084372.42	29084372.62	29084372.85	0.0144	0.0079 *
Venus	74918-07-03 09:22 G	29084480.69	29084480.89	29084481.11	0.0144	0.0042
Venus	74919-02-14 21:36 G	29084707.23	29084707.40	29084707.58	0.0144	0.0083
Moon	74919-03-22 05:03 G	29084742.63	29084742.71	29084742.84	0.0144	0.0131
Earth	74919-03-22 05:46 G	29084742.65	29084742.74	29084742.88	0.0144	0.0128 *
Venus	74919-09-29 09:36 G	29084933.80	29084933.90	29084934.02	0.0144	0.0124
Mercury	74921-06-12 11:46 G	29085555.95	29085555.99	29085556.05	0.0144	0.0135
Mercury	74921-09-08 16:48 G	29085644.11	29085644.20	29085644.30	0.0144	0.0111
Mercury	74921-12-05 21:51 G	29085732.29	29085732.41	29085732.54	0.0144	0.0086
Mercury	74922-03-04 03:07 G	29085820.49	29085820.63	29085820.77	0.0143	0.0062
Mercury	74922-05-31 08:10 G	29085908.69	29085908.84	29085908.99	0.0143	0.0037
Mercury	74922-08-27 13:12 G	29085996.90	29085997.05	29085997.21	0.0143	0.0013
Mercury	74922-11-23 18:29 G	29086085.11	29086085.27	29086085.42	0.0143	0.0013
Mercury	74923-02-19 23:31 G	29086173.34	29086173.48	29086173.64	0.0143	0.0039
Mercury	74923-05-19 05:03 G	29086261.57	29086261.71	29086261.85	0.0143	0.0064

Mercury	74923-08-15 10:05 G	29086349.81	29086349.92	29086350.05	0.0143	0.0089
Mercury	74923-11-11 15:22 G	29086438.06	29086438.14	29086438.24	0.0143	0.0115
Mercury	74924-02-07 20:53 G	29086526.35	29086526.37	29086526.40	0.0143	0.0140
Earth	74955-08-27 22:19 G	29098050.33	29098050.43	29098050.58	0.0134	0.0116
Moon	74955-08-28 01:41 G	29098050.46	29098050.57	29098050.71	0.0134	0.0116 *
Moon	74956-08-31 00:58 G	29098419.35	29098419.54	29098419.75	0.0134	0.0079
Earth	74956-08-31 04:19 G	29098419.48	29098419.68	29098419.89	0.0134	0.0077 *
Earth	74957-09-04 09:36 G	29098788.66	29098788.90	29098789.14	0.0134	0.0039
Moon	74957-09-04 12:29 G	29098788.78	29098789.02	29098789.28	0.0134	0.0035 *
Venus	74958-02-28 17:17 G	29098966.11	29098966.22	29098966.37	0.0134	0.0107
Moon	74958-09-08 11:46 G	29099157.74	29099157.99	29099158.24	0.0134	0.0007
Earth	74958-09-08 15:07 G	29099157.88	29099158.13	29099158.38	0.0134	0.0001 *
Venus	74958-10-12 22:34 G	29099192.27	29099192.44	29099192.62	0.0134	0.0074
Venus	74959-05-27 03:36 G	29099418.45	29099418.65	29099418.86	0.0134	0.0042
Earth	74959-09-12 20:10 G	29099527.10	29099527.34	29099527.58	0.0134	0.0038
Moon	74959-09-12 23:03 G	29099527.24	29099527.46	29099527.71	0.0134	0.0046 *
Venus	74960-01-08 08:53 G	29099644.65	29099644.87	29099645.09	0.0134	0.0009
Venus	74960-08-21 13:55 G	29099870.87	29099871.08	29099871.30	0.0134	0.0023
Moon	74960-09-15 22:05 G	29099896.23	29099896.42	29099896.65	0.0134	0.0071
Earth	74960-09-16 01:41 G	29099896.36	29099896.57	29099896.77	0.0134	0.0077 *
Venus	74961-04-04 18:43 G	29100097.10	29100097.28	29100097.49	0.0134	0.0057
Earth	74961-09-20 06:43 G	29100265.66	29100265.78	29100265.92	0.0134	0.0115
Moon	74961-09-20 09:51 G	29100265.82	29100265.91	29100266.05	0.0134	0.0121 *
Venus	74961-11-17 00:00 G	29100323.35	29100323.50	29100323.68	0.0134	0.0089
Venus	74962-07-01 05:46 G	29100549.65	29100549.74	29100549.83	0.0134	0.0121
Mercury	74964-06-20 10:19 G	29101269.87	29101269.93	29101270.00	0.0135	0.0122
Mercury	74964-09-16 15:07 G	29101358.03	29101358.13	29101358.24	0.0135	0.0100
Mercury	74964-12-13 20:10 G	29101446.21	29101446.34	29101446.47	0.0135	0.0078
Mercury	74965-03-12 00:43 G	29101534.39	29101534.53	29101534.68	0.0135	0.0057
Mercury	74965-06-08 05:46 G	29101622.58	29101622.74	29101622.89	0.0135	0.0035

Mercury	74965-09-04 10:19 G	29101710.78	29101710.93	29101711.09	0.0135	0.0014
Mercury	74965-12-01 15:07 G	29101798.97	29101799.13	29101799.29	0.0135	0.0007
Mercury	74966-02-27 19:41 G	29101887.17	29101887.32	29101887.48	0.0135	0.0029
Mercury	74966-05-27 00:15 G	29101975.37	29101975.51	29101975.66	0.0135	0.0050
Mercury	74966-08-23 05:03 G	29102063.58	29102063.71	29102063.84	0.0135	0.0070
Mercury	74966-11-19 09:22 G	29102151.79	29102151.89	29102152.01	0.0135	0.0091
Mercury	74967-02-15 13:55 G	29102240.00	29102240.08	29102240.17	0.0135	0.0112
Mercury	74967-05-14 18:29 G	29102328.25	29102328.27	29102328.30	0.0135	0.0132
Moon	74998-02-25 23:31 G	29113573.35	29113573.48	29113573.65	0.0144	0.0118
Earth	74998-02-26 02:53 G	29113573.48	29113573.62	29113573.80	0.0144	0.0113 *
Earth	74999-03-03 06:15 G	29113943.54	29113943.76	29113944.00	0.0144	0.0063
Moon	74999-03-03 09:07 G	29113943.66	29113943.88	29113944.11	0.0144	0.0063 *
Venus	74999-09-08 15:36 G	29114133.11	29114133.15	29114133.21	0.0144	0.0140
Moon	75000-03-08 07:41 G	29114313.56	29114313.82	29114314.09	0.0144	0.0008
Earth	75000-03-08 09:36 G	29114313.65	29114313.90	29114314.16	0.0144	0.0014 *
Venus	75000-04-23 04:05 G	29114359.52	29114359.67	29114359.84	0.0144	0.0099
Venus	75000-12-05 16:48 G	29114586.00	29114586.20	29114586.40	0.0144	0.0058

76TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 76th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	75001-03-13 12:43 G	29114683.79	29114684.03	29114684.29	0.0144	0.0037		
Moon	75001-03-13 14:39 G	29114683.87	29114684.11	29114684.36	0.0144	0.0029 *		

Venus	75001-07-20 05:17 G	29114812.50	29114812.72	29114812.93	0.0144	0.0016
Venus	75002-03-03 17:17 G	29115039.01	29115039.22	29115039.44	0.0144	0.0026
Moon	75002-03-18 15:22 G	29115053.95	29115054.14	29115054.36	0.0144	0.0092
Earth	75002-03-18 15:51 G	29115053.97	29115054.16	29115054.38	0.0144	0.0086 *
Venus	75002-10-16 05:31 G	29115265.54	29115265.73	29115265.93	0.0144	0.0066
Moon	75003-03-23 18:58 G	29115424.21	29115424.29	29115424.42	0.0144	0.0131
Earth	75003-03-23 18:43 G	29115424.22	29115424.28	29115424.40	0.0144	0.0135 *
Venus	75003-05-30 17:46 G	29115492.10	29115492.24	29115492.39	0.0144	0.0107
Mercury	75005-07-03 19:41 G	29116257.25	29116257.32	29116257.40	0.0144	0.0125
Mercury	75005-09-30 00:43 G	29116345.43	29116345.53	29116345.64	0.0144	0.0101
Mercury	75005-12-27 05:46 G	29116433.62	29116433.74	29116433.87	0.0144	0.0076
Mercury	75006-03-25 10:48 G	29116521.81	29116521.95	29116522.10	0.0143	0.0052
Mercury	75006-06-21 16:05 G	29116610.02	29116610.17	29116610.32	0.0143	0.0027
Mercury	75006-09-17 21:07 G	29116698.23	29116698.38	29116698.54	0.0143	0.0004
Mercury	75006-12-15 02:24 G	29116786.45	29116786.60	29116786.75	0.0143	0.0023
Mercury	75007-03-13 07:41 G	29116874.67	29116874.82	29116874.97	0.0143	0.0049
Mercury	75007-06-09 12:43 G	29116962.90	29116963.03	29116963.17	0.0143	0.0074
Mercury	75007-09-05 18:15 G	29117051.15	29117051.26	29117051.37	0.0143	0.0100
Mercury	75007-12-02 23:31 G	29117139.41	29117139.48	29117139.56	0.0143	0.0125
Mars	75021-08-15 05:03 G	29122143.48	29122143.71	29122143.95	0.0138	0.0077
Earth	75039-08-29 11:46 G	29128731.85	29128731.99	29128732.14	0.0134	0.0110
Moon	75039-08-29 14:24 G	29128731.96	29128732.10	29128732.27	0.0134	0.0107 *
Moon	75040-09-01 14:39 G	29129100.91	29129101.11	29129101.32	0.0134	0.0070
Earth	75040-09-01 17:17 G	29129101.01	29129101.22	29129101.44	0.0134	0.0071 *
Earth	75041-09-05 22:19 G	29129470.20	29129470.43	29129470.68	0.0134	0.0033
Moon	75041-09-06 01:27 G	29129470.33	29129470.56	29129470.82	0.0134	0.0038 *
Venus	75041-10-30 05:03 G	29129524.63	29129524.71	29129524.82	0.0134	0.0119
Venus	75042-06-13 10:19 G	29129750.77	29129750.93	29129751.10	0.0134	0.0087
Moon	75042-09-10 01:12 G	29129839.30	29129839.55	29129839.79	0.0134	0.0011
Earth	75042-09-10 03:36 G	29129839.40	29129839.65	29129839.91	0.0134	0.0006 *

Venus	75043-01-25 15:07 G	29129976.95	29129977.13	29129977.34	0.0134	0.0055
Venus	75043-09-08 20:24 G	29130203.14	29130203.35	29130203.56	0.0134	0.0022
Earth	75043-09-14 08:39 G	29130208.63	29130208.86	29130209.11	0.0134	0.0044
Moon	75043-09-14 11:46 G	29130208.75	29130208.99	29130209.24	0.0134	0.0037 *
Venus	75044-04-22 01:27 G	29130429.34	29130429.56	29130429.77	0.0134	0.0010
Moon	75044-09-17 10:48 G	29130577.79	29130577.95	29130578.15	0.0134	0.0091
Earth	75044-09-17 13:55 G	29130577.90	29130578.08	29130578.29	0.0134	0.0082 *
Venus	75044-12-04 06:29 G	29130655.57	29130655.77	29130655.98	0.0134	0.0043
Venus	75045-07-18 11:31 G	29130881.81	29130881.98	29130882.17	0.0134	0.0076
Earth	75045-09-21 19:12 G	29130947.20	29130947.30	29130947.42	0.0134	0.0120
Moon	75045-09-21 21:51 G	29130947.30	29130947.41	29130947.56	0.0134	0.0116 *
Venus	75046-03-01 17:03 G	29131108.08	29131108.21	29131108.34	0.0134	0.0108
Mercury	75048-07-11 18:00 G	29131971.17	29131971.25	29131971.34	0.0135	0.0113
Mercury	75048-10-07 22:34 G	29132059.34	29132059.44	29132059.57	0.0135	0.0092
Mercury	75049-01-04 03:36 G	29132147.52	29132147.65	29132147.79	0.0135	0.0070
Mercury	75049-04-02 08:24 G	29132235.71	29132235.85	29132236.00	0.0135	0.0048
Mercury	75049-06-29 13:12 G	29132323.90	29132324.05	29132324.21	0.0135	0.0027
Mercury	75049-09-25 18:00 G	29132412.09	29132412.25	29132412.41	0.0135	0.0005
Mercury	75049-12-22 22:48 G	29132500.29	29132500.45	29132500.60	0.0135	0.0016
Mercury	75050-03-21 03:22 G	29132588.49	29132588.64	29132588.79	0.0135	0.0037
Mercury	75050-06-17 07:55 G	29132676.69	29132676.83	29132676.97	0.0135	0.0058
Mercury	75050-09-13 12:15 G	29132764.90	29132765.01	29132765.15	0.0135	0.0079
Mercury	75050-12-10 17:03 G	29132853.11	29132853.21	29132853.32	0.0135	0.0099
Mercury	75051-03-08 21:22 G	29132941.33	29132941.39	29132941.47	0.0135	0.0120
Mars	75065-11-04 15:07 G	29138295.80	29138296.13	29138296.47	0.0140	0.0020
Moon	75082-02-27 11:03 G	29144254.79	29144254.96	29144255.16	0.0144	0.0102
Earth	75082-02-27 14:39 G	29144254.95	29144255.11	29144255.29	0.0144	0.0107 *
Earth	75083-03-04 17:46 G	29144625.02	29144625.24	29144625.49	0.0144	0.0058
Moon	75083-03-04 21:07 G	29144625.15	29144625.38	29144625.62	0.0144	0.0057 *
Venus	75083-12-22 11:31 G	29144917.85	29144917.98	29144918.11	0.0144	0.0117

Moon	75084-03-08 18:29 G	29144995.01	29144995.27	29144995.53	0.0144	0.0011
Earth	75084-03-08 21:22 G	29144995.14	29144995.39	29144995.65	0.0144	0.0007 *
Venus	75084-08-04 23:46 G	29145144.31	29145144.49	29145144.69	0.0144	0.0076
Earth	75085-03-14 00:43 G	29145365.29	29145365.53	29145365.78	0.0144	0.0042
Moon	75085-03-14 02:24 G	29145365.37	29145365.60	29145365.84	0.0144	0.0050 *
Venus	75085-03-19 12:15 G	29145370.80	29145371.01	29145371.23	0.0144	0.0034
Venus	75085-11-01 00:43 G	29145597.31	29145597.53	29145597.75	0.0144	0.0007
Moon	75086-03-19 02:10 G	29145735.39	29145735.59	29145735.82	0.0144	0.0085
Earth	75086-03-19 03:51 G	29145735.48	29145735.66	29145735.87	0.0144	0.0093 *
Venus	75086-06-15 12:43 G	29145823.84	29145824.03	29145824.25	0.0144	0.0050
Venus	75087-01-28 01:12 G	29146050.39	29146050.55	29146050.73	0.0144	0.0090
Earth	75087-03-24 06:58 G	29146105.76	29146105.79	29146105.86	0.0144	0.0141
Venus	75087-09-11 13:12 G	29146276.98	29146277.05	29146277.16	0.0144	0.0131
Mercury	75089-04-26 22:19 G	29146870.41	29146870.43	29146870.48	0.0144	0.0140
Mercury	75089-07-24 03:22 G	29146958.56	29146958.64	29146958.74	0.0144	0.0116
Mercury	75089-10-20 08:39 G	29147046.74	29147046.86	29147046.98	0.0144	0.0091
Mercury	75090-01-16 13:41 G	29147134.94	29147135.07	29147135.21	0.0144	0.0066
Mercury	75090-04-14 18:43 G	29147223.14	29147223.28	29147223.43	0.0144	0.0042
Mercury	75090-07-11 23:46 G	29147311.34	29147311.49	29147311.65	0.0143	0.0018
Mercury	75090-10-08 05:03 G	29147399.56	29147399.71	29147399.87	0.0143	0.0008
Mercury	75091-01-04 10:19 G	29147487.78	29147487.93	29147488.08	0.0143	0.0033
Mercury	75091-04-02 15:36 G	29147576.00	29147576.15	29147576.29	0.0143	0.0059
Mercury	75091-06-29 20:39 G	29147664.24	29147664.36	29147664.49	0.0143	0.0084
Mercury	75091-09-26 01:55 G	29147752.49	29147752.58	29147752.69	0.0143	0.0110
Mercury	75091-12-23 07:27 G	29147840.77	29147840.81	29147840.86	0.0143	0.0136
Mars	75106-04-10 23:46 G	29153062.25	29153062.49	29153062.74	0.0138	0.0067
Earth	75123-08-31 00:58 G	29159413.40	29159413.54	29159413.72	0.0134	0.0103
Moon	75123-08-31 03:51 G	29159413.51	29159413.66	29159413.83	0.0134	0.0104 *
Moon	75124-09-03 04:19 G	29159782.47	29159782.68	29159782.89	0.0134	0.0065
Earth	75124-09-03 06:29 G	29159782.57	29159782.77	29159783.01	0.0134	0.0065 *

Venus	75125-06-30 17:03 G	29160083.20	29160083.21	29160083.26	0.0134	0.0132
Earth	75125-09-07 11:46 G	29160151.75	29160151.99	29160152.24	0.0134	0.0027
Moon	75125-09-07 14:10 G	29160151.84	29160152.09	29160152.35	0.0134	0.0023 *
Venus	75126-02-11 22:05 G	29160309.29	29160309.42	29160309.58	0.0134	0.0100
Moon	75126-09-11 14:24 G	29160520.85	29160521.10	29160521.34	0.0134	0.0006
Earth	75126-09-11 17:03 G	29160520.96	29160521.21	29160521.46	0.0134	0.0012 *
Venus	75126-09-26 03:07 G	29160535.45	29160535.63	29160535.83	0.0134	0.0068
Venus	75127-05-10 08:24 G	29160761.64	29160761.85	29160762.06	0.0134	0.0035
Earth	75127-09-15 22:05 G	29160890.19	29160890.42	29160890.66	0.0134	0.0050
Moon	75127-09-16 00:15 G	29160890.30	29160890.51	29160890.76	0.0134	0.0058 *
Venus	75127-12-22 13:27 G	29160987.84	29160988.06	29160988.27	0.0134	0.0003
Venus	75128-08-04 18:15 G	29161214.06	29161214.26	29161214.48	0.0134	0.0030
Moon	75128-09-19 00:43 G	29161259.34	29161259.53	29161259.73	0.0134	0.0082
Earth	75128-09-19 03:07 G	29161259.46	29161259.63	29161259.83	0.0134	0.0089 *
Venus	75129-03-18 23:31 G	29161440.29	29161440.48	29161440.68	0.0134	0.0062
Earth	75129-09-23 08:10 G	29161628.79	29161628.84	29161628.94	0.0134	0.0127
Moon	75129-09-23 11:31 G	29161628.95	29161628.98	29161629.02	0.0134	0.0132
Venus	75129-10-31 04:48 G	29161666.55	29161666.70	29161666.85	0.0134	0.0095
Venus	75130-06-14 09:51 G	29161892.86	29161892.91	29161892.99	0.0134	0.0127
Mercury	75132-05-05 20:39 G	29162584.32	29162584.36	29162584.43	0.0134	0.0126
Mercury	75132-08-02 01:41 G	29162672.48	29162672.57	29162672.68	0.0135	0.0104
Mercury	75132-10-29 06:43 G	29162760.65	29162760.78	29162760.91	0.0135	0.0082
Mercury	75133-01-25 11:17 G	29162848.84	29162848.97	29162849.12	0.0135	0.0061
Mercury	75133-04-23 16:19 G	29162937.03	29162937.18	29162937.33	0.0135	0.0039
Mercury	75133-07-20 21:07 G	29163025.22	29163025.38	29163025.54	0.0135	0.0017
Mercury	75133-10-17 01:41 G	29163113.42	29163113.57	29163113.73	0.0135	0.0006
Mercury	75134-01-13 06:29 G	29163201.61	29163201.77	29163201.93	0.0135	0.0025
Mercury	75134-04-11 11:03 G	29163289.82	29163289.96	29163290.11	0.0135	0.0046
Mercury	75134-07-08 15:36 G	29163378.02	29163378.15	29163378.29	0.0135	0.0067
Mercury	75134-10-04 20:10 G	29163466.23	29163466.34	29163466.46	0.0135	0.0088

Mercury	75135-01-01 00:43 G	29163554.44	29163554.53	29163554.63	0.0135	0.0108
Mercury	75135-03-30 05:03 G	29163642.68	29163642.71	29163642.77	0.0135	0.0129
Moon	75165-02-24 02:53 G	29174566.60	29174566.62	29174566.70	0.0144	0.0142
Moon	75166-02-28 23:03 G	29174936.30	29174936.46	29174936.66	0.0144	0.0106
Earth	75166-03-01 03:07 G	29174936.45	29174936.63	29174936.82	0.0144	0.0100 *
Earth	75167-03-06 06:15 G	29175306.53	29175306.76	29175307.01	0.0144	0.0050
Moon	75167-03-06 09:51 G	29175306.67	29175306.91	29175307.15	0.0144	0.0049 *
Venus	75167-08-22 18:43 G	29175476.22	29175476.28	29175476.37	0.0144	0.0135
Moon	75168-03-10 06:58 G	29175676.53	29175676.79	29175677.05	0.0144	0.0004
Earth	75168-03-10 09:51 G	29175676.66	29175676.91	29175677.17	0.0144	0.0002 *
Venus	75168-04-05 07:12 G	29175702.65	29175702.80	29175702.98	0.0144	0.0094
Venus	75168-11-17 19:55 G	29175929.13	29175929.33	29175929.54	0.0144	0.0052
Earth	75169-03-15 12:58 G	29176046.82	29176047.04	29176047.30	0.0144	0.0051
Moon	75169-03-15 15:51 G	29176046.93	29176047.16	29176047.41	0.0144	0.0044 *
Venus	75169-07-02 08:24 G	29176155.63	29176155.85	29176156.07	0.0144	0.0010
Venus	75170-02-13 20:53 G	29176382.16	29176382.37	29176382.59	0.0144	0.0031
Moon	75170-03-20 14:53 G	29176416.96	29176417.12	29176417.31	0.0144	0.0107
Earth	75170-03-20 16:48 G	29176417.02	29176417.20	29176417.39	0.0144	0.0099 *
Venus	75170-09-28 09:22 G	29176608.70	29176608.89	29176609.08	0.0144	0.0073
Moon	75171-03-25 21:36 G	29176787.39	29176787.40	29176787.42	0.0144	0.0144
Venus	75171-05-12 21:36 G	29176835.27	29176835.40	29176835.53	0.0144	0.0114
Mercury	75173-05-18 06:43 G	29177571.71	29177571.78	29177571.84	0.0144	0.0129
Mercury	75173-08-14 11:31 G	29177659.88	29177659.98	29177660.09	0.0144	0.0105
Mercury	75173-11-10 16:34 G	29177748.07	29177748.19	29177748.32	0.0144	0.0081
Mercury	75174-02-06 21:36 G	29177836.26	29177836.40	29177836.54	0.0144	0.0056
Mercury	75174-05-06 02:39 G	29177924.46	29177924.61	29177924.77	0.0144	0.0032
Mercury	75174-08-02 07:55 G	29178012.67	29178012.83	29178012.98	0.0144	0.0006
Mercury	75174-10-29 12:58 G	29178100.89	29178101.04	29178101.20	0.0143	0.0019
Mercury	75175-01-25 18:15 G	29178189.11	29178189.26	29178189.41	0.0143	0.0044
Mercury	75175-04-23 23:31 G	29178277.34	29178277.48	29178277.62	0.0143	0.0069

Mercury	75175-07-21 04:34 G	29178365.58	29178365.69	29178365.82	0.0143	0.0095
Mercury	75175-10-17 10:05 G	29178453.84	29178453.92	29178454.00	0.0143	0.0121
Earth	75207-08-31 14:24 G	29190094.95	29190095.10	29190095.29	0.0134	0.0097
Moon	75207-08-31 16:34 G	29190095.02	29190095.19	29190095.39	0.0134	0.0093 *
Moon	75208-09-03 18:15 G	29190464.04	29190464.26	29190464.48	0.0134	0.0058
Earth	75208-09-03 20:10 G	29190464.12	29190464.34	29190464.57	0.0134	0.0058 *
Earth	75209-09-08 01:12 G	29190833.31	29190833.55	29190833.80	0.0134	0.0020
Moon	75209-09-08 03:36 G	29190833.40	29190833.65	29190833.91	0.0134	0.0024 *
Venus	75209-10-12 10:05 G	29190867.82	29190867.92	29190868.05	0.0134	0.0113
Venus	75210-05-26 15:22 G	29191093.97	29191094.14	29191094.31	0.0134	0.0080
Moon	75210-09-12 04:19 G	29191202.45	29191202.68	29191202.93	0.0134	0.0024
Earth	75210-09-12 06:15 G	29191202.52	29191202.76	29191203.02	0.0134	0.0019 *
Venus	75211-01-07 20:24 G	29191320.15	29191320.35	29191320.55	0.0134	0.0048
Venus	75211-08-22 01:12 G	29191546.34	29191546.55	29191546.77	0.0134	0.0016
Earth	75211-09-16 11:17 G	29191571.75	29191571.97	29191572.21	0.0134	0.0057
Moon	75211-09-16 13:41 G	29191571.84	29191572.07	29191572.32	0.0134	0.0050 *
Venus	75212-04-04 06:15 G	29191772.55	29191772.76	29191772.98	0.0134	0.0017
Moon	75212-09-19 14:24 G	29191940.95	29191941.10	29191941.26	0.0134	0.0103
Earth	75212-09-19 16:34 G	29191941.02	29191941.19	29191941.37	0.0134	0.0095 *
Venus	75212-11-16 11:17 G	29191998.78	29191998.97	29191999.18	0.0134	0.0049
Venus	75213-06-30 16:19 G	29192225.03	29192225.18	29192225.37	0.0134	0.0082
Earth	75213-09-23 21:51 G	29192310.39	29192310.41	29192310.44	0.0134	0.0133
Moon	75213-09-24 00:15 G	29192310.43	29192310.51	29192310.58	0.0134	0.0128 *
Venus	75214-02-11 21:36 G	29192451.30	29192451.40	29192451.53	0.0134	0.0114
Mercury	75216-05-26 04:48 G	29193285.62	29193285.70	29193285.78	0.0134	0.0116
Mercury	75216-08-22 09:22 G	29193373.79	29193373.89	29193374.01	0.0134	0.0094
Mercury	75216-11-18 14:24 G	29193461.97	29193462.10	29193462.24	0.0134	0.0072
Mercury	75217-02-14 19:12 G	29193550.16	29193550.30	29193550.45	0.0135	0.0051
Mercury	75217-05-14 00:00 G	29193638.35	29193638.50	29193638.66	0.0135	0.0030
Mercury	75217-08-10 04:48 G	29193726.54	29193726.70	29193726.86	0.0135	0.0008

Mercury	75217-11-06 09:22 G	29193814.74	29193814.89	29193815.05	0.0135	0.0014
Mercury	75218-02-02 14:10 G	29193902.94	29193903.09	29193903.24	0.0135	0.0034
Mercury	75218-05-01 18:43 G	29193991.14	29193991.28	29193991.43	0.0135	0.0055
Mercury	75218-07-28 23:17 G	29194079.35	29194079.47	29194079.60	0.0135	0.0076
Mercury	75218-10-25 03:51 G	29194167.56	29194167.66	29194167.77	0.0135	0.0096
Mercury	75219-01-21 08:10 G	29194255.78	29194255.84	29194255.93	0.0135	0.0117
Mars	75233-03-23 03:07 G	29199430.52	29199430.63	29199430.80	0.0140	0.0128
Earth	75249-02-24 08:53 G	29205247.86	29205247.87	29205247.92	0.0144	0.0143
Moon	75250-03-01 08:39 G	29205617.68	29205617.86	29205618.08	0.0144	0.0089
Earth	75250-03-01 12:15 G	29205617.83	29205618.01	29205618.22	0.0144	0.0095 *
Earth	75251-03-06 15:51 G	29205987.92	29205988.16	29205988.41	0.0144	0.0044
Moon	75251-03-06 19:12 G	29205988.07	29205988.30	29205988.56	0.0144	0.0046 *
Venus	75251-12-04 12:58 G	29206260.92	29206261.04	29206261.19	0.0144	0.0113
Moon	75252-03-10 15:51 G	29206357.91	29206358.16	29206358.43	0.0144	0.0005
Earth	75252-03-10 19:27 G	29206358.06	29206358.31	29206358.57	0.0144	0.0006 *
Venus	75252-07-18 01:41 G	29206487.39	29206487.57	29206487.77	0.0144	0.0071
Venus	75253-03-01 14:24 G	29206713.88	29206714.10	29206714.31	0.0144	0.0029
Earth	75253-03-15 23:17 G	29206728.23	29206728.47	29206728.70	0.0144	0.0056
Moon	75253-03-16 01:41 G	29206728.35	29206728.57	29206728.81	0.0144	0.0063 *
Venus	75253-10-14 02:53 G	29206940.40	29206940.62	29206940.84	0.0144	0.0012
Moon	75254-03-21 00:00 G	29207098.32	29207098.50	29207098.70	0.0144	0.0098
Earth	75254-03-21 02:53 G	29207098.45	29207098.62	29207098.80	0.0144	0.0106 *
Venus	75254-05-28 15:22 G	29207166.94	29207167.14	29207167.34	0.0144	0.0054
Venus	75255-01-10 03:36 G	29207393.50	29207393.65	29207393.83	0.0144	0.0095
Venus	75255-08-24 15:51 G	29207620.11	29207620.16	29207620.25	0.0144	0.0136
Mercury	75257-06-07 13:55 G	29208273.01	29208273.08	29208273.17	0.0144	0.0121
Mercury	75257-09-03 18:58 G	29208361.18	29208361.29	29208361.41	0.0144	0.0097
Mercury	75257-12-01 00:00 G	29208449.37	29208449.50	29208449.64	0.0144	0.0072
Mercury	75258-02-27 05:03 G	29208537.57	29208537.71	29208537.86	0.0144	0.0048
Mercury	75258-05-26 10:19 G	29208625.77	29208625.93	29208626.08	0.0144	0.0023

Mercury	75258-08-22 15:22 G	29208713.99	29208714.14	29208714.30	0.0144	0.0002
Mercury	75258-11-18 20:24 G	29208802.20	29208802.35	29208802.51	0.0144	0.0028
Mercury	75259-02-15 01:41 G	29208890.43	29208890.57	29208890.72	0.0144	0.0053
Mercury	75259-05-14 06:58 G	29208978.66	29208978.79	29208978.92	0.0143	0.0078
Mercury	75259-08-10 12:15 G	29209066.91	29209067.01	29209067.12	0.0143	0.0104
Mercury	75259-11-06 17:31 G	29209155.17	29209155.23	29209155.30	0.0143	0.0130
Mars	75273-08-29 10:05 G	29214199.64	29214199.92	29214200.21	0.0138	0.0009
Moon	75290-08-27 21:51 G	29220407.33	29220407.41	29220407.53	0.0134	0.0122
Earth	75290-08-27 23:03 G	29220407.41	29220407.46	29220407.55	0.0134	0.0128 *
Earth	75291-09-01 04:19 G	29220776.52	29220776.68	29220776.89	0.0134	0.0090
Moon	75291-09-01 06:15 G	29220776.59	29220776.76	29220776.96	0.0134	0.0092 *
Moon	75292-09-04 08:24 G	29221145.63	29221145.85	29221146.08	0.0134	0.0051
Earth	75292-09-04 09:51 G	29221145.69	29221145.91	29221146.16	0.0134	0.0052 *
Venus	75293-06-11 22:34 G	29221426.38	29221426.44	29221426.53	0.0134	0.0125
Earth	75293-09-08 15:07 G	29221514.88	29221515.13	29221515.38	0.0134	0.0013
Moon	75293-09-08 16:34 G	29221514.93	29221515.19	29221515.45	0.0134	0.0011 *
Venus	75294-01-24 03:36 G	29221652.51	29221652.65	29221652.81	0.0134	0.0093
Venus	75294-09-07 08:39 G	29221878.67	29221878.86	29221879.06	0.0134	0.0061
Moon	75294-09-12 18:29 G	29221884.03	29221884.27	29221884.51	0.0134	0.0020
Earth	75294-09-12 20:10 G	29221884.10	29221884.34	29221884.59	0.0134	0.0026 *
Venus	75295-04-21 13:27 G	29222104.86	29222105.06	29222105.28	0.0134	0.0029
Earth	75295-09-17 01:12 G	29222253.34	29222253.55	29222253.78	0.0134	0.0064
Moon	75295-09-17 02:39 G	29222253.41	29222253.61	29222253.85	0.0134	0.0071 *
Venus	75295-12-03 18:43 G	29222331.06	29222331.28	29222331.50	0.0134	0.0004
Venus	75296-07-16 23:46 G	29222557.29	29222557.49	29222557.70	0.0134	0.0037
Moon	75296-09-20 04:34 G	29222622.53	29222622.69	29222622.87	0.0134	0.0096
Earth	75296-09-20 06:15 G	29222622.62	29222622.76	29222622.94	0.0134	0.0103 *
Venus	75297-02-28 04:48 G	29222783.53	29222783.70	29222783.90	0.0134	0.0069
Venus	75297-10-12 10:05 G	29223009.79	29223009.92	29223010.07	0.0134	0.0101
Venus	75298-05-26 15:22 G	29223236.13	29223236.14	29223236.16	0.0134	0.0133

Mercury	75300-03-20 07:27 G	29223898.78	29223898.81	29223898.87	0.0134	0.0128
Mercury	75300-06-16 12:29 G	29223986.93	29223987.02	29223987.13	0.0134	0.0106
Mercury	75300-09-12 17:31 G	29224075.11	29224075.23	29224075.36	0.0134	0.0084
Mercury	75300-12-09 22:19 G	29224163.29	29224163.43	29224163.58	0.0134	0.0062
Mercury	75301-03-08 03:07 G	29224251.48	29224251.63	29224251.79	0.0134	0.0041
Mercury	75301-06-04 07:55 G	29224339.67	29224339.83	29224339.99	0.0135	0.0020
Mercury	75301-08-31 12:43 G	29224427.87	29224428.03	29224428.19	0.0135	0.0002
Mercury	75301-11-27 17:17 G	29224516.07	29224516.22	29224516.38	0.0135	0.0023
Mercury	75302-02-23 22:05 G	29224604.27	29224604.42	29224604.57	0.0135	0.0044
Mercury	75302-05-23 02:39 G	29224692.47	29224692.61	29224692.75	0.0135	0.0065
Mercury	75302-08-19 06:58 G	29224780.68	29224780.79	29224780.92	0.0135	0.0086
Mercury	75302-11-15 11:46 G	29224868.90	29224868.99	29224869.09	0.0135	0.0106
Mercury	75303-02-11 16:19 G	29224957.13	29224957.18	29224957.23	0.0135	0.0126
Mars	75317-11-18 10:19 G	29230350.63	29230350.93	29230351.26	0.0140	0.0050
Earth	75333-02-25 20:53 G	29235929.29	29235929.37	29235929.45	0.0144	0.0137
Moon	75333-02-25 23:31 G	29235929.39	29235929.48	29235929.62	0.0144	0.0130 *
Moon	75334-03-02 19:55 G	29236299.16	29236299.33	29236299.54	0.0144	0.0095
Earth	75334-03-03 00:00 G	29236299.30	29236299.50	29236299.71	0.0144	0.0088 *
Earth	75335-03-08 03:22 G	29236669.39	29236669.64	29236669.89	0.0144	0.0038
Moon	75335-03-08 06:43 G	29236669.54	29236669.78	29236670.04	0.0144	0.0036 *
Venus	75335-08-04 19:55 G	29236819.25	29236819.33	29236819.43	0.0144	0.0131
Moon	75336-03-12 03:22 G	29237039.39	29237039.64	29237039.91	0.0144	0.0017
Earth	75336-03-12 07:12 G	29237039.54	29237039.80	29237040.05	0.0144	0.0013 *
Venus	75336-03-18 08:24 G	29237045.69	29237045.85	29237046.04	0.0144	0.0090
Venus	75336-10-30 21:07 G	29237272.18	29237272.38	29237272.59	0.0144	0.0048
Earth	75337-03-17 10:34 G	29237409.72	29237409.94	29237410.18	0.0144	0.0063
Moon	75337-03-17 14:10 G	29237409.86	29237410.09	29237410.33	0.0144	0.0057 *
Venus	75337-06-14 09:51 G	29237498.69	29237498.91	29237499.13	0.0144	0.0006
Venus	75338-01-26 22:34 G	29237725.23	29237725.44	29237725.65	0.0144	0.0035
Moon	75338-03-22 11:31 G	29237779.85	29237779.98	29237780.14	0.0144	0.0120

Earth	75338-03-22 14:24 G	29237779.95	29237780.10	29237780.27	0.0144	0.0113	*
Venus	75338-09-10 11:03 G	29237951.78	29237951.96	29237952.15	0.0144	0.0076	
Venus	75339-04-24 23:17 G	29238178.35	29238178.47	29238178.60	0.0144	0.0118	
Mercury	75341-04-01 16:48 G	29238886.16	29238886.20	29238886.25	0.0144	0.0136	
Mercury	75341-06-28 21:36 G	29238974.31	29238974.40	29238974.50	0.0144	0.0112	
Mercury	75341-09-25 02:39 G	29239062.49	29239062.61	29239062.73	0.0144	0.0088	
Mercury	75341-12-22 07:41 G	29239150.69	29239150.82	29239150.96	0.0144	0.0063	
Mercury	75342-03-20 12:43 G	29239238.89	29239239.03	29239239.18	0.0144	0.0038	
Mercury	75342-06-16 18:00 G	29239327.09	29239327.25	29239327.40	0.0144	0.0014	
Mercury	75342-09-12 23:03 G	29239415.31	29239415.46	29239415.61	0.0144	0.0012	
Mercury	75342-12-10 04:19 G	29239503.53	29239503.68	29239503.83	0.0144	0.0037	
Mercury	75343-03-08 09:22 G	29239591.75	29239591.89	29239592.03	0.0144	0.0062	
Mercury	75343-06-04 14:39 G	29239679.99	29239680.11	29239680.24	0.0143	0.0088	
Mercury	75343-08-31 19:55 G	29239768.24	29239768.33	29239768.43	0.0143	0.0113	
Mercury	75343-11-28 00:58 G	29239856.52	29239856.54	29239856.59	0.0143	0.0140	
Mars	75358-04-25 02:10 G	29245118.54	29245118.59	29245118.66	0.0138	0.0135	
Moon	75374-08-29 11:31 G	29251088.93	29251088.98	29251089.08	0.0134	0.0127	
Earth	75374-08-29 12:58 G	29251088.95	29251089.04	29251089.16	0.0134	0.0121	*
Earth	75375-09-02 18:43 G	29251458.09	29251458.28	29251458.48	0.0134	0.0083	
Moon	75375-09-02 19:41 G	29251458.12	29251458.32	29251458.53	0.0134	0.0079	*
Moon	75376-09-05 22:48 G	29251827.23	29251827.45	29251827.69	0.0134	0.0046	
Earth	75376-09-05 23:46 G	29251827.26	29251827.49	29251827.74	0.0134	0.0045	*
Earth	75377-09-10 05:03 G	29252196.47	29252196.71	29252196.97	0.0134	0.0007	
Moon	75377-09-10 06:43 G	29252196.52	29252196.78	29252197.04	0.0134	0.0009	*
Venus	75377-09-24 16:05 G	29252211.05	29252211.17	29252211.31	0.0134	0.0105	
Venus	75378-05-08 21:07 G	29252437.20	29252437.38	29252437.56	0.0134	0.0073	
Moon	75378-09-14 09:22 G	29252565.66	29252565.89	29252566.13	0.0134	0.0037	
Earth	75378-09-14 10:19 G	29252565.69	29252565.93	29252566.18	0.0134	0.0033	*
Venus	75378-12-21 02:10 G	29252663.39	29252663.59	29252663.80	0.0134	0.0041	
Venus	75379-08-04 07:12 G	29252889.59	29252889.80	29252890.02	0.0134	0.0009	

Earth	75379-09-18 15:22 G	29252934.94	29252935.14	29252935.36	0.0134	0.0071
Moon	75379-09-18 16:48 G	29252934.99	29252935.20	29252935.44	0.0134	0.0065 *
Venus	75380-03-17 12:15 G	29253115.80	29253116.01	29253116.23	0.0134	0.0024
Moon	75380-09-21 19:27 G	29253304.20	29253304.31	29253304.44	0.0134	0.0117
Earth	75380-09-21 20:53 G	29253304.23	29253304.37	29253304.51	0.0134	0.0109 *
Venus	75380-10-29 17:31 G	29253342.03	29253342.23	29253342.42	0.0134	0.0056
Venus	75381-06-12 22:19 G	29253568.28	29253568.43	29253568.61	0.0134	0.0089
Jupiter	75381-06-20 09:36 G	29253575.40	29253575.90	29253576.40	0.0134	0.0006
Venus	75382-01-25 03:36 G	29253794.57	29253794.65	29253794.75	0.0134	0.0121
Mercury	75384-04-09 15:22 G	29254600.08	29254600.14	29254600.23	0.0134	0.0118
Mercury	75384-07-06 20:24 G	29254688.25	29254688.35	29254688.47	0.0134	0.0096
Mercury	75384-10-03 01:27 G	29254776.43	29254776.56	29254776.70	0.0134	0.0074
Mercury	75384-12-30 06:15 G	29254864.62	29254864.76	29254864.91	0.0134	0.0052
Mercury	75385-03-28 11:03 G	29254952.81	29254952.96	29254953.12	0.0134	0.0031
Mercury	75385-06-24 15:51 G	29255041.00	29255041.16	29255041.32	0.0135	0.0010
Mercury	75385-09-20 20:39 G	29255129.20	29255129.36	29255129.52	0.0135	0.0012
Mercury	75385-12-18 01:12 G	29255217.40	29255217.55	29255217.71	0.0135	0.0033
Mercury	75386-03-16 05:46 G	29255305.60	29255305.74	29255305.89	0.0135	0.0054
Mercury	75386-06-12 10:19 G	29255393.81	29255393.93	29255394.07	0.0135	0.0075
Mercury	75386-09-08 15:07 G	29255482.02	29255482.13	29255482.24	0.0135	0.0095
Mercury	75386-12-05 19:27 G	29255570.24	29255570.31	29255570.40	0.0135	0.0116
Earth	75417-02-27 06:29 G	29266610.69	29266610.77	29266610.90	0.0144	0.0132
Moon	75417-02-27 09:51 G	29266610.86	29266610.91	29266610.99	0.0144	0.0140 *
Moon	75418-03-04 06:43 G	29266980.57	29266980.78	29266981.00	0.0144	0.0075
Earth	75418-03-04 09:36 G	29266980.71	29266980.90	29266981.13	0.0144	0.0083 *
Earth	75419-03-09 13:12 G	29267350.81	29267351.05	29267351.31	0.0144	0.0033
Moon	75419-03-09 17:17 G	29267350.97	29267351.22	29267351.47	0.0144	0.0034 *
Venus	75419-11-17 14:24 G	29267603.97	29267604.10	29267604.26	0.0144	0.0109
Moon	75420-03-13 13:41 G	29267720.81	29267721.07	29267721.32	0.0144	0.0018
Earth	75420-03-13 17:17 G	29267720.97	29267721.22	29267721.48	0.0144	0.0019 *

Venus	75420-07-01 03:07 G	29267830.45	29267830.63	29267830.84	0.0144	0.0068
Venus	75421-02-12 16:05 G	29268056.96	29268057.17	29268057.39	0.0144	0.0025
Earth	75421-03-18 20:39 G	29268091.15	29268091.36	29268091.61	0.0144	0.0070
Moon	75421-03-19 00:00 G	29268091.30	29268091.50	29268091.73	0.0144	0.0077 *
Venus	75421-09-27 04:48 G	29268283.48	29268283.70	29268283.92	0.0144	0.0016
Moon	75422-03-23 21:22 G	29268461.23	29268461.39	29268461.56	0.0144	0.0111
Earth	75422-03-24 00:29 G	29268461.40	29268461.52	29268461.69	0.0144	0.0120 *
Venus	75422-05-11 17:17 G	29268510.02	29268510.22	29268510.42	0.0144	0.0058
Venus	75422-12-24 05:31 G	29268736.59	29268736.73	29268736.90	0.0144	0.0100
Venus	75423-08-07 18:00 G	29268963.22	29268963.25	29268963.31	0.0144	0.0140
Mercury	75425-04-23 00:00 G	29269587.44	29269587.50	29269587.57	0.0144	0.0128
Mercury	75425-07-20 05:03 G	29269675.61	29269675.71	29269675.82	0.0144	0.0104
Mercury	75425-10-16 10:05 G	29269763.80	29269763.92	29269764.05	0.0144	0.0080
Mercury	75426-01-12 15:07 G	29269851.99	29269852.13	29269852.27	0.0144	0.0055
Mercury	75426-04-10 20:10 G	29269940.19	29269940.34	29269940.49	0.0144	0.0030
Mercury	75426-07-08 01:12 G	29270028.40	29270028.55	29270028.71	0.0144	0.0007
Mercury	75426-10-04 06:29 G	29270116.62	29270116.77	29270116.92	0.0144	0.0020
Mercury	75426-12-31 11:31 G	29270204.84	29270204.98	29270205.13	0.0144	0.0045
Mercury	75427-03-29 16:48 G	29270293.07	29270293.20	29270293.34	0.0144	0.0070
Mercury	75427-06-25 22:05 G	29270381.31	29270381.42	29270381.54	0.0144	0.0096
Mercury	75427-09-22 03:22 G	29270469.56	29270469.64	29270469.72	0.0143	0.0122
Mars	75441-01-18 17:31 G	29275337.02	29275337.23	29275337.46	0.0139	0.0087
Moon	75458-08-31 02:39 G	29281770.49	29281770.61	29281770.77	0.0134	0.0109
Earth	75458-08-31 03:07 G	29281770.51	29281770.63	29281770.77	0.0134	0.0115 *
Earth	75459-09-04 08:24 G	29282139.66	29282139.85	29282140.07	0.0134	0.0077
Moon	75459-09-04 09:07 G	29282139.69	29282139.88	29282140.10	0.0134	0.0080 *
Moon	75460-09-07 13:27 G	29282508.83	29282509.06	29282509.30	0.0134	0.0037
Earth	75460-09-07 14:10 G	29282508.85	29282509.09	29282509.33	0.0134	0.0038 *
Venus	75461-05-26 04:48 G	29282769.60	29282769.70	29282769.80	0.0134	0.0117
Earth	75461-09-11 19:27 G	29282878.06	29282878.31	29282878.56	0.0134	0.0001

Moon	75461-09-11 19:55 G	29282878.07	29282878.33	29282878.59	0.0134	0.0003 *
Venus	75462-01-07 09:51 G	29282995.75	29282995.91	29282996.08	0.0134	0.0085
Venus	75462-08-21 14:53 G	29283221.92	29283222.12	29283222.32	0.0134	0.0053
Moon	75462-09-15 23:31 G	29283247.25	29283247.48	29283247.72	0.0134	0.0035
Earth	75462-09-16 00:29 G	29283247.29	29283247.52	29283247.77	0.0134	0.0040 *
Venus	75463-04-04 19:41 G	29283448.11	29283448.32	29283448.54	0.0134	0.0021
Earth	75463-09-20 05:46 G	29283616.55	29283616.74	29283616.95	0.0134	0.0078
Moon	75463-09-20 06:29 G	29283616.57	29283616.77	29283616.97	0.0134	0.0084 *
Venus	75463-11-17 00:58 G	29283674.32	29283674.54	29283674.75	0.0134	0.0012
Venus	75464-06-30 06:00 G	29283900.55	29283900.75	29283900.96	0.0134	0.0044
Moon	75464-09-23 10:19 G	29283985.80	29283985.93	29283986.07	0.0134	0.0110
Earth	75464-09-23 10:48 G	29283985.85	29283985.95	29283986.09	0.0134	0.0117 *
Venus	75465-02-11 11:17 G	29284126.79	29284126.97	29284127.15	0.0134	0.0076
Venus	75465-09-25 16:05 G	29284353.06	29284353.17	29284353.31	0.0134	0.0109
Mercury	75468-02-02 18:43 G	29285213.24	29285213.28	29285213.33	0.0134	0.0128
Mercury	75468-04-30 23:46 G	29285301.40	29285301.49	29285301.59	0.0134	0.0107
Mercury	75468-07-28 04:34 G	29285389.57	29285389.69	29285389.82	0.0134	0.0085
Mercury	75468-10-24 09:22 G	29285477.76	29285477.89	29285478.04	0.0134	0.0064
Mercury	75469-01-20 14:24 G	29285565.95	29285566.10	29285566.25	0.0134	0.0042
Mercury	75469-04-18 19:12 G	29285654.14	29285654.30	29285654.46	0.0134	0.0021
Mercury	75469-07-16 00:00 G	29285742.34	29285742.50	29285742.66	0.0135	0.0003
Mercury	75469-10-12 04:34 G	29285830.53	29285830.69	29285830.85	0.0135	0.0022
Mercury	75470-01-08 09:07 G	29285918.74	29285918.88	29285919.04	0.0135	0.0043
Mercury	75470-04-06 13:41 G	29286006.94	29286007.07	29286007.22	0.0135	0.0064
Mercury	75470-07-03 18:15 G	29286095.15	29286095.26	29286095.39	0.0135	0.0085
Mercury	75470-09-29 23:03 G	29286183.37	29286183.46	29286183.56	0.0135	0.0105
Mercury	75470-12-27 03:36 G	29286271.60	29286271.65	29286271.71	0.0135	0.0125
Mars	75485-04-06 07:41 G	29291485.51	29291485.82	29291486.15	0.0140	0.0048
Earth	75501-02-28 20:10 G	29297292.23	29297292.34	29297292.49	0.0144	0.0125
Moon	75501-02-28 23:03 G	29297292.32	29297292.46	29297292.62	0.0144	0.0117 *

Moon	75502-03-05 20:24 G	29297662.15	29297662.35	29297662.56	0.0144	0.0082
Earth	75502-03-05 23:46 G	29297662.28	29297662.49	29297662.71	0.0144	0.0075 *
Earth	75503-03-11 03:07 G	29298032.38	29298032.63	29298032.89	0.0144	0.0025
Moon	75503-03-11 06:29 G	29298032.52	29298032.77	29298033.03	0.0144	0.0021 *
Venus	75503-07-18 22:34 G	29298162.35	29298162.44	29298162.57	0.0144	0.0126
Venus	75504-03-01 11:31 G	29298388.81	29298388.98	29298389.17	0.0144	0.0084
Moon	75504-03-15 03:22 G	29298402.39	29298402.64	29298402.89	0.0144	0.0029
Earth	75504-03-15 06:58 G	29298402.54	29298402.79	29298403.05	0.0144	0.0026 *
Venus	75504-10-14 00:15 G	29298615.30	29298615.51	29298615.72	0.0144	0.0042
Earth	75505-03-20 10:48 G	29298772.74	29298772.95	29298773.17	0.0144	0.0077
Moon	75505-03-20 14:39 G	29298772.89	29298773.11	29298773.33	0.0144	0.0071 *
Venus	75505-05-28 12:58 G	29298841.82	29298842.04	29298842.26	0.0144	0.0001
Venus	75506-01-10 01:41 G	29299068.36	29299068.57	29299068.78	0.0144	0.0041
Moon	75506-03-25 10:48 G	29299142.88	29299142.95	29299143.07	0.0144	0.0135
Earth	75506-03-25 14:24 G	29299142.99	29299143.10	29299143.23	0.0144	0.0126 *
Venus	75506-08-24 13:55 G	29299294.91	29299295.08	29299295.27	0.0144	0.0082
Venus	75507-04-08 02:10 G	29299521.50	29299521.59	29299521.72	0.0144	0.0124
Mercury	75509-02-15 03:07 G	29300200.61	29300200.63	29300200.66	0.0144	0.0142
Mercury	75509-05-14 07:55 G	29300288.76	29300288.83	29300288.93	0.0144	0.0118
Mercury	75509-08-10 12:58 G	29300376.93	29300377.04	29300377.16	0.0144	0.0094
Mercury	75509-11-06 18:00 G	29300465.12	29300465.25	29300465.39	0.0144	0.0069
Mercury	75510-02-02 23:03 G	29300553.32	29300553.46	29300553.61	0.0144	0.0045
Mercury	75510-05-02 04:05 G	29300641.52	29300641.67	29300641.83	0.0144	0.0020
Mercury	75510-07-29 09:22 G	29300729.73	29300729.89	29300730.04	0.0144	0.0006
Mercury	75510-10-25 14:24 G	29300817.95	29300818.10	29300818.25	0.0144	0.0030
Mercury	75511-01-21 19:27 G	29300906.17	29300906.31	29300906.46	0.0144	0.0056
Mercury	75511-04-20 00:43 G	29300994.41	29300994.53	29300994.66	0.0144	0.0081
Mercury	75511-07-17 06:00 G	29301082.65	29301082.75	29301082.86	0.0144	0.0107
Mercury	75511-10-13 11:03 G	29301170.92	29301170.96	29301171.03	0.0143	0.0133
Mars	75525-09-14 10:34 G	29306255.70	29306255.94	29306256.21	0.0139	0.0058

Earth	75542-09-01 17:17 G	29312452.08	29312452.22	29312452.37	0.0134	0.0109
Moon	75542-09-01 17:03 G	29312452.09	29312452.21	29312452.34	0.0134	0.0115 *
Moon	75543-09-05 22:48 G	29312821.23	29312821.45	29312821.68	0.0134	0.0065
Earth	75543-09-05 22:48 G	29312821.24	29312821.45	29312821.67	0.0134	0.0070 *
Earth	75544-09-09 04:19 G	29313190.43	29313190.68	29313190.92	0.0134	0.0031
Moon	75544-09-09 04:05 G	29313190.44	29313190.67	29313190.91	0.0134	0.0033 *
Venus	75545-01-24 17:31 G	29313328.18	29313328.23	29313328.28	0.0134	0.0129
Venus	75545-09-07 22:05 G	29313554.29	29313554.42	29313554.58	0.0134	0.0098
Earth	75545-09-13 09:36 G	29313559.65	29313559.90	29313560.15	0.0134	0.0008
Moon	75545-09-13 10:05 G	29313559.66	29313559.92	29313560.18	0.0134	0.0006 *
Venus	75546-04-22 03:22 G	29313780.45	29313780.64	29313780.83	0.0134	0.0065
Earth	75546-09-17 15:07 G	29313928.89	29313929.13	29313929.36	0.0134	0.0046
Moon	75546-09-17 14:53 G	29313928.90	29313929.12	29313929.35	0.0134	0.0050 *
Venus	75546-12-04 08:24 G	29314006.64	29314006.85	29314007.06	0.0134	0.0033
Venus	75547-07-18 13:41 G	29314232.85	29314233.07	29314233.28	0.0134	0.0002
Earth	75547-09-21 19:55 G	29314298.15	29314298.33	29314298.54	0.0134	0.0085
Moon	75547-09-21 20:24 G	29314298.16	29314298.35	29314298.58	0.0134	0.0079 *
Venus	75548-02-29 18:29 G	29314459.07	29314459.27	29314459.49	0.0134	0.0032
Earth	75548-09-25 01:12 G	29314667.47	29314667.55	29314667.66	0.0134	0.0123
Moon	75548-09-25 00:58 G	29314667.51	29314667.54	29314667.61	0.0134	0.0131 *
Venus	75548-10-12 23:31 G	29314685.30	29314685.48	29314685.68	0.0134	0.0064
Venus	75549-05-27 04:48 G	29314911.56	29314911.70	29314911.85	0.0134	0.0096
Venus	75550-01-08 09:36 G	29315137.86	29315137.90	29315137.98	0.0134	0.0129
Mercury	75552-02-24 02:39 G	29315914.55	29315914.61	29315914.70	0.0134	0.0119
Mercury	75552-05-22 07:41 G	29316002.71	29316002.82	29316002.94	0.0134	0.0097
Mercury	75552-08-18 12:43 G	29316090.90	29316091.03	29316091.16	0.0134	0.0075
Mercury	75552-11-14 17:31 G	29316179.08	29316179.23	29316179.38	0.0134	0.0053
Mercury	75553-02-10 22:19 G	29316267.27	29316267.43	29316267.59	0.0134	0.0032
Mercury	75553-05-10 03:07 G	29316355.47	29316355.63	29316355.79	0.0135	0.0011
Mercury	75553-08-06 07:55 G	29316443.67	29316443.83	29316443.99	0.0135	0.0011

Mercury	75553-11-02 12:29 G	29316531.87	29316532.02	29316532.18	0.0135	0.0032
Mercury	75554-01-29 17:03 G	29316620.07	29316620.21	29316620.36	0.0135	0.0053
Mercury	75554-04-27 21:36 G	29316708.28	29316708.40	29316708.54	0.0135	0.0074
Mercury	75554-07-25 02:24 G	29316796.49	29316796.60	29316796.71	0.0135	0.0094
Mercury	75554-10-21 06:43 G	29316884.71	29316884.78	29316884.87	0.0135	0.0115
Mercury	75555-01-17 11:31 G	29316972.98	29316972.98	29316972.98	0.0135	0.0135
Mars	75569-12-02 15:22 G	29322406.04	29322406.14	29322406.29	0.0140	0.0130
Earth	75585-03-01 08:39 G	29327973.73	29327973.86	29327974.02	0.0144	0.0118
Moon	75585-03-01 11:03 G	29327973.85	29327973.96	29327974.10	0.0144	0.0126 *
Moon	75586-03-06 09:22 G	29328343.67	29328343.89	29328344.12	0.0144	0.0061
Earth	75586-03-06 11:46 G	29328343.78	29328343.99	29328344.23	0.0144	0.0068 *
Earth	75587-03-11 15:36 G	29328713.89	29328714.15	29328714.41	0.0144	0.0018
Moon	75587-03-11 19:12 G	29328714.04	29328714.30	29328714.56	0.0144	0.0020 *
Venus	75587-03-18 06:00 G	29328720.73	29328720.75	29328720.80	0.0144	0.0143
Venus	75587-10-30 18:43 G	29328947.14	29328947.28	29328947.45	0.0144	0.0102
Moon	75588-03-15 16:05 G	29329083.92	29329084.17	29329084.42	0.0144	0.0033
Earth	75588-03-15 19:12 G	29329084.06	29329084.30	29329084.56	0.0144	0.0034 *
Venus	75588-06-13 07:27 G	29329173.62	29329173.81	29329174.02	0.0144	0.0060
Venus	75589-01-25 20:24 G	29329400.13	29329400.35	29329400.57	0.0144	0.0018
Earth	75589-03-20 22:48 G	29329454.25	29329454.45	29329454.67	0.0144	0.0083
Moon	75589-03-21 02:10 G	29329454.41	29329454.59	29329454.81	0.0144	0.0091 *
Venus	75589-09-09 08:53 G	29329626.66	29329626.87	29329627.09	0.0144	0.0023
Moon	75590-03-25 22:34 G	29329824.34	29329824.44	29329824.59	0.0144	0.0126
Earth	75590-03-26 02:24 G	29329824.53	29329824.60	29329824.72	0.0144	0.0134 *
Venus	75590-04-23 21:22 G	29329853.20	29329853.39	29329853.59	0.0144	0.0065
Venus	75590-12-06 09:51 G	29330079.77	29330079.91	29330080.06	0.0144	0.0106
Mercury	75593-03-07 10:48 G	29330901.90	29330901.95	29330902.01	0.0144	0.0133
Mercury	75593-06-03 15:36 G	29330990.06	29330990.15	29330990.26	0.0144	0.0109
Mercury	75593-08-30 20:39 G	29331078.25	29331078.36	29331078.49	0.0144	0.0085
Mercury	75593-11-27 01:41 G	29331166.44	29331166.57	29331166.71	0.0144	0.0060

Mercury	75594-02-23 06:43 G	29331254.64	29331254.78	29331254.93	0.0144	0.0036
Mercury	75594-05-22 11:46 G	29331342.84	29331342.99	29331343.15	0.0144	0.0011
Mercury	75594-08-18 17:03 G	29331431.05	29331431.21	29331431.36	0.0144	0.0015
Mercury	75594-11-14 22:05 G	29331519.27	29331519.42	29331519.57	0.0144	0.0040
Mercury	75595-02-11 03:07 G	29331607.50	29331607.63	29331607.78	0.0144	0.0065
Mercury	75595-05-10 08:24 G	29331695.73	29331695.85	29331695.98	0.0144	0.0090
Mercury	75595-08-06 13:41 G	29331783.98	29331784.07	29331784.17	0.0144	0.0116
Mercury	75595-11-02 18:58 G	29331872.27	29331872.29	29331872.32	0.0143	0.0142
Earth	75626-09-02 07:12 G	29343133.65	29343133.80	29343133.98	0.0134	0.0102
Moon	75626-09-02 08:10 G	29343133.68	29343133.84	29343134.02	0.0134	0.0095 *
Moon	75627-09-06 12:29 G	29343502.80	29343503.02	29343503.25	0.0134	0.0067
Earth	75627-09-06 12:58 G	29343502.82	29343503.04	29343503.27	0.0134	0.0063 *
Earth	75628-09-09 18:15 G	29343872.03	29343872.26	29343872.52	0.0134	0.0025
Moon	75628-09-09 18:43 G	29343872.05	29343872.28	29343872.53	0.0134	0.0023 *
Venus	75629-05-08 10:34 G	29344112.84	29344112.94	29344113.08	0.0134	0.0110
Moon	75629-09-13 23:17 G	29344241.21	29344241.47	29344241.73	0.0134	0.0015
Earth	75629-09-14 00:00 G	29344241.25	29344241.50	29344241.75	0.0134	0.0015 *
Venus	75629-12-20 15:36 G	29344338.99	29344339.15	29344339.34	0.0134	0.0078
Venus	75630-08-03 21:07 G	29344565.18	29344565.38	29344565.58	0.0134	0.0045
Earth	75630-09-18 05:03 G	29344610.49	29344610.71	29344610.95	0.0134	0.0054
Moon	75630-09-18 05:17 G	29344610.50	29344610.72	29344610.95	0.0134	0.0049 *
Venus	75631-03-18 02:10 G	29344791.37	29344791.59	29344791.80	0.0134	0.0013
Moon	75631-09-22 09:36 G	29344979.74	29344979.90	29344980.10	0.0134	0.0098
Earth	75631-09-22 10:19 G	29344979.76	29344979.93	29344980.12	0.0134	0.0092 *
Venus	75631-10-30 06:58 G	29345017.58	29345017.79	29345018.01	0.0134	0.0020
Venus	75632-06-12 12:00 G	29345243.81	29345244.00	29345244.21	0.0134	0.0052
Moon	75632-09-25 15:36 G	29345349.07	29345349.15	29345349.25	0.0134	0.0124
Earth	75632-09-25 15:36 G	29345349.10	29345349.15	29345349.21	0.0134	0.0130 *
Venus	75633-01-24 17:17 G	29345470.06	29345470.22	29345470.39	0.0134	0.0084
Venus	75633-09-07 22:19 G	29345696.33	29345696.43	29345696.54	0.0134	0.0116

Mercury	75635-12-18 05:31 G	29346527.71	29346527.73	29346527.78	0.0134	0.0131
Mercury	75636-03-15 10:34 G	29346615.86	29346615.94	29346616.05	0.0134	0.0109
Mercury	75636-06-11 15:36 G	29346704.03	29346704.15	29346704.28	0.0134	0.0087
Mercury	75636-09-07 20:24 G	29346792.22	29346792.35	29346792.50	0.0134	0.0065
Mercury	75636-12-05 01:27 G	29346880.41	29346880.56	29346880.71	0.0134	0.0044
Mercury	75637-03-03 06:15 G	29346968.60	29346968.76	29346968.92	0.0135	0.0022
Mercury	75637-05-30 11:03 G	29347056.80	29347056.96	29347057.12	0.0135	0.0002
Mercury	75637-08-26 15:36 G	29347145.00	29347145.15	29347145.31	0.0135	0.0021
Mercury	75637-11-22 20:24 G	29347233.20	29347233.35	29347233.50	0.0135	0.0041
Mercury	75638-02-19 01:12 G	29347321.41	29347321.55	29347321.69	0.0135	0.0062
Mercury	75638-05-18 05:31 G	29347409.61	29347409.73	29347409.86	0.0135	0.0083
Mercury	75638-08-14 10:05 G	29347497.83	29347497.92	29347498.03	0.0135	0.0104
Mercury	75638-11-10 14:39 G	29347586.06	29347586.11	29347586.18	0.0135	0.0124
Earth	75669-03-01 22:34 G	29358655.29	29358655.44	29358655.62	0.0144	0.0110
Moon	75669-03-02 00:15 G	29358655.34	29358655.51	29358655.71	0.0144	0.0103 *
Moon	75670-03-06 23:31 G	29359025.27	29359025.48	29359025.71	0.0144	0.0068
Earth	75670-03-07 02:10 G	29359025.36	29359025.59	29359025.83	0.0144	0.0060 *
Earth	75671-03-12 05:46 G	29359395.49	29359395.74	29359396.00	0.0144	0.0010
Moon	75671-03-12 08:39 G	29359395.60	29359395.86	29359396.13	0.0144	0.0006 *
Venus	75671-06-30 03:07 G	29359505.52	29359505.63	29359505.77	0.0144	0.0119
Venus	75672-02-11 16:05 G	29359731.99	29359732.17	29359732.36	0.0144	0.0077
Moon	75672-03-16 06:00 G	29359765.51	29359765.75	29359766.00	0.0144	0.0043
Earth	75672-03-16 09:22 G	29359765.66	29359765.89	29359766.15	0.0144	0.0042 *
Venus	75672-09-25 04:48 G	29359958.49	29359958.70	29359958.92	0.0144	0.0035
Earth	75673-03-21 13:12 G	29360135.86	29360136.05	29360136.26	0.0144	0.0091
Moon	75673-03-21 16:48 G	29360136.00	29360136.20	29360136.42	0.0144	0.0086 *
Venus	75673-05-09 17:31 G	29360185.01	29360185.23	29360185.45	0.0144	0.0006
Venus	75673-12-22 06:00 G	29360411.55	29360411.75	29360411.96	0.0144	0.0048
Earth	75674-03-26 16:34 G	29360506.16	29360506.19	29360506.27	0.0144	0.0142
Venus	75674-08-05 18:29 G	29360638.11	29360638.27	29360638.45	0.0144	0.0089

Venus	75675-03-20 06:43 G	29360864.70	29360864.78	29360864.89	0.0144	0.0130
Mercury	75677-03-27 18:58 G	29361603.22	29361603.29	29361603.37	0.0144	0.0122
Mercury	75677-06-23 23:46 G	29361691.39	29361691.49	29361691.61	0.0144	0.0098
Mercury	75677-09-20 04:48 G	29361779.58	29361779.70	29361779.84	0.0144	0.0074
Mercury	75677-12-17 09:51 G	29361867.77	29361867.91	29361868.06	0.0144	0.0049
Mercury	75678-03-15 14:53 G	29361955.97	29361956.12	29361956.27	0.0144	0.0024
Mercury	75678-06-11 19:55 G	29362044.18	29362044.33	29362044.49	0.0144	0.0003
Mercury	75678-09-08 00:58 G	29362132.39	29362132.54	29362132.70	0.0144	0.0026
Mercury	75678-12-05 06:15 G	29362220.62	29362220.76	29362220.91	0.0144	0.0051
Mercury	75679-03-03 11:31 G	29362308.84	29362308.98	29362309.11	0.0144	0.0076
Mercury	75679-05-30 16:34 G	29362397.08	29362397.19	29362397.30	0.0144	0.0102
Mercury	75679-08-26 21:36 G	29362485.34	29362485.40	29362485.48	0.0144	0.0128
Mars	75693-02-01 22:05 G	29367393.14	29367393.42	29367393.71	0.0139	0.0019
Moon	75709-08-30 14:10 G	29373446.01	29373446.09	29373446.18	0.0134	0.0126
Earth	75709-08-30 15:51 G	29373446.14	29373446.16	29373446.18	0.0134	0.0134 *
Earth	75710-09-03 21:22 G	29373815.22	29373815.39	29373815.58	0.0134	0.0095
Moon	75710-09-03 22:19 G	29373815.28	29373815.43	29373815.59	0.0134	0.0101 *
Moon	75711-09-08 01:55 G	29374184.35	29374184.58	29374184.83	0.0134	0.0051
Earth	75711-09-08 03:22 G	29374184.41	29374184.64	29374184.87	0.0134	0.0056 *
Earth	75712-09-11 08:39 G	29374553.62	29374553.86	29374554.11	0.0134	0.0018
Moon	75712-09-11 09:36 G	29374553.67	29374553.90	29374554.15	0.0134	0.0020 *
Venus	75713-01-06 23:17 G	29374671.40	29374671.47	29374671.57	0.0134	0.0122
Venus	75713-08-21 04:19 G	29374897.54	29374897.68	29374897.85	0.0134	0.0090
Moon	75713-09-15 13:27 G	29374922.81	29374923.06	29374923.32	0.0134	0.0021
Earth	75713-09-15 14:10 G	29374922.85	29374923.09	29374923.34	0.0134	0.0022 *
Venus	75714-04-04 09:22 G	29375123.71	29375123.89	29375124.10	0.0134	0.0058
Earth	75714-09-19 19:12 G	29375292.09	29375292.30	29375292.54	0.0134	0.0061
Moon	75714-09-19 20:24 G	29375292.15	29375292.35	29375292.57	0.0134	0.0064 *
Venus	75714-11-16 14:24 G	29375349.90	29375350.10	29375350.32	0.0134	0.0026
Venus	75715-06-30 19:41 G	29375576.11	29375576.32	29375576.54	0.0134	0.0007

Moon	75715-09-24 00:00 G	29375661.32	29375661.50	29375661.69	0.0134	0.0093
Earth	75715-09-24 00:29 G	29375661.36	29375661.52	29375661.70	0.0134	0.0099 *
Venus	75716-02-12 00:43 G	29375802.33	29375802.53	29375802.74	0.0134	0.0039
Venus	75716-09-25 05:31 G	29376028.56	29376028.73	29376028.92	0.0134	0.0072
Venus	75717-05-09 10:19 G	29376254.81	29376254.93	29376255.08	0.0134	0.0104
Mercury	75720-01-08 13:41 G	29377229.00	29377229.07	29377229.14	0.0134	0.0120
Mercury	75720-04-05 18:43 G	29377317.17	29377317.28	29377317.39	0.0134	0.0098
Mercury	75720-07-02 23:17 G	29377405.35	29377405.47	29377405.62	0.0134	0.0078
Mercury	75720-09-29 04:19 G	29377493.54	29377493.68	29377493.83	0.0134	0.0056
Mercury	75720-12-26 09:22 G	29377581.73	29377581.89	29377582.04	0.0134	0.0034
Mercury	75721-03-24 14:10 G	29377669.93	29377670.09	29377670.25	0.0134	0.0013
Mercury	75721-06-20 18:58 G	29377758.13	29377758.29	29377758.45	0.0135	0.0009
Mercury	75721-09-16 23:31 G	29377846.33	29377846.48	29377846.64	0.0135	0.0030
Mercury	75721-12-14 04:19 G	29377934.53	29377934.68	29377934.83	0.0135	0.0051
Mercury	75722-03-12 08:53 G	29378022.74	29378022.87	29378023.01	0.0135	0.0072
Mercury	75722-06-08 13:27 G	29378110.95	29378111.06	29378111.18	0.0135	0.0092
Mercury	75722-09-04 18:00 G	29378199.17	29378199.25	29378199.34	0.0135	0.0113
Mercury	75722-12-01 22:48 G	29378287.43	29378287.45	29378287.47	0.0135	0.0133
Mars	75737-04-20 11:03 G	29383540.64	29383540.96	29383541.30	0.0139	0.0032
Earth	75753-03-03 09:36 G	29389336.73	29389336.90	29389337.08	0.0144	0.0104
Moon	75753-03-03 10:48 G	29389336.79	29389336.95	29389337.13	0.0144	0.0111 *
Moon	75754-03-08 11:17 G	29389706.74	29389706.97	29389707.21	0.0144	0.0047
Earth	75754-03-08 12:43 G	29389706.80	29389707.03	29389707.28	0.0144	0.0054 *
Venus	75755-02-28 09:51 G	29390063.85	29390063.91	29390063.98	0.0144	0.0137
Earth	75755-03-13 16:34 G	29390076.94	29390077.19	29390077.45	0.0144	0.0004
Moon	75755-03-13 19:27 G	29390077.05	29390077.31	29390077.58	0.0144	0.0008 *
Venus	75755-10-12 22:19 G	29390290.28	29390290.43	29390290.60	0.0144	0.0096
Moon	75756-03-17 17:31 G	29390447.00	29390447.23	29390447.47	0.0144	0.0048
Earth	75756-03-17 20:24 G	29390447.11	29390447.35	29390447.60	0.0144	0.0048 *
Venus	75756-05-26 11:03 G	29390516.77	29390516.96	29390517.17	0.0144	0.0054

Venus	75757-01-08 00:00 G	29390743.28	29390743.50	29390743.72	0.0144	0.0013
Earth	75757-03-23 00:00 G	29390817.31	29390817.50	29390817.69	0.0144	0.0098
Moon	75757-03-23 03:36 G	29390817.47	29390817.65	29390817.83	0.0144	0.0104 *
Venus	75757-08-22 12:29 G	29390969.81	29390970.02	29390970.24	0.0144	0.0029
Moon	75758-03-28 00:15 G	29391187.45	29391187.51	29391187.57	0.0144	0.0140
Venus	75758-04-06 00:58 G	29391196.35	29391196.54	29391196.74	0.0144	0.0070
Venus	75758-11-18 13:27 G	29391422.93	29391423.06	29391423.20	0.0144	0.0112
Mercury	75761-01-19 21:22 G	29392216.36	29392216.39	29392216.44	0.0144	0.0139
Mercury	75761-04-18 02:24 G	29392304.52	29392304.60	29392304.70	0.0144	0.0114
Mercury	75761-07-15 07:12 G	29392392.69	29392392.80	29392392.93	0.0144	0.0090
Mercury	75761-10-11 12:15 G	29392480.88	29392481.01	29392481.15	0.0144	0.0066
Mercury	75762-01-07 17:17 G	29392569.08	29392569.22	29392569.37	0.0144	0.0041
Mercury	75762-04-05 22:19 G	29392657.28	29392657.43	29392657.59	0.0144	0.0016
Mercury	75762-07-03 03:22 G	29392745.49	29392745.64	29392745.80	0.0144	0.0009
Mercury	75762-09-29 08:39 G	29392833.71	29392833.86	29392834.01	0.0144	0.0034
Mercury	75762-12-26 13:41 G	29392921.93	29392922.07	29392922.21	0.0144	0.0059
Mercury	75763-03-24 18:43 G	29393010.16	29393010.28	29393010.41	0.0144	0.0085
Mercury	75763-06-21 00:00 G	29393098.41	29393098.50	29393098.60	0.0144	0.0110
Mercury	75763-09-17 05:17 G	29393186.68	29393186.72	29393186.77	0.0144	0.0136
Mars	75777-09-28 12:43 G	29398311.92	29398312.03	29398312.19	0.0139	0.0123
Moon	75793-08-31 04:05 G	29404127.66	29404127.67	29404127.70	0.0134	0.0134
Earth	75793-08-31 05:03 G	29404127.66	29404127.71	29404127.81	0.0134	0.0127 *
Earth	75794-09-04 11:17 G	29404496.79	29404496.97	29404497.17	0.0134	0.0088
Moon	75794-09-04 13:12 G	29404496.86	29404497.05	29404497.25	0.0134	0.0081 *
Moon	75795-09-08 15:36 G	29404865.92	29404866.15	29404866.40	0.0134	0.0054
Earth	75795-09-08 17:03 G	29404865.99	29404866.21	29404866.45	0.0134	0.0049 *
Earth	75796-09-11 22:48 G	29405235.20	29405235.45	29405235.70	0.0134	0.0010
Moon	75796-09-12 00:15 G	29405235.26	29405235.51	29405235.75	0.0134	0.0008 *
Venus	75797-04-20 16:34 G	29405456.07	29405456.19	29405456.35	0.0134	0.0103
Moon	75797-09-16 02:39 G	29405604.36	29405604.61	29405604.86	0.0134	0.0028

Earth	75797-09-16 04:05 G	29405604.43	29405604.67	29405604.92	0.0134	0.0029	*
Venus	75797-12-02 21:36 G	29405682.23	29405682.40	29405682.60	0.0134	0.0071	
Venus	75798-07-17 03:07 G	29405908.42	29405908.63	29405908.84	0.0134	0.0038	
Earth	75798-09-20 09:07 G	29405973.68	29405973.88	29405974.11	0.0134	0.0068	
Moon	75798-09-20 10:19 G	29405973.72	29405973.93	29405974.15	0.0134	0.0064	*
Venus	75799-02-28 07:55 G	29406134.62	29406134.83	29406135.05	0.0134	0.0007	
Moon	75799-09-24 12:29 G	29406342.90	29406343.02	29406343.18	0.0134	0.0111	
Earth	75799-09-24 14:10 G	29406342.95	29406343.09	29406343.26	0.0134	0.0106	*
Venus	75799-10-12 12:43 G	29406360.83	29406361.03	29406361.25	0.0134	0.0027	
Venus	75800-05-26 17:46 G	29406587.05	29406587.24	29406587.44	0.0134	0.0059	
Venus	75801-01-07 22:48 G	29406813.30	29406813.45	29406813.61	0.0134	0.0091	
Venus	75801-08-22 03:51 G	29407039.59	29407039.66	29407039.75	0.0134	0.0123	
Mercury	75803-11-02 16:34 G	29407842.17	29407842.19	29407842.22	0.0134	0.0132	
Mercury	75804-01-29 21:36 G	29407930.31	29407930.40	29407930.49	0.0134	0.0110	
Mercury	75804-04-27 02:39 G	29408018.49	29408018.61	29408018.73	0.0134	0.0089	
Mercury	75804-07-24 07:12 G	29408106.67	29408106.80	29408106.95	0.0134	0.0068	
Mercury	75804-10-20 12:15 G	29408194.86	29408195.01	29408195.17	0.0134	0.0046	
Mercury	75805-01-16 17:03 G	29408283.06	29408283.21	29408283.37	0.0134	0.0025	
Mercury	75805-04-14 22:05 G	29408371.26	29408371.42	29408371.58	0.0134	0.0004	
Mercury	75805-07-12 02:39 G	29408459.46	29408459.61	29408459.77	0.0134	0.0019	
Mercury	75805-10-08 07:27 G	29408547.66	29408547.81	29408547.96	0.0134	0.0039	
Mercury	75806-01-04 12:00 G	29408635.87	29408636.00	29408636.15	0.0135	0.0061	
Mercury	75806-04-02 16:34 G	29408724.08	29408724.19	29408724.33	0.0135	0.0082	
Mercury	75806-06-29 21:22 G	29408812.29	29408812.39	29408812.50	0.0135	0.0102	
Mercury	75806-09-26 01:41 G	29408900.52	29408900.57	29408900.65	0.0135	0.0123	
Earth	75837-03-04 20:53 G	29420018.20	29420018.37	29420018.58	0.0144	0.0098	
Moon	75837-03-04 21:36 G	29420018.21	29420018.40	29420018.62	0.0144	0.0090	*
Moon	75838-03-09 23:03 G	29420388.23	29420388.46	29420388.70	0.0144	0.0055	
Earth	75838-03-10 00:43 G	29420388.29	29420388.53	29420388.78	0.0144	0.0047	*
Earth	75839-03-15 04:19 G	29420758.42	29420758.68	29420758.94	0.0144	0.0004	

Moon	75839-03-15 06:15 G	29420758.49	29420758.76	29420759.02	0.0144	0.0009 *
Venus	75839-06-13 05:03 G	29420848.59	29420848.71	29420848.86	0.0144	0.0114
Venus	75840-01-25 18:15 G	29421075.07	29421075.26	29421075.45	0.0144	0.0073
Moon	75840-03-19 04:48 G	29421128.48	29421128.70	29421128.94	0.0144	0.0055
Earth	75840-03-19 07:55 G	29421128.59	29421128.83	29421129.07	0.0144	0.0055 *
Venus	75840-09-08 06:43 G	29421301.57	29421301.78	29421302.00	0.0144	0.0031
Earth	75841-03-24 11:03 G	29421498.81	29421498.96	29421499.16	0.0144	0.0106
Moon	75841-03-24 14:39 G	29421498.93	29421499.11	29421499.30	0.0144	0.0101 *
Venus	75841-04-22 19:27 G	29421528.09	29421528.31	29421528.53	0.0144	0.0010
Venus	75841-12-05 07:41 G	29421754.63	29421754.82	29421755.04	0.0144	0.0053
Venus	75842-07-19 20:10 G	29421981.19	29421981.34	29421981.52	0.0144	0.0094
Venus	75843-03-03 08:39 G	29422207.80	29422207.86	29422207.95	0.0144	0.0135
Mercury	75845-02-10 05:03 G	29422917.65	29422917.71	29422917.78	0.0144	0.0130
Mercury	75845-05-09 10:05 G	29423005.82	29423005.92	29423006.02	0.0144	0.0105
Mercury	75845-08-05 14:53 G	29423094.00	29423094.12	29423094.25	0.0144	0.0081
Mercury	75845-11-01 19:55 G	29423182.19	29423182.33	29423182.47	0.0144	0.0057
Mercury	75846-01-29 00:58 G	29423270.39	29423270.54	29423270.69	0.0144	0.0032
Mercury	75846-04-27 06:00 G	29423358.60	29423358.75	29423358.90	0.0144	0.0007
Mercury	75846-07-24 11:03 G	29423446.81	29423446.96	29423447.12	0.0144	0.0018
Mercury	75846-10-20 16:05 G	29423535.03	29423535.17	29423535.32	0.0144	0.0043
Mercury	75847-01-16 21:07 G	29423623.25	29423623.38	29423623.53	0.0144	0.0069
Mercury	75847-04-15 02:24 G	29423711.49	29423711.60	29423711.72	0.0144	0.0094
Mercury	75847-07-12 07:41 G	29423799.74	29423799.82	29423799.91	0.0144	0.0120
Mars	75860-06-24 04:34 G	29428530.51	29428530.69	29428530.91	0.0139	0.0098
Moon	75877-09-01 16:48 G	29434809.08	29434809.20	29434809.36	0.0134	0.0114
Earth	75877-09-01 19:27 G	29434809.21	29434809.31	29434809.43	0.0134	0.0120 *
Earth	75878-09-06 01:27 G	29435178.36	29435178.56	29435178.76	0.0134	0.0081
Moon	75878-09-06 02:53 G	29435178.45	29435178.62	29435178.82	0.0134	0.0088 *
Moon	75879-09-10 05:17 G	29435547.47	29435547.72	29435547.97	0.0134	0.0036
Earth	75879-09-10 07:27 G	29435547.57	29435547.81	29435548.05	0.0134	0.0042 *

Earth	75880-09-13 12:58 G	29435916.79	29435917.04	29435917.29	0.0134	0.0003
Moon	75880-09-13 14:53 G	29435916.87	29435917.12	29435917.36	0.0134	0.0007 *
Venus	75880-12-20 05:17 G	29436014.62	29436014.72	29436014.84	0.0134	0.0115
Venus	75881-08-03 10:19 G	29436240.77	29436240.93	29436241.11	0.0134	0.0083
Moon	75881-09-17 16:19 G	29436285.94	29436286.18	29436286.44	0.0134	0.0036
Earth	75881-09-17 18:15 G	29436286.02	29436286.26	29436286.50	0.0134	0.0036 *
Venus	75882-03-17 15:22 G	29436466.94	29436467.14	29436467.34	0.0134	0.0051
Earth	75882-09-21 23:03 G	29436655.27	29436655.46	29436655.68	0.0134	0.0075
Moon	75882-09-22 01:12 G	29436655.36	29436655.55	29436655.76	0.0134	0.0077 *
Venus	75882-10-29 20:10 G	29436693.13	29436693.34	29436693.56	0.0134	0.0019
Venus	75883-06-13 01:27 G	29436919.34	29436919.56	29436919.77	0.0134	0.0014
Moon	75883-09-26 02:24 G	29437024.47	29437024.60	29437024.77	0.0134	0.0108
Earth	75883-09-26 04:19 G	29437024.55	29437024.68	29437024.82	0.0134	0.0113 *
Venus	75884-01-25 06:15 G	29437145.56	29437145.76	29437145.97	0.0134	0.0046
Venus	75884-09-07 11:17 G	29437371.80	29437371.97	29437372.15	0.0134	0.0078
Venus	75885-04-21 15:51 G	29437598.06	29437598.16	29437598.30	0.0134	0.0111
Mercury	75887-11-23 00:29 G	29438543.46	29438543.52	29438543.59	0.0134	0.0122
Mercury	75888-02-19 05:31 G	29438631.63	29438631.73	29438631.84	0.0134	0.0100
Mercury	75888-05-17 10:34 G	29438719.81	29438719.94	29438720.07	0.0134	0.0078
Mercury	75888-08-13 15:22 G	29438808.00	29438808.14	29438808.29	0.0134	0.0057
Mercury	75888-11-09 20:10 G	29438896.19	29438896.34	29438896.50	0.0134	0.0036
Mercury	75889-02-06 01:12 G	29438984.39	29438984.55	29438984.71	0.0134	0.0014
Mercury	75889-05-05 06:00 G	29439072.59	29439072.75	29439072.91	0.0134	0.0008
Mercury	75889-08-01 10:34 G	29439160.79	29439160.94	29439161.10	0.0134	0.0029
Mercury	75889-10-28 15:22 G	29439248.99	29439249.14	29439249.29	0.0134	0.0050
Mercury	75890-01-24 19:55 G	29439337.20	29439337.33	29439337.47	0.0134	0.0071
Mercury	75890-04-23 00:29 G	29439425.42	29439425.52	29439425.65	0.0135	0.0092
Mercury	75890-07-20 05:17 G	29439513.64	29439513.72	29439513.81	0.0135	0.0112
Mercury	75890-10-16 09:36 G	29439601.89	29439601.90	29439601.94	0.0135	0.0133
Mars	75904-09-07 04:48 G	29444675.40	29444675.70	29444675.99	0.0139	0.0067

Earth	75920-03-01 04:19 G	29450329.63	29450329.68	29450329.74	0.0144	0.0140
Moon	75920-03-01 04:48 G	29450329.65	29450329.70	29450329.78	0.0144	0.0138 *
Earth	75921-03-06 06:58 G	29450699.60	29450699.79	29450700.00	0.0144	0.0091
Moon	75921-03-06 06:58 G	29450699.61	29450699.79	29450700.00	0.0144	0.0098 *
Moon	75922-03-11 09:36 G	29451069.67	29451069.90	29451070.16	0.0144	0.0035
Earth	75922-03-11 10:19 G	29451069.69	29451069.93	29451070.18	0.0144	0.0041 *
Venus	75923-02-11 10:48 G	29451406.88	29451406.95	29451407.05	0.0144	0.0133
Earth	75923-03-16 13:41 G	29451439.82	29451440.07	29451440.33	0.0144	0.0010
Moon	75923-03-16 15:36 G	29451439.89	29451440.15	29451440.42	0.0144	0.0005 *
Venus	75923-09-25 23:31 G	29451633.32	29451633.48	29451633.66	0.0144	0.0092
Moon	75924-03-20 15:22 G	29451809.92	29451810.14	29451810.37	0.0144	0.0063
Earth	75924-03-20 17:03 G	29451809.99	29451810.21	29451810.45	0.0144	0.0061 *
Venus	75924-05-09 12:15 G	29451859.81	29451860.01	29451860.22	0.0144	0.0051
Venus	75924-12-22 00:58 G	29452086.32	29452086.54	29452086.76	0.0144	0.0009
Earth	75925-03-25 20:39 G	29452180.20	29452180.36	29452180.53	0.0144	0.0111
Moon	75925-03-25 23:17 G	29452180.33	29452180.47	29452180.65	0.0144	0.0116 *
Venus	75925-08-05 13:27 G	29452312.85	29452313.06	29452313.28	0.0144	0.0032
Venus	75926-03-20 01:55 G	29452539.39	29452539.58	29452539.77	0.0144	0.0074
Venus	75926-11-01 14:10 G	29452765.97	29452766.09	29452766.23	0.0144	0.0115
Mercury	75929-03-03 12:00 G	29453618.94	29453619.00	29453619.09	0.0144	0.0123
Mercury	75929-05-30 17:03 G	29453707.11	29453707.21	29453707.32	0.0144	0.0099
Mercury	75929-08-26 22:05 G	29453795.29	29453795.42	29453795.55	0.0144	0.0074
Mercury	75929-11-23 02:53 G	29453883.48	29453883.62	29453883.77	0.0144	0.0050
Mercury	75930-02-19 07:55 G	29453971.69	29453971.83	29453971.99	0.0144	0.0026
Mercury	75930-05-18 13:12 G	29454059.89	29454060.05	29454060.20	0.0144	0.0004
Mercury	75930-08-14 18:15 G	29454148.11	29454148.26	29454148.41	0.0144	0.0025
Mercury	75930-11-10 23:17 G	29454236.33	29454236.47	29454236.62	0.0144	0.0050
Mercury	75931-02-07 04:19 G	29454324.55	29454324.68	29454324.82	0.0144	0.0075
Mercury	75931-05-06 09:36 G	29454412.79	29454412.90	29454413.01	0.0144	0.0101
Mercury	75931-08-02 14:39 G	29454501.05	29454501.11	29454501.19	0.0144	0.0127

Mars	75945-02-17 17:17 G	29459448.96	29459449.22	29459449.50	0.0139	0.0042
Moon	75961-09-03 06:00 G	29465490.67	29465490.75	29465490.88	0.0134	0.0121
Earth	75961-09-03 08:24 G	29465490.74	29465490.85	29465491.00	0.0134	0.0114 *
Earth	75962-09-07 14:39 G	29465859.92	29465860.11	29465860.33	0.0134	0.0075
Moon	75962-09-07 17:17 G	29465860.02	29465860.22	29465860.44	0.0134	0.0068 *
Moon	75963-09-11 18:29 G	29466229.03	29466229.27	29466229.52	0.0134	0.0041
Earth	75963-09-11 20:39 G	29466229.13	29466229.36	29466229.61	0.0134	0.0036 *
Venus	75964-08-20 17:17 G	29466573.17	29466573.22	29466573.30	0.0134	0.0128
Earth	75964-09-15 02:24 G	29466598.35	29466598.60	29466598.85	0.0134	0.0004
Moon	75964-09-15 04:34 G	29466598.45	29466598.69	29466598.94	0.0134	0.0007 *
Venus	75965-04-03 22:20 G	29466799.29	29466799.43	29466799.59	0.0134	0.0096
Moon	75965-09-19 05:03 G	29466967.47	29466967.71	29466967.96	0.0134	0.0041
Earth	75965-09-19 07:41 G	29466967.59	29466967.82	29466968.06	0.0134	0.0043 *
Venus	75965-11-16 03:08 G	29467025.46	29467025.63	29467025.84	0.0134	0.0064
Venus	75966-06-30 08:39 G	29467251.65	29467251.86	29467252.07	0.0134	0.0031
Earth	75966-09-23 12:29 G	29467336.84	29467337.02	29467337.23	0.0134	0.0082
Moon	75966-09-23 14:24 G	29467336.92	29467337.10	29467337.31	0.0134	0.0079 *
Venus	75967-02-11 13:27 G	29467477.85	29467478.06	29467478.28	0.0134	0.0003
Venus	75967-09-25 18:29 G	29467704.06	29467704.27	29467704.48	0.0134	0.0033
Moon	75967-09-27 15:08 G	29467706.05	29467706.13	29467706.24	0.0134	0.0124
Earth	75967-09-27 17:32 G	29467706.14	29467706.23	29467706.36	0.0134	0.0120 *
Venus	75968-05-08 23:03 G	29467930.29	29467930.46	29467930.66	0.0134	0.0066
Venus	75968-12-21 04:05 G	29468156.54	29468156.67	29468156.83	0.0134	0.0098
Venus	75969-08-04 09:08 G	29468382.85	29468382.88	29468382.95	0.0134	0.0130
Mercury	75971-09-17 03:22 G	29469156.64	29469156.64	29469156.66	0.0134	0.0134
Mercury	75971-12-14 08:24 G	29469244.77	29469244.85	29469244.95	0.0134	0.0112
Mercury	75972-03-11 13:27 G	29469332.95	29469333.06	29469333.18	0.0134	0.0090
Mercury	75972-06-07 18:29 G	29469421.13	29469421.27	29469421.41	0.0134	0.0068
Mercury	75972-09-03 23:17 G	29469509.32	29469509.47	29469509.63	0.0134	0.0047
Mercury	75972-12-01 04:05 G	29469597.52	29469597.67	29469597.84	0.0134	0.0026

Mercury	75973-02-27 09:08 G	29469685.72	29469685.88	29469686.04	0.0134	0.0004
Mercury	75973-05-26 13:56 G	29469773.92	29469774.08	29469774.24	0.0134	0.0018
Mercury	75973-08-22 18:29 G	29469862.12	29469862.27	29469862.43	0.0134	0.0039
Mercury	75973-11-18 23:17 G	29469950.33	29469950.47	29469950.61	0.0134	0.0060
Mercury	75974-02-15 03:51 G	29470038.54	29470038.66	29470038.79	0.0134	0.0081
Mercury	75974-05-14 08:24 G	29470126.76	29470126.85	29470126.96	0.0135	0.0102
Mercury	75974-08-10 13:12 G	29470214.99	29470215.05	29470215.12	0.0135	0.0122
Mars	75989-05-04 12:58 G	29475595.86	29475596.04	29475596.27	0.0139	0.0111

77TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 77th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	76004-03-01 16:20 G		29481011.11	29481011.18	29481011.29	0.0144	0.0134	
Moon	76004-03-01 17:46 G		29481011.18	29481011.24	29481011.33	0.0144	0.0137	*
Moon	76005-03-06 18:29 G		29481381.05	29481381.27	29481381.50	0.0144	0.0079	
Earth	76005-03-06 19:12 G		29481381.10	29481381.30	29481381.52	0.0144	0.0084	*
Moon	76006-03-11 21:51 G		29481751.18	29481751.41	29481751.66	0.0144	0.0042	
Earth	76006-03-11 22:20 G		29481751.19	29481751.43	29481751.69	0.0144	0.0034	*
Earth	76007-03-17 01:41 G		29482121.32	29482121.57	29482121.83	0.0144	0.0017	
Moon	76007-03-17 02:10 G		29482121.34	29482121.59	29482121.87	0.0144	0.0024	*
Venus	76007-05-26 06:29 G		29482191.64	29482191.77	29482191.92	0.0144	0.0110	
Venus	76008-01-07 19:27 G		29482418.12	29482418.31	29482418.51	0.0144	0.0069	
Moon	76008-03-21 02:53 G		29482491.41	29482491.62	29482491.85	0.0144	0.0067	

Earth	76008-03-21 04:48 G	29482491.48	29482491.70	29482491.94	0.0144	0.0068	*
Venus	76008-08-21 07:56 G	29482644.62	29482644.83	29482645.05	0.0144	0.0028	
Earth	76009-03-26 08:10 G	29482861.71	29482861.84	29482862.01	0.0144	0.0118	
Moon	76009-03-26 10:34 G	29482861.79	29482861.94	29482862.11	0.0144	0.0115	*
Venus	76009-04-04 20:24 G	29482871.14	29482871.35	29482871.57	0.0144	0.0015	
Venus	76009-11-17 08:53 G	29483097.67	29483097.87	29483098.08	0.0144	0.0056	
Venus	76010-07-01 21:22 G	29483324.23	29483324.39	29483324.56	0.0144	0.0097	
Venus	76011-02-13 09:51 G	29483550.85	29483550.91	29483550.98	0.0144	0.0138	
Mercury	76012-12-25 14:53 G	29484232.09	29484232.12	29484232.17	0.0144	0.0138	
Mercury	76013-03-23 19:41 G	29484320.24	29484320.32	29484320.42	0.0144	0.0114	
Mercury	76013-06-20 00:29 G	29484408.42	29484408.52	29484408.65	0.0144	0.0090	
Mercury	76013-09-16 05:46 G	29484496.60	29484496.74	29484496.87	0.0144	0.0065	
Mercury	76013-12-13 10:34 G	29484584.80	29484584.94	29484585.09	0.0144	0.0041	
Mercury	76014-03-11 15:36 G	29484673.00	29484673.15	29484673.31	0.0144	0.0016	
Mercury	76014-06-07 20:39 G	29484761.21	29484761.36	29484761.52	0.0144	0.0010	
Mercury	76014-09-04 01:56 G	29484849.43	29484849.58	29484849.73	0.0144	0.0034	
Mercury	76014-12-01 06:44 G	29484937.65	29484937.78	29484937.93	0.0144	0.0060	
Mercury	76015-02-27 12:00 G	29485025.88	29485026.00	29485026.13	0.0144	0.0085	
Mercury	76015-05-26 17:03 G	29485114.13	29485114.21	29485114.32	0.0144	0.0111	
Mercury	76015-08-22 22:34 G	29485202.40	29485202.44	29485202.49	0.0144	0.0136	
Moon	76045-09-03 18:44 G	29496172.13	29496172.28	29496172.47	0.0134	0.0102	
Earth	76045-09-03 21:51 G	29496172.28	29496172.41	29496172.58	0.0134	0.0108	*
Earth	76046-09-08 04:20 G	29496541.47	29496541.68	29496541.90	0.0134	0.0068	
Moon	76046-09-08 06:44 G	29496541.58	29496541.78	29496541.99	0.0134	0.0076	*
Moon	76047-09-12 07:12 G	29496910.55	29496910.80	29496911.06	0.0134	0.0023	
Earth	76047-09-12 10:05 G	29496910.68	29496910.92	29496911.17	0.0134	0.0029	*
Earth	76048-09-15 15:51 G	29497279.91	29497280.16	29497280.41	0.0134	0.0010	
Moon	76048-09-15 18:29 G	29497280.02	29497280.27	29497280.51	0.0134	0.0006	*
Venus	76048-12-02 10:34 G	29497357.82	29497357.94	29497358.07	0.0134	0.0108	
Venus	76049-07-16 15:36 G	29497583.98	29497584.15	29497584.33	0.0134	0.0076	

Moon	76049-09-19 18:15 G	29497649.03	29497649.26	29497649.51	0.0134	0.0050
Earth	76049-09-19 20:53 G	29497649.15	29497649.37	29497649.61	0.0134	0.0049 *
Venus	76050-02-27 20:24 G	29497810.16	29497810.35	29497810.56	0.0134	0.0044
Earth	76050-09-24 01:56 G	29498018.40	29498018.58	29498018.78	0.0134	0.0088
Moon	76050-09-24 04:48 G	29498018.53	29498018.70	29498018.89	0.0134	0.0089 *
Venus	76050-10-12 01:27 G	29498036.35	29498036.56	29498036.78	0.0134	0.0012
Venus	76051-05-26 06:15 G	29498262.56	29498262.76	29498262.98	0.0134	0.0021
Moon	76051-09-28 04:48 G	29498387.60	29498387.70	29498387.82	0.0134	0.0121
Earth	76051-09-28 07:12 G	29498387.73	29498387.80	29498387.89	0.0134	0.0126 *
Venus	76052-01-07 11:17 G	29498488.78	29498488.97	29498489.18	0.0134	0.0053
Venus	76052-08-20 16:20 G	29498715.02	29498715.18	29498715.35	0.0134	0.0085
Venus	76053-04-03 21:22 G	29498941.30	29498941.39	29498941.50	0.0134	0.0117
Mercury	76055-10-07 11:17 G	29499857.92	29499857.97	29499858.04	0.0134	0.0124
Mercury	76056-01-03 16:20 G	29499946.08	29499946.18	29499946.29	0.0134	0.0102
Mercury	76056-03-31 21:22 G	29500034.27	29500034.39	29500034.53	0.0134	0.0080
Mercury	76056-06-28 02:24 G	29500122.46	29500122.60	29500122.75	0.0134	0.0058
Mercury	76056-09-24 07:12 G	29500210.65	29500210.80	29500210.96	0.0134	0.0037
Mercury	76056-12-21 12:15 G	29500298.85	29500299.01	29500299.17	0.0134	0.0015
Mercury	76057-03-19 17:03 G	29500387.05	29500387.21	29500387.37	0.0134	0.0006
Mercury	76057-06-15 21:51 G	29500475.25	29500475.41	29500475.57	0.0134	0.0027
Mercury	76057-09-12 02:24 G	29500563.46	29500563.60	29500563.76	0.0134	0.0049
Mercury	76057-12-09 07:12 G	29500651.67	29500651.80	29500651.94	0.0134	0.0070
Mercury	76058-03-07 11:46 G	29500739.88	29500739.99	29500740.11	0.0135	0.0091
Mercury	76058-06-03 16:34 G	29500828.11	29500828.19	29500828.28	0.0135	0.0111
Mercury	76058-08-30 21:08 G	29500916.36	29500916.38	29500916.42	0.0135	0.0132
Earth	76088-03-02 04:48 G	29511692.59	29511692.70	29511692.82	0.0144	0.0127
Moon	76088-03-02 06:29 G	29511692.67	29511692.77	29511692.90	0.0144	0.0126 *
Moon	76089-03-07 06:00 G	29512062.55	29512062.75	29512062.98	0.0144	0.0084
Earth	76089-03-07 07:12 G	29512062.60	29512062.80	29512063.03	0.0144	0.0078 *
Earth	76090-03-12 10:20 G	29512432.68	29512432.93	29512433.18	0.0144	0.0028

Moon	76090-03-12 11:03 G	29512432.71	29512432.96	29512433.20	0.0144	0.0020	*
Venus	76091-01-23 13:41 G	29512749.98	29512750.07	29512750.18	0.0144	0.0128	
Earth	76091-03-17 13:12 G	29512802.80	29512803.05	29512803.30	0.0144	0.0023	
Moon	76091-03-17 13:56 G	29512802.81	29512803.08	29512803.34	0.0144	0.0017	*
Venus	76091-09-07 02:24 G	29512976.42	29512976.60	29512976.77	0.0144	0.0087	
Moon	76092-03-21 15:36 G	29513172.94	29513173.15	29513173.36	0.0144	0.0077	
Earth	76092-03-21 16:20 G	29513172.96	29513173.18	29513173.41	0.0144	0.0073	*
Venus	76092-04-20 14:39 G	29513202.91	29513203.11	29513203.32	0.0144	0.0046	
Venus	76092-12-03 03:08 G	29513429.42	29513429.63	29513429.85	0.0144	0.0005	
Earth	76093-03-26 19:27 G	29513543.19	29513543.31	29513543.45	0.0144	0.0124	
Moon	76093-03-26 21:36 G	29513543.28	29513543.40	29513543.53	0.0144	0.0127	*
Venus	76093-07-17 15:36 G	29513655.94	29513656.15	29513656.37	0.0144	0.0037	
Venus	76094-03-01 04:05 G	29513882.49	29513882.67	29513882.86	0.0144	0.0078	
Venus	76094-10-13 16:20 G	29514109.07	29514109.18	29514109.31	0.0144	0.0120	
Mercury	76097-01-14 22:20 G	29514933.38	29514933.43	29514933.50	0.0144	0.0130	
Mercury	76097-04-13 03:08 G	29515021.54	29515021.63	29515021.74	0.0144	0.0106	
Mercury	76097-07-10 08:10 G	29515109.72	29515109.84	29515109.97	0.0144	0.0082	
Mercury	76097-10-06 13:12 G	29515197.91	29515198.05	29515198.19	0.0144	0.0057	
Mercury	76098-01-02 18:00 G	29515286.11	29515286.25	29515286.40	0.0144	0.0033	
Mercury	76098-03-31 23:03 G	29515374.31	29515374.46	29515374.62	0.0144	0.0009	
Mercury	76098-06-28 04:05 G	29515462.52	29515462.67	29515462.83	0.0144	0.0018	
Mercury	76098-09-24 09:08 G	29515550.74	29515550.88	29515551.03	0.0144	0.0043	
Mercury	76098-12-21 14:24 G	29515638.96	29515639.10	29515639.24	0.0144	0.0068	
Mercury	76099-03-19 19:27 G	29515727.20	29515727.31	29515727.43	0.0144	0.0093	
Mercury	76099-06-16 00:44 G	29515815.45	29515815.53	29515815.62	0.0144	0.0119	
Mars	76112-07-08 19:41 G	29520586.06	29520586.32	29520586.60	0.0139	0.0041	
Moon	76129-09-05 07:41 G	29526853.68	29526853.82	29526853.98	0.0134	0.0109	
Earth	76129-09-05 10:48 G	29526853.79	29526853.95	29526854.12	0.0134	0.0102	*
Earth	76130-09-09 16:48 G	29527222.99	29527223.20	29527223.43	0.0134	0.0063	
Moon	76130-09-09 19:56 G	29527223.12	29527223.33	29527223.57	0.0134	0.0056	*

Moon	76131-09-13 19:56 G	29527592.08	29527592.33	29527592.58	0.0134	0.0029
Earth	76131-09-13 22:48 G	29527592.21	29527592.45	29527592.70	0.0134	0.0023 *
Venus	76132-08-02 22:05 G	29527916.34	29527916.42	29527916.52	0.0134	0.0121
Earth	76132-09-17 04:20 G	29527961.43	29527961.68	29527961.93	0.0134	0.0016
Moon	76132-09-17 07:12 G	29527961.56	29527961.80	29527962.05	0.0134	0.0021 *
Venus	76133-03-17 03:08 G	29528142.48	29528142.63	29528142.80	0.0134	0.0089
Moon	76133-09-21 06:29 G	29528330.54	29528330.77	29528331.01	0.0134	0.0053
Earth	76133-09-21 09:36 G	29528330.68	29528330.90	29528331.14	0.0134	0.0056 *
Venus	76133-10-29 07:56 G	29528368.65	29528368.83	29528369.04	0.0134	0.0057
Venus	76134-06-12 12:58 G	29528594.84	29528595.04	29528595.26	0.0134	0.0025
Earth	76134-09-25 14:39 G	29528699.94	29528700.11	29528700.30	0.0134	0.0094
Moon	76134-09-25 17:17 G	29528700.06	29528700.22	29528700.41	0.0134	0.0092 *
Venus	76135-01-24 18:15 G	29528821.04	29528821.26	29528821.47	0.0134	0.0008
Venus	76135-09-07 23:03 G	29529047.26	29529047.46	29529047.67	0.0134	0.0040
Earth	76135-09-29 19:56 G	29529069.31	29529069.33	29529069.38	0.0134	0.0132
Venus	76136-04-21 04:05 G	29529273.49	29529273.67	29529273.85	0.0134	0.0072
Venus	76136-12-03 09:08 G	29529499.75	29529499.88	29529500.02	0.0134	0.0104
Mercury	76139-10-28 19:12 G	29530559.22	29530559.30	29530559.39	0.0134	0.0115
Mercury	76140-01-25 00:15 G	29530647.40	29530647.51	29530647.63	0.0134	0.0093
Mercury	76140-04-22 05:17 G	29530735.58	29530735.72	29530735.86	0.0134	0.0071
Mercury	76140-07-19 10:05 G	29530823.78	29530823.92	29530824.08	0.0134	0.0049
Mercury	76140-10-15 15:08 G	29530911.97	29530912.13	29530912.29	0.0134	0.0027
Mercury	76141-01-11 19:56 G	29531000.17	29531000.33	29531000.49	0.0134	0.0006
Mercury	76141-04-10 00:44 G	29531088.37	29531088.53	29531088.69	0.0134	0.0016
Mercury	76141-07-07 05:32 G	29531176.58	29531176.73	29531176.89	0.0134	0.0037
Mercury	76141-10-03 10:20 G	29531264.79	29531264.93	29531265.08	0.0135	0.0058
Mercury	76141-12-30 15:08 G	29531353.00	29531353.13	29531353.26	0.0135	0.0079
Mercury	76142-03-28 19:41 G	29531441.22	29531441.32	29531441.43	0.0135	0.0100
Mercury	76142-06-25 00:00 G	29531529.45	29531529.50	29531529.59	0.0135	0.0121
Mars	76156-09-20 12:29 G	29536730.70	29536731.02	29536731.36	0.0139	0.0019

Earth	76172-03-03 18:15 G	29542374.13	29542374.26	29542374.41	0.0144	0.0120
Moon	76172-03-03 20:39 G	29542374.24	29542374.36	29542374.50	0.0144	0.0122 *
Moon	76173-03-08 18:44 G	29542744.06	29542744.28	29542744.53	0.0144	0.0066
Earth	76173-03-08 20:39 G	29542744.15	29542744.36	29542744.60	0.0144	0.0071 *
Earth	76174-03-13 23:32 G	29543114.23	29543114.48	29543114.74	0.0144	0.0020
Moon	76174-03-14 00:15 G	29543114.27	29543114.51	29543114.76	0.0144	0.0028 *
Moon	76175-03-19 01:41 G	29543484.32	29543484.57	29543484.84	0.0144	0.0037
Earth	76175-03-19 02:24 G	29543484.35	29543484.60	29543484.86	0.0144	0.0030 *
Venus	76175-05-08 10:05 G	29543534.77	29543534.92	29543535.08	0.0144	0.0104
Venus	76175-12-20 22:34 G	29543761.25	29543761.44	29543761.65	0.0144	0.0063
Moon	76176-03-23 04:48 G	29543854.49	29543854.70	29543854.90	0.0144	0.0079
Earth	76176-03-23 05:32 G	29543854.52	29543854.73	29543854.95	0.0144	0.0081 *
Venus	76176-08-03 11:17 G	29543987.75	29543987.97	29543988.19	0.0144	0.0021
Venus	76177-03-17 23:32 G	29544214.27	29544214.48	29544214.70	0.0144	0.0021
Earth	76177-03-28 08:53 G	29544224.77	29544224.87	29544224.98	0.0144	0.0131
Moon	76177-03-28 10:05 G	29544224.80	29544224.92	29544225.04	0.0144	0.0129 *
Venus	76177-10-30 12:00 G	29544440.80	29544441.00	29544441.20	0.0144	0.0061
Venus	76178-06-14 00:15 G	29544667.37	29544667.51	29544667.67	0.0144	0.0103
Venus	76179-01-26 12:44 G	29544894.02	29544894.03	29544894.07	0.0144	0.0143
Mercury	76180-11-09 01:41 G	29545546.56	29545546.57	29545546.58	0.0144	0.0143
Mercury	76181-02-05 06:15 G	29545634.69	29545634.76	29545634.85	0.0144	0.0120
Mercury	76181-05-04 11:03 G	29545722.86	29545722.96	29545723.08	0.0144	0.0096
Mercury	76181-07-31 16:05 G	29545811.04	29545811.17	29545811.31	0.0144	0.0071
Mercury	76181-10-27 21:08 G	29545899.24	29545899.38	29545899.52	0.0144	0.0047
Mercury	76182-01-24 01:56 G	29545987.44	29545987.58	29545987.74	0.0144	0.0023
Mercury	76182-04-22 07:12 G	29546075.64	29546075.80	29546075.95	0.0144	0.0005
Mercury	76182-07-19 12:00 G	29546163.86	29546164.00	29546164.16	0.0144	0.0028
Mercury	76182-10-15 17:17 G	29546252.08	29546252.22	29546252.36	0.0144	0.0053
Mercury	76183-01-11 22:20 G	29546340.30	29546340.43	29546340.56	0.0144	0.0078
Mercury	76183-04-10 03:22 G	29546428.54	29546428.64	29546428.75	0.0144	0.0104

Mercury	76183-07-07 08:39 G	29546516.80	29546516.86	29546516.93	0.0144	0.0129
Mars	76197-03-03 12:29 G	29551504.85	29551505.02	29551505.24	0.0139	0.0103
Moon	76213-09-06 19:56 G	29557535.16	29557535.33	29557535.54	0.0134	0.0090
Earth	76213-09-06 23:46 G	29557535.32	29557535.49	29557535.67	0.0134	0.0096 *
Earth	76214-09-11 05:32 G	29557904.52	29557904.73	29557904.97	0.0134	0.0056
Moon	76214-09-11 08:39 G	29557904.66	29557904.86	29557905.09	0.0134	0.0064 *
Moon	76215-09-15 08:10 G	29558273.59	29558273.84	29558274.09	0.0134	0.0009
Earth	76215-09-15 11:32 G	29558273.74	29558273.98	29558274.24	0.0134	0.0017 *
Venus	76216-04-03 10:05 G	29558474.92	29558474.92	29558474.92	0.0134	0.0134
Earth	76216-09-18 17:03 G	29558642.97	29558643.21	29558643.46	0.0134	0.0023
Moon	76216-09-18 20:24 G	29558643.11	29558643.35	29558643.60	0.0134	0.0018 *
Venus	76216-11-15 14:39 G	29558700.98	29558701.11	29558701.26	0.0134	0.0102
Venus	76217-06-29 19:41 G	29558927.15	29558927.32	29558927.52	0.0134	0.0070
Moon	76217-09-22 19:12 G	29559012.08	29559012.30	29559012.53	0.0134	0.0063
Earth	76217-09-22 22:05 G	29559012.22	29559012.42	29559012.66	0.0134	0.0062 *
Venus	76218-02-11 00:44 G	29559153.33	29559153.53	29559153.75	0.0134	0.0038
Venus	76218-09-25 05:46 G	29559379.53	29559379.74	29559379.96	0.0134	0.0006
Earth	76218-09-27 03:36 G	29559381.49	29559381.65	29559381.82	0.0134	0.0100
Moon	76218-09-27 06:44 G	29559381.64	29559381.78	29559381.96	0.0134	0.0101 *
Venus	76219-05-09 10:48 G	29559605.74	29559605.95	29559606.16	0.0134	0.0027
Venus	76219-12-21 15:36 G	29559831.97	29559832.15	29559832.35	0.0134	0.0059
Venus	76220-08-03 20:53 G	29560058.22	29560058.37	29560058.53	0.0134	0.0091
Venus	76221-03-18 02:10 G	29560284.51	29560284.59	29560284.67	0.0134	0.0124
Mercury	76223-08-22 21:51 G	29561172.37	29561172.41	29561172.47	0.0134	0.0127
Mercury	76223-11-19 02:53 G	29561260.53	29561260.62	29561260.73	0.0134	0.0105
Mercury	76224-02-15 07:56 G	29561348.71	29561348.83	29561348.96	0.0134	0.0083
Mercury	76224-05-13 12:58 G	29561436.90	29561437.04	29561437.19	0.0134	0.0061
Mercury	76224-08-09 18:00 G	29561525.09	29561525.25	29561525.40	0.0134	0.0040
Mercury	76224-11-05 22:48 G	29561613.29	29561613.45	29561613.61	0.0134	0.0018
Mercury	76225-02-02 03:51 G	29561701.50	29561701.66	29561701.82	0.0134	0.0005

Mercury	76225-05-01 08:39 G	29561789.70	29561789.86	29561790.02	0.0134	0.0025
Mercury	76225-07-28 13:12 G	29561877.91	29561878.05	29561878.21	0.0135	0.0046
Mercury	76225-10-24 18:00 G	29561966.12	29561966.25	29561966.39	0.0135	0.0067
Mercury	76226-01-20 22:48 G	29562054.33	29562054.45	29562054.57	0.0135	0.0088
Mercury	76226-04-19 03:22 G	29562142.56	29562142.64	29562142.74	0.0135	0.0109
Mercury	76226-07-16 07:56 G	29562230.80	29562230.83	29562230.88	0.0135	0.0129
Earth	76256-03-05 05:46 G	29573055.61	29573055.74	29573055.92	0.0144	0.0114
Moon	76256-03-05 08:53 G	29573055.72	29573055.87	29573056.03	0.0144	0.0113 *
Moon	76257-03-10 06:00 G	29573425.54	29573425.75	29573426.00	0.0144	0.0070
Earth	76257-03-10 08:24 G	29573425.63	29573425.85	29573426.09	0.0144	0.0064 *
Earth	76258-03-15 11:03 G	29573795.71	29573795.96	29573796.22	0.0144	0.0014
Moon	76258-03-15 12:58 G	29573795.79	29573796.04	29573796.29	0.0144	0.0007 *
Venus	76259-01-06 17:03 G	29574093.10	29574093.21	29574093.33	0.0144	0.0122
Moon	76259-03-20 13:12 G	29574165.80	29574166.05	29574166.32	0.0144	0.0030
Earth	76259-03-20 13:41 G	29574165.83	29574166.07	29574166.33	0.0144	0.0037 *
Venus	76259-08-21 05:32 G	29574319.56	29574319.73	29574319.92	0.0144	0.0081
Earth	76260-03-24 16:48 G	29574536.01	29574536.20	29574536.42	0.0144	0.0087
Moon	76260-03-24 17:17 G	29574536.04	29574536.22	29574536.42	0.0144	0.0091 *
Venus	76260-04-03 18:00 G	29574546.04	29574546.25	29574546.47	0.0144	0.0039
Venus	76260-11-16 06:29 G	29574772.55	29574772.77	29574772.99	0.0144	0.0002
Earth	76261-03-29 19:56 G	29574906.27	29574906.33	29574906.43	0.0144	0.0137
Moon	76261-03-29 21:22 G	29574906.32	29574906.39	29574906.46	0.0144	0.0139 *
Venus	76261-06-30 18:58 G	29574999.08	29574999.29	29574999.50	0.0144	0.0043
Venus	76262-02-12 07:27 G	29575225.64	29575225.81	29575225.99	0.0144	0.0084
Venus	76262-09-26 19:41 G	29575452.23	29575452.32	29575452.44	0.0144	0.0125
Mercury	76264-11-30 09:08 G	29576247.84	29576247.88	29576247.93	0.0144	0.0135
Mercury	76265-02-26 13:56 G	29576335.99	29576336.08	29576336.18	0.0144	0.0111
Mercury	76265-05-25 18:44 G	29576424.17	29576424.28	29576424.41	0.0144	0.0087
Mercury	76265-08-21 23:46 G	29576512.36	29576512.49	29576512.63	0.0144	0.0063
Mercury	76265-11-18 04:34 G	29576600.55	29576600.69	29576600.84	0.0144	0.0039

Mercury	76266-02-14 09:36 G	29576688.75	29576688.90	29576689.05	0.0144	0.0014
Mercury	76266-05-13 14:39 G	29576776.96	29576777.11	29576777.26	0.0144	0.0011
Mercury	76266-08-09 19:41 G	29576865.17	29576865.32	29576865.47	0.0144	0.0036
Mercury	76266-11-06 00:44 G	29576953.39	29576953.53	29576953.67	0.0144	0.0061
Mercury	76267-02-02 05:46 G	29577041.62	29577041.74	29577041.87	0.0144	0.0087
Mercury	76267-05-01 10:48 G	29577129.87	29577129.95	29577130.06	0.0144	0.0113
Mercury	76267-07-28 16:05 G	29577218.14	29577218.17	29577218.22	0.0143	0.0138
Mars	76279-11-27 23:03 G	29581723.35	29581723.46	29581723.61	0.0140	0.0123
Earth	76296-09-03 04:34 G	29587847.65	29587847.69	29587847.78	0.0135	0.0130
Moon	76296-09-03 08:10 G	29587847.78	29587847.84	29587847.95	0.0135	0.0126 *
Moon	76297-09-07 07:41 G	29588216.66	29588216.82	29588217.01	0.0134	0.0097
Earth	76297-09-07 11:17 G	29588216.80	29588216.97	29588217.17	0.0134	0.0090 *
Earth	76298-09-11 17:32 G	29588586.00	29588586.23	29588586.47	0.0134	0.0050
Moon	76298-09-11 21:22 G	29588586.15	29588586.39	29588586.62	0.0134	0.0043 *
Moon	76299-09-15 20:10 G	29588955.09	29588955.34	29588955.59	0.0134	0.0018
Earth	76299-09-15 23:32 G	29588955.23	29588955.48	29588955.73	0.0134	0.0011 *
Venus	76300-07-17 01:41 G	29589259.48	29589259.57	29589259.70	0.0134	0.0116
Earth	76300-09-20 05:03 G	29589324.47	29589324.71	29589324.96	0.0134	0.0028
Moon	76300-09-20 08:39 G	29589324.62	29589324.86	29589325.10	0.0134	0.0034 *
Venus	76301-02-28 06:44 G	29589485.63	29589485.78	29589485.97	0.0134	0.0084
Moon	76301-09-24 06:44 G	29589693.57	29589693.78	29589694.02	0.0134	0.0064
Earth	76301-09-24 10:05 G	29589693.72	29589693.92	29589694.16	0.0134	0.0068 *
Venus	76301-10-12 12:00 G	29589711.80	29589712.00	29589712.20	0.0134	0.0051
Venus	76302-05-26 17:03 G	29589938.00	29589938.21	29589938.42	0.0134	0.0019
Earth	76302-09-28 15:51 G	29590063.01	29590063.16	29590063.31	0.0134	0.0106
Moon	76302-09-28 18:44 G	29590063.15	29590063.28	29590063.45	0.0134	0.0106 *
Venus	76303-01-07 22:05 G	29590164.20	29590164.42	29590164.63	0.0134	0.0013
Venus	76303-08-22 02:53 G	29590390.43	29590390.62	29590390.83	0.0134	0.0046
Venus	76304-04-04 07:56 G	29590616.67	29590616.83	29590617.02	0.0134	0.0078
Venus	76304-11-16 12:58 G	29590842.93	29590843.04	29590843.17	0.0134	0.0110

Mercury	76307-09-13 05:32 G	29591873.66	29591873.73	29591873.81	0.0134	0.0118
Mercury	76307-12-10 10:34 G	29591961.83	29591961.94	29591962.06	0.0134	0.0096
Mercury	76308-03-07 15:36 G	29592050.02	29592050.15	29592050.29	0.0134	0.0074
Mercury	76308-06-03 20:39 G	29592138.21	29592138.36	29592138.51	0.0134	0.0053
Mercury	76308-08-31 01:27 G	29592226.41	29592226.56	29592226.72	0.0134	0.0031
Mercury	76308-11-27 06:29 G	29592314.61	29592314.77	29592314.93	0.0134	0.0010
Mercury	76309-02-23 11:17 G	29592402.81	29592402.97	29592403.13	0.0134	0.0012
Mercury	76309-05-22 16:05 G	29592491.02	29592491.17	29592491.33	0.0134	0.0033
Mercury	76309-08-18 20:53 G	29592579.23	29592579.37	29592579.52	0.0135	0.0054
Mercury	76309-11-15 01:27 G	29592667.44	29592667.56	29592667.70	0.0135	0.0076
Mercury	76310-02-11 06:00 G	29592755.66	29592755.75	29592755.88	0.0135	0.0097
Mercury	76310-05-10 11:03 G	29592843.88	29592843.96	29592844.04	0.0135	0.0117
Mars	76324-02-08 04:48 G	29597865.45	29597865.70	29597866.01	0.0139	0.0079
Earth	76340-03-06 16:34 G	29603737.04	29603737.19	29603737.38	0.0144	0.0108
Moon	76340-03-06 20:10 G	29603737.18	29603737.34	29603737.51	0.0144	0.0108 *
Moon	76341-03-11 16:20 G	29604106.95	29604107.18	29604107.44	0.0144	0.0054
Earth	76341-03-11 19:12 G	29604107.07	29604107.30	29604107.55	0.0144	0.0058 *
Earth	76342-03-16 21:51 G	29604477.15	29604477.41	29604477.67	0.0144	0.0007
Moon	76342-03-16 23:46 G	29604477.24	29604477.49	29604477.74	0.0144	0.0015 *
Venus	76342-09-06 23:17 G	29604651.44	29604651.47	29604651.53	0.0144	0.0140
Moon	76343-03-21 22:48 G	29604847.21	29604847.45	29604847.71	0.0144	0.0051
Earth	76343-03-22 00:44 G	29604847.29	29604847.53	29604847.78	0.0144	0.0043 *
Venus	76343-04-21 11:46 G	29604877.85	29604877.99	29604878.16	0.0144	0.0099
Venus	76343-12-04 00:29 G	29605104.32	29605104.52	29605104.73	0.0144	0.0058
Earth	76344-03-26 03:36 G	29605217.47	29605217.65	29605217.86	0.0144	0.0094
Moon	76344-03-26 04:20 G	29605217.49	29605217.68	29605217.87	0.0144	0.0091 *
Venus	76344-07-17 12:58 G	29605330.83	29605331.04	29605331.27	0.0144	0.0017
Venus	76345-03-01 01:41 G	29605557.35	29605557.57	29605557.79	0.0144	0.0025
Moon	76345-03-31 06:58 G	29605587.78	29605587.79	29605587.83	0.0144	0.0143
Earth	76345-03-31 07:12 G	29605587.80	29605587.80	29605587.82	0.0144	0.0144 *

Venus	76345-10-13 13:56 G	29605783.90	29605784.08	29605784.29	0.0144	0.0066
Venus	76346-05-28 02:24 G	29606010.47	29606010.60	29606010.76	0.0144	0.0107
Mercury	76348-12-21 16:48 G	29606949.13	29606949.20	29606949.27	0.0144	0.0126
Mercury	76349-03-19 21:36 G	29607037.30	29607037.40	29607037.51	0.0144	0.0102
Mercury	76349-06-16 02:24 G	29607125.48	29607125.60	29607125.73	0.0144	0.0078
Mercury	76349-09-12 07:12 G	29607213.67	29607213.80	29607213.95	0.0144	0.0054
Mercury	76349-12-09 12:15 G	29607301.86	29607302.01	29607302.16	0.0144	0.0029
Mercury	76350-03-07 17:17 G	29607390.07	29607390.22	29607390.37	0.0144	0.0005
Mercury	76350-06-03 22:20 G	29607478.28	29607478.43	29607478.58	0.0144	0.0020
Mercury	76350-08-31 03:08 G	29607566.49	29607566.63	29607566.78	0.0144	0.0046
Mercury	76350-11-27 08:10 G	29607654.72	29607654.84	29607654.98	0.0144	0.0071
Mercury	76351-02-23 13:27 G	29607742.95	29607743.06	29607743.18	0.0144	0.0096
Mercury	76351-05-22 18:29 G	29607831.20	29607831.27	29607831.36	0.0144	0.0121
Mars	76364-07-23 15:36 G	29612641.87	29612642.15	29612642.43	0.0139	0.0019
Earth	76380-09-04 17:17 G	29618529.12	29618529.22	29618529.32	0.0135	0.0123
Moon	76380-09-04 20:39 G	29618529.30	29618529.36	29618529.45	0.0135	0.0128 *
Moon	76381-09-08 19:56 G	29618898.14	29618898.33	29618898.55	0.0134	0.0078
Earth	76381-09-08 23:46 G	29618898.30	29618898.49	29618898.69	0.0134	0.0084 *
Earth	76382-09-13 05:32 G	29619267.51	29619267.73	29619267.98	0.0134	0.0045
Moon	76382-09-13 09:08 G	29619267.66	29619267.88	29619268.12	0.0134	0.0052 *
Moon	76383-09-17 07:56 G	29619636.58	29619636.83	29619637.08	0.0134	0.0003
Earth	76383-09-17 11:46 G	29619636.74	29619636.99	29619637.24	0.0134	0.0005 *
Venus	76384-03-16 12:58 G	29619818.00	29619818.04	29619818.11	0.0134	0.0130
Earth	76384-09-20 17:03 G	29620005.98	29620006.21	29620006.46	0.0134	0.0035
Moon	76384-09-20 20:39 G	29620006.12	29620006.36	29620006.61	0.0134	0.0029 *
Venus	76384-10-28 18:00 G	29620044.12	29620044.25	29620044.41	0.0134	0.0098
Venus	76385-06-11 23:17 G	29620270.29	29620270.47	29620270.66	0.0134	0.0065
Moon	76385-09-24 18:44 G	29620375.09	29620375.28	29620375.51	0.0134	0.0077
Earth	76385-09-24 22:34 G	29620375.24	29620375.44	29620375.66	0.0134	0.0074 *
Venus	76386-01-24 04:20 G	29620496.48	29620496.68	29620496.89	0.0134	0.0033

Venus	76386-09-07 09:22 G	29620722.68	29620722.89	29620723.11	0.0134	0.0003
Earth	76386-09-29 03:36 G	29620744.54	29620744.65	29620744.80	0.0134	0.0113
Moon	76386-09-29 07:27 G	29620744.69	29620744.81	29620744.96	0.0134	0.0112 *
Venus	76387-04-21 14:24 G	29620948.89	29620949.10	29620949.31	0.0134	0.0032
Venus	76387-12-03 19:27 G	29621175.12	29621175.31	29621175.50	0.0134	0.0064
Venus	76388-07-17 00:15 G	29621401.38	29621401.51	29621401.68	0.0134	0.0097
Venus	76389-02-28 05:32 G	29621627.69	29621627.73	29621627.80	0.0134	0.0129
Mercury	76391-07-07 08:10 G	29622486.81	29622486.84	29622486.87	0.0134	0.0132
Mercury	76391-10-03 13:12 G	29622574.96	29622575.05	29622575.14	0.0134	0.0109
Mercury	76391-12-30 18:15 G	29622663.14	29622663.26	29622663.38	0.0134	0.0087
Mercury	76392-03-27 23:17 G	29622751.33	29622751.47	29622751.61	0.0134	0.0066
Mercury	76392-06-24 04:05 G	29622839.52	29622839.67	29622839.83	0.0134	0.0044
Mercury	76392-09-20 09:08 G	29622927.72	29622927.88	29622928.04	0.0134	0.0022
Mercury	76392-12-17 13:56 G	29623015.92	29623016.08	29623016.25	0.0134	0.0003
Mercury	76393-03-15 18:58 G	29623104.13	29623104.29	29623104.44	0.0134	0.0021
Mercury	76393-06-11 23:46 G	29623192.33	29623192.49	29623192.64	0.0134	0.0042
Mercury	76393-09-08 04:34 G	29623280.54	29623280.69	29623280.83	0.0135	0.0063
Mercury	76393-12-05 09:08 G	29623368.76	29623368.88	29623369.01	0.0135	0.0084
Mercury	76394-03-03 13:41 G	29623456.98	29623457.07	29623457.18	0.0135	0.0105
Mercury	76394-05-30 18:15 G	29623545.22	29623545.26	29623545.33	0.0135	0.0126
Mars	76408-10-04 07:27 G	29628785.57	29628785.81	29628786.08	0.0139	0.0089
Earth	76424-03-07 02:24 G	29634418.43	29634418.60	29634418.79	0.0144	0.0102
Moon	76424-03-07 05:32 G	29634418.57	29634418.73	29634418.92	0.0144	0.0103 *
Moon	76425-03-12 01:12 G	29634788.32	29634788.55	29634788.80	0.0144	0.0057
Earth	76425-03-12 04:34 G	29634788.46	29634788.69	29634788.94	0.0144	0.0052 *
Earth	76426-03-17 07:12 G	29635158.54	29635158.80	29635159.05	0.0144	0.0003
Moon	76426-03-17 09:51 G	29635158.66	29635158.91	29635159.16	0.0144	0.0005 *
Venus	76426-12-19 17:32 G	29635436.11	29635436.23	29635436.36	0.0144	0.0118
Moon	76427-03-22 07:56 G	29635528.58	29635528.83	29635529.09	0.0144	0.0041
Earth	76427-03-22 09:36 G	29635528.67	29635528.90	29635529.16	0.0144	0.0049 *

Venus	76427-08-03 06:00 G	29635662.57	29635662.75	29635662.94	0.0144	0.0077
Venus	76428-03-16 18:29 G	29635889.06	29635889.27	29635889.49	0.0144	0.0036
Earth	76428-03-26 12:58 G	29635898.86	29635899.04	29635899.23	0.0144	0.0099
Moon	76428-03-26 14:24 G	29635898.94	29635899.10	29635899.28	0.0144	0.0105 *
Venus	76428-10-29 06:58 G	29636115.58	29636115.79	29636116.01	0.0144	0.0006
Venus	76429-06-12 19:27 G	29636342.11	29636342.31	29636342.53	0.0144	0.0046
Venus	76430-01-25 08:10 G	29636568.67	29636568.84	29636569.02	0.0144	0.0087
Venus	76430-09-08 20:24 G	29636795.27	29636795.35	29636795.46	0.0144	0.0128
Jupiter	76430-11-30 04:05 G	29636877.26	29636877.67	29636878.14	0.0144	0.0082
Mercury	76432-10-14 18:58 G	29637562.29	29637562.29	29637562.30	0.0144	0.0144
Mercury	76433-01-10 23:46 G	29637650.41	29637650.49	29637650.57	0.0144	0.0120
Mercury	76433-04-09 04:34 G	29637738.58	29637738.69	29637738.80	0.0144	0.0096
Mercury	76433-07-06 09:22 G	29637826.77	29637826.89	29637827.03	0.0144	0.0072
Mercury	76433-10-02 14:24 G	29637914.96	29637915.10	29637915.24	0.0144	0.0047
Mercury	76433-12-29 19:27 G	29638003.16	29638003.31	29638003.46	0.0144	0.0023
Mercury	76434-03-28 00:15 G	29638091.36	29638091.51	29638091.66	0.0144	0.0003
Mercury	76434-06-24 05:17 G	29638179.57	29638179.72	29638179.87	0.0144	0.0027
Mercury	76434-09-20 10:20 G	29638267.79	29638267.93	29638268.07	0.0144	0.0052
Mercury	76434-12-17 15:22 G	29638356.01	29638356.14	29638356.27	0.0144	0.0077
Mercury	76435-03-15 20:24 G	29638444.25	29638444.35	29638444.46	0.0144	0.0102
Mercury	76435-06-12 01:27 G	29638532.50	29638532.56	29638532.64	0.0144	0.0128
Earth	76464-09-05 04:05 G	29649210.56	29649210.67	29649210.80	0.0135	0.0118
Moon	76464-09-05 07:41 G	29649210.69	29649210.82	29649210.95	0.0135	0.0115 *
Moon	76465-09-09 06:58 G	29649579.61	29649579.79	29649580.00	0.0134	0.0085
Earth	76465-09-09 10:34 G	29649579.75	29649579.94	29649580.15	0.0134	0.0078 *
Earth	76466-09-13 16:34 G	29649948.96	29649949.19	29649949.45	0.0134	0.0040
Moon	76466-09-13 20:24 G	29649949.11	29649949.35	29649949.60	0.0134	0.0031 *
Moon	76467-09-17 19:27 G	29650318.07	29650318.31	29650318.57	0.0134	0.0007
Earth	76467-09-17 23:03 G	29650318.21	29650318.46	29650318.71	0.0134	0.0002 *
Venus	76468-06-28 04:48 G	29650602.60	29650602.70	29650602.84	0.0134	0.0111

Earth	76468-09-21 04:34 G	29650687.45	29650687.69	29650687.93	0.0134	0.0040
Moon	76468-09-21 08:10 G	29650687.61	29650687.84	29650688.08	0.0134	0.0046 *
Venus	76469-02-09 09:51 G	29650828.76	29650828.91	29650829.10	0.0134	0.0080
Venus	76469-09-23 15:22 G	29651054.94	29651055.14	29651055.34	0.0134	0.0046
Moon	76469-09-25 06:44 G	29651056.58	29651056.78	29651056.99	0.0134	0.0075
Earth	76469-09-25 09:51 G	29651056.73	29651056.91	29651057.13	0.0134	0.0080 *
Venus	76470-05-07 20:24 G	29651281.13	29651281.35	29651281.56	0.0134	0.0014
Earth	76470-09-29 15:22 G	29651426.04	29651426.14	29651426.27	0.0134	0.0119
Moon	76470-09-29 19:12 G	29651426.19	29651426.30	29651426.42	0.0134	0.0118 *
Venus	76470-12-20 01:27 G	29651507.34	29651507.56	29651507.77	0.0134	0.0018
Venus	76471-08-03 06:15 G	29651733.57	29651733.76	29651733.97	0.0134	0.0051
Venus	76472-03-16 11:17 G	29651959.82	29651959.97	29651960.16	0.0134	0.0083
Jupiter	76472-09-16 18:00 G	29652143.84	29652144.25	29652144.71	0.0134	0.0067
Venus	76472-10-28 16:34 G	29652186.09	29652186.19	29652186.31	0.0134	0.0115
Mercury	76475-07-27 15:22 G	29653188.09	29653188.14	29653188.21	0.0134	0.0124
Mercury	76475-10-23 20:24 G	29653276.26	29653276.35	29653276.47	0.0134	0.0102
Mercury	76476-01-20 01:27 G	29653364.44	29653364.56	29653364.70	0.0134	0.0080
Mercury	76476-04-17 06:44 G	29653452.63	29653452.78	29653452.93	0.0134	0.0057
Mercury	76476-07-14 11:46 G	29653540.83	29653540.99	29653541.14	0.0134	0.0036
Mercury	76476-10-10 16:34 G	29653629.03	29653629.19	29653629.35	0.0134	0.0014
Mercury	76477-01-06 21:22 G	29653717.23	29653717.39	29653717.56	0.0134	0.0008
Mercury	76477-04-05 02:24 G	29653805.44	29653805.60	29653805.75	0.0134	0.0029
Mercury	76477-07-02 07:12 G	29653893.65	29653893.80	29653893.94	0.0135	0.0050
Mercury	76477-09-28 11:46 G	29653981.86	29653981.99	29653982.13	0.0135	0.0071
Mercury	76477-12-25 16:34 G	29654070.08	29654070.19	29654070.31	0.0135	0.0092
Mercury	76478-03-23 21:08 G	29654158.30	29654158.38	29654158.47	0.0135	0.0113
Mercury	76478-06-20 01:56 G	29654246.56	29654246.58	29654246.60	0.0135	0.0133
Earth	76508-03-08 11:46 G	29665099.82	29665099.99	29665100.20	0.0144	0.0097
Moon	76508-03-08 15:36 G	29665099.97	29665100.15	29665100.35	0.0144	0.0096 *
Moon	76509-03-13 10:48 G	29665469.70	29665469.95	29665470.20	0.0144	0.0044

Earth	76509-03-13 14:10 G	29665469.85	29665470.09	29665470.34	0.0144	0.0047 *
Earth	76510-03-18 16:34 G	29665839.93	29665840.19	29665840.45	0.0144	0.0004
Moon	76510-03-18 19:27 G	29665840.06	29665840.31	29665840.56	0.0144	0.0004 *
Venus	76510-08-19 23:17 G	29665994.41	29665994.47	29665994.54	0.0144	0.0137
Moon	76511-03-23 16:20 G	29666209.96	29666210.18	29666210.43	0.0144	0.0063
Earth	76511-03-23 19:12 G	29666210.08	29666210.30	29666210.55	0.0144	0.0055 *
Venus	76511-04-03 11:32 G	29666220.83	29666220.98	29666221.16	0.0144	0.0097
Venus	76511-11-16 00:00 G	29666447.31	29666447.50	29666447.72	0.0144	0.0056
Earth	76512-03-27 22:20 G	29666580.28	29666580.43	29666580.62	0.0144	0.0106
Moon	76512-03-28 00:00 G	29666580.34	29666580.50	29666580.69	0.0144	0.0101 *
Venus	76512-06-29 12:44 G	29666673.82	29666674.03	29666674.26	0.0144	0.0015
Venus	76513-02-11 01:27 G	29666900.35	29666900.56	29666900.78	0.0144	0.0027
Venus	76513-09-25 13:41 G	29667126.89	29667127.07	29667127.28	0.0144	0.0069
Venus	76514-05-10 02:10 G	29667353.46	29667353.59	29667353.75	0.0144	0.0109
Mercury	76516-11-05 01:56 G	29668263.55	29668263.58	29668263.64	0.0144	0.0137
Mercury	76517-02-01 06:58 G	29668351.70	29668351.79	29668351.88	0.0144	0.0113
Mercury	76517-04-30 11:46 G	29668439.88	29668439.99	29668440.11	0.0144	0.0089
Mercury	76517-07-27 16:34 G	29668528.06	29668528.19	29668528.33	0.0144	0.0065
Mercury	76517-10-23 21:22 G	29668616.25	29668616.39	29668616.54	0.0144	0.0041
Mercury	76518-01-20 02:24 G	29668704.45	29668704.60	29668704.75	0.0144	0.0016
Mercury	76518-04-18 07:27 G	29668792.66	29668792.81	29668792.96	0.0144	0.0009
Mercury	76518-07-15 12:29 G	29668880.87	29668881.02	29668881.17	0.0144	0.0034
Mercury	76518-10-11 17:17 G	29668969.09	29668969.22	29668969.37	0.0144	0.0059
Mercury	76519-01-07 22:34 G	29669057.32	29669057.44	29669057.56	0.0144	0.0084
Mercury	76519-04-06 03:22 G	29669145.55	29669145.64	29669145.75	0.0144	0.0110
Mercury	76519-07-03 08:39 G	29669233.82	29669233.86	29669233.92	0.0144	0.0135
Mars	76531-12-12 12:00 G	29673778.76	29673779.00	29673779.25	0.0140	0.0069
Earth	76548-09-06 15:08 G	29679892.01	29679892.13	29679892.28	0.0135	0.0113
Moon	76548-09-06 18:29 G	29679892.17	29679892.27	29679892.42	0.0135	0.0117 *
Moon	76549-09-10 18:29 G	29680261.08	29680261.27	29680261.50	0.0135	0.0069

Earth	76549-09-10 21:51 G	29680261.21	29680261.41	29680261.63	0.0135	0.0073	*
Earth	76550-09-15 04:20 G	29680630.44	29680630.68	29680630.93	0.0134	0.0033	
Moon	76550-09-15 07:41 G	29680630.58	29680630.82	29680631.07	0.0134	0.0040	*
Moon	76551-09-19 06:58 G	29680999.54	29680999.79	29681000.04	0.0134	0.0014	
Earth	76551-09-19 10:20 G	29680999.68	29680999.93	29681000.19	0.0134	0.0007	*
Venus	76552-02-27 16:05 G	29681161.10	29681161.17	29681161.25	0.0134	0.0125	
Earth	76552-09-22 16:20 G	29681368.94	29681369.18	29681369.41	0.0134	0.0047	
Moon	76552-09-22 19:27 G	29681369.07	29681369.31	29681369.56	0.0134	0.0040	*
Venus	76552-10-10 21:08 G	29681387.23	29681387.38	29681387.54	0.0134	0.0092	
Venus	76553-05-25 02:10 G	29681613.40	29681613.59	29681613.79	0.0134	0.0060	
Moon	76553-09-26 18:29 G	29681738.09	29681738.27	29681738.46	0.0134	0.0090	
Earth	76553-09-26 21:51 G	29681738.23	29681738.41	29681738.61	0.0134	0.0086	*
Venus	76554-01-06 07:12 G	29681839.60	29681839.80	29681840.02	0.0134	0.0028	
Venus	76554-08-20 12:29 G	29682065.81	29682066.02	29682066.24	0.0134	0.0005	
Earth	76554-10-01 03:22 G	29682107.57	29682107.64	29682107.74	0.0134	0.0125	
Moon	76554-10-01 06:58 G	29682107.70	29682107.79	29682107.89	0.0134	0.0123	*
Venus	76555-04-03 17:32 G	29682292.03	29682292.23	29682292.44	0.0134	0.0037	
Venus	76555-11-15 22:34 G	29682518.26	29682518.44	29682518.63	0.0134	0.0069	
Venus	76556-06-29 03:51 G	29682744.53	29682744.66	29682744.81	0.0134	0.0101	
Venus	76557-02-10 09:08 G	29682970.87	29682970.88	29682970.90	0.0134	0.0133	
Mercury	76559-08-17 22:48 G	29683889.38	29683889.45	29683889.55	0.0134	0.0115	
Mercury	76559-11-14 04:05 G	29683977.56	29683977.67	29683977.79	0.0134	0.0093	
Mercury	76560-02-10 09:22 G	29684065.75	29684065.89	29684066.02	0.0134	0.0071	
Mercury	76560-05-08 14:10 G	29684153.94	29684154.09	29684154.24	0.0134	0.0049	
Mercury	76560-08-04 19:12 G	29684242.14	29684242.30	29684242.46	0.0134	0.0027	
Mercury	76560-11-01 00:00 G	29684330.34	29684330.50	29684330.67	0.0134	0.0006	
Mercury	76561-01-28 05:03 G	29684418.55	29684418.71	29684418.87	0.0134	0.0016	
Mercury	76561-04-26 09:36 G	29684506.75	29684506.90	29684507.06	0.0135	0.0038	
Mercury	76561-07-23 14:24 G	29684594.96	29684595.10	29684595.25	0.0135	0.0059	
Mercury	76561-10-19 19:12 G	29684683.18	29684683.30	29684683.44	0.0135	0.0079	

Mercury	76562-01-16 00:00 G	29684771.40	29684771.50	29684771.61	0.0135	0.0100
Mercury	76562-04-14 04:34 G	29684859.63	29684859.69	29684859.77	0.0135	0.0121
Mars	76576-02-21 00:00 G	29689920.16	29689920.50	29689920.84	0.0139	0.0008
Moon	76591-03-04 17:32 G	29695411.15	29695411.23	29695411.33	0.0143	0.0134
Earth	76591-03-04 20:53 G	29695411.34	29695411.37	29695411.44	0.0143	0.0141
Earth	76592-03-08 22:48 G	29695781.25	29695781.45	29695781.65	0.0144	0.0091
Moon	76592-03-09 02:10 G	29695781.40	29695781.59	29695781.80	0.0144	0.0093 *
Moon	76593-03-13 20:53 G	29696151.13	29696151.37	29696151.62	0.0144	0.0044
Earth	76593-03-14 00:44 G	29696151.29	29696151.53	29696151.78	0.0144	0.0041 *
Earth	76594-03-19 03:08 G	29696521.37	29696521.63	29696521.89	0.0144	0.0010
Moon	76594-03-19 06:29 G	29696521.52	29696521.77	29696522.03	0.0144	0.0016 *
Venus	76594-12-01 17:46 G	29696779.12	29696779.24	29696779.38	0.0144	0.0115
Moon	76595-03-24 02:53 G	29696891.39	29696891.62	29696891.88	0.0144	0.0053
Earth	76595-03-24 05:46 G	29696891.52	29696891.74	29696891.98	0.0144	0.0061 *
Venus	76595-07-16 06:29 G	29697005.59	29697005.77	29697005.96	0.0144	0.0074
Venus	76596-02-27 18:58 G	29697232.08	29697232.29	29697232.51	0.0144	0.0033
Earth	76596-03-28 08:53 G	29697261.71	29697261.87	29697262.04	0.0144	0.0111
Moon	76596-03-28 11:32 G	29697261.85	29697261.98	29697262.13	0.0144	0.0118 *
Venus	76596-10-11 07:27 G	29697458.60	29697458.81	29697459.04	0.0144	0.0009
Venus	76597-05-25 19:56 G	29697685.13	29697685.33	29697685.54	0.0144	0.0049
Venus	76598-01-07 08:24 G	29697911.69	29697911.85	29697912.03	0.0144	0.0090
Venus	76598-08-21 20:39 G	29698138.29	29698138.36	29698138.47	0.0144	0.0131
Mercury	76600-11-26 09:22 G	29698964.83	29698964.89	29698964.96	0.0144	0.0130
Mercury	76601-02-22 14:10 G	29699052.99	29699053.09	29699053.19	0.0144	0.0106
Mercury	76601-05-21 18:58 G	29699141.17	29699141.29	29699141.41	0.0144	0.0082
Mercury	76601-08-17 23:46 G	29699229.35	29699229.49	29699229.63	0.0144	0.0058
Mercury	76601-11-14 04:34 G	29699317.55	29699317.69	29699317.84	0.0144	0.0034
Mercury	76602-02-10 09:36 G	29699405.75	29699405.90	29699406.05	0.0144	0.0009
Mercury	76602-05-09 14:39 G	29699493.96	29699494.11	29699494.26	0.0144	0.0016
Mercury	76602-08-05 19:27 G	29699582.17	29699582.31	29699582.46	0.0144	0.0041

Mercury	76602-11-02 00:29 G	29699670.39	29699670.52	29699670.66	0.0144	0.0065
Mercury	76603-01-29 05:32 G	29699758.62	29699758.73	29699758.85	0.0144	0.0090
Mercury	76603-04-27 10:34 G	29699846.86	29699846.94	29699847.04	0.0143	0.0116
Mercury	76603-07-24 15:36 G	29699935.14	29699935.15	29699935.19	0.0143	0.0141
Mars	76616-08-06 22:20 G	29704697.19	29704697.43	29704697.69	0.0139	0.0066
Earth	76632-09-08 00:58 G	29710573.42	29710573.54	29710573.71	0.0135	0.0109
Moon	76632-09-08 03:51 G	29710573.53	29710573.66	29710573.84	0.0135	0.0107 *
Moon	76633-09-12 05:03 G	29710942.51	29710942.71	29710942.92	0.0135	0.0074
Earth	76633-09-12 07:56 G	29710942.63	29710942.83	29710943.06	0.0135	0.0069 *
Earth	76634-09-16 14:24 G	29711311.86	29711312.10	29711312.35	0.0134	0.0029
Moon	76634-09-16 17:46 G	29711311.99	29711312.24	29711312.50	0.0134	0.0021 *
Moon	76635-09-20 17:46 G	29711681.00	29711681.24	29711681.49	0.0134	0.0005
Earth	76635-09-20 20:53 G	29711681.12	29711681.37	29711681.62	0.0134	0.0012 *
Venus	76636-06-11 07:27 G	29711945.68	29711945.81	29711945.94	0.0134	0.0107
Earth	76636-09-24 02:24 G	29712050.38	29712050.60	29712050.85	0.0134	0.0052
Moon	76636-09-24 06:00 G	29712050.53	29712050.75	29712050.99	0.0134	0.0058 *
Venus	76637-01-23 12:29 G	29712171.85	29712172.02	29712172.21	0.0134	0.0074
Venus	76637-09-06 17:32 G	29712398.04	29712398.23	29712398.45	0.0134	0.0043
Moon	76637-09-28 05:32 G	29712419.55	29712419.73	29712419.93	0.0134	0.0087
Earth	76637-09-28 08:39 G	29712419.68	29712419.86	29712420.05	0.0134	0.0092 *
Venus	76638-04-20 22:48 G	29712624.24	29712624.45	29712624.67	0.0134	0.0010
Earth	76638-10-02 14:24 G	29712789.05	29712789.10	29712789.16	0.0134	0.0131
Moon	76638-10-02 17:32 G	29712789.20	29712789.23	29712789.30	0.0134	0.0131
Venus	76638-12-03 03:51 G	29712850.46	29712850.66	29712850.88	0.0134	0.0023
Venus	76639-07-17 09:08 G	29713076.69	29713076.88	29713077.09	0.0134	0.0055
Venus	76640-02-28 14:24 G	29713302.94	29713303.10	29713303.27	0.0134	0.0087
Venus	76640-10-11 19:27 G	29713529.22	29713529.31	29713529.42	0.0134	0.0120
Mercury	76643-06-12 01:12 G	29714502.51	29714502.55	29714502.59	0.0134	0.0130
Mercury	76643-09-08 06:15 G	29714590.67	29714590.76	29714590.86	0.0134	0.0108
Mercury	76643-12-05 11:17 G	29714678.85	29714678.97	29714679.10	0.0134	0.0086

Mercury	76644-03-02 16:20 G	29714767.04	29714767.18	29714767.33	0.0134	0.0064
Mercury	76644-05-29 21:22 G	29714855.24	29714855.39	29714855.55	0.0134	0.0042
Mercury	76644-08-26 02:24 G	29714943.44	29714943.60	29714943.76	0.0135	0.0020
Mercury	76644-11-22 07:27 G	29715031.64	29715031.81	29715031.97	0.0135	0.0003
Mercury	76645-02-18 12:15 G	29715119.85	29715120.01	29715120.17	0.0135	0.0023
Mercury	76645-05-17 17:03 G	29715208.06	29715208.21	29715208.36	0.0135	0.0044
Mercury	76645-08-13 21:51 G	29715296.27	29715296.41	29715296.55	0.0135	0.0066
Mercury	76645-11-10 02:24 G	29715384.49	29715384.60	29715384.73	0.0135	0.0087
Mercury	76646-02-06 07:12 G	29715472.71	29715472.80	29715472.90	0.0135	0.0108
Mercury	76646-05-05 12:00 G	29715560.96	29715561.00	29715561.05	0.0135	0.0128
Moon	76675-03-06 05:17 G	29726092.69	29726092.72	29726092.79	0.0143	0.0141
Earth	76675-03-06 08:24 G	29726092.79	29726092.85	29726092.97	0.0143	0.0135 *
Earth	76676-03-10 10:20 G	29726462.73	29726462.93	29726463.14	0.0144	0.0085
Moon	76676-03-10 13:56 G	29726462.88	29726463.08	29726463.30	0.0144	0.0083 *
Moon	76677-03-15 08:53 G	29726832.62	29726832.87	29726833.12	0.0144	0.0033
Earth	76677-03-15 12:15 G	29726832.77	29726833.01	29726833.27	0.0144	0.0035 *
Earth	76678-03-20 14:39 G	29727202.86	29727203.11	29727203.37	0.0144	0.0016
Moon	76678-03-20 18:00 G	29727203.00	29727203.25	29727203.51	0.0144	0.0010 *
Venus	76678-08-02 00:44 G	29727337.46	29727337.53	29727337.63	0.0144	0.0133
Venus	76679-03-16 13:12 G	29727563.89	29727564.05	29727564.23	0.0144	0.0092
Moon	76679-03-25 13:56 G	29727572.86	29727573.08	29727573.31	0.0144	0.0075
Earth	76679-03-25 17:32 G	29727573.00	29727573.23	29727573.46	0.0144	0.0067 *
Venus	76679-10-29 01:56 G	29727790.38	29727790.58	29727790.79	0.0144	0.0051
Earth	76680-03-29 20:10 G	29727943.21	29727943.34	29727943.50	0.0144	0.0118
Moon	76680-03-29 23:03 G	29727943.31	29727943.46	29727943.62	0.0144	0.0112 *
Venus	76680-06-11 14:24 G	29728016.88	29728017.10	29728017.32	0.0144	0.0010
Venus	76681-01-24 02:53 G	29728243.41	29728243.62	29728243.84	0.0144	0.0031
Venus	76681-09-07 15:08 G	29728469.95	29728470.13	29728470.33	0.0144	0.0072
Venus	76682-04-22 03:22 G	29728696.52	29728696.64	29728696.79	0.0144	0.0113
Mercury	76684-12-16 16:48 G	29729666.13	29729666.20	29729666.28	0.0144	0.0122

Mercury	76685-03-14 21:36 G	29729754.29	29729754.40	29729754.51	0.0144	0.0098
Mercury	76685-06-11 02:24 G	29729842.47	29729842.60	29729842.73	0.0144	0.0074
Mercury	76685-09-07 07:12 G	29729930.66	29729930.80	29729930.94	0.0144	0.0050
Mercury	76685-12-04 12:00 G	29730018.86	29730019.00	29730019.15	0.0144	0.0026
Mercury	76686-03-02 17:03 G	29730107.06	29730107.21	29730107.36	0.0144	0.0002
Mercury	76686-05-29 21:51 G	29730195.26	29730195.41	29730195.57	0.0144	0.0024
Mercury	76686-08-26 02:53 G	29730283.48	29730283.62	29730283.77	0.0144	0.0048
Mercury	76686-11-22 07:41 G	29730371.70	29730371.82	29730371.96	0.0144	0.0074
Mercury	76687-02-18 12:44 G	29730459.93	29730460.03	29730460.15	0.0144	0.0099
Mercury	76687-05-17 18:00 G	29730548.18	29730548.25	29730548.33	0.0143	0.0124
Earth	76716-09-09 12:00 G	29741254.85	29741255.00	29741255.17	0.0135	0.0103
Moon	76716-09-09 14:53 G	29741254.98	29741255.12	29741255.30	0.0135	0.0106 *
Moon	76717-09-13 16:20 G	29741623.97	29741624.18	29741624.41	0.0135	0.0060
Earth	76717-09-13 18:58 G	29741624.08	29741624.29	29741624.52	0.0135	0.0063 *
Earth	76718-09-18 01:27 G	29741993.32	29741993.56	29741993.82	0.0134	0.0023
Moon	76718-09-18 04:20 G	29741993.44	29741993.68	29741993.94	0.0134	0.0030 *
Moon	76719-09-22 04:48 G	29742362.46	29742362.70	29742362.95	0.0134	0.0025
Earth	76719-09-22 07:56 G	29742362.58	29742362.83	29742363.08	0.0134	0.0018 *
Venus	76720-02-10 18:00 G	29742504.16	29742504.25	29742504.35	0.0134	0.0121
Venus	76720-09-23 23:03 G	29742730.31	29742730.46	29742730.63	0.0134	0.0089
Earth	76720-09-25 13:56 G	29742731.85	29742732.08	29742732.31	0.0134	0.0058
Moon	76720-09-25 16:20 G	29742731.96	29742732.18	29742732.43	0.0134	0.0052 *
Venus	76721-05-08 04:05 G	29742956.49	29742956.67	29742956.88	0.0134	0.0057
Moon	76721-09-29 16:20 G	29743101.05	29743101.18	29743101.37	0.0134	0.0103
Earth	76721-09-29 19:41 G	29743101.16	29743101.32	29743101.51	0.0134	0.0098 *
Venus	76721-12-20 09:22 G	29743182.69	29743182.89	29743183.11	0.0134	0.0024
Venus	76722-08-03 14:39 G	29743408.90	29743409.11	29743409.33	0.0134	0.0010
Moon	76722-10-04 04:20 G	29743470.67	29743470.68	29743470.72	0.0134	0.0134
Venus	76723-03-17 19:41 G	29743635.13	29743635.32	29743635.54	0.0134	0.0042
Venus	76723-10-30 00:58 G	29743861.36	29743861.54	29743861.72	0.0134	0.0073

Venus	76724-06-12 06:00 G	29744087.63	29744087.75	29744087.89	0.0134	0.0106
Mercury	76727-07-03 08:10 G	29745203.79	29745203.84	29745203.92	0.0134	0.0123
Mercury	76727-09-29 13:27 G	29745291.96	29745292.06	29745292.18	0.0134	0.0100
Mercury	76727-12-26 18:29 G	29745380.15	29745380.27	29745380.41	0.0134	0.0078
Mercury	76728-03-23 23:32 G	29745468.34	29745468.48	29745468.64	0.0135	0.0057
Mercury	76728-06-20 04:34 G	29745556.54	29745556.69	29745556.85	0.0135	0.0035
Mercury	76728-09-16 09:36 G	29745644.74	29745644.90	29745645.07	0.0135	0.0013
Mercury	76728-12-13 14:39 G	29745732.95	29745733.11	29745733.27	0.0135	0.0009
Mercury	76729-03-11 19:27 G	29745821.15	29745821.31	29745821.47	0.0135	0.0030
Mercury	76729-06-08 00:15 G	29745909.37	29745909.51	29745909.66	0.0135	0.0052
Mercury	76729-09-04 05:03 G	29745997.58	29745997.71	29745997.85	0.0135	0.0073
Mercury	76729-12-01 09:51 G	29746085.80	29746085.91	29746086.03	0.0135	0.0094
Mercury	76730-02-27 14:24 G	29746174.03	29746174.10	29746174.19	0.0135	0.0115
Mars	76743-07-10 16:05 G	29751054.97	29751055.17	29751055.41	0.0138	0.0104
Moon	76759-03-07 17:17 G	29756774.11	29756774.22	29756774.38	0.0143	0.0122
Earth	76759-03-07 20:24 G	29756774.26	29756774.35	29756774.49	0.0143	0.0129 *
Earth	76760-03-11 22:05 G	29757144.22	29757144.42	29757144.65	0.0143	0.0079
Moon	76760-03-12 01:27 G	29757144.36	29757144.56	29757144.79	0.0143	0.0081 *
Moon	76761-03-16 20:24 G	29757514.11	29757514.35	29757514.61	0.0144	0.0030
Earth	76761-03-17 00:15 G	29757514.26	29757514.51	29757514.77	0.0144	0.0028 *
Earth	76762-03-22 02:39 G	29757884.36	29757884.61	29757884.87	0.0144	0.0023
Moon	76762-03-22 06:15 G	29757884.51	29757884.76	29757885.02	0.0144	0.0029 *
Venus	76762-11-14 20:39 G	29758122.22	29758122.36	29758122.50	0.0144	0.0109
Moon	76763-03-27 01:41 G	29758254.35	29758254.57	29758254.82	0.0144	0.0066
Earth	76763-03-27 05:17 G	29758254.51	29758254.72	29758254.95	0.0144	0.0074 *
Venus	76763-06-29 08:53 G	29758348.69	29758348.87	29758349.07	0.0144	0.0069
Venus	76764-02-10 21:36 G	29758575.19	29758575.40	29758575.62	0.0144	0.0028
Earth	76764-03-31 07:41 G	29758624.71	29758624.82	29758624.97	0.0144	0.0125
Moon	76764-03-31 11:17 G	29758624.88	29758624.97	29758625.08	0.0144	0.0132 *
Venus	76764-09-24 10:05 G	29758801.70	29758801.92	29758802.14	0.0144	0.0013

Venus	76765-05-08 22:20 G	29759028.23	29759028.43	29759028.64	0.0144	0.0054
Venus	76765-12-21 10:34 G	29759254.78	29759254.94	29759255.11	0.0144	0.0095
Venus	76766-08-04 23:03 G	29759481.39	29759481.46	29759481.53	0.0144	0.0135
Mercury	76768-10-10 19:27 G	29760279.28	29760279.31	29760279.36	0.0144	0.0138
Mercury	76769-01-07 00:15 G	29760367.43	29760367.51	29760367.60	0.0144	0.0114
Mercury	76769-04-05 05:03 G	29760455.60	29760455.71	29760455.83	0.0144	0.0090
Mercury	76769-07-02 09:51 G	29760543.78	29760543.91	29760544.05	0.0144	0.0066
Mercury	76769-09-28 14:39 G	29760631.97	29760632.11	29760632.26	0.0144	0.0042
Mercury	76769-12-25 19:27 G	29760720.17	29760720.31	29760720.47	0.0144	0.0019
Mercury	76770-03-24 00:29 G	29760808.37	29760808.52	29760808.67	0.0144	0.0007
Mercury	76770-06-20 05:17 G	29760896.58	29760896.72	29760896.87	0.0144	0.0032
Mercury	76770-09-16 10:20 G	29760984.79	29760984.93	29760985.07	0.0144	0.0056
Mercury	76770-12-13 15:08 G	29761073.02	29761073.13	29761073.27	0.0143	0.0082
Mercury	76771-03-11 20:10 G	29761161.25	29761161.34	29761161.45	0.0143	0.0107
Mercury	76771-06-08 01:27 G	29761249.50	29761249.56	29761249.62	0.0143	0.0131
Mars	76783-12-26 21:22 G	29765834.12	29765834.39	29765834.68	0.0140	0.0023
Earth	76800-09-09 22:05 G	29771936.25	29771936.42	29771936.59	0.0135	0.0098
Moon	76800-09-09 23:32 G	29771936.32	29771936.48	29771936.68	0.0135	0.0098 *
Moon	76801-09-14 02:10 G	29772305.39	29772305.59	29772305.82	0.0135	0.0063
Earth	76801-09-14 05:03 G	29772305.48	29772305.71	29772305.94	0.0135	0.0058 *
Earth	76802-09-18 11:32 G	29772674.73	29772674.98	29772675.23	0.0134	0.0018
Moon	76802-09-18 13:41 G	29772674.82	29772675.07	29772675.33	0.0134	0.0012 *
Moon	76803-09-22 15:36 G	29773043.91	29773044.15	29773044.40	0.0134	0.0016
Earth	76803-09-22 18:00 G	29773044.00	29773044.25	29773044.50	0.0134	0.0023 *
Venus	76804-05-24 08:53 G	29773288.75	29773288.87	29773289.02	0.0134	0.0103
Earth	76804-09-26 00:15 G	29773413.29	29773413.51	29773413.73	0.0134	0.0063
Moon	76804-09-26 02:53 G	29773413.40	29773413.62	29773413.84	0.0134	0.0070 *
Venus	76805-01-05 14:24 G	29773514.92	29773515.10	29773515.28	0.0134	0.0071
Venus	76805-08-19 19:27 G	29773741.11	29773741.31	29773741.52	0.0134	0.0038
Moon	76805-09-30 03:36 G	29773782.50	29773782.65	29773782.83	0.0134	0.0097

Earth	76805-09-30 06:00 G	29773782.60	29773782.75	29773782.92	0.0134	0.0103	*
Venus	76806-04-03 00:44 G	29773967.31	29773967.53	29773967.75	0.0134	0.0006	
Venus	76806-11-15 05:46 G	29774193.53	29774193.74	29774193.95	0.0134	0.0027	
Venus	76807-06-29 10:48 G	29774419.77	29774419.95	29774420.15	0.0134	0.0059	
Venus	76808-02-10 15:51 G	29774646.02	29774646.16	29774646.33	0.0134	0.0092	
Venus	76808-09-23 21:08 G	29774872.31	29774872.38	29774872.47	0.0134	0.0123	
Mercury	76811-07-23 15:08 G	29775905.06	29775905.13	29775905.23	0.0134	0.0117	
Mercury	76811-10-19 20:39 G	29775993.24	29775993.36	29775993.47	0.0135	0.0094	
Mercury	76812-01-16 01:41 G	29776081.43	29776081.57	29776081.71	0.0135	0.0072	
Mercury	76812-04-13 06:44 G	29776169.63	29776169.78	29776169.93	0.0135	0.0050	
Mercury	76812-07-10 11:46 G	29776257.83	29776257.99	29776258.15	0.0135	0.0028	
Mercury	76812-10-06 16:34 G	29776346.03	29776346.19	29776346.36	0.0135	0.0008	
Mercury	76813-01-02 21:36 G	29776434.24	29776434.40	29776434.56	0.0135	0.0015	
Mercury	76813-04-01 02:24 G	29776522.45	29776522.60	29776522.76	0.0135	0.0037	
Mercury	76813-06-28 07:27 G	29776610.66	29776610.81	29776610.95	0.0135	0.0058	
Mercury	76813-09-24 12:00 G	29776698.88	29776699.00	29776699.14	0.0135	0.0080	
Mercury	76813-12-21 16:48 G	29776787.10	29776787.20	29776787.31	0.0135	0.0101	
Mercury	76814-03-19 21:51 G	29776875.34	29776875.41	29776875.47	0.0135	0.0121	
Mars	76828-03-05 16:05 G	29781974.88	29781975.17	29781975.48	0.0139	0.0060	
Moon	76843-03-08 04:34 G	29787455.60	29787455.69	29787455.81	0.0143	0.0129	
Earth	76843-03-08 07:27 G	29787455.68	29787455.81	29787455.95	0.0143	0.0122	*
Earth	76844-03-12 08:24 G	29787825.65	29787825.85	29787826.09	0.0143	0.0073	
Moon	76844-03-12 12:15 G	29787825.78	29787826.01	29787826.24	0.0143	0.0069	*
Moon	76845-03-17 07:41 G	29788195.57	29788195.82	29788196.07	0.0144	0.0021	
Earth	76845-03-17 10:48 G	29788195.70	29788195.95	29788196.21	0.0144	0.0022	*
Earth	76846-03-22 13:12 G	29788565.80	29788566.05	29788566.31	0.0144	0.0030	
Moon	76846-03-22 17:03 G	29788565.96	29788566.21	29788566.47	0.0144	0.0023	*
Venus	76846-07-15 02:53 G	29788680.53	29788680.62	29788680.73	0.0144	0.0128	
Venus	76847-02-26 15:36 G	29788906.98	29788907.15	29788907.32	0.0144	0.0087	
Moon	76847-03-27 12:15 G	29788935.81	29788936.01	29788936.22	0.0144	0.0088	

Earth	76847-03-27 15:36 G	29788935.96	29788936.15	29788936.38	0.0144	0.0081	*
Venus	76847-10-11 03:51 G	29789133.46	29789133.66	29789133.87	0.0144	0.0047	
Earth	76848-03-31 18:29 G	29789306.18	29789306.27	29789306.39	0.0144	0.0131	
Moon	76848-03-31 21:36 G	29789306.30	29789306.40	29789306.54	0.0144	0.0125	*
Venus	76848-05-24 16:20 G	29789359.96	29789360.18	29789360.40	0.0144	0.0006	
Venus	76849-01-06 04:48 G	29789586.49	29789586.70	29789586.92	0.0144	0.0036	
Venus	76849-08-20 17:17 G	29789813.03	29789813.22	29789813.40	0.0144	0.0076	
Venus	76850-04-04 05:17 G	29790039.60	29790039.72	29790039.86	0.0144	0.0117	
Mercury	76852-10-31 02:53 G	29790980.57	29790980.62	29790980.69	0.0144	0.0130	
Mercury	76853-01-27 07:27 G	29791068.72	29791068.81	29791068.92	0.0144	0.0107	
Mercury	76853-04-25 12:15 G	29791156.90	29791157.01	29791157.14	0.0144	0.0083	
Mercury	76853-07-22 17:03 G	29791245.08	29791245.21	29791245.36	0.0144	0.0059	
Mercury	76853-10-18 22:05 G	29791333.27	29791333.42	29791333.57	0.0144	0.0034	
Mercury	76854-01-15 02:53 G	29791421.47	29791421.62	29791421.77	0.0144	0.0010	
Mercury	76854-04-13 07:56 G	29791509.68	29791509.83	29791509.98	0.0144	0.0015	
Mercury	76854-07-10 12:44 G	29791597.89	29791598.03	29791598.18	0.0144	0.0039	
Mercury	76854-10-06 17:32 G	29791686.10	29791686.23	29791686.38	0.0143	0.0065	
Mercury	76855-01-02 22:34 G	29791774.33	29791774.44	29791774.57	0.0143	0.0089	
Mercury	76855-04-01 03:36 G	29791862.57	29791862.65	29791862.75	0.0143	0.0114	
Mercury	76855-06-28 08:39 G	29791950.84	29791950.86	29791950.90	0.0143	0.0140	
Mars	76868-08-20 11:03 G	29796752.81	29796752.96	29796753.13	0.0139	0.0115	
Earth	76883-09-07 00:58 G	29802248.52	29802248.54	29802248.59	0.0135	0.0133	
Earth	76884-09-10 08:24 G	29802617.67	29802617.85	29802618.04	0.0135	0.0093	
Moon	76884-09-10 10:20 G	29802617.75	29802617.93	29802618.12	0.0135	0.0094	*
Moon	76885-09-14 13:56 G	29802986.86	29802987.08	29802987.31	0.0135	0.0050	
Earth	76885-09-14 15:22 G	29802986.91	29802987.14	29802987.38	0.0135	0.0053	*
Earth	76886-09-18 22:05 G	29803356.17	29803356.42	29803356.67	0.0134	0.0012	
Moon	76886-09-19 00:00 G	29803356.25	29803356.50	29803356.76	0.0134	0.0018	*
Moon	76887-09-23 02:24 G	29803725.37	29803725.60	29803725.84	0.0134	0.0036	
Earth	76887-09-23 04:34 G	29803725.44	29803725.69	29803725.94	0.0134	0.0028	*

Venus	76888-01-22 19:12 G	29803847.21	29803847.30	29803847.42	0.0134	0.0118
Venus	76888-09-05 00:29 G	29804073.36	29804073.52	29804073.69	0.0134	0.0085
Earth	76888-09-26 10:20 G	29804094.73	29804094.93	29804095.16	0.0134	0.0069
Moon	76888-09-26 12:15 G	29804094.79	29804095.01	29804095.25	0.0134	0.0062 *
Venus	76889-04-19 05:32 G	29804299.54	29804299.73	29804299.94	0.0134	0.0053
Moon	76889-09-30 13:56 G	29804463.97	29804464.08	29804464.23	0.0134	0.0114
Earth	76889-09-30 16:20 G	29804464.05	29804464.18	29804464.34	0.0134	0.0109 *
Venus	76889-12-01 10:48 G	29804525.74	29804525.95	29804526.17	0.0134	0.0021
Venus	76890-07-15 16:05 G	29804751.96	29804752.17	29804752.39	0.0134	0.0012
Venus	76891-02-26 21:08 G	29804978.18	29804978.38	29804978.59	0.0134	0.0044
Venus	76891-10-11 02:10 G	29805204.42	29805204.59	29805204.77	0.0134	0.0077
Venus	76892-05-24 07:12 G	29805430.68	29805430.80	29805430.93	0.0134	0.0109
Mercury	76895-05-16 17:17 G	29806518.19	29806518.22	29806518.26	0.0134	0.0132
Mercury	76895-08-12 22:20 G	29806606.35	29806606.43	29806606.53	0.0134	0.0110
Mercury	76895-11-09 03:22 G	29806694.53	29806694.64	29806694.78	0.0134	0.0088
Mercury	76896-02-05 08:24 G	29806782.72	29806782.85	29806783.01	0.0134	0.0066
Mercury	76896-05-03 13:41 G	29806870.92	29806871.07	29806871.23	0.0135	0.0043
Mercury	76896-07-30 18:44 G	29806959.12	29806959.28	29806959.44	0.0135	0.0021
Mercury	76896-10-26 23:46 G	29807047.33	29807047.49	29807047.65	0.0135	0.0001
Mercury	76897-01-23 04:34 G	29807135.54	29807135.69	29807135.86	0.0135	0.0023
Mercury	76897-04-21 09:36 G	29807223.75	29807223.90	29807224.05	0.0135	0.0044
Mercury	76897-07-18 14:24 G	29807311.96	29807312.10	29807312.24	0.0135	0.0065
Mercury	76897-10-14 19:12 G	29807400.18	29807400.30	29807400.43	0.0135	0.0086
Mercury	76898-01-11 00:00 G	29807488.41	29807488.50	29807488.60	0.0135	0.0107
Mercury	76898-04-09 04:34 G	29807576.65	29807576.69	29807576.75	0.0135	0.0128
Moon	76927-03-09 14:10 G	29818136.95	29818137.09	29818137.27	0.0143	0.0109
Earth	76927-03-09 16:34 G	29818137.05	29818137.19	29818137.35	0.0143	0.0117 *
Earth	76928-03-13 18:00 G	29818507.04	29818507.25	29818507.49	0.0143	0.0067
Moon	76928-03-13 20:39 G	29818507.15	29818507.36	29818507.60	0.0143	0.0071 *
Moon	76929-03-18 16:48 G	29818876.95	29818877.20	29818877.46	0.0144	0.0017

Earth	76929-03-18 20:24 G	29818877.09	29818877.35	29818877.60	0.0144	0.0016	*
Earth	76930-03-23 22:20 G	29819247.19	29819247.43	29819247.69	0.0144	0.0036	
Moon	76930-03-24 01:56 G	29819247.33	29819247.58	29819247.83	0.0144	0.0040	*
Venus	76930-10-27 20:39 G	29819465.23	29819465.36	29819465.53	0.0144	0.0107	
Moon	76931-03-28 21:22 G	29819617.19	29819617.39	29819617.62	0.0144	0.0079	
Earth	76931-03-29 00:58 G	29819617.35	29819617.54	29819617.76	0.0144	0.0087	*
Venus	76931-06-11 09:22 G	29819691.70	29819691.89	29819692.09	0.0144	0.0066	
Venus	76932-01-23 22:05 G	29819918.20	29819918.42	29819918.64	0.0144	0.0025	
Earth	76932-04-02 03:22 G	29819987.58	29819987.64	29819987.73	0.0144	0.0137	
Venus	76932-09-06 10:20 G	29820144.72	29820144.93	29820145.15	0.0144	0.0016	
Venus	76933-04-20 22:34 G	29820371.25	29820371.44	29820371.65	0.0144	0.0057	
Venus	76933-12-03 10:34 G	29820597.80	29820597.94	29820598.12	0.0144	0.0098	
Venus	76934-07-17 23:03 G	29820824.41	29820824.46	29820824.53	0.0144	0.0138	
Mercury	76936-11-21 09:51 G	29821681.85	29821681.91	29821681.99	0.0144	0.0124	
Mercury	76937-02-17 14:39 G	29821770.01	29821770.11	29821770.22	0.0144	0.0100	
Mercury	76937-05-16 19:27 G	29821858.19	29821858.31	29821858.44	0.0144	0.0076	
Mercury	76937-08-13 00:15 G	29821946.37	29821946.51	29821946.65	0.0144	0.0052	
Mercury	76937-11-09 05:03 G	29822034.57	29822034.71	29822034.86	0.0144	0.0028	
Mercury	76938-02-05 10:05 G	29822122.77	29822122.92	29822123.07	0.0144	0.0004	
Mercury	76938-05-04 14:53 G	29822210.97	29822211.12	29822211.27	0.0144	0.0021	
Mercury	76938-07-31 19:56 G	29822299.18	29822299.33	29822299.47	0.0143	0.0046	
Mercury	76938-10-28 00:44 G	29822387.40	29822387.53	29822387.67	0.0143	0.0071	
Mercury	76939-01-24 05:46 G	29822475.63	29822475.74	29822475.86	0.0143	0.0096	
Mercury	76939-04-22 10:34 G	29822563.88	29822563.94	29822564.04	0.0143	0.0122	
Mars	76951-05-16 18:44 G	29826971.12	29826971.28	29826971.47	0.0140	0.0110	
Moon	76967-09-08 08:53 G	29832929.80	29832929.87	29832929.98	0.0135	0.0126	
Earth	76967-09-08 09:51 G	29832929.87	29832929.91	29832930.01	0.0135	0.0129	*
Earth	76968-09-11 17:46 G	29833299.06	29833299.24	29833299.43	0.0135	0.0088	
Moon	76968-09-11 18:29 G	29833299.08	29833299.27	29833299.47	0.0135	0.0089	*
Moon	76969-09-15 23:17 G	29833668.26	29833668.47	29833668.71	0.0135	0.0051	

Earth	76969-09-16 00:44 G	29833668.30	29833668.53	29833668.78	0.0135	0.0048 *
Earth	76970-09-20 07:27 G	29834037.56	29834037.81	29834038.07	0.0134	0.0007
Moon	76970-09-20 08:39 G	29834037.61	29834037.86	29834038.12	0.0134	0.0003 *
Venus	76971-09-23 04:48 G	29834405.68	29834405.70	29834405.75	0.0134	0.0132
Moon	76971-09-24 12:44 G	29834406.80	29834407.03	29834407.27	0.0134	0.0028
Earth	76971-09-24 14:10 G	29834406.84	29834407.09	29834407.33	0.0134	0.0034 *
Venus	76972-05-06 09:51 G	29834631.78	29834631.91	29834632.07	0.0134	0.0101
Earth	76972-09-27 20:10 G	29834776.13	29834776.34	29834776.55	0.0134	0.0074
Moon	76972-09-27 21:36 G	29834776.21	29834776.40	29834776.62	0.0134	0.0081 *
Venus	76972-12-18 15:08 G	29834857.95	29834858.13	29834858.32	0.0134	0.0068
Venus	76973-08-01 20:39 G	29835084.15	29835084.36	29835084.56	0.0134	0.0036
Moon	76973-10-02 00:44 G	29835145.39	29835145.53	29835145.68	0.0134	0.0108
Earth	76973-10-02 01:56 G	29835145.45	29835145.58	29835145.72	0.0134	0.0114 *
Venus	76974-03-16 01:41 G	29835310.35	29835310.57	29835310.78	0.0134	0.0003
Venus	76974-10-28 06:29 G	29835536.57	29835536.77	29835536.99	0.0134	0.0029
Venus	76975-06-11 11:46 G	29835762.80	29835762.99	29835763.18	0.0134	0.0061
Venus	76976-01-23 16:48 G	29835989.05	29835989.20	29835989.36	0.0134	0.0094
Venus	76976-09-05 22:05 G	29836215.35	29836215.42	29836215.49	0.0134	0.0126
Mercury	76979-06-07 00:00 G	29837219.45	29837219.50	29837219.57	0.0134	0.0126
Mercury	76979-09-03 05:17 G	29837307.62	29837307.72	29837307.83	0.0134	0.0103
Mercury	76979-11-30 10:34 G	29837395.81	29837395.94	29837396.07	0.0134	0.0081
Mercury	76980-02-26 15:36 G	29837484.00	29837484.15	29837484.30	0.0134	0.0059
Mercury	76980-05-24 20:39 G	29837572.20	29837572.36	29837572.52	0.0134	0.0037
Mercury	76980-08-21 01:41 G	29837660.41	29837660.57	29837660.73	0.0135	0.0015
Mercury	76980-11-17 06:44 G	29837748.62	29837748.78	29837748.94	0.0135	0.0007
Mercury	76981-02-13 11:32 G	29837836.83	29837836.98	29837837.14	0.0135	0.0029
Mercury	76981-05-12 16:34 G	29837925.04	29837925.19	29837925.34	0.0135	0.0050
Mercury	76981-08-08 21:22 G	29838013.26	29838013.39	29838013.53	0.0135	0.0071
Mercury	76981-11-05 01:56 G	29838101.48	29838101.58	29838101.71	0.0135	0.0093
Mercury	76982-02-01 06:44 G	29838189.71	29838189.78	29838189.88	0.0135	0.0114

Mercury 76982-04-30 11:46 G 29838277.98 29838277.99 29838278.00 0.0135 0.0134

Mars 76995-07-22 22:20 G 29843109.13 29843109.43 29843109.76 0.0138 0.0046

78TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 78th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	77011-03-10 23:17	G	29848818.35	29848818.47	29848818.62	0.0143	0.0119	
Earth	77011-03-11 00:44	G	29848818.39	29848818.53	29848818.71	0.0143	0.0112	*
Earth	77012-03-15 02:10	G	29849188.37	29849188.59	29849188.83	0.0143	0.0062	
Moon	77012-03-15 04:48	G	29849188.46	29849188.70	29849188.95	0.0143	0.0057	*
Moon	77013-03-20 01:56	G	29849558.33	29849558.58	29849558.83	0.0144	0.0012	
Earth	77013-03-20 04:20	G	29849558.43	29849558.68	29849558.94	0.0144	0.0011	*
Earth	77014-03-25 06:29	G	29849928.53	29849928.77	29849929.02	0.0144	0.0041	
Moon	77014-03-25 09:51	G	29849928.67	29849928.91	29849929.17	0.0144	0.0036	*
Venus	77014-06-28 01:27	G	29850023.48	29850023.56	29850023.68	0.0144	0.0127	
Venus	77015-02-09 14:10	G	29850249.92	29850250.09	29850250.27	0.0144	0.0086	
Moon	77015-03-30 05:17	G	29850298.55	29850298.72	29850298.92	0.0144	0.0099	
Earth	77015-03-30 08:39	G	29850298.68	29850298.86	29850299.07	0.0144	0.0092	*
Venus	77015-09-24 02:39	G	29850476.40	29850476.61	29850476.82	0.0144	0.0045	
Earth	77016-04-03 11:17	G	29850668.95	29850668.97	29850669.01	0.0144	0.0142	
Moon	77016-04-03 14:39	G	29850669.04	29850669.11	29850669.22	0.0144	0.0135	
Venus	77016-05-07 15:08	G	29850702.91	29850703.13	29850703.35	0.0144	0.0005	
Venus	77016-12-20 03:08	G	29850929.43	29850929.63	29850929.85	0.0144	0.0037	

Venus	77017-08-03 15:36 G	29851155.97	29851156.15	29851156.34	0.0144	0.0077
Venus	77018-03-18 03:36 G	29851382.54	29851382.65	29851382.79	0.0144	0.0118
Mercury	77020-09-15 12:00 G	29852294.99	29852295.00	29852295.03	0.0144	0.0142
Mercury	77020-12-12 16:34 G	29852383.12	29852383.19	29852383.29	0.0144	0.0119
Mercury	77021-03-10 21:22 G	29852471.29	29852471.39	29852471.51	0.0144	0.0095
Mercury	77021-06-07 02:10 G	29852559.47	29852559.59	29852559.73	0.0144	0.0071
Mercury	77021-09-03 07:12 G	29852647.66	29852647.80	29852647.94	0.0144	0.0047
Mercury	77021-11-30 12:00 G	29852735.85	29852736.00	29852736.15	0.0144	0.0022
Mercury	77022-02-26 16:48 G	29852824.05	29852824.20	29852824.35	0.0144	0.0003
Mercury	77022-05-25 21:51 G	29852912.26	29852912.41	29852912.56	0.0143	0.0027
Mercury	77022-08-22 02:39 G	29853000.47	29853000.61	29853000.75	0.0143	0.0051
Mercury	77022-11-18 07:41 G	29853088.69	29853088.82	29853088.95	0.0143	0.0076
Mercury	77023-02-14 12:29 G	29853176.92	29853177.02	29853177.14	0.0143	0.0102
Mercury	77023-05-13 17:46 G	29853265.17	29853265.24	29853265.31	0.0143	0.0127
Mars	77036-01-10 05:46 G	29857889.47	29857889.74	29857890.02	0.0140	0.0025
Earth	77051-09-09 19:56 G	29863611.25	29863611.33	29863611.45	0.0135	0.0124
Moon	77051-09-09 20:24 G	29863611.28	29863611.35	29863611.42	0.0135	0.0128 *
Earth	77052-09-13 03:51 G	29863980.47	29863980.66	29863980.86	0.0135	0.0083
Moon	77052-09-13 04:34 G	29863980.49	29863980.69	29863980.90	0.0135	0.0082 *
Moon	77053-09-17 10:48 G	29864349.72	29864349.95	29864350.18	0.0135	0.0041
Earth	77053-09-17 10:48 G	29864349.72	29864349.95	29864350.20	0.0135	0.0042 *
Earth	77054-09-21 17:46 G	29864718.99	29864719.24	29864719.49	0.0134	0.0001
Moon	77054-09-21 18:29 G	29864719.01	29864719.27	29864719.53	0.0134	0.0006 *
Moon	77055-09-25 23:03 G	29865088.25	29865088.46	29865088.70	0.0134	0.0047
Earth	77055-09-26 00:00 G	29865088.27	29865088.50	29865088.75	0.0134	0.0039 *
Venus	77056-01-05 20:10 G	29865190.23	29865190.34	29865190.45	0.0134	0.0115
Venus	77056-08-19 01:12 G	29865416.39	29865416.55	29865416.73	0.0134	0.0083
Earth	77056-09-29 06:00 G	29865457.56	29865457.75	29865457.96	0.0134	0.0080
Moon	77056-09-29 06:44 G	29865457.57	29865457.78	29865458.00	0.0134	0.0073 *
Venus	77057-04-02 06:15 G	29865642.57	29865642.76	29865642.97	0.0134	0.0051

Moon	77057-10-03 10:34 G	29865826.88	29865826.94	29865827.04	0.0134	0.0126
Earth	77057-10-03 11:32 G	29865826.89	29865826.98	29865827.12	0.0134	0.0120 *
Venus	77057-11-14 11:32 G	29865868.77	29865868.98	29865869.19	0.0134	0.0018
Venus	77058-06-28 16:34 G	29866094.98	29866095.19	29866095.41	0.0134	0.0015
Venus	77059-02-09 21:51 G	29866321.20	29866321.41	29866321.61	0.0134	0.0047
Venus	77059-09-24 02:24 G	29866547.44	29866547.60	29866547.79	0.0134	0.0080
Venus	77060-05-07 07:27 G	29866773.71	29866773.81	29866773.95	0.0134	0.0112
Mercury	77063-06-28 07:12 G	29867920.73	29867920.80	29867920.88	0.0134	0.0119
Mercury	77063-09-24 12:15 G	29868008.91	29868009.01	29868009.13	0.0134	0.0097
Mercury	77063-12-21 17:32 G	29868097.10	29868097.23	29868097.37	0.0134	0.0074
Mercury	77064-03-18 22:34 G	29868185.30	29868185.44	29868185.60	0.0134	0.0052
Mercury	77064-06-15 03:36 G	29868273.50	29868273.65	29868273.82	0.0134	0.0030
Mercury	77064-09-11 08:53 G	29868361.70	29868361.87	29868362.03	0.0134	0.0009
Mercury	77064-12-08 13:41 G	29868449.91	29868450.07	29868450.24	0.0135	0.0014
Mercury	77065-03-06 18:44 G	29868538.12	29868538.28	29868538.44	0.0135	0.0035
Mercury	77065-06-02 23:32 G	29868626.34	29868626.48	29868626.63	0.0135	0.0057
Mercury	77065-08-30 04:34 G	29868714.56	29868714.69	29868714.82	0.0135	0.0078
Mercury	77065-11-26 09:22 G	29868802.78	29868802.89	29868803.00	0.0135	0.0099
Mercury	77066-02-22 14:10 G	29868891.02	29868891.09	29868891.16	0.0135	0.0120
Mars	77080-03-18 21:08 G	29874029.23	29874029.38	29874029.59	0.0139	0.0117
Moon	77095-03-11 08:24 G	29879499.69	29879499.85	29879500.05	0.0143	0.0099
Earth	77095-03-11 09:36 G	29879499.74	29879499.90	29879500.08	0.0143	0.0106 *
Earth	77096-03-15 10:48 G	29879869.73	29879869.95	29879870.20	0.0143	0.0057
Moon	77096-03-15 12:29 G	29879869.79	29879870.02	29879870.27	0.0143	0.0061 *
Moon	77097-03-20 10:34 G	29880239.69	29880239.94	29880240.19	0.0144	0.0005
Earth	77097-03-20 12:58 G	29880239.78	29880240.04	29880240.30	0.0144	0.0005 *
Earth	77098-03-25 14:53 G	29880609.88	29880610.12	29880610.37	0.0144	0.0046
Moon	77098-03-25 17:32 G	29880609.99	29880610.23	29880610.48	0.0144	0.0049 *
Venus	77098-10-09 18:58 G	29880808.16	29880808.29	29880808.45	0.0144	0.0106
Moon	77099-03-30 13:41 G	29880979.89	29880980.07	29880980.28	0.0144	0.0090

Earth	77099-03-30 17:17 G	29880980.03	29880980.22	29880980.41	0.0144	0.0097	*
Venus	77099-05-24 07:27 G	29881034.62	29881034.81	29881035.02	0.0144	0.0065	
Venus	77100-01-05 20:10 G	29881261.12	29881261.34	29881261.55	0.0144	0.0024	
Venus	77100-08-20 08:24 G	29881487.63	29881487.85	29881488.07	0.0144	0.0017	
Venus	77101-04-03 20:24 G	29881714.16	29881714.35	29881714.56	0.0144	0.0058	
Venus	77101-11-16 08:39 G	29881940.71	29881940.86	29881941.03	0.0144	0.0098	
Venus	77102-06-30 20:39 G	29882167.32	29882167.36	29882167.44	0.0144	0.0139	
Mercury	77104-10-06 19:12 G	29882996.25	29882996.30	29882996.34	0.0144	0.0136	
Mercury	77105-01-02 23:46 G	29883084.40	29883084.49	29883084.58	0.0144	0.0113	
Mercury	77105-04-01 04:34 G	29883172.57	29883172.69	29883172.80	0.0144	0.0089	
Mercury	77105-06-28 09:08 G	29883260.75	29883260.88	29883261.02	0.0144	0.0065	
Mercury	77105-09-24 13:56 G	29883348.94	29883349.08	29883349.23	0.0143	0.0041	
Mercury	77105-12-21 18:44 G	29883437.14	29883437.28	29883437.44	0.0143	0.0017	
Mercury	77106-03-19 23:46 G	29883525.34	29883525.49	29883525.64	0.0143	0.0008	
Mercury	77106-06-16 04:34 G	29883613.54	29883613.69	29883613.84	0.0143	0.0032	
Mercury	77106-09-12 09:22 G	29883701.76	29883701.89	29883702.04	0.0143	0.0058	
Mercury	77106-12-09 14:24 G	29883789.98	29883790.10	29883790.23	0.0143	0.0082	
Mercury	77107-03-07 19:27 G	29883878.22	29883878.31	29883878.42	0.0143	0.0107	
Mercury	77107-06-04 00:29 G	29883966.47	29883966.52	29883966.58	0.0143	0.0132	
Earth	77135-09-11 05:17 G	29894292.60	29894292.72	29894292.83	0.0135	0.0119	
Moon	77135-09-11 05:03 G	29894292.60	29894292.71	29894292.85	0.0135	0.0115	*
Moon	77136-09-14 12:00 G	29894661.80	29894662.00	29894662.21	0.0135	0.0081	
Earth	77136-09-14 12:15 G	29894661.83	29894662.01	29894662.23	0.0135	0.0079	*
Moon	77137-09-18 19:27 G	29895031.09	29895031.31	29895031.56	0.0135	0.0040	
Earth	77137-09-18 19:41 G	29895031.09	29895031.32	29895031.57	0.0135	0.0038	*
Moon	77138-09-23 02:24 G	29895400.34	29895400.60	29895400.86	0.0135	0.0007	
Earth	77138-09-23 02:39 G	29895400.36	29895400.61	29895400.86	0.0135	0.0004	*
Venus	77139-09-06 05:17 G	29895748.67	29895748.72	29895748.78	0.0134	0.0130	
Earth	77139-09-27 08:39 G	29895769.64	29895769.86	29895770.11	0.0134	0.0045	
Moon	77139-09-27 08:53 G	29895769.65	29895769.87	29895770.11	0.0134	0.0039	*

Venus	77140-04-19 10:20 G	29895974.79	29895974.93	29895975.08	0.0134	0.0098
Earth	77140-09-30 14:39 G	29896138.94	29896139.11	29896139.32	0.0134	0.0085
Moon	77140-09-30 15:08 G	29896138.96	29896139.13	29896139.34	0.0134	0.0091 *
Venus	77140-12-01 15:22 G	29896200.96	29896201.14	29896201.34	0.0134	0.0066
Venus	77141-07-15 20:39 G	29896427.16	29896427.36	29896427.58	0.0134	0.0034
Moon	77141-10-04 20:39 G	29896508.26	29896508.36	29896508.49	0.0134	0.0118
Earth	77141-10-04 20:53 G	29896508.28	29896508.37	29896508.47	0.0134	0.0124 *
Venus	77142-02-27 01:56 G	29896653.36	29896653.58	29896653.80	0.0134	0.0001
Venus	77142-10-11 06:58 G	29896879.58	29896879.79	29896880.00	0.0134	0.0031
Venus	77143-05-25 12:00 G	29897105.81	29897106.00	29897106.19	0.0134	0.0064
Venus	77144-01-06 16:48 G	29897332.07	29897332.20	29897332.36	0.0134	0.0096
Venus	77144-08-19 22:05 G	29897558.37	29897558.42	29897558.50	0.0134	0.0128
Mercury	77147-07-19 13:56 G	29898622.00	29898622.08	29898622.18	0.0134	0.0113
Mercury	77147-10-15 19:12 G	29898710.19	29898710.30	29898710.43	0.0134	0.0090
Mercury	77148-01-12 00:29 G	29898798.38	29898798.52	29898798.66	0.0134	0.0068
Mercury	77148-04-09 05:32 G	29898886.58	29898886.73	29898886.89	0.0134	0.0046
Mercury	77148-07-06 10:48 G	29898974.78	29898974.95	29898975.11	0.0135	0.0024
Mercury	77148-10-02 15:36 G	29899062.99	29899063.15	29899063.32	0.0135	0.0004
Mercury	77148-12-29 20:39 G	29899151.20	29899151.36	29899151.52	0.0135	0.0020
Mercury	77149-03-28 01:41 G	29899239.42	29899239.57	29899239.72	0.0135	0.0041
Mercury	77149-06-24 06:29 G	29899327.63	29899327.77	29899327.92	0.0135	0.0063
Mercury	77149-09-20 11:17 G	29899415.85	29899415.97	29899416.10	0.0135	0.0085
Mercury	77149-12-17 16:05 G	29899504.08	29899504.17	29899504.28	0.0135	0.0106
Mercury	77150-03-15 20:53 G	29899592.33	29899592.37	29899592.43	0.0135	0.0127
Earth	77179-03-12 18:58 G	29910181.13	29910181.29	29910181.49	0.0143	0.0101
Moon	77179-03-12 18:58 G	29910181.14	29910181.29	29910181.46	0.0143	0.0108 *
Earth	77180-03-16 20:24 G	29910551.12	29910551.35	29910551.60	0.0143	0.0051
Moon	77180-03-16 21:51 G	29910551.16	29910551.41	29910551.66	0.0143	0.0045 *
Moon	77181-03-21 20:53 G	29910921.12	29910921.37	29910921.62	0.0144	0.0002
Earth	77181-03-21 22:20 G	29910921.17	29910921.43	29910921.68	0.0144	0.0003 *

Earth	77182-03-26 23:46 G	29911291.26	29911291.49	29911291.74	0.0144	0.0052
Moon	77182-03-27 02:39 G	29911291.36	29911291.61	29911291.86	0.0144	0.0048 *
Venus	77182-06-10 00:15 G	29911366.42	29911366.51	29911366.64	0.0144	0.0125
Venus	77183-01-22 13:12 G	29911592.87	29911593.05	29911593.23	0.0144	0.0084
Moon	77183-03-31 23:03 G	29911661.32	29911661.46	29911661.64	0.0144	0.0109
Earth	77183-04-01 02:10 G	29911661.41	29911661.59	29911661.77	0.0144	0.0102 *
Venus	77183-09-06 01:12 G	29911819.35	29911819.55	29911819.77	0.0144	0.0044
Venus	77184-04-19 13:41 G	29912045.85	29912046.07	29912046.29	0.0144	0.0003
Venus	77184-12-02 01:56 G	29912272.37	29912272.58	29912272.79	0.0144	0.0038
Venus	77185-07-16 13:56 G	29912498.91	29912499.08	29912499.28	0.0144	0.0079
Venus	77186-02-28 02:24 G	29912725.49	29912725.60	29912725.73	0.0144	0.0119
Mercury	77188-10-27 02:10 G	29913697.53	29913697.59	29913697.65	0.0144	0.0130
Mercury	77189-01-23 06:44 G	29913785.69	29913785.78	29913785.88	0.0144	0.0106
Mercury	77189-04-21 11:32 G	29913873.86	29913873.98	29913874.10	0.0144	0.0083
Mercury	77189-07-18 16:20 G	29913962.04	29913962.18	29913962.32	0.0143	0.0059
Mercury	77189-10-14 21:08 G	29914050.23	29914050.38	29914050.52	0.0143	0.0035
Mercury	77190-01-11 01:56 G	29914138.43	29914138.58	29914138.73	0.0143	0.0010
Mercury	77190-04-09 06:44 G	29914226.63	29914226.78	29914226.93	0.0143	0.0014
Mercury	77190-07-06 11:32 G	29914314.84	29914314.98	29914315.13	0.0143	0.0039
Mercury	77190-10-02 16:34 G	29914403.06	29914403.19	29914403.33	0.0143	0.0063
Mercury	77190-12-29 21:22 G	29914491.28	29914491.39	29914491.52	0.0143	0.0089
Mercury	77191-03-28 02:24 G	29914579.52	29914579.60	29914579.70	0.0143	0.0114
Mercury	77191-06-24 07:41 G	29914667.78	29914667.82	29914667.85	0.0143	0.0139
Mars	77203-05-30 21:08 G	29919026.15	29919026.38	29919026.65	0.0140	0.0068
Earth	77219-09-11 14:10 G	29924973.98	29924974.09	29924974.24	0.0135	0.0115
Moon	77219-09-11 15:22 G	29924974.06	29924974.14	29924974.27	0.0135	0.0121 *
Moon	77220-09-14 21:22 G	29925343.18	29925343.39	29925343.62	0.0135	0.0071
Earth	77220-09-14 21:51 G	29925343.21	29925343.41	29925343.63	0.0135	0.0074 *
Earth	77221-09-19 05:03 G	29925712.47	29925712.71	29925712.96	0.0135	0.0033
Moon	77221-09-19 06:00 G	29925712.52	29925712.75	29925712.99	0.0135	0.0033 *

Moon	77222-09-23 11:03 G	29926081.71	29926081.96	29926082.23	0.0135	0.0006
Earth	77222-09-23 11:46 G	29926081.74	29926081.99	29926082.25	0.0135	0.0009 *
Earth	77223-09-27 18:15 G	29926451.03	29926451.26	29926451.50	0.0135	0.0049
Moon	77223-09-27 18:29 G	29926451.06	29926451.27	29926451.51	0.0135	0.0056 *
Venus	77223-12-18 19:41 G	29926533.22	29926533.32	29926533.45	0.0135	0.0113
Venus	77224-08-01 00:58 G	29926759.38	29926759.54	29926759.72	0.0134	0.0081
Moon	77224-09-30 23:17 G	29926820.28	29926820.47	29926820.69	0.0134	0.0083
Earth	77224-10-01 00:00 G	29926820.33	29926820.50	29926820.70	0.0134	0.0090 *
Venus	77225-03-15 06:15 G	29926985.56	29926985.76	29926985.97	0.0134	0.0048
Earth	77225-10-05 06:00 G	29927189.69	29927189.75	29927189.84	0.0134	0.0129
Venus	77225-10-27 11:17 G	29927211.76	29927211.97	29927212.19	0.0134	0.0016
Venus	77226-06-10 16:34 G	29927437.97	29927438.19	29927438.40	0.0134	0.0017
Venus	77227-01-22 21:22 G	29927664.20	29927664.39	29927664.60	0.0134	0.0049
Venus	77227-09-06 02:24 G	29927890.45	29927890.60	29927890.79	0.0134	0.0082
Venus	77228-04-19 07:41 G	29928116.72	29928116.82	29928116.94	0.0134	0.0114
Mercury	77231-05-12 15:51 G	29929235.12	29929235.16	29929235.21	0.0134	0.0129
Mercury	77231-08-08 20:53 G	29929323.28	29929323.37	29929323.48	0.0134	0.0107
Mercury	77231-11-05 02:10 G	29929411.47	29929411.59	29929411.73	0.0135	0.0084
Mercury	77232-02-01 07:27 G	29929499.66	29929499.81	29929499.96	0.0135	0.0062
Mercury	77232-04-29 12:29 G	29929587.87	29929588.02	29929588.18	0.0135	0.0040
Mercury	77232-07-26 17:32 G	29929676.07	29929676.23	29929676.40	0.0135	0.0018
Mercury	77232-10-22 22:48 G	29929764.28	29929764.45	29929764.61	0.0135	0.0005
Mercury	77233-01-19 03:36 G	29929852.49	29929852.65	29929852.81	0.0135	0.0027
Mercury	77233-04-17 08:39 G	29929940.71	29929940.86	29929941.01	0.0135	0.0048
Mercury	77233-07-14 13:27 G	29930028.93	29930029.06	29930029.20	0.0135	0.0070
Mercury	77233-10-10 18:15 G	29930117.15	29930117.26	29930117.39	0.0135	0.0091
Mercury	77234-01-06 23:17 G	29930205.39	29930205.47	29930205.56	0.0135	0.0112
Mercury	77234-04-05 03:51 G	29930293.65	29930293.66	29930293.70	0.0135	0.0133
Mars	77247-08-05 08:39 G	29935163.53	29935163.86	29935164.19	0.0138	0.0016
Moon	77263-03-13 06:15 G	29940862.57	29940862.76	29940862.96	0.0143	0.0087

Earth	77263-03-13 05:46 G	29940862.57	29940862.74	29940862.95	0.0143	0.0096	*
Moon	77264-03-17 07:27 G	29941232.56	29941232.81	29941233.06	0.0143	0.0051	
Earth	77264-03-17 07:12 G	29941232.56	29941232.80	29941233.05	0.0143	0.0045	*
Moon	77265-03-22 07:27 G	29941602.56	29941602.81	29941603.06	0.0144	0.0008	
Earth	77265-03-22 08:39 G	29941602.61	29941602.86	29941603.12	0.0144	0.0007	*
Venus	77266-02-07 06:44 G	29941924.78	29941924.78	29941924.83	0.0144	0.0143	
Earth	77266-03-27 10:05 G	29941972.70	29941972.92	29941973.17	0.0144	0.0058	
Moon	77266-03-27 11:46 G	29941972.75	29941972.99	29941973.24	0.0144	0.0059	*
Venus	77266-09-21 19:27 G	29942151.16	29942151.31	29942151.47	0.0144	0.0102	
Moon	77267-04-01 09:51 G	29942342.74	29942342.91	29942343.09	0.0144	0.0102	
Earth	77267-04-01 12:29 G	29942342.85	29942343.02	29942343.19	0.0144	0.0108	*
Venus	77267-05-06 07:27 G	29942377.62	29942377.81	29942378.02	0.0144	0.0062	
Venus	77267-12-18 19:56 G	29942604.12	29942604.33	29942604.55	0.0144	0.0021	
Venus	77268-08-01 08:10 G	29942830.63	29942830.84	29942831.06	0.0144	0.0020	
Venus	77269-03-15 20:10 G	29943057.16	29943057.34	29943057.56	0.0144	0.0061	
Venus	77269-10-28 08:39 G	29943283.71	29943283.86	29943284.02	0.0144	0.0101	
Venus	77270-06-11 20:53 G	29943510.34	29943510.37	29943510.42	0.0144	0.0141	
Mercury	77272-11-16 09:22 G	29944398.82	29944398.89	29944398.97	0.0144	0.0123	
Mercury	77273-02-12 13:56 G	29944486.98	29944487.08	29944487.20	0.0143	0.0100	
Mercury	77273-05-11 18:44 G	29944575.16	29944575.28	29944575.41	0.0143	0.0076	
Mercury	77273-08-07 23:32 G	29944663.34	29944663.48	29944663.62	0.0143	0.0052	
Mercury	77273-11-04 04:20 G	29944751.54	29944751.68	29944751.83	0.0143	0.0027	
Mercury	77274-01-31 09:08 G	29944839.73	29944839.88	29944840.03	0.0143	0.0004	
Mercury	77274-04-29 13:56 G	29944927.94	29944928.08	29944928.23	0.0143	0.0022	
Mercury	77274-07-26 18:44 G	29945016.15	29945016.28	29945016.43	0.0143	0.0047	
Mercury	77274-10-22 23:46 G	29945104.36	29945104.49	29945104.63	0.0143	0.0071	
Mercury	77275-01-19 04:48 G	29945192.59	29945192.70	29945192.81	0.0143	0.0096	
Mercury	77275-04-17 09:51 G	29945280.83	29945280.91	29945280.99	0.0143	0.0121	
Mars	77288-01-23 08:53 G	29949944.64	29949944.87	29949945.14	0.0140	0.0067	
Earth	77303-09-12 23:03 G	29955655.33	29955655.46	29955655.61	0.0135	0.0111	

Moon	77303-09-13 00:15 G	29955655.38	29955655.51	29955655.68	0.0135	0.0105 *
Moon	77304-09-16 04:20 G	29956024.48	29956024.68	29956024.91	0.0135	0.0074
Earth	77304-09-16 06:29 G	29956024.56	29956024.77	29956024.99	0.0135	0.0069 *
Earth	77305-09-20 13:41 G	29956393.82	29956394.07	29956394.32	0.0135	0.0028
Moon	77305-09-20 14:53 G	29956393.88	29956394.12	29956394.36	0.0135	0.0028 *
Moon	77306-09-24 18:44 G	29956763.03	29956763.28	29956763.55	0.0135	0.0016
Earth	77306-09-24 20:24 G	29956763.10	29956763.35	29956763.60	0.0135	0.0013 *
Venus	77307-08-19 05:03 G	29957091.65	29957091.71	29957091.77	0.0135	0.0128
Earth	77307-09-29 02:24 G	29957132.39	29957132.60	29957132.85	0.0135	0.0054
Moon	77307-09-29 04:05 G	29957132.45	29957132.67	29957132.90	0.0135	0.0049 *
Venus	77308-04-01 10:05 G	29957317.77	29957317.92	29957318.07	0.0135	0.0096
Moon	77308-10-02 07:27 G	29957501.66	29957501.81	29957502.00	0.0135	0.0101
Earth	77308-10-02 08:39 G	29957501.69	29957501.86	29957502.05	0.0135	0.0094 *
Venus	77308-11-13 15:08 G	29957543.95	29957544.13	29957544.32	0.0134	0.0064
Venus	77309-06-27 20:24 G	29957770.14	29957770.35	29957770.56	0.0134	0.0031
Earth	77309-10-06 14:24 G	29957871.09	29957871.10	29957871.15	0.0134	0.0134
Moon	77309-10-06 15:51 G	29957871.10	29957871.16	29957871.26	0.0134	0.0127 *
Venus	77310-02-09 01:27 G	29957996.35	29957996.56	29957996.78	0.0134	0.0003
Venus	77310-09-23 06:44 G	29958222.57	29958222.78	29958222.99	0.0134	0.0034
Venus	77311-05-07 11:32 G	29958448.80	29958448.98	29958449.18	0.0134	0.0066
Venus	77311-12-19 16:34 G	29958675.06	29958675.19	29958675.35	0.0134	0.0099
Venus	77312-08-01 21:51 G	29958901.38	29958901.41	29958901.48	0.0134	0.0131
Mercury	77315-06-02 22:20 G	29959936.38	29959936.43	29959936.51	0.0135	0.0124
Mercury	77315-08-30 03:51 G	29960024.55	29960024.66	29960024.77	0.0135	0.0101
Mercury	77315-11-26 08:53 G	29960112.74	29960112.87	29960113.01	0.0135	0.0079
Mercury	77316-02-22 14:10 G	29960200.94	29960201.09	29960201.24	0.0135	0.0056
Mercury	77316-05-20 19:27 G	29960289.15	29960289.31	29960289.46	0.0135	0.0034
Mercury	77316-08-17 00:29 G	29960377.35	29960377.52	29960377.68	0.0135	0.0012
Mercury	77316-11-13 05:32 G	29960465.56	29960465.73	29960465.89	0.0135	0.0010
Mercury	77317-02-09 10:20 G	29960553.78	29960553.93	29960554.09	0.0135	0.0032

Mercury	77317-05-08 15:22 G	29960641.99	29960642.14	29960642.29	0.0135	0.0053
Mercury	77317-08-04 20:10 G	29960730.21	29960730.34	29960730.48	0.0135	0.0075
Mercury	77317-11-01 01:12 G	29960818.44	29960818.55	29960818.66	0.0135	0.0096
Mercury	77318-01-28 05:46 G	29960906.68	29960906.74	29960906.83	0.0135	0.0118
Moon	77346-03-09 13:41 G	29971173.99	29971174.07	29971174.18	0.0143	0.0133
Earth	77346-03-09 15:22 G	29971174.11	29971174.14	29971174.22	0.0143	0.0139 *
Earth	77347-03-14 16:05 G	29971543.99	29971544.17	29971544.39	0.0143	0.0089
Moon	77347-03-14 17:17 G	29971544.05	29971544.22	29971544.41	0.0143	0.0096 *
Moon	77348-03-18 17:32 G	29971913.97	29971914.23	29971914.49	0.0143	0.0032
Earth	77348-03-18 17:32 G	29971913.98	29971914.23	29971914.48	0.0143	0.0039 *
Earth	77349-03-23 18:58 G	29972284.03	29972284.29	29972284.55	0.0144	0.0012
Moon	77349-03-23 18:44 G	29972284.04	29972284.28	29972284.53	0.0144	0.0009 *
Earth	77350-03-28 20:24 G	29972654.13	29972654.35	29972654.59	0.0144	0.0064
Moon	77350-03-28 22:05 G	29972654.18	29972654.42	29972654.67	0.0144	0.0061 *
Venus	77350-05-23 01:12 G	29972709.45	29972709.55	29972709.69	0.0144	0.0121
Venus	77351-01-04 13:56 G	29972935.90	29972936.08	29972936.27	0.0144	0.0080
Moon	77351-04-02 20:39 G	29973024.24	29973024.36	29973024.52	0.0144	0.0120
Earth	77351-04-02 22:34 G	29973024.29	29973024.44	29973024.60	0.0144	0.0114 *
Venus	77351-08-19 02:10 G	29973162.38	29973162.59	29973162.81	0.0144	0.0040
Venus	77352-04-01 14:24 G	29973388.88	29973389.10	29973389.32	0.0144	0.0003
Venus	77352-11-14 02:39 G	29973615.40	29973615.61	29973615.82	0.0144	0.0042
Venus	77353-06-28 14:39 G	29973841.95	29973842.11	29973842.31	0.0144	0.0083
Venus	77354-02-10 03:08 G	29974068.53	29974068.63	29974068.76	0.0144	0.0123
Mercury	77356-09-10 12:00 G	29975011.97	29975012.00	29975012.04	0.0144	0.0139
Mercury	77356-12-07 16:34 G	29975100.12	29975100.19	29975100.29	0.0144	0.0116
Mercury	77357-03-05 21:22 G	29975188.28	29975188.39	29975188.51	0.0143	0.0092
Mercury	77357-06-02 02:10 G	29975276.46	29975276.59	29975276.72	0.0143	0.0068
Mercury	77357-08-29 06:58 G	29975364.65	29975364.79	29975364.93	0.0143	0.0044
Mercury	77357-11-25 11:46 G	29975452.84	29975452.99	29975453.14	0.0143	0.0020
Mercury	77358-02-21 16:34 G	29975541.04	29975541.19	29975541.34	0.0143	0.0005

Mercury	77358-05-20 21:22 G	29975629.24	29975629.39	29975629.54	0.0143	0.0029
Mercury	77358-08-17 02:10 G	29975717.45	29975717.59	29975717.73	0.0143	0.0054
Mercury	77358-11-13 07:12 G	29975805.67	29975805.80	29975805.93	0.0143	0.0078
Mercury	77359-02-09 12:00 G	29975893.90	29975894.00	29975894.11	0.0143	0.0103
Mercury	77359-05-08 17:03 G	29975982.15	29975982.21	29975982.28	0.0143	0.0128
Earth	77387-09-13 08:24 G	29986336.70	29986336.85	29986337.01	0.0135	0.0105
Moon	77387-09-13 10:48 G	29986336.82	29986336.95	29986337.09	0.0135	0.0112 *
Moon	77388-09-16 13:41 G	29986705.85	29986706.07	29986706.32	0.0135	0.0061
Earth	77388-09-16 15:36 G	29986705.95	29986706.15	29986706.39	0.0135	0.0065 *
Earth	77389-09-20 22:34 G	29987075.21	29987075.44	29987075.70	0.0135	0.0024
Moon	77389-09-21 01:12 G	29987075.31	29987075.55	29987075.79	0.0135	0.0025 *
Moon	77390-09-25 03:22 G	29987444.39	29987444.64	29987444.91	0.0135	0.0017
Earth	77390-09-25 05:32 G	29987444.48	29987444.73	29987444.98	0.0135	0.0018 *
Earth	77391-09-29 11:32 G	29987813.77	29987813.98	29987814.23	0.0135	0.0059
Moon	77391-09-29 13:27 G	29987813.86	29987814.06	29987814.29	0.0135	0.0064 *
Venus	77391-11-30 19:27 G	29987876.19	29987876.31	29987876.43	0.0135	0.0111
Venus	77392-07-14 00:44 G	29988102.36	29988102.53	29988102.71	0.0134	0.0079
Moon	77392-10-02 15:36 G	29988182.98	29988183.15	29988183.35	0.0134	0.0093
Earth	77392-10-02 17:46 G	29988183.08	29988183.24	29988183.42	0.0134	0.0099 *
Venus	77393-02-25 05:46 G	29988328.54	29988328.74	29988328.95	0.0134	0.0047
Venus	77393-10-09 10:48 G	29988554.74	29988554.95	29988555.17	0.0134	0.0015
Venus	77394-05-23 16:05 G	29988780.95	29988781.17	29988781.38	0.0134	0.0018
Venus	77395-01-04 21:08 G	29989007.18	29989007.38	29989007.58	0.0134	0.0051
Venus	77395-08-19 02:10 G	29989233.43	29989233.59	29989233.77	0.0134	0.0083
Venus	77396-04-01 07:12 G	29989459.71	29989459.80	29989459.93	0.0134	0.0116
Mercury	77399-06-23 05:17 G	29990637.65	29990637.72	29990637.81	0.0135	0.0118
Mercury	77399-09-19 10:34 G	29990725.83	29990725.94	29990726.06	0.0135	0.0095
Mercury	77399-12-16 15:36 G	29990814.02	29990814.15	29990814.30	0.0135	0.0073
Mercury	77400-03-14 20:53 G	29990902.22	29990902.37	29990902.53	0.0135	0.0050
Mercury	77400-06-11 02:10 G	29990990.43	29990990.59	29990990.75	0.0135	0.0028

Mercury	77400-09-07 07:12 G	29991078.64	29991078.80	29991078.96	0.0135	0.0006
Mercury	77400-12-04 12:15 G	29991166.85	29991167.01	29991167.17	0.0135	0.0016
Mercury	77401-03-02 17:03 G	29991255.06	29991255.21	29991255.38	0.0135	0.0038
Mercury	77401-05-29 22:20 G	29991343.28	29991343.43	29991343.57	0.0135	0.0059
Mercury	77401-08-26 02:53 G	29991431.50	29991431.62	29991431.76	0.0135	0.0081
Mercury	77401-11-22 07:56 G	29991519.73	29991519.83	29991519.94	0.0135	0.0102
Mercury	77402-02-18 12:44 G	29991607.97	29991608.03	29991608.10	0.0135	0.0123
Mars	77414-12-22 13:56 G	29996297.85	29996298.08	29996298.37	0.0138	0.0088
Moon	77430-03-10 22:48 G	30001855.38	30001855.45	30001855.52	0.0143	0.0137
Earth	77430-03-11 00:58 G	30001855.46	30001855.54	30001855.63	0.0143	0.0133 *
Earth	77431-03-16 01:12 G	30002225.36	30002225.55	30002225.77	0.0143	0.0084
Moon	77431-03-16 02:53 G	30002225.42	30002225.62	30002225.84	0.0143	0.0076 *
Moon	77432-03-20 01:12 G	30002595.30	30002595.55	30002595.82	0.0143	0.0040
Earth	77432-03-20 02:24 G	30002595.36	30002595.60	30002595.86	0.0143	0.0034 *
Earth	77433-03-25 04:05 G	30002965.42	30002965.67	30002965.93	0.0144	0.0018
Moon	77433-03-25 04:05 G	30002965.43	30002965.67	30002965.92	0.0144	0.0021 *
Venus	77434-01-21 06:58 G	30003267.76	30003267.79	30003267.86	0.0144	0.0140
Moon	77434-03-30 05:46 G	30003335.52	30003335.74	30003335.98	0.0144	0.0069
Earth	77434-03-30 05:46 G	30003335.52	30003335.74	30003335.97	0.0144	0.0069 *
Venus	77434-09-04 19:12 G	30003494.16	30003494.30	30003494.48	0.0144	0.0100
Moon	77435-04-04 06:29 G	30003705.63	30003705.77	30003705.93	0.0144	0.0115
Earth	77435-04-04 07:56 G	30003705.70	30003705.83	30003705.98	0.0144	0.0120 *
Venus	77435-04-19 07:41 G	30003720.63	30003720.82	30003721.03	0.0144	0.0059
Venus	77435-12-01 20:10 G	30003947.13	30003947.34	30003947.56	0.0144	0.0018
Venus	77436-07-15 08:39 G	30004173.64	30004173.86	30004174.08	0.0144	0.0023
Venus	77437-02-26 20:53 G	30004400.18	30004400.37	30004400.58	0.0144	0.0064
Venus	77437-10-11 09:08 G	30004626.74	30004626.88	30004627.04	0.0144	0.0104
Mercury	77440-10-01 19:12 G	30005713.25	30005713.30	30005713.37	0.0144	0.0132
Mercury	77440-12-28 23:46 G	30005801.41	30005801.49	30005801.60	0.0144	0.0109
Mercury	77441-03-27 04:34 G	30005889.58	30005889.69	30005889.82	0.0143	0.0085

Mercury	77441-06-23 09:22 G	30005977.76	30005977.89	30005978.03	0.0143	0.0061
Mercury	77441-09-19 14:10 G	30006065.95	30006066.09	30006066.24	0.0143	0.0037
Mercury	77441-12-16 18:58 G	30006154.14	30006154.29	30006154.44	0.0143	0.0013
Mercury	77442-03-14 23:46 G	30006242.34	30006242.49	30006242.64	0.0143	0.0012
Mercury	77442-06-11 04:34 G	30006330.55	30006330.69	30006330.84	0.0143	0.0036
Mercury	77442-09-07 09:22 G	30006418.76	30006418.89	30006419.03	0.0143	0.0061
Mercury	77442-12-04 14:24 G	30006506.98	30006507.10	30006507.22	0.0143	0.0086
Mercury	77443-03-02 19:12 G	30006595.21	30006595.30	30006595.40	0.0143	0.0111
Mercury	77443-05-30 00:15 G	30006683.47	30006683.51	30006683.56	0.0143	0.0136
Mars	77455-06-14 05:32 G	30011081.45	30011081.73	30011082.02	0.0140	0.0021
Earth	77471-09-14 16:34 G	30017018.04	30017018.19	30017018.37	0.0135	0.0101
Moon	77471-09-14 18:58 G	30017018.14	30017018.29	30017018.49	0.0135	0.0095 *
Moon	77472-09-17 20:53 G	30017387.16	30017387.37	30017387.61	0.0135	0.0066
Earth	77472-09-18 00:00 G	30017387.29	30017387.50	30017387.74	0.0135	0.0060 *
Earth	77473-09-22 07:12 G	30017756.55	30017756.80	30017757.05	0.0135	0.0019
Moon	77473-09-22 09:36 G	30017756.65	30017756.90	30017757.14	0.0135	0.0017 *
Moon	77474-09-26 11:17 G	30018125.72	30018125.97	30018126.22	0.0135	0.0023
Earth	77474-09-26 13:41 G	30018125.83	30018126.07	30018126.33	0.0135	0.0023 *
Venus	77475-08-01 04:05 G	30018434.62	30018434.67	30018434.76	0.0135	0.0127
Earth	77475-09-30 20:10 G	30018495.12	30018495.34	30018495.56	0.0134	0.0063
Moon	77475-09-30 22:34 G	30018495.23	30018495.44	30018495.67	0.0134	0.0060 *
Venus	77476-03-14 09:22 G	30018660.75	30018660.89	30018661.05	0.0134	0.0095
Moon	77476-10-03 23:46 G	30018864.36	30018864.49	30018864.66	0.0134	0.0110
Earth	77476-10-04 01:56 G	30018864.44	30018864.58	30018864.76	0.0134	0.0104 *
Venus	77476-10-26 14:24 G	30018886.92	30018887.10	30018887.30	0.0134	0.0063
Venus	77477-06-09 19:56 G	30019113.12	30019113.33	30019113.54	0.0134	0.0030
Venus	77478-01-22 00:58 G	30019339.33	30019339.54	30019339.76	0.0134	0.0003
Venus	77478-09-05 06:00 G	30019565.55	30019565.75	30019565.97	0.0134	0.0035
Venus	77479-04-19 11:03 G	30019791.79	30019791.96	30019792.16	0.0134	0.0068
Venus	77479-12-01 16:20 G	30020018.04	30020018.18	30020018.33	0.0134	0.0100

Venus	77480-07-14 21:36 G	30020244.37	30020244.40	30020244.45	0.0134	0.0132
Jupiter	77480-12-26 18:29 G	30020408.84	30020409.27	30020409.75	0.0134	0.0059
Mercury	77483-07-14 11:46 G	30021338.91	30021338.99	30021339.09	0.0135	0.0113
Mercury	77483-10-10 17:17 G	30021427.10	30021427.22	30021427.34	0.0135	0.0090
Mercury	77484-01-06 22:20 G	30021515.29	30021515.43	30021515.58	0.0135	0.0068
Mercury	77484-04-04 03:22 G	30021603.50	30021603.64	30021603.81	0.0135	0.0046
Mercury	77484-07-01 08:39 G	30021691.70	30021691.86	30021692.03	0.0135	0.0023
Mercury	77484-09-27 13:56 G	30021779.91	30021780.08	30021780.24	0.0135	0.0004
Mercury	77484-12-24 18:44 G	30021868.12	30021868.28	30021868.45	0.0135	0.0021
Mercury	77485-03-22 23:46 G	30021956.34	30021956.49	30021956.65	0.0135	0.0042
Mercury	77485-06-19 04:48 G	30022044.56	30022044.70	30022044.84	0.0135	0.0064
Mercury	77485-09-15 09:22 G	30022132.78	30022132.89	30022133.03	0.0135	0.0086
Mercury	77485-12-12 14:24 G	30022221.01	30022221.10	30022221.21	0.0135	0.0107
Mercury	77486-03-10 19:12 G	30022309.26	30022309.30	30022309.36	0.0135	0.0128
Mars	77499-08-18 07:27 G	30027217.53	30027217.81	30027218.12	0.0138	0.0067
Moon	77514-03-12 05:32 G	30032536.61	30032536.73	30032536.87	0.0143	0.0124
Earth	77514-03-12 08:10 G	30032536.75	30032536.84	30032536.97	0.0143	0.0129 *
Earth	77515-03-17 08:53 G	30032906.67	30032906.87	30032907.09	0.0143	0.0079
Moon	77515-03-17 11:03 G	30032906.78	30032906.96	30032907.18	0.0143	0.0086 *
Moon	77516-03-21 08:39 G	30033276.60	30033276.86	30033277.13	0.0143	0.0021
Earth	77516-03-21 10:05 G	30033276.68	30033276.92	30033277.18	0.0143	0.0029 *
Earth	77517-03-26 11:32 G	30033646.73	30033646.98	30033647.24	0.0143	0.0023
Moon	77517-03-26 12:44 G	30033646.79	30033647.03	30033647.28	0.0143	0.0018 *
Moon	77518-03-31 13:12 G	30034016.84	30034017.05	30034017.29	0.0144	0.0074
Earth	77518-03-31 13:27 G	30034016.84	30034017.06	30034017.28	0.0144	0.0074 *
Venus	77518-05-05 23:46 G	30034052.39	30034052.49	30034052.63	0.0144	0.0120
Venus	77518-12-18 12:29 G	30034278.84	30034279.02	30034279.21	0.0144	0.0079
Earth	77519-04-05 15:08 G	30034387.03	30034387.13	30034387.28	0.0144	0.0126
Moon	77519-04-05 14:53 G	30034387.04	30034387.12	30034387.25	0.0144	0.0130 *
Venus	77519-08-02 00:44 G	30034505.33	30034505.53	30034505.75	0.0144	0.0039

Venus	77520-03-15 13:27 G	30034731.84	30034732.06	30034732.28	0.0144	0.0003
Venus	77520-10-28 01:27 G	30034958.36	30034958.56	30034958.78	0.0144	0.0044
Venus	77521-06-11 13:56 G	30035184.91	30035185.08	30035185.27	0.0144	0.0084
Venus	77522-01-24 02:24 G	30035411.50	30035411.60	30035411.72	0.0144	0.0124
Mercury	77524-10-23 02:24 G	30036414.53	30036414.60	30036414.67	0.0144	0.0126
Mercury	77525-01-19 06:44 G	30036502.69	30036502.78	30036502.89	0.0144	0.0103
Mercury	77525-04-17 11:32 G	30036590.86	30036590.98	30036591.11	0.0144	0.0079
Mercury	77525-07-14 16:20 G	30036679.04	30036679.18	30036679.32	0.0143	0.0055
Mercury	77525-10-10 21:08 G	30036767.23	30036767.38	30036767.52	0.0143	0.0031
Mercury	77526-01-07 01:56 G	30036855.43	30036855.58	30036855.73	0.0143	0.0007
Mercury	77526-04-05 06:44 G	30036943.63	30036943.78	30036943.93	0.0143	0.0018
Mercury	77526-07-02 11:17 G	30037031.84	30037031.97	30037032.12	0.0143	0.0043
Mercury	77526-09-28 16:20 G	30037120.05	30037120.18	30037120.32	0.0143	0.0067
Mercury	77526-12-25 21:08 G	30037208.27	30037208.38	30037208.50	0.0143	0.0092
Mercury	77527-03-24 02:10 G	30037296.51	30037296.59	30037296.68	0.0143	0.0116
Mercury	77527-06-20 06:58 G	30037384.78	30037384.79	30037384.83	0.0143	0.0142
Mars	77540-02-07 16:20 G	30042000.03	30042000.18	30042000.37	0.0140	0.0112
Moon	77554-09-11 14:53 G	30047330.06	30047330.12	30047330.20	0.0135	0.0130
Earth	77555-09-16 01:41 G	30047699.41	30047699.57	30047699.76	0.0135	0.0096
Moon	77555-09-16 04:48 G	30047699.56	30047699.70	30047699.88	0.0135	0.0104 *
Moon	77556-09-19 06:15 G	30048068.53	30048068.76	30048069.01	0.0135	0.0050
Earth	77556-09-19 09:22 G	30048068.66	30048068.89	30048069.12	0.0135	0.0055 *
Earth	77557-09-23 16:20 G	30048437.93	30048438.18	30048438.43	0.0135	0.0014
Moon	77557-09-23 19:27 G	30048438.07	30048438.31	30048438.56	0.0135	0.0017 *
Moon	77558-09-27 19:56 G	30048807.09	30048807.33	30048807.59	0.0135	0.0028
Earth	77558-09-27 22:48 G	30048807.22	30048807.45	30048807.71	0.0135	0.0028 *
Earth	77559-10-02 05:17 G	30049176.51	30049176.72	30049176.94	0.0134	0.0068
Moon	77559-10-02 07:56 G	30049176.64	30049176.83	30049177.05	0.0134	0.0072 *
Venus	77559-11-13 18:44 G	30049219.17	30049219.28	30049219.41	0.0134	0.0110
Venus	77560-06-27 00:00 G	30049445.33	30049445.50	30049445.68	0.0134	0.0077

Moon	77560-10-05 08:10 G	30049545.69	30049545.84	30049546.02	0.0134	0.0103
Earth	77560-10-05 11:17 G	30049545.84	30049545.97	30049546.13	0.0134	0.0109 *
Venus	77561-02-08 05:03 G	30049671.52	30049671.71	30049671.93	0.0134	0.0046
Venus	77561-09-22 10:20 G	30049897.72	30049897.93	30049898.15	0.0134	0.0013
Venus	77562-05-06 15:36 G	30050123.94	30050124.15	30050124.36	0.0134	0.0020
Venus	77562-12-18 20:24 G	30050350.17	30050350.35	30050350.56	0.0134	0.0053
Venus	77563-08-02 01:41 G	30050576.42	30050576.57	30050576.75	0.0134	0.0085
Venus	77564-03-15 06:58 G	30050802.70	30050802.79	30050802.91	0.0134	0.0116
Mercury	77567-05-08 13:12 G	30051952.02	30051952.05	30051952.11	0.0134	0.0130
Mercury	77567-08-04 18:44 G	30052040.18	30052040.28	30052040.38	0.0135	0.0107
Mercury	77567-10-31 23:46 G	30052128.37	30052128.49	30052128.63	0.0135	0.0085
Mercury	77568-01-28 05:03 G	30052216.57	30052216.71	30052216.86	0.0135	0.0062
Mercury	77568-04-25 10:20 G	30052304.77	30052304.93	30052305.09	0.0135	0.0040
Mercury	77568-07-22 15:22 G	30052392.98	30052393.14	30052393.31	0.0135	0.0018
Mercury	77568-10-18 20:39 G	30052481.19	30052481.36	30052481.52	0.0135	0.0005
Mercury	77569-01-15 01:27 G	30052569.41	30052569.56	30052569.73	0.0135	0.0027
Mercury	77569-04-13 06:29 G	30052657.62	30052657.77	30052657.93	0.0135	0.0048
Mercury	77569-07-10 11:17 G	30052745.84	30052745.97	30052746.12	0.0135	0.0070
Mercury	77569-10-06 16:20 G	30052834.07	30052834.18	30052834.30	0.0135	0.0091
Mercury	77570-01-02 21:08 G	30052922.30	30052922.38	30052922.48	0.0135	0.0112
Mercury	77570-04-01 01:56 G	30053010.57	30053010.58	30053010.61	0.0135	0.0133
Moon	77598-03-12 12:15 G	30063217.91	30063218.01	30063218.14	0.0143	0.0127
Earth	77598-03-12 15:08 G	30063218.03	30063218.13	30063218.28	0.0143	0.0125 *
Earth	77599-03-17 15:51 G	30063587.96	30063588.16	30063588.40	0.0143	0.0075
Moon	77599-03-17 18:44 G	30063588.07	30063588.28	30063588.51	0.0143	0.0068 *
Moon	77600-03-21 14:39 G	30063957.86	30063958.11	30063958.37	0.0143	0.0031
Earth	77600-03-21 17:17 G	30063957.97	30063958.22	30063958.48	0.0143	0.0024 *
Earth	77601-03-26 18:44 G	30064328.03	30064328.28	30064328.54	0.0143	0.0027
Moon	77601-03-26 20:10 G	30064328.10	30064328.34	30064328.58	0.0143	0.0033 *
Venus	77602-01-03 04:05 G	30064610.64	30064610.67	30064610.75	0.0144	0.0140

Moon	77602-03-31 18:58 G	30064698.08	30064698.29	30064698.53	0.0144	0.0077
Earth	77602-03-31 20:24 G	30064698.15	30064698.35	30064698.58	0.0144	0.0079 *
Venus	77602-08-17 17:03 G	30064837.05	30064837.21	30064837.37	0.0144	0.0099
Venus	77603-04-01 05:17 G	30065063.52	30065063.72	30065063.93	0.0144	0.0059
Moon	77603-04-05 23:03 G	30065068.35	30065068.46	30065068.58	0.0144	0.0127
Earth	77603-04-05 22:34 G	30065068.36	30065068.44	30065068.57	0.0144	0.0131 *
Venus	77603-11-13 17:46 G	30065290.02	30065290.24	30065290.46	0.0144	0.0018
Venus	77604-06-27 06:15 G	30065516.54	30065516.76	30065516.98	0.0144	0.0023
Venus	77605-02-08 18:29 G	30065743.08	30065743.27	30065743.48	0.0144	0.0064
Venus	77605-09-23 06:58 G	30065969.65	30065969.79	30065969.95	0.0144	0.0104
Mercury	77608-11-12 09:08 G	30067115.80	30067115.88	30067115.96	0.0144	0.0121
Mercury	77609-02-08 13:41 G	30067203.97	30067204.07	30067204.18	0.0144	0.0097
Mercury	77609-05-07 18:29 G	30067292.14	30067292.27	30067292.39	0.0144	0.0074
Mercury	77609-08-03 23:03 G	30067380.32	30067380.46	30067380.60	0.0143	0.0050
Mercury	77609-10-31 03:51 G	30067468.51	30067468.66	30067468.81	0.0143	0.0026
Mercury	77610-01-27 08:39 G	30067556.71	30067556.86	30067557.01	0.0143	0.0003
Mercury	77610-04-25 13:27 G	30067644.91	30067645.06	30067645.21	0.0143	0.0023
Mercury	77610-07-22 18:15 G	30067733.12	30067733.26	30067733.40	0.0143	0.0047
Mercury	77610-10-18 23:03 G	30067821.33	30067821.46	30067821.59	0.0143	0.0071
Mercury	77611-01-15 03:51 G	30067909.56	30067909.66	30067909.78	0.0143	0.0096
Mercury	77611-04-13 08:39 G	30067997.79	30067997.86	30067997.95	0.0143	0.0122
Mars	77622-11-01 19:56 G	30072218.18	30072218.33	30072218.52	0.0140	0.0112
Earth	77638-09-12 02:10 G	30078011.57	30078011.59	30078011.65	0.0135	0.0134
Earth	77639-09-16 10:05 G	30078380.75	30078380.92	30078381.12	0.0135	0.0092
Moon	77639-09-16 13:27 G	30078380.88	30078381.06	30078381.26	0.0135	0.0085 *
Moon	77640-09-19 13:56 G	30078749.86	30078750.08	30078750.32	0.0135	0.0058
Earth	77640-09-19 17:32 G	30078750.01	30078750.23	30078750.47	0.0135	0.0051 *
Earth	77641-09-24 00:44 G	30079119.28	30079119.53	30079119.78	0.0135	0.0009
Moon	77641-09-24 03:51 G	30079119.41	30079119.66	30079119.91	0.0135	0.0006 *
Moon	77642-09-28 03:51 G	30079488.42	30079488.66	30079488.92	0.0135	0.0031

Earth	77642-09-28 07:27 G	30079488.57	30079488.81	30079489.06	0.0135	0.0032	*
Venus	77643-07-14 03:51 G	30079777.59	30079777.66	30079777.75	0.0134	0.0125	
Earth	77643-10-02 13:41 G	30079857.86	30079858.07	30079858.29	0.0134	0.0073	
Moon	77643-10-02 16:48 G	30079858.00	30079858.20	30079858.42	0.0134	0.0071	*
Venus	77644-02-25 09:08 G	30080003.73	30080003.88	30080004.04	0.0134	0.0093	
Moon	77644-10-05 17:03 G	30080227.09	30080227.21	30080227.33	0.0134	0.0119	
Earth	77644-10-05 19:41 G	30080227.21	30080227.32	30080227.48	0.0134	0.0114	*
Venus	77644-10-08 14:10 G	30080229.91	30080230.09	30080230.29	0.0134	0.0061	
Venus	77645-05-22 19:27 G	30080456.10	30080456.31	30080456.52	0.0134	0.0028	
Venus	77646-01-04 00:44 G	30080682.31	30080682.53	30080682.74	0.0134	0.0004	
Venus	77646-08-18 05:46 G	30080908.54	30080908.74	30080908.96	0.0134	0.0037	
Venus	77647-04-01 11:03 G	30081134.78	30081134.96	30081135.15	0.0134	0.0069	
Venus	77647-11-13 16:20 G	30081361.04	30081361.18	30081361.32	0.0134	0.0101	
Venus	77648-06-26 21:22 G	30081587.37	30081587.39	30081587.43	0.0134	0.0133	
Mercury	77651-05-28 20:10 G	30082653.28	30082653.34	30082653.40	0.0135	0.0124	
Mercury	77651-08-25 01:12 G	30082741.45	30082741.55	30082741.67	0.0135	0.0102	
Mercury	77651-11-21 06:44 G	30082829.64	30082829.78	30082829.91	0.0135	0.0079	
Mercury	77652-02-17 11:46 G	30082917.84	30082917.99	30082918.14	0.0135	0.0057	
Mercury	77652-05-15 16:48 G	30083006.05	30083006.20	30083006.37	0.0135	0.0035	
Mercury	77652-08-11 22:05 G	30083094.26	30083094.42	30083094.59	0.0135	0.0012	
Mercury	77652-11-08 03:08 G	30083182.47	30083182.63	30083182.80	0.0135	0.0010	
Mercury	77653-02-04 08:10 G	30083270.68	30083270.84	30083271.00	0.0135	0.0031	
Mercury	77653-05-03 13:12 G	30083358.90	30083359.05	30083359.20	0.0135	0.0053	
Mercury	77653-07-30 18:00 G	30083447.12	30083447.25	30083447.39	0.0135	0.0075	
Mercury	77653-10-26 23:03 G	30083535.35	30083535.46	30083535.58	0.0135	0.0096	
Mercury	77654-01-23 03:51 G	30083623.59	30083623.66	30083623.74	0.0135	0.0117	
Mars	77667-01-03 09:36 G	30088351.59	30088351.90	30088352.24	0.0138	0.0040	
Moon	77682-03-12 19:41 G	30093899.19	30093899.32	30093899.48	0.0143	0.0117	
Earth	77682-03-12 23:17 G	30093899.35	30093899.47	30093899.62	0.0143	0.0120	*
Earth	77683-03-17 23:46 G	30094269.28	30094269.49	30094269.73	0.0143	0.0070	

Moon	77683-03-18 02:53 G	30094269.42	30094269.62	30094269.85	0.0143	0.0077	*
Moon	77684-03-21 22:20 G	30094639.17	30094639.43	30094639.70	0.0143	0.0012	
Earth	77684-03-22 01:12 G	30094639.30	30094639.55	30094639.81	0.0143	0.0019	*
Earth	77685-03-27 02:24 G	30095009.36	30095009.60	30095009.86	0.0143	0.0033	
Moon	77685-03-27 05:03 G	30095009.47	30095009.71	30095009.96	0.0143	0.0026	*
Moon	77686-04-01 03:08 G	30095379.42	30095379.63	30095379.85	0.0144	0.0086	
Earth	77686-04-01 04:20 G	30095379.49	30095379.68	30095379.90	0.0144	0.0084	*
Venus	77686-04-16 21:36 G	30095395.28	30095395.40	30095395.53	0.0144	0.0119	
Venus	77686-11-29 09:51 G	30095621.74	30095621.91	30095622.10	0.0144	0.0079	
Earth	77687-04-06 06:29 G	30095749.71	30095749.77	30095749.87	0.0144	0.0136	
Moon	77687-04-06 07:56 G	30095749.78	30095749.83	30095749.91	0.0144	0.0138	*
Venus	77687-07-13 22:34 G	30095848.23	30095848.44	30095848.65	0.0144	0.0038	
Venus	77688-02-25 11:03 G	30096074.74	30096074.96	30096075.18	0.0144	0.0003	
Venus	77688-10-08 23:17 G	30096301.27	30096301.47	30096301.69	0.0144	0.0043	
Venus	77689-05-23 11:32 G	30096527.81	30096527.98	30096528.17	0.0144	0.0084	
Venus	77690-01-05 00:00 G	30096754.40	30096754.50	30096754.62	0.0144	0.0124	
Mercury	77692-09-05 11:03 G	30097728.94	30097728.96	30097729.01	0.0144	0.0140	
Mercury	77692-12-02 15:51 G	30097817.08	30097817.16	30097817.25	0.0144	0.0116	
Mercury	77693-02-28 20:24 G	30097905.24	30097905.35	30097905.47	0.0144	0.0093	
Mercury	77693-05-28 01:12 G	30097993.42	30097993.55	30097993.68	0.0143	0.0069	
Mercury	77693-08-24 05:46 G	30098081.60	30098081.74	30098081.89	0.0143	0.0045	
Mercury	77693-11-20 10:34 G	30098169.79	30098169.94	30098170.09	0.0143	0.0021	
Mercury	77694-02-16 15:22 G	30098257.99	30098258.14	30098258.29	0.0143	0.0003	
Mercury	77694-05-15 20:10 G	30098346.19	30098346.34	30098346.49	0.0143	0.0027	
Mercury	77694-08-12 00:58 G	30098434.40	30098434.54	30098434.68	0.0143	0.0052	
Mercury	77694-11-08 05:46 G	30098522.61	30098522.74	30098522.87	0.0143	0.0076	
Mercury	77695-02-04 10:34 G	30098610.84	30098610.94	30098611.05	0.0143	0.0101	
Mercury	77695-05-03 15:22 G	30098699.08	30098699.14	30098699.22	0.0143	0.0126	
Mars	77707-06-28 06:15 G	30103136.49	30103136.76	30103137.05	0.0140	0.0020	
Moon	77722-09-13 07:12 G	30108692.72	30108692.80	30108692.93	0.0135	0.0122	

Earth	77722-09-13 11:03 G	30108692.91	30108692.96	30108693.05	0.0135	0.0130	*
Earth	77723-09-17 18:29 G	30109062.10	30109062.27	30109062.48	0.0135	0.0089	
Moon	77723-09-17 22:34 G	30109062.27	30109062.44	30109062.62	0.0135	0.0095	*
Moon	77724-09-20 23:03 G	30109431.22	30109431.46	30109431.70	0.0135	0.0040	
Earth	77724-09-21 02:10 G	30109431.37	30109431.59	30109431.84	0.0135	0.0047	*
Earth	77725-09-25 09:36 G	30109800.65	30109800.90	30109801.15	0.0135	0.0005	
Moon	77725-09-25 13:12 G	30109800.80	30109801.05	30109801.30	0.0135	0.0010	*
Moon	77726-09-29 12:44 G	30110169.80	30110170.03	30110170.28	0.0135	0.0039	
Earth	77726-09-29 16:05 G	30110169.94	30110170.17	30110170.43	0.0135	0.0037	*
Earth	77727-10-03 22:34 G	30110539.25	30110539.44	30110539.66	0.0135	0.0078	
Moon	77727-10-04 02:10 G	30110539.40	30110539.59	30110539.80	0.0135	0.0081	*
Venus	77727-10-26 18:15 G	30110562.14	30110562.26	30110562.40	0.0135	0.0108	
Venus	77728-06-08 23:32 G	30110788.31	30110788.48	30110788.67	0.0134	0.0076	
Moon	77728-10-07 01:27 G	30110908.45	30110908.56	30110908.71	0.0134	0.0115	
Earth	77728-10-07 05:03 G	30110908.61	30110908.71	30110908.84	0.0134	0.0119	*
Venus	77729-01-21 04:48 G	30111014.50	30111014.70	30111014.91	0.0134	0.0043	
Venus	77729-09-04 10:05 G	30111240.71	30111240.92	30111241.14	0.0134	0.0011	
Venus	77730-04-18 15:22 G	30111466.93	30111467.14	30111467.35	0.0134	0.0021	
Venus	77730-11-30 20:24 G	30111693.16	30111693.35	30111693.55	0.0134	0.0054	
Venus	77731-07-15 01:41 G	30111919.41	30111919.57	30111919.74	0.0134	0.0086	
Venus	77732-02-26 06:58 G	30112145.69	30112145.79	30112145.89	0.0134	0.0118	
Mercury	77735-06-19 02:39 G	30113354.54	30113354.61	30113354.70	0.0135	0.0118	
Mercury	77735-09-15 07:56 G	30113442.72	30113442.83	30113442.96	0.0135	0.0096	
Mercury	77735-12-12 13:12 G	30113530.92	30113531.05	30113531.20	0.0135	0.0073	
Mercury	77736-03-09 18:29 G	30113619.12	30113619.27	30113619.43	0.0135	0.0051	
Mercury	77736-06-05 23:46 G	30113707.33	30113707.49	30113707.65	0.0135	0.0029	
Mercury	77736-09-02 04:48 G	30113795.54	30113795.70	30113795.87	0.0135	0.0007	
Mercury	77736-11-29 10:05 G	30113883.75	30113883.92	30113884.08	0.0135	0.0016	
Mercury	77737-02-25 14:53 G	30113971.97	30113972.12	30113972.28	0.0135	0.0038	
Mercury	77737-05-24 19:56 G	30114060.19	30114060.33	30114060.48	0.0135	0.0059	

Mercury	77737-08-21 00:44 G	30114148.41	30114148.53	30114148.67	0.0135	0.0081
Mercury	77737-11-17 05:46 G	30114236.64	30114236.74	30114236.85	0.0135	0.0102
Mercury	77738-02-13 10:48 G	30114324.89	30114324.95	30114325.02	0.0135	0.0123
Mars	77751-08-31 05:32 G	30119271.58	30119271.73	30119271.94	0.0138	0.0117
Moon	77766-03-14 05:03 G	30124580.58	30124580.71	30124580.87	0.0143	0.0117
Earth	77766-03-14 08:53 G	30124580.73	30124580.87	30124581.02	0.0143	0.0115 *
Earth	77767-03-19 09:08 G	30124950.66	30124950.88	30124951.12	0.0143	0.0065
Moon	77767-03-19 12:44 G	30124950.81	30124951.03	30124951.27	0.0143	0.0058 *
Moon	77768-03-23 06:58 G	30125320.54	30125320.79	30125321.05	0.0143	0.0021
Earth	77768-03-23 10:20 G	30125320.68	30125320.93	30125321.19	0.0143	0.0014 *
Earth	77769-03-28 11:46 G	30125690.75	30125690.99	30125691.24	0.0143	0.0038
Moon	77769-03-28 14:10 G	30125690.86	30125691.09	30125691.34	0.0143	0.0045 *
Venus	77769-12-16 02:53 G	30125953.58	30125953.62	30125953.70	0.0143	0.0138
Moon	77770-04-02 11:03 G	30126060.76	30126060.96	30126061.18	0.0144	0.0086
Earth	77770-04-02 13:56 G	30126060.88	30126061.08	30126061.28	0.0144	0.0090 *
Venus	77770-07-30 15:22 G	30126180.00	30126180.14	30126180.32	0.0144	0.0098
Venus	77771-03-14 04:05 G	30126406.47	30126406.67	30126406.87	0.0144	0.0057
Earth	77771-04-07 15:36 G	30126431.13	30126431.15	30126431.22	0.0144	0.0142
Moon	77771-04-07 17:17 G	30126431.18	30126431.22	30126431.29	0.0144	0.0140 *
Venus	77771-10-26 16:34 G	30126632.97	30126633.19	30126633.41	0.0144	0.0017
Venus	77772-06-09 04:48 G	30126859.49	30126859.70	30126859.92	0.0144	0.0024
Venus	77773-01-21 17:17 G	30127086.03	30127086.22	30127086.42	0.0144	0.0065
Venus	77773-09-05 05:32 G	30127312.59	30127312.73	30127312.89	0.0144	0.0105
Mercury	77776-09-26 18:15 G	30128430.22	30128430.26	30128430.32	0.0144	0.0133
Mercury	77776-12-23 23:03 G	30128518.36	30128518.46	30128518.55	0.0144	0.0110
Mercury	77777-03-22 03:22 G	30128606.53	30128606.64	30128606.77	0.0144	0.0087
Mercury	77777-06-18 08:10 G	30128694.71	30128694.84	30128694.98	0.0143	0.0063
Mercury	77777-09-14 12:44 G	30128782.89	30128783.03	30128783.18	0.0143	0.0040
Mercury	77777-12-11 17:32 G	30128871.09	30128871.23	30128871.38	0.0143	0.0015
Mercury	77778-03-09 22:20 G	30128959.28	30128959.43	30128959.58	0.0143	0.0009

Mercury	77778-06-06 03:08 G	30129047.48	30129047.63	30129047.78	0.0143	0.0033
Mercury	77778-09-02 07:56 G	30129135.69	30129135.83	30129135.97	0.0143	0.0058
Mercury	77778-11-29 12:44 G	30129223.91	30129224.03	30129224.16	0.0143	0.0083
Mercury	77779-02-25 17:32 G	30129312.14	30129312.23	30129312.34	0.0143	0.0107
Mercury	77779-05-24 22:20 G	30129400.39	30129400.43	30129400.50	0.0143	0.0133
Moon	77806-09-14 15:51 G	30139374.12	30139374.16	30139374.23	0.0135	0.0132
Earth	77806-09-14 19:12 G	30139374.22	30139374.30	30139374.41	0.0135	0.0125 *
Earth	77807-09-19 02:53 G	30139743.44	30139743.62	30139743.84	0.0135	0.0085
Moon	77807-09-19 06:44 G	30139743.58	30139743.78	30139744.00	0.0135	0.0076 *
Moon	77808-09-22 06:58 G	30140112.57	30140112.79	30140113.04	0.0135	0.0050
Earth	77808-09-22 10:48 G	30140112.72	30140112.95	30140113.19	0.0135	0.0042 *
Earth	77809-09-26 18:00 G	30140482.00	30140482.25	30140482.50	0.0135	0.0001
Moon	77809-09-26 21:22 G	30140482.14	30140482.39	30140482.64	0.0135	0.0004 *
Moon	77810-09-30 21:08 G	30140851.14	30140851.38	30140851.62	0.0135	0.0039
Earth	77810-10-01 00:58 G	30140851.30	30140851.54	30140851.78	0.0135	0.0041 *
Venus	77811-06-27 03:22 G	30141120.56	30141120.64	30141120.73	0.0135	0.0123
Earth	77811-10-05 07:12 G	30141220.61	30141220.80	30141221.01	0.0135	0.0083
Moon	77811-10-05 10:48 G	30141220.76	30141220.95	30141221.16	0.0135	0.0082 *
Venus	77812-02-08 08:39 G	30141346.71	30141346.86	30141347.02	0.0134	0.0091
Venus	77812-09-21 13:56 G	30141572.89	30141573.08	30141573.28	0.0134	0.0059
Moon	77812-10-08 10:20 G	30141589.86	30141589.93	30141590.01	0.0134	0.0128
Earth	77812-10-08 13:56 G	30141589.99	30141590.08	30141590.19	0.0134	0.0123 *
Venus	77813-05-05 18:58 G	30141799.09	30141799.29	30141799.51	0.0134	0.0027
Venus	77813-12-18 00:15 G	30142025.30	30142025.51	30142025.73	0.0134	0.0006
Venus	77814-08-01 05:32 G	30142251.53	30142251.73	30142251.94	0.0134	0.0038
Venus	77815-03-15 10:34 G	30142477.77	30142477.94	30142478.13	0.0134	0.0071
Venus	77815-10-27 15:36 G	30142704.03	30142704.15	30142704.30	0.0134	0.0103
Venus	77816-06-09 20:53 G	30142930.37	30142930.37	30142930.38	0.0134	0.0134
Mercury	77819-07-10 09:08 G	30144055.80	30144055.88	30144055.98	0.0135	0.0114
Mercury	77819-10-06 14:39 G	30144143.99	30144144.11	30144144.24	0.0135	0.0091

Mercury	77820-01-02 19:41 G	30144232.19	30144232.32	30144232.48	0.0135	0.0069
Mercury	77820-03-31 01:12 G	30144320.39	30144320.55	30144320.71	0.0135	0.0046
Mercury	77820-06-27 06:15 G	30144408.60	30144408.76	30144408.93	0.0135	0.0024
Mercury	77820-09-23 11:32 G	30144496.81	30144496.98	30144497.14	0.0135	0.0002
Mercury	77820-12-20 16:34 G	30144585.03	30144585.19	30144585.35	0.0135	0.0020
Mercury	77821-03-18 21:36 G	30144673.25	30144673.40	30144673.56	0.0135	0.0042
Mercury	77821-06-15 02:39 G	30144761.47	30144761.61	30144761.75	0.0135	0.0064
Mercury	77821-09-11 07:27 G	30144849.69	30144849.81	30144849.94	0.0135	0.0086
Mercury	77821-12-08 12:29 G	30144937.93	30144938.02	30144938.12	0.0135	0.0107
Mercury	77822-03-06 17:17 G	30145026.18	30145026.22	30145026.28	0.0135	0.0128
Moon	77850-03-15 15:22 G	30155261.99	30155262.14	30155262.32	0.0143	0.0108
Earth	77850-03-15 18:58 G	30155262.15	30155262.29	30155262.47	0.0143	0.0110 *
Earth	77851-03-20 19:41 G	30155632.10	30155632.32	30155632.57	0.0143	0.0059
Moon	77851-03-20 23:17 G	30155632.25	30155632.47	30155632.71	0.0143	0.0064 *
Moon	77852-03-24 17:46 G	30156001.98	30156002.24	30156002.50	0.0143	0.0001
Earth	77852-03-24 21:08 G	30156002.12	30156002.38	30156002.64	0.0143	0.0008 *
Earth	77853-03-29 22:20 G	30156372.20	30156372.43	30156372.69	0.0143	0.0045
Moon	77853-03-30 01:41 G	30156372.34	30156372.57	30156372.82	0.0143	0.0037 *
Venus	77854-03-30 21:51 G	30156738.30	30156738.41	30156738.55	0.0144	0.0116
Moon	77854-04-03 21:36 G	30156742.23	30156742.40	30156742.61	0.0144	0.0100
Earth	77854-04-04 00:15 G	30156742.34	30156742.51	30156742.72	0.0144	0.0097 *
Venus	77854-11-12 10:20 G	30156964.75	30156964.93	30156965.12	0.0144	0.0075
Venus	77855-06-26 22:48 G	30157191.24	30157191.45	30157191.67	0.0144	0.0035
Venus	77856-02-08 11:17 G	30157417.75	30157417.97	30157418.20	0.0144	0.0006
Venus	77856-09-21 23:46 G	30157644.28	30157644.49	30157644.70	0.0144	0.0046
Venus	77857-05-06 11:46 G	30157870.82	30157870.99	30157871.17	0.0144	0.0087
Venus	77857-12-19 00:00 G	30158097.41	30158097.50	30158097.61	0.0144	0.0127
Mercury	77860-10-18 01:27 G	30159131.50	30159131.56	30159131.64	0.0144	0.0127
Mercury	77861-01-14 06:15 G	30159219.66	30159219.76	30159219.86	0.0144	0.0103
Mercury	77861-04-12 10:48 G	30159307.83	30159307.95	30159308.07	0.0144	0.0079

Mercury	77861-07-09 15:22 G	30159396.01	30159396.14	30159396.28	0.0143	0.0056
Mercury	77861-10-05 20:10 G	30159484.20	30159484.34	30159484.49	0.0143	0.0032
Mercury	77862-01-02 00:58 G	30159572.39	30159572.54	30159572.69	0.0143	0.0009
Mercury	77862-03-31 05:32 G	30159660.59	30159660.73	30159660.88	0.0143	0.0017
Mercury	77862-06-27 10:20 G	30159748.79	30159748.93	30159749.08	0.0143	0.0041
Mercury	77862-09-23 15:08 G	30159837.00	30159837.13	30159837.27	0.0143	0.0065
Mercury	77862-12-20 19:56 G	30159925.22	30159925.33	30159925.45	0.0143	0.0090
Mercury	77863-03-19 00:44 G	30160013.45	30160013.53	30160013.63	0.0143	0.0115
Mercury	77863-06-15 05:46 G	30160101.71	30160101.74	30160101.78	0.0143	0.0139
Mars	77874-11-15 23:03 G	30164273.23	30164273.46	30164273.72	0.0140	0.0069
Moon	77890-09-15 00:58 G	30170055.42	30170055.54	30170055.68	0.0135	0.0114
Earth	77890-09-15 04:20 G	30170055.59	30170055.68	30170055.81	0.0135	0.0121 *
Earth	77891-09-19 12:15 G	30170424.82	30170425.01	30170425.23	0.0135	0.0079
Moon	77891-09-19 15:51 G	30170424.97	30170425.16	30170425.36	0.0135	0.0086 *
Moon	77892-09-22 16:34 G	30170793.96	30170794.19	30170794.44	0.0135	0.0031
Earth	77892-09-22 20:10 G	30170794.10	30170794.34	30170794.58	0.0135	0.0037 *
Earth	77893-09-27 03:22 G	30171163.39	30171163.64	30171163.89	0.0135	0.0005
Moon	77893-09-27 06:58 G	30171163.54	30171163.79	30171164.05	0.0135	0.0002 *
Moon	77894-10-01 06:44 G	30171532.56	30171532.78	30171533.02	0.0135	0.0049
Earth	77894-10-01 10:05 G	30171532.69	30171532.92	30171533.17	0.0135	0.0046 *
Earth	77895-10-05 16:34 G	30171902.02	30171902.19	30171902.40	0.0135	0.0088
Moon	77895-10-05 20:39 G	30171902.17	30171902.36	30171902.55	0.0135	0.0089 *
Venus	77895-10-08 18:15 G	30171905.13	30171905.26	30171905.39	0.0135	0.0106
Venus	77896-05-21 23:17 G	30172131.30	30172131.47	30172131.66	0.0134	0.0074
Moon	77896-10-08 19:41 G	30172271.25	30172271.32	30172271.43	0.0134	0.0126
Earth	77896-10-08 23:03 G	30172271.41	30172271.46	30172271.56	0.0134	0.0129 *
Venus	77897-01-03 04:34 G	30172357.49	30172357.69	30172357.90	0.0134	0.0042
Venus	77897-08-17 09:51 G	30172583.70	30172583.91	30172584.13	0.0134	0.0010
Venus	77898-03-31 14:53 G	30172809.92	30172810.12	30172810.34	0.0134	0.0023
Venus	77898-11-12 19:56 G	30173036.14	30173036.33	30173036.54	0.0134	0.0055

Venus	77899-06-27 00:58 G	30173262.39	30173262.54	30173262.72	0.0134	0.0088
Venus	77900-02-08 06:00 G	30173488.67	30173488.75	30173488.87	0.0134	0.0120
Mercury	77903-05-04 10:34 G	30174668.92	30174668.94	30174668.99	0.0135	0.0131
Mercury	77903-07-31 16:05 G	30174757.08	30174757.17	30174757.27	0.0135	0.0108
Mercury	77903-10-27 21:08 G	30174845.27	30174845.38	30174845.52	0.0135	0.0086
Mercury	77904-01-24 02:39 G	30174933.47	30174933.61	30174933.76	0.0135	0.0063
Mercury	77904-04-21 07:56 G	30175021.67	30175021.83	30175021.99	0.0135	0.0040
Mercury	77904-07-18 12:58 G	30175109.88	30175110.04	30175110.21	0.0135	0.0019
Mercury	77904-10-14 18:15 G	30175198.10	30175198.26	30175198.43	0.0135	0.0004
Mercury	77905-01-10 23:17 G	30175286.31	30175286.47	30175286.63	0.0135	0.0026
Mercury	77905-04-09 04:20 G	30175374.53	30175374.68	30175374.84	0.0135	0.0048
Mercury	77905-07-06 09:22 G	30175462.75	30175462.89	30175463.03	0.0135	0.0070
Mercury	77905-10-02 14:24 G	30175550.98	30175551.10	30175551.22	0.0135	0.0091
Mercury	77905-12-29 19:12 G	30175639.22	30175639.30	30175639.40	0.0135	0.0113
Mercury	77906-03-28 00:00 G	30175727.50	30175727.50	30175727.53	0.0135	0.0134
Mars	77919-01-17 12:00 G	30180405.68	30180406.00	30180406.34	0.0138	0.0016
Moon	77934-03-17 01:56 G	30185943.42	30185943.58	30185943.76	0.0143	0.0104
Earth	77934-03-17 05:17 G	30185943.56	30185943.72	30185943.90	0.0143	0.0104 *
Earth	77935-03-22 06:00 G	30186313.52	30186313.75	30186314.00	0.0143	0.0053
Moon	77935-03-22 09:51 G	30186313.67	30186313.91	30186314.16	0.0143	0.0047 *
Moon	77936-03-26 03:36 G	30186683.40	30186683.65	30186683.91	0.0143	0.0009
Earth	77936-03-26 07:27 G	30186683.55	30186683.81	30186684.06	0.0143	0.0002 *
Earth	77937-03-31 08:53 G	30187053.63	30187053.87	30187054.11	0.0143	0.0050
Moon	77937-03-31 12:00 G	30187053.78	30187054.00	30187054.24	0.0143	0.0058 *
Venus	77937-11-29 04:20 G	30187296.61	30187296.68	30187296.76	0.0144	0.0134
Moon	77938-04-05 07:27 G	30187423.63	30187423.81	30187424.01	0.0144	0.0097
Earth	77938-04-05 10:48 G	30187423.78	30187423.95	30187424.14	0.0144	0.0103 *
Venus	77938-07-13 16:34 G	30187523.03	30187523.19	30187523.37	0.0144	0.0094
Venus	77939-02-25 05:03 G	30187749.52	30187749.71	30187749.92	0.0144	0.0054
Venus	77939-10-09 17:32 G	30187976.02	30187976.23	30187976.45	0.0144	0.0013

Venus	77940-05-23 05:46 G	30188202.53	30188202.74	30188202.96	0.0144	0.0028
Venus	77941-01-04 18:15 G	30188429.07	30188429.26	30188429.46	0.0144	0.0068
Venus	77941-08-19 06:15 G	30188655.63	30188655.76	30188655.92	0.0144	0.0109
Mercury	77944-08-12 04:05 G	30189744.67	30189744.67	30189744.70	0.0144	0.0143
Mercury	77944-11-08 08:53 G	30189832.79	30189832.87	30189832.95	0.0144	0.0119
Mercury	77945-02-04 13:27 G	30189920.96	30189921.06	30189921.17	0.0144	0.0096
Mercury	77945-05-03 18:00 G	30190009.13	30190009.25	30190009.38	0.0144	0.0072
Mercury	77945-07-30 22:48 G	30190097.31	30190097.45	30190097.59	0.0143	0.0048
Mercury	77945-10-27 03:36 G	30190185.50	30190185.65	30190185.79	0.0143	0.0025
Mercury	77946-01-23 08:10 G	30190273.69	30190273.84	30190273.99	0.0143	0.0002
Mercury	77946-04-21 12:58 G	30190361.89	30190362.04	30190362.19	0.0143	0.0024
Mercury	77946-07-18 17:46 G	30190450.10	30190450.24	30190450.38	0.0143	0.0048
Mercury	77946-10-14 22:34 G	30190538.31	30190538.44	30190538.57	0.0143	0.0073
Mercury	77947-01-11 03:22 G	30190626.53	30190626.64	30190626.75	0.0143	0.0097
Mercury	77947-04-09 08:10 G	30190714.77	30190714.84	30190714.93	0.0143	0.0122
Mars	77959-07-12 13:56 G	30195191.83	30195192.08	30195192.34	0.0140	0.0065
Moon	77974-09-16 10:34 G	30200736.85	30200736.94	30200737.06	0.0135	0.0122
Earth	77974-09-16 13:12 G	30200736.94	30200737.05	30200737.20	0.0135	0.0117 *
Earth	77975-09-20 21:36 G	30201106.19	30201106.40	30201106.61	0.0135	0.0074
Moon	77975-09-21 00:44 G	30201106.32	30201106.53	30201106.76	0.0135	0.0067 *
Moon	77976-09-24 01:56 G	30201475.35	30201475.58	30201475.82	0.0135	0.0040
Earth	77976-09-24 05:03 G	30201475.47	30201475.71	30201475.96	0.0135	0.0032 *
Earth	77977-09-28 12:15 G	30201844.76	30201845.01	30201845.26	0.0135	0.0009
Moon	77977-09-28 15:22 G	30201844.89	30201845.14	30201845.40	0.0135	0.0015 *
Moon	77978-10-02 15:36 G	30202213.93	30202214.15	30202214.39	0.0135	0.0048
Earth	77978-10-02 18:58 G	30202214.07	30202214.29	30202214.54	0.0135	0.0052 *
Venus	77979-06-09 03:08 G	30202463.55	30202463.63	30202463.74	0.0134	0.0121
Earth	77979-10-07 01:27 G	30202583.40	30202583.56	30202583.76	0.0134	0.0093
Moon	77979-10-07 05:03 G	30202583.53	30202583.71	30202583.90	0.0134	0.0093 *
Venus	77980-01-21 08:24 G	30202689.70	30202689.85	30202690.02	0.0134	0.0089

Venus	77980-09-03 13:56 G	30202915.88	30202916.08	30202916.27	0.0134	0.0057
Earth	77980-10-10 07:41 G	30202952.82	30202952.82	30202952.88	0.0134	0.0134
Venus	77981-04-17 18:58 G	30203142.08	30203142.29	30203142.50	0.0134	0.0025
Venus	77981-11-30 00:00 G	30203368.29	30203368.50	30203368.72	0.0134	0.0008
Venus	77982-07-14 05:17 G	30203594.51	30203594.72	30203594.92	0.0134	0.0040
Venus	77983-02-25 10:20 G	30203820.75	30203820.93	30203821.11	0.0134	0.0072
Venus	77983-10-09 15:22 G	30204047.01	30204047.14	30204047.28	0.0134	0.0104
Mercury	77987-05-24 17:17 G	30205370.17	30205370.22	30205370.28	0.0135	0.0126
Mercury	77987-08-20 22:48 G	30205458.34	30205458.45	30205458.55	0.0135	0.0103
Mercury	77987-11-17 03:51 G	30205546.53	30205546.66	30205546.80	0.0135	0.0081
Mercury	77988-02-13 09:08 G	30205634.74	30205634.88	30205635.04	0.0135	0.0058
Mercury	77988-05-11 14:24 G	30205722.94	30205723.10	30205723.26	0.0135	0.0036
Mercury	77988-08-07 19:41 G	30205811.16	30205811.32	30205811.49	0.0135	0.0013
Mercury	77988-11-04 00:44 G	30205899.37	30205899.53	30205899.70	0.0135	0.0010
Mercury	77989-01-31 06:00 G	30205987.59	30205987.75	30205987.91	0.0135	0.0031
Mercury	77989-04-29 10:48 G	30206075.81	30206075.95	30206076.11	0.0135	0.0053
Mercury	77989-07-26 15:51 G	30206164.03	30206164.16	30206164.30	0.0135	0.0075
Mercury	77989-10-22 20:53 G	30206252.26	30206252.37	30206252.49	0.0135	0.0096
Mercury	77990-01-19 01:41 G	30206340.51	30206340.57	30206340.66	0.0135	0.0118

79TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 79th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Moon	78018-03-17 10:48 G	30216624.78	30216624.95	30216625.14	0.0143	0.0099
Earth	78018-03-17 14:10 G	30216624.92	30216625.09	30216625.29	0.0143	0.0099 *
Earth	78019-03-22 15:08 G	30216994.89	30216995.13	30216995.38	0.0143	0.0048
Moon	78019-03-22 18:29 G	30216995.03	30216995.27	30216995.52	0.0143	0.0052 *
Moon	78020-03-26 12:44 G	30217364.78	30217365.03	30217365.29	0.0143	0.0013
Earth	78020-03-26 16:34 G	30217364.93	30217365.19	30217365.45	0.0143	0.0004 *
Earth	78021-03-31 18:00 G	30217735.02	30217735.25	30217735.50	0.0143	0.0057
Moon	78021-03-31 21:51 G	30217735.17	30217735.41	30217735.65	0.0143	0.0049 *
Venus	78022-03-12 22:20 G	30218081.30	30218081.43	30218081.57	0.0144	0.0113
Moon	78022-04-05 17:03 G	30218105.05	30218105.21	30218105.37	0.0144	0.0113
Earth	78022-04-05 19:56 G	30218105.18	30218105.33	30218105.51	0.0144	0.0109 *
Venus	78022-10-25 10:34 G	30218307.76	30218307.94	30218308.14	0.0144	0.0073
Venus	78023-06-08 23:17 G	30218534.25	30218534.47	30218534.68	0.0144	0.0032
Venus	78024-01-21 11:46 G	30218760.77	30218760.99	30218761.21	0.0144	0.0009
Venus	78024-09-04 00:00 G	30218987.30	30218987.50	30218987.71	0.0144	0.0049
Venus	78025-04-18 12:00 G	30219213.84	30219214.00	30219214.18	0.0144	0.0090
Venus	78025-12-01 00:15 G	30219440.43	30219440.51	30219440.62	0.0144	0.0130
Mercury	78028-09-01 11:32 G	30220445.94	30220445.98	30220446.03	0.0144	0.0135
Mercury	78028-11-28 15:51 G	30220534.09	30220534.16	30220534.26	0.0144	0.0113
Mercury	78029-02-24 20:39 G	30220622.25	30220622.36	30220622.48	0.0144	0.0089
Mercury	78029-05-24 01:12 G	30220710.43	30220710.55	30220710.69	0.0144	0.0066
Mercury	78029-08-20 06:00 G	30220798.61	30220798.75	30220798.89	0.0143	0.0041
Mercury	78029-11-16 10:48 G	30220886.80	30220886.95	30220887.09	0.0143	0.0018
Mercury	78030-02-12 15:22 G	30220974.99	30220975.14	30220975.29	0.0143	0.0007
Mercury	78030-05-11 20:10 G	30221063.20	30221063.34	30221063.49	0.0143	0.0031
Mercury	78030-08-08 00:58 G	30221151.40	30221151.54	30221151.68	0.0143	0.0055
Mercury	78030-11-04 05:46 G	30221239.62	30221239.74	30221239.87	0.0143	0.0080
Mercury	78031-01-31 10:48 G	30221327.84	30221327.95	30221328.05	0.0143	0.0105
Mercury	78031-04-29 15:36 G	30221416.09	30221416.15	30221416.21	0.0143	0.0129
Moon	78058-09-16 19:56 G	30231418.20	30231418.33	30231418.50	0.0135	0.0106

Earth	78058-09-16 23:17 G	30231418.33	30231418.47	30231418.61	0.0135	0.0111	*
Earth	78059-09-21 07:12 G	30231787.59	30231787.80	30231788.02	0.0135	0.0069	
Moon	78059-09-21 09:36 G	30231787.70	30231787.90	30231788.13	0.0135	0.0076	*
Moon	78060-09-24 11:46 G	30232156.75	30232156.99	30232157.24	0.0135	0.0021	
Earth	78060-09-24 14:53 G	30232156.87	30232157.12	30232157.37	0.0135	0.0027	*
Earth	78061-09-28 22:05 G	30232526.17	30232526.42	30232526.67	0.0135	0.0015	
Moon	78061-09-29 01:12 G	30232526.29	30232526.55	30232526.81	0.0135	0.0008	*
Moon	78062-10-03 01:56 G	30232895.37	30232895.58	30232895.81	0.0134	0.0061	
Earth	78062-10-03 04:48 G	30232895.48	30232895.70	30232895.93	0.0134	0.0057	*
Venus	78063-09-20 18:00 G	30233248.13	30233248.25	30233248.40	0.0134	0.0104	
Earth	78063-10-07 11:32 G	30233264.81	30233264.98	30233265.15	0.0134	0.0098	
Moon	78063-10-07 14:24 G	30233264.94	30233265.10	30233265.29	0.0134	0.0098	*
Venus	78064-05-03 23:03 G	30233474.29	30233474.46	30233474.66	0.0134	0.0073	
Venus	78064-12-16 04:20 G	30233700.48	30233700.68	30233700.89	0.0134	0.0040	
Venus	78065-07-30 09:36 G	30233926.69	30233926.90	30233927.12	0.0134	0.0008	
Venus	78066-03-13 14:39 G	30234152.90	30234153.11	30234153.33	0.0134	0.0025	
Venus	78066-10-25 19:41 G	30234379.13	30234379.32	30234379.52	0.0134	0.0057	
Venus	78067-06-09 00:44 G	30234605.37	30234605.53	30234605.69	0.0134	0.0089	
Venus	78068-01-21 05:32 G	30234831.65	30234831.73	30234831.84	0.0134	0.0121	
Mercury	78071-06-14 00:00 G	30236071.43	30236071.50	30236071.58	0.0135	0.0120	
Mercury	78071-09-10 05:17 G	30236159.61	30236159.72	30236159.84	0.0135	0.0097	
Mercury	78071-12-07 10:34 G	30236247.81	30236247.94	30236248.09	0.0135	0.0075	
Mercury	78072-03-04 16:05 G	30236336.02	30236336.17	30236336.32	0.0135	0.0052	
Mercury	78072-05-31 21:08 G	30236424.22	30236424.38	30236424.55	0.0135	0.0030	
Mercury	78072-08-28 02:24 G	30236512.44	30236512.60	30236512.77	0.0135	0.0008	
Mercury	78072-11-24 07:41 G	30236600.65	30236600.82	30236600.98	0.0135	0.0015	
Mercury	78073-02-20 12:44 G	30236688.87	30236689.03	30236689.19	0.0135	0.0037	
Mercury	78073-05-19 17:46 G	30236777.09	30236777.24	30236777.39	0.0135	0.0059	
Mercury	78073-08-15 22:48 G	30236865.32	30236865.45	30236865.58	0.0135	0.0080	
Mercury	78073-11-12 03:36 G	30236953.55	30236953.65	30236953.76	0.0135	0.0102	

Mercury	78074-02-08 08:39 G	30237041.80	30237041.86	30237041.93	0.0135	0.0123
Mars	78086-06-03 13:12 G	30241539.82	30241540.05	30241540.33	0.0138	0.0090
Moon	78102-03-18 19:12 G	30247306.12	30247306.30	30247306.50	0.0143	0.0093
Earth	78102-03-18 21:51 G	30247306.23	30247306.41	30247306.62	0.0143	0.0094 *
Earth	78103-03-23 22:34 G	30247676.21	30247676.44	30247676.70	0.0143	0.0044
Moon	78103-03-24 02:24 G	30247676.35	30247676.60	30247676.86	0.0143	0.0038 *
Moon	78104-03-27 20:53 G	30248046.11	30248046.37	30248046.62	0.0143	0.0003
Earth	78104-03-28 00:15 G	30248046.25	30248046.51	30248046.77	0.0143	0.0010 *
Earth	78105-04-02 01:41 G	30248416.35	30248416.57	30248416.81	0.0144	0.0062
Moon	78105-04-02 05:17 G	30248416.51	30248416.72	30248416.95	0.0144	0.0070 *
Venus	78105-11-11 02:39 G	30248639.54	30248639.61	30248639.70	0.0144	0.0133
Moon	78106-04-06 23:46 G	30248786.34	30248786.49	30248786.68	0.0144	0.0108
Earth	78106-04-07 03:51 G	30248786.51	30248786.66	30248786.82	0.0144	0.0114 *
Venus	78106-06-25 15:08 G	30248865.97	30248866.13	30248866.31	0.0144	0.0093
Venus	78107-02-07 03:36 G	30249092.46	30249092.65	30249092.87	0.0144	0.0053
Venus	78107-09-21 16:20 G	30249318.96	30249319.18	30249319.40	0.0144	0.0012
Venus	78108-05-05 04:34 G	30249545.47	30249545.69	30249545.91	0.0144	0.0029
Venus	78108-12-17 16:48 G	30249772.01	30249772.20	30249772.40	0.0144	0.0069
Venus	78109-08-01 04:48 G	30249998.58	30249998.70	30249998.86	0.0144	0.0110
Mercury	78112-09-22 18:29 G	30251147.22	30251147.27	30251147.33	0.0144	0.0130
Mercury	78112-12-19 23:03 G	30251235.37	30251235.46	30251235.56	0.0144	0.0107
Mercury	78113-03-18 03:36 G	30251323.54	30251323.65	30251323.77	0.0144	0.0083
Mercury	78113-06-14 08:10 G	30251411.71	30251411.84	30251411.98	0.0144	0.0060
Mercury	78113-09-10 12:58 G	30251499.90	30251500.04	30251500.18	0.0143	0.0036
Mercury	78113-12-07 17:46 G	30251588.09	30251588.24	30251588.39	0.0143	0.0012
Mercury	78114-03-05 22:20 G	30251676.28	30251676.43	30251676.58	0.0143	0.0013
Mercury	78114-06-02 03:08 G	30251764.49	30251764.63	30251764.78	0.0143	0.0037
Mercury	78114-08-29 07:56 G	30251852.70	30251852.83	30251852.97	0.0143	0.0061
Mercury	78114-11-25 12:44 G	30251940.91	30251941.03	30251941.15	0.0143	0.0086
Mercury	78115-02-21 17:32 G	30252029.14	30252029.23	30252029.33	0.0143	0.0111

Mercury	78115-05-20 22:34 G	30252117.40	30252117.44	30252117.49	0.0143	0.0136
Mars	78126-11-30 08:24 G	30256328.57	30256328.85	30256329.14	0.0140	0.0019
Moon	78142-09-18 06:15 G	30262099.65	30262099.76	30262099.92	0.0135	0.0112
Earth	78142-09-18 08:39 G	30262099.71	30262099.86	30262100.02	0.0135	0.0106 *
Earth	78143-09-22 16:20 G	30262468.98	30262469.18	30262469.42	0.0135	0.0065
Moon	78143-09-22 19:27 G	30262469.07	30262469.31	30262469.54	0.0135	0.0057 *
Moon	78144-09-25 21:51 G	30262838.18	30262838.41	30262838.66	0.0135	0.0030
Earth	78144-09-26 00:15 G	30262838.27	30262838.51	30262838.76	0.0135	0.0022 *
Earth	78145-09-30 07:27 G	30263207.56	30263207.81	30263208.06	0.0135	0.0020
Moon	78145-09-30 09:51 G	30263207.66	30263207.91	30263208.17	0.0135	0.0026 *
Moon	78146-10-04 11:17 G	30263576.75	30263576.97	30263577.20	0.0134	0.0058
Earth	78146-10-04 14:10 G	30263576.87	30263577.09	30263577.32	0.0134	0.0062 *
Venus	78147-05-22 03:22 G	30263806.56	30263806.64	30263806.75	0.0134	0.0119
Earth	78147-10-08 20:10 G	30263946.20	30263946.34	30263946.52	0.0134	0.0103
Moon	78147-10-08 23:03 G	30263946.31	30263946.46	30263946.63	0.0134	0.0105 *
Venus	78148-01-03 08:24 G	30264032.70	30264032.85	30264033.03	0.0134	0.0088
Venus	78148-08-16 13:41 G	30264258.89	30264259.07	30264259.28	0.0134	0.0056
Venus	78149-03-30 18:58 G	30264485.08	30264485.29	30264485.50	0.0134	0.0023
Venus	78149-11-12 00:00 G	30264711.28	30264711.50	30264711.71	0.0134	0.0009
Venus	78150-06-26 04:48 G	30264937.50	30264937.70	30264937.91	0.0134	0.0041
Venus	78151-02-07 09:51 G	30265163.74	30265163.91	30265164.10	0.0134	0.0073
Venus	78151-09-21 14:39 G	30265390.00	30265390.11	30265390.26	0.0134	0.0106
Mercury	78155-07-05 06:29 G	30266772.70	30266772.77	30266772.87	0.0134	0.0115
Mercury	78155-10-01 12:00 G	30266860.88	30266861.00	30266861.13	0.0134	0.0092
Mercury	78155-12-28 17:32 G	30266949.08	30266949.23	30266949.37	0.0134	0.0069
Mercury	78156-03-25 22:34 G	30267037.29	30267037.44	30267037.60	0.0135	0.0047
Mercury	78156-06-22 03:51 G	30267125.50	30267125.66	30267125.83	0.0135	0.0024
Mercury	78156-09-18 09:08 G	30267213.72	30267213.88	30267214.05	0.0135	0.0002
Mercury	78156-12-15 14:10 G	30267301.93	30267302.09	30267302.26	0.0135	0.0021
Mercury	78157-03-13 19:12 G	30267390.15	30267390.30	30267390.47	0.0135	0.0043

Mercury	78157-06-10 00:29 G	30267478.38	30267478.52	30267478.66	0.0135	0.0064
Mercury	78157-09-06 05:17 G	30267566.61	30267566.72	30267566.86	0.0135	0.0086
Mercury	78157-12-03 10:34 G	30267654.84	30267654.94	30267655.04	0.0135	0.0107
Mercury	78158-03-01 15:08 G	30267743.10	30267743.13	30267743.19	0.0135	0.0129
Mars	78171-01-29 05:32 G	30272459.44	30272459.73	30272460.04	0.0138	0.0061
Earth	78185-03-14 05:17 G	30277617.68	30277617.72	30277617.78	0.0143	0.0140
Moon	78185-03-14 06:44 G	30277617.72	30277617.78	30277617.89	0.0143	0.0135 *
Moon	78186-03-19 03:08 G	30277987.45	30277987.63	30277987.83	0.0143	0.0091
Earth	78186-03-19 05:46 G	30277987.55	30277987.74	30277987.95	0.0143	0.0090 *
Earth	78187-03-24 06:15 G	30278357.52	30278357.76	30278358.02	0.0143	0.0038
Moon	78187-03-24 09:08 G	30278357.63	30278357.88	30278358.14	0.0143	0.0040 *
Moon	78188-03-28 04:20 G	30278727.43	30278727.68	30278727.94	0.0143	0.0021
Earth	78188-03-28 07:41 G	30278727.57	30278727.82	30278728.08	0.0143	0.0015 *
Earth	78189-04-02 09:22 G	30279097.67	30279097.89	30279098.12	0.0144	0.0067
Moon	78189-04-02 12:44 G	30279097.80	30279098.03	30279098.28	0.0144	0.0059 *
Venus	78190-02-22 19:41 G	30279424.20	30279424.32	30279424.47	0.0144	0.0113
Moon	78190-04-07 07:27 G	30279467.70	30279467.81	30279467.95	0.0144	0.0125
Earth	78190-04-07 11:03 G	30279467.83	30279467.96	30279468.12	0.0144	0.0119 *
Venus	78190-10-07 07:56 G	30279650.66	30279650.83	30279651.04	0.0144	0.0073
Venus	78191-05-21 20:39 G	30279877.15	30279877.36	30279877.58	0.0144	0.0032
Venus	78192-01-03 09:08 G	30280103.66	30280103.88	30280104.10	0.0144	0.0009
Venus	78192-08-16 21:22 G	30280330.19	30280330.39	30280330.60	0.0144	0.0049
Venus	78193-03-31 09:36 G	30280556.74	30280556.90	30280557.08	0.0144	0.0090
Venus	78193-11-12 21:51 G	30280783.33	30280783.41	30280783.52	0.0144	0.0130
Mercury	78196-10-13 01:12 G	30281848.49	30281848.55	30281848.63	0.0144	0.0125
Mercury	78197-01-09 05:46 G	30281936.65	30281936.74	30281936.85	0.0144	0.0102
Mercury	78197-04-07 10:34 G	30282024.82	30282024.94	30282025.07	0.0144	0.0078
Mercury	78197-07-04 15:08 G	30282113.00	30282113.13	30282113.27	0.0143	0.0054
Mercury	78197-09-30 19:41 G	30282201.18	30282201.32	30282201.47	0.0143	0.0031
Mercury	78197-12-28 00:29 G	30282289.37	30282289.52	30282289.67	0.0143	0.0007

Mercury	78198-03-26 05:17 G	30282377.57	30282377.72	30282377.87	0.0143	0.0018
Mercury	78198-06-22 10:05 G	30282465.78	30282465.92	30282466.06	0.0143	0.0043
Mercury	78198-09-18 14:39 G	30282553.99	30282554.11	30282554.25	0.0143	0.0068
Mercury	78198-12-15 19:41 G	30282642.21	30282642.32	30282642.44	0.0143	0.0092
Mercury	78199-03-14 00:29 G	30282730.44	30282730.52	30282730.61	0.0143	0.0117
Mercury	78199-06-10 05:17 G	30282818.71	30282818.72	30282818.75	0.0143	0.0142
Mars	78211-07-26 20:10 G	30287247.19	30287247.34	30287247.52	0.0140	0.0113
Moon	78226-09-19 16:34 G	30292781.03	30292781.19	30292781.36	0.0135	0.0097
Earth	78226-09-19 18:15 G	30292781.11	30292781.26	30292781.44	0.0135	0.0102 *
Earth	78227-09-24 02:39 G	30293150.38	30293150.61	30293150.84	0.0135	0.0059
Moon	78227-09-24 04:20 G	30293150.45	30293150.68	30293150.91	0.0135	0.0065 *
Moon	78228-09-27 07:56 G	30293519.59	30293519.83	30293520.08	0.0135	0.0011
Earth	78228-09-27 10:05 G	30293519.67	30293519.92	30293520.17	0.0135	0.0017 *
Earth	78229-10-01 17:03 G	30293888.97	30293889.21	30293889.46	0.0135	0.0026
Moon	78229-10-01 19:12 G	30293889.05	30293889.30	30293889.56	0.0135	0.0019 *
Moon	78230-10-05 21:36 G	30294258.21	30294258.40	30294258.62	0.0135	0.0073
Earth	78230-10-06 00:00 G	30294258.28	30294258.50	30294258.72	0.0135	0.0067 *
Venus	78231-01-20 13:12 G	30294365.04	30294365.05	30294365.09	0.0134	0.0134
Venus	78231-09-03 18:29 G	30294591.14	30294591.27	30294591.42	0.0134	0.0102
Earth	78231-10-10 06:00 G	30294627.62	30294627.75	30294627.91	0.0134	0.0109
Moon	78231-10-10 08:39 G	30294627.71	30294627.86	30294628.02	0.0134	0.0107 *
Venus	78232-04-16 23:46 G	30294817.30	30294817.49	30294817.67	0.0134	0.0070
Venus	78232-11-29 04:34 G	30295043.49	30295043.69	30295043.90	0.0134	0.0038
Venus	78233-07-13 09:51 G	30295269.69	30295269.91	30295270.12	0.0134	0.0006
Venus	78234-02-24 14:53 G	30295495.91	30295496.12	30295496.33	0.0134	0.0026
Venus	78234-10-08 19:41 G	30295722.13	30295722.32	30295722.52	0.0134	0.0059
Venus	78235-05-23 00:29 G	30295948.37	30295948.52	30295948.69	0.0134	0.0091
Venus	78236-01-04 05:32 G	30296174.66	30296174.73	30296174.83	0.0134	0.0122
Mercury	78239-04-29 08:10 G	30297385.81	30297385.84	30297385.89	0.0134	0.0131
Mercury	78239-07-26 13:41 G	30297473.97	30297474.07	30297474.17	0.0134	0.0108

Mercury	78239-10-22 19:12 G	30297562.17	30297562.30	30297562.43	0.0134	0.0085
Mercury	78240-01-19 00:15 G	30297650.37	30297650.51	30297650.67	0.0134	0.0063
Mercury	78240-04-16 05:46 G	30297738.58	30297738.74	30297738.90	0.0134	0.0040
Mercury	78240-07-13 10:48 G	30297826.79	30297826.95	30297827.12	0.0135	0.0018
Mercury	78240-10-09 16:05 G	30297915.01	30297915.17	30297915.34	0.0135	0.0005
Mercury	78241-01-05 21:22 G	30298003.23	30298003.39	30298003.55	0.0135	0.0027
Mercury	78241-04-04 02:24 G	30298091.45	30298091.60	30298091.75	0.0135	0.0049
Mercury	78241-07-01 07:27 G	30298179.67	30298179.81	30298179.95	0.0135	0.0071
Mercury	78241-09-27 12:15 G	30298267.91	30298268.01	30298268.14	0.0135	0.0093
Mercury	78241-12-24 17:17 G	30298356.15	30298356.22	30298356.32	0.0135	0.0114
Earth	78269-03-15 13:27 G	30308299.01	30308299.06	30308299.17	0.0143	0.0136
Moon	78269-03-15 14:53 G	30308299.11	30308299.12	30308299.18	0.0143	0.0142 *
Moon	78270-03-20 12:15 G	30308668.82	30308669.01	30308669.23	0.0143	0.0082
Earth	78270-03-20 13:56 G	30308668.89	30308669.08	30308669.30	0.0143	0.0085 *
Earth	78271-03-25 14:39 G	30309038.87	30309039.11	30309039.37	0.0143	0.0033
Moon	78271-03-25 17:32 G	30309038.98	30309039.23	30309039.49	0.0143	0.0030 *
Moon	78272-03-29 13:12 G	30309408.81	30309409.05	30309409.31	0.0143	0.0015
Earth	78272-03-29 16:05 G	30309408.91	30309409.17	30309409.42	0.0143	0.0020 *
Earth	78273-04-03 17:17 G	30309779.01	30309779.22	30309779.45	0.0144	0.0072
Moon	78273-04-03 20:39 G	30309779.16	30309779.36	30309779.59	0.0144	0.0080 *
Venus	78273-10-24 00:29 G	30309982.44	30309982.52	30309982.61	0.0144	0.0132
Moon	78274-04-08 15:22 G	30310149.01	30310149.14	30310149.31	0.0144	0.0117
Earth	78274-04-08 19:12 G	30310149.18	30310149.30	30310149.44	0.0144	0.0124 *
Venus	78274-06-07 12:58 G	30310208.87	30310209.04	30310209.21	0.0144	0.0092
Venus	78275-01-20 01:27 G	30310435.36	30310435.56	30310435.77	0.0144	0.0052
Venus	78275-09-03 13:56 G	30310661.86	30310662.08	30310662.30	0.0144	0.0011
Venus	78276-04-17 02:10 G	30310888.38	30310888.59	30310888.81	0.0144	0.0029
Venus	78276-11-29 14:24 G	30311114.91	30311115.10	30311115.30	0.0144	0.0070
Venus	78277-07-14 02:39 G	30311341.48	30311341.61	30311341.76	0.0144	0.0110
Mercury	78280-08-07 03:51 G	30312461.65	30312461.66	30312461.68	0.0144	0.0142

Mercury	78280-11-03 08:24 G	30312549.77	30312549.85	30312549.93	0.0144	0.0119
Mercury	78281-01-30 12:44 G	30312637.93	30312638.03	30312638.15	0.0144	0.0096
Mercury	78281-04-28 17:32 G	30312726.11	30312726.23	30312726.36	0.0144	0.0072
Mercury	78281-07-25 22:05 G	30312814.29	30312814.42	30312814.56	0.0143	0.0048
Mercury	78281-10-22 02:53 G	30312902.47	30312902.62	30312902.77	0.0143	0.0024
Mercury	78282-01-18 07:27 G	30312990.67	30312990.81	30312990.96	0.0143	0.0004
Mercury	78282-04-16 12:15 G	30313078.86	30313079.01	30313079.16	0.0143	0.0024
Mercury	78282-07-13 17:03 G	30313167.07	30313167.21	30313167.35	0.0143	0.0049
Mercury	78282-10-09 21:36 G	30313255.28	30313255.40	30313255.54	0.0143	0.0074
Mercury	78283-01-06 02:39 G	30313343.50	30313343.61	30313343.72	0.0143	0.0098
Mercury	78283-04-04 07:27 G	30313431.74	30313431.81	30313431.89	0.0143	0.0122
Mars	78294-04-19 23:32 G	30317465.30	30317465.48	30317465.67	0.0140	0.0105
Moon	78310-09-21 02:53 G	30323462.47	30323462.62	30323462.80	0.0135	0.0101
Earth	78310-09-21 03:51 G	30323462.50	30323462.66	30323462.84	0.0135	0.0097 *
Earth	78311-09-25 11:46 G	30323831.77	30323831.99	30323832.23	0.0135	0.0055
Moon	78311-09-25 13:41 G	30323831.82	30323832.07	30323832.31	0.0135	0.0048 *
Moon	78312-09-28 18:15 G	30324201.02	30324201.26	30324201.50	0.0135	0.0019
Earth	78312-09-28 19:27 G	30324201.06	30324201.31	30324201.56	0.0135	0.0012 *
Earth	78313-10-03 02:24 G	30324570.36	30324570.60	30324570.85	0.0135	0.0030
Moon	78313-10-03 03:36 G	30324570.41	30324570.65	30324570.91	0.0135	0.0037 *
Moon	78314-10-07 07:12 G	30324939.60	30324939.80	30324940.02	0.0135	0.0067
Earth	78314-10-07 09:08 G	30324939.67	30324939.88	30324940.09	0.0135	0.0072 *
Venus	78315-05-05 03:51 G	30325149.56	30325149.66	30325149.77	0.0135	0.0117
Earth	78315-10-11 14:53 G	30325309.01	30325309.12	30325309.28	0.0134	0.0114
Moon	78315-10-11 16:20 G	30325309.08	30325309.18	30325309.33	0.0134	0.0117 *
Venus	78315-12-17 08:53 G	30325375.71	30325375.87	30325376.04	0.0134	0.0085
Venus	78316-07-30 14:10 G	30325601.90	30325602.09	30325602.29	0.0134	0.0053
Venus	78317-03-13 19:12 G	30325828.09	30325828.30	30325828.51	0.0134	0.0021
Venus	78317-10-26 00:15 G	30326054.29	30326054.51	30326054.72	0.0134	0.0011
Venus	78318-06-09 05:03 G	30326280.51	30326280.71	30326280.92	0.0134	0.0044

Venus	78319-01-21 10:05 G	30326506.75	30326506.92	30326507.10	0.0134	0.0076
Venus	78319-09-04 15:08 G	30326733.01	30326733.13	30326733.27	0.0134	0.0107
Mercury	78323-05-20 14:53 G	30328087.07	30328087.12	30328087.19	0.0134	0.0125
Mercury	78323-08-16 20:24 G	30328175.25	30328175.35	30328175.47	0.0134	0.0102
Mercury	78323-11-13 01:56 G	30328263.45	30328263.58	30328263.72	0.0134	0.0079
Mercury	78324-02-09 07:12 G	30328351.65	30328351.80	30328351.95	0.0134	0.0056
Mercury	78324-05-07 12:29 G	30328439.86	30328440.02	30328440.18	0.0135	0.0034
Mercury	78324-08-03 17:46 G	30328528.07	30328528.24	30328528.41	0.0135	0.0011
Mercury	78324-10-30 23:03 G	30328616.29	30328616.46	30328616.62	0.0135	0.0011
Mercury	78325-01-27 04:05 G	30328704.51	30328704.67	30328704.83	0.0135	0.0033
Mercury	78325-04-25 09:08 G	30328792.74	30328792.88	30328793.04	0.0135	0.0055
Mercury	78325-07-22 14:10 G	30328880.96	30328881.09	30328881.23	0.0135	0.0077
Mercury	78325-10-18 19:27 G	30328969.20	30328969.31	30328969.42	0.0135	0.0098
Mercury	78326-01-15 00:15 G	30329057.45	30329057.51	30329057.59	0.0135	0.0120
Mars	78338-06-17 14:39 G	30333593.80	30333594.11	30333594.45	0.0138	0.0036
Moon	78353-03-17 00:15 G	30338980.40	30338980.51	30338980.67	0.0143	0.0124
Earth	78353-03-17 00:00 G	30338980.41	30338980.50	30338980.62	0.0143	0.0130 *
Moon	78354-03-21 22:48 G	30339350.26	30339350.45	30339350.66	0.0143	0.0082
Earth	78354-03-22 00:15 G	30339350.30	30339350.51	30339350.73	0.0143	0.0079 *
Earth	78355-03-27 00:44 G	30339720.29	30339720.53	30339720.79	0.0143	0.0028
Moon	78355-03-27 02:24 G	30339720.35	30339720.60	30339720.87	0.0143	0.0028 *
Moon	78356-03-30 23:17 G	30340090.23	30340090.47	30340090.72	0.0143	0.0031
Earth	78356-03-31 01:56 G	30340090.33	30340090.58	30340090.84	0.0143	0.0025 *
Earth	78357-04-05 03:22 G	30340460.43	30340460.64	30340460.86	0.0144	0.0078
Moon	78357-04-05 06:00 G	30340460.54	30340460.75	30340460.99	0.0144	0.0070 *
Venus	78358-02-05 18:44 G	30340767.16	30340767.28	30340767.44	0.0144	0.0111
Moon	78358-04-10 01:27 G	30340830.51	30340830.56	30340830.66	0.0144	0.0137
Earth	78358-04-10 04:48 G	30340830.61	30340830.70	30340830.83	0.0144	0.0130 *
Venus	78358-09-20 07:27 G	30340993.62	30340993.81	30340994.00	0.0144	0.0070
Venus	78359-05-04 19:41 G	30341220.11	30341220.32	30341220.54	0.0144	0.0030

Venus	78359-12-17 08:10 G	30341446.62	30341446.84	30341447.06	0.0144	0.0011
Venus	78360-07-30 20:39 G	30341673.15	30341673.36	30341673.56	0.0144	0.0051
Venus	78361-03-14 08:53 G	30341899.71	30341899.87	30341900.05	0.0144	0.0092
Venus	78361-10-26 21:08 G	30342126.31	30342126.38	30342126.48	0.0144	0.0132
Mercury	78364-08-28 11:03 G	30343162.92	30343162.96	30343163.02	0.0144	0.0135
Mercury	78364-11-24 15:36 G	30343251.07	30343251.15	30343251.25	0.0144	0.0112
Mercury	78365-02-20 20:10 G	30343339.23	30343339.34	30343339.46	0.0144	0.0088
Mercury	78365-05-20 00:44 G	30343427.41	30343427.53	30343427.67	0.0144	0.0065
Mercury	78365-08-16 05:32 G	30343515.59	30343515.73	30343515.87	0.0144	0.0041
Mercury	78365-11-12 10:05 G	30343603.78	30343603.92	30343604.07	0.0143	0.0017
Mercury	78366-02-08 14:53 G	30343691.97	30343692.12	30343692.27	0.0143	0.0007
Mercury	78366-05-07 19:41 G	30343780.17	30343780.32	30343780.46	0.0143	0.0032
Mercury	78366-08-04 00:15 G	30343868.38	30343868.51	30343868.65	0.0143	0.0056
Mercury	78366-10-31 05:03 G	30343956.59	30343956.71	30343956.84	0.0143	0.0081
Mercury	78367-01-27 09:51 G	30344044.81	30344044.91	30344045.02	0.0143	0.0105
Mercury	78367-04-25 14:39 G	30344133.06	30344133.11	30344133.18	0.0143	0.0130
Mars	78378-12-14 14:39 G	30348383.83	30348384.11	30348384.39	0.0140	0.0029
Moon	78393-09-17 05:32 G	30353774.70	30353774.73	30353774.79	0.0135	0.0134
Earth	78393-09-17 05:32 G	30353774.72	30353774.73	30353774.76	0.0135	0.0135 *
Moon	78394-09-21 13:12 G	30354143.88	30354144.05	30354144.25	0.0135	0.0089
Earth	78394-09-21 13:56 G	30354143.91	30354144.08	30354144.28	0.0135	0.0092 *
Earth	78395-09-25 22:05 G	30354513.19	30354513.42	30354513.66	0.0135	0.0049
Moon	78395-09-25 22:34 G	30354513.20	30354513.44	30354513.68	0.0135	0.0054 *
Moon	78396-09-29 04:34 G	30354882.45	30354882.69	30354882.94	0.0135	0.0002
Earth	78396-09-29 05:32 G	30354882.48	30354882.73	30354882.98	0.0135	0.0007 *
Earth	78397-10-03 12:15 G	30355251.78	30355252.01	30355252.26	0.0135	0.0036
Moon	78397-10-03 13:27 G	30355251.80	30355252.06	30355252.31	0.0135	0.0028 *
Moon	78398-10-07 18:15 G	30355621.08	30355621.26	30355621.46	0.0135	0.0083
Earth	78398-10-07 19:12 G	30355621.09	30355621.30	30355621.51	0.0135	0.0077 *
Venus	78399-01-02 13:56 G	30355708.04	30355708.08	30355708.13	0.0135	0.0131

Venus	78399-08-16 18:44 G	30355934.15	30355934.28	30355934.44	0.0135	0.0100
Earth	78399-10-12 00:58 G	30355990.44	30355990.54	30355990.68	0.0134	0.0119
Moon	78399-10-12 02:24 G	30355990.49	30355990.60	30355990.75	0.0134	0.0115 *
Venus	78400-03-30 00:00 G	30356160.32	30356160.50	30356160.69	0.0134	0.0067
Venus	78400-11-11 05:03 G	30356386.51	30356386.71	30356386.92	0.0134	0.0035
Venus	78401-06-25 10:05 G	30356612.71	30356612.92	30356613.14	0.0134	0.0004
Venus	78402-02-06 15:08 G	30356838.92	30356839.13	30356839.34	0.0134	0.0029
Venus	78402-09-20 19:56 G	30357065.15	30357065.33	30357065.54	0.0134	0.0062
Venus	78403-05-05 00:58 G	30357291.40	30357291.54	30357291.71	0.0134	0.0093
Venus	78403-12-17 06:15 G	30357517.69	30357517.76	30357517.84	0.0134	0.0125
Mercury	78407-06-09 22:05 G	30358788.35	30358788.42	30358788.51	0.0134	0.0118
Mercury	78407-09-06 03:36 G	30358876.53	30358876.65	30358876.77	0.0134	0.0095
Mercury	78407-12-03 08:39 G	30358964.73	30358964.86	30358965.02	0.0135	0.0073
Mercury	78408-02-29 14:10 G	30359052.94	30359053.09	30359053.25	0.0135	0.0050
Mercury	78408-05-27 19:27 G	30359141.15	30359141.31	30359141.48	0.0135	0.0027
Mercury	78408-08-24 00:44 G	30359229.37	30359229.53	30359229.70	0.0135	0.0006
Mercury	78408-11-20 06:00 G	30359317.59	30359317.75	30359317.91	0.0135	0.0018
Mercury	78409-02-16 11:03 G	30359405.81	30359405.96	30359406.12	0.0135	0.0040
Mercury	78409-05-15 16:05 G	30359494.03	30359494.17	30359494.33	0.0135	0.0062
Mercury	78409-08-11 21:22 G	30359582.26	30359582.39	30359582.52	0.0135	0.0083
Mercury	78409-11-08 02:10 G	30359670.50	30359670.59	30359670.70	0.0135	0.0105
Mercury	78410-02-04 07:27 G	30359758.76	30359758.81	30359758.86	0.0135	0.0126
Mars	78423-02-11 12:00 G	30364513.85	30364514.00	30364514.18	0.0138	0.0120
Earth	78437-03-17 11:03 G	30369661.85	30369661.96	30369662.10	0.0143	0.0124
Moon	78437-03-17 11:03 G	30369661.87	30369661.96	30369662.08	0.0143	0.0131 *
Moon	78438-03-22 10:34 G	30370031.74	30370031.94	30370032.17	0.0143	0.0070
Earth	78438-03-22 11:03 G	30370031.75	30370031.96	30370032.19	0.0143	0.0073 *
Earth	78439-03-27 11:46 G	30370401.74	30370401.99	30370402.25	0.0143	0.0021
Moon	78439-03-27 13:27 G	30370401.80	30370402.06	30370402.33	0.0143	0.0020 *
Moon	78440-03-31 11:17 G	30370771.73	30370771.97	30370772.22	0.0144	0.0027

Earth	78440-03-31 12:44 G	30370771.79	30370772.03	30370772.29	0.0144	0.0032	*
Earth	78441-04-05 14:10 G	30371141.89	30371142.09	30371142.30	0.0144	0.0084	
Moon	78441-04-05 16:34 G	30371142.01	30371142.19	30371142.41	0.0144	0.0092	*
Venus	78441-10-06 01:41 G	30371325.47	30371325.57	30371325.66	0.0144	0.0128	
Moon	78442-04-10 12:44 G	30371511.94	30371512.03	30371512.16	0.0144	0.0129	
Earth	78442-04-10 16:05 G	30371512.10	30371512.17	30371512.26	0.0144	0.0136	*
Venus	78442-05-20 13:56 G	30371551.91	30371552.08	30371552.25	0.0144	0.0088	
Venus	78443-01-02 02:10 G	30371778.39	30371778.59	30371778.81	0.0144	0.0048	
Venus	78443-08-16 14:53 G	30372004.90	30372005.12	30372005.34	0.0144	0.0008	
Venus	78444-03-30 03:22 G	30372231.42	30372231.64	30372231.85	0.0144	0.0033	
Venus	78444-11-11 15:22 G	30372457.96	30372458.14	30372458.34	0.0144	0.0074	
Venus	78445-06-26 03:51 G	30372684.54	30372684.66	30372684.81	0.0144	0.0114	
Mercury	78448-09-17 18:44 G	30373864.21	30373864.28	30373864.35	0.0144	0.0127	
Mercury	78448-12-14 23:03 G	30373952.37	30373952.46	30373952.57	0.0144	0.0104	
Mercury	78449-03-13 03:36 G	30374040.54	30374040.65	30374040.78	0.0144	0.0080	
Mercury	78449-06-09 08:24 G	30374128.71	30374128.85	30374128.98	0.0144	0.0056	
Mercury	78449-09-05 12:58 G	30374216.90	30374217.04	30374217.19	0.0144	0.0033	
Mercury	78449-12-02 17:46 G	30374305.09	30374305.24	30374305.38	0.0143	0.0010	
Mercury	78450-02-28 22:20 G	30374393.28	30374393.43	30374393.58	0.0143	0.0015	
Mercury	78450-05-28 03:08 G	30374481.48	30374481.63	30374481.77	0.0143	0.0040	
Mercury	78450-08-24 07:41 G	30374569.69	30374569.82	30374569.96	0.0143	0.0064	
Mercury	78450-11-20 12:29 G	30374657.91	30374658.02	30374658.14	0.0143	0.0089	
Mercury	78451-02-16 17:17 G	30374746.14	30374746.22	30374746.32	0.0143	0.0113	
Mercury	78451-05-15 22:05 G	30374834.39	30374834.42	30374834.47	0.0143	0.0138	
Moon	78477-09-17 15:36 G	30384456.10	30384456.15	30384456.24	0.0135	0.0130	
Earth	78477-09-17 15:51 G	30384456.10	30384456.16	30384456.24	0.0135	0.0130	*
Earth	78478-09-22 00:15 G	30384825.33	30384825.51	30384825.71	0.0135	0.0087	
Moon	78478-09-22 00:29 G	30384825.36	30384825.52	30384825.72	0.0135	0.0089	*
Earth	78479-09-26 08:10 G	30385194.60	30385194.84	30385195.08	0.0135	0.0044	
Moon	78479-09-26 08:24 G	30385194.60	30385194.85	30385195.10	0.0135	0.0039	*

Earth	78480-09-29 15:22 G	30385563.89	30385564.14	30385564.40	0.0135	0.0003
Moon	78480-09-29 15:22 G	30385563.90	30385564.14	30385564.39	0.0135	0.0009 *
Moon	78481-10-03 22:20 G	30385933.19	30385933.43	30385933.68	0.0135	0.0047
Earth	78481-10-03 22:05 G	30385933.19	30385933.42	30385933.67	0.0135	0.0041 *
Moon	78482-10-08 04:05 G	30386302.48	30386302.67	30386302.88	0.0135	0.0077
Earth	78482-10-08 04:34 G	30386302.51	30386302.69	30386302.90	0.0135	0.0083 *
Venus	78483-04-16 04:34 G	30386492.59	30386492.69	30386492.82	0.0134	0.0114
Earth	78483-10-12 10:48 G	30386671.87	30386671.95	30386672.07	0.0134	0.0123
Moon	78483-10-12 10:48 G	30386671.89	30386671.95	30386672.05	0.0134	0.0128 *
Venus	78483-11-28 09:51 G	30386718.74	30386718.91	30386719.08	0.0134	0.0082
Venus	78484-07-11 14:53 G	30386944.93	30386945.12	30386945.33	0.0134	0.0050
Venus	78485-02-22 19:56 G	30387171.12	30387171.33	30387171.55	0.0134	0.0018
Venus	78485-10-07 00:58 G	30387397.33	30387397.54	30387397.76	0.0134	0.0014
Venus	78486-05-21 05:46 G	30387623.55	30387623.74	30387623.95	0.0134	0.0047
Venus	78487-01-02 10:48 G	30387849.79	30387849.95	30387850.13	0.0134	0.0078
Venus	78487-08-16 15:51 G	30388076.05	30388076.16	30388076.30	0.0134	0.0110
Mercury	78491-06-30 05:03 G	30389489.62	30389489.71	30389489.80	0.0134	0.0112
Mercury	78491-09-26 10:20 G	30389577.81	30389577.93	30389578.06	0.0134	0.0089
Mercury	78491-12-23 15:36 G	30389666.01	30389666.15	30389666.31	0.0135	0.0067
Mercury	78492-03-20 21:08 G	30389754.22	30389754.38	30389754.54	0.0135	0.0044
Mercury	78492-06-17 02:24 G	30389842.44	30389842.60	30389842.77	0.0135	0.0021
Mercury	78492-09-13 07:41 G	30389930.65	30389930.82	30389930.99	0.0135	0.0002
Mercury	78492-12-10 12:44 G	30390018.87	30390019.03	30390019.20	0.0135	0.0024
Mercury	78493-03-08 17:46 G	30390107.09	30390107.24	30390107.40	0.0135	0.0046
Mercury	78493-06-04 23:03 G	30390195.32	30390195.46	30390195.60	0.0135	0.0067
Mercury	78493-09-01 04:05 G	30390283.55	30390283.67	30390283.80	0.0135	0.0089
Mercury	78493-11-28 08:53 G	30390371.79	30390371.87	30390371.97	0.0135	0.0111
Mercury	78494-02-24 13:56 G	30390460.06	30390460.08	30390460.12	0.0135	0.0132
Mars	78505-11-03 01:56 G	30394728.49	30394728.58	30394728.70	0.0138	0.0130
Moon	78521-03-18 19:56 G	30400343.19	30400343.33	30400343.52	0.0143	0.0112

Earth	78521-03-18 20:53 G	30400343.25	30400343.37	30400343.53	0.0143	0.0119	*
Moon	78522-03-23 20:53 G	30400713.17	30400713.37	30400713.60	0.0143	0.0073	
Earth	78522-03-23 21:22 G	30400713.17	30400713.39	30400713.62	0.0143	0.0067	*
Earth	78523-03-28 22:05 G	30401083.17	30401083.42	30401083.68	0.0143	0.0015	
Moon	78523-03-28 22:34 G	30401083.17	30401083.44	30401083.70	0.0143	0.0014	*
Moon	78524-04-01 21:36 G	30401453.17	30401453.40	30401453.64	0.0144	0.0042	
Earth	78524-04-01 23:17 G	30401453.23	30401453.47	30401453.72	0.0144	0.0037	*
Earth	78525-04-07 00:44 G	30401823.34	30401823.53	30401823.74	0.0144	0.0090	
Moon	78525-04-07 02:24 G	30401823.40	30401823.60	30401823.83	0.0144	0.0083	*
Venus	78526-01-18 20:24 G	30402110.21	30402110.35	30402110.50	0.0144	0.0106	
Earth	78526-04-12 02:53 G	30402193.59	30402193.62	30402193.66	0.0144	0.0142	
Venus	78526-09-02 08:53 G	30402336.68	30402336.87	30402337.07	0.0144	0.0066	
Venus	78527-04-16 21:22 G	30402563.17	30402563.39	30402563.61	0.0144	0.0025	
Venus	78527-11-29 09:51 G	30402789.69	30402789.91	30402790.13	0.0144	0.0015	
Venus	78528-07-12 22:05 G	30403016.23	30403016.42	30403016.64	0.0144	0.0056	
Venus	78529-02-24 10:48 G	30403242.80	30403242.95	30403243.13	0.0144	0.0096	
Venus	78529-10-08 23:17 G	30403469.42	30403469.47	30403469.55	0.0144	0.0136	
Jupiter	78530-04-17 20:53 G	30403660.17	30403660.37	30403660.66	0.0144	0.0127	
Mercury	78532-07-12 21:36 G	30404477.39	30404477.40	30404477.43	0.0144	0.0142	
Mercury	78532-10-09 02:10 G	30404565.52	30404565.59	30404565.68	0.0144	0.0119	
Mercury	78533-01-05 06:29 G	30404653.68	30404653.77	30404653.89	0.0144	0.0096	
Mercury	78533-04-03 11:17 G	30404741.85	30404741.97	30404742.10	0.0144	0.0072	
Mercury	78533-06-30 16:05 G	30404830.03	30404830.17	30404830.30	0.0144	0.0048	
Mercury	78533-09-26 20:39 G	30404918.21	30404918.36	30404918.50	0.0144	0.0024	
Mercury	78533-12-24 01:12 G	30405006.40	30405006.55	30405006.70	0.0144	0.0002	
Mercury	78534-03-22 06:00 G	30405094.60	30405094.75	30405094.89	0.0144	0.0024	
Mercury	78534-06-18 10:34 G	30405182.80	30405182.94	30405183.09	0.0143	0.0049	
Mercury	78534-09-14 15:22 G	30405271.02	30405271.14	30405271.27	0.0143	0.0073	
Mercury	78534-12-11 20:10 G	30405359.23	30405359.34	30405359.45	0.0143	0.0097	
Mercury	78535-03-10 00:44 G	30405447.47	30405447.53	30405447.62	0.0143	0.0123	

Mars	78546-05-04 14:39 G	30409520.84	30409521.11	30409521.38	0.0140	0.0049
Moon	78561-09-19 01:27 G	30415137.46	30415137.56	30415137.69	0.0135	0.0122
Earth	78561-09-19 02:39 G	30415137.53	30415137.61	30415137.73	0.0135	0.0125 *
Earth	78562-09-23 11:03 G	30415506.77	30415506.96	30415507.17	0.0135	0.0082
Moon	78562-09-23 11:17 G	30415506.79	30415506.97	30415507.18	0.0135	0.0080 *
Moon	78563-09-27 17:46 G	30415876.00	30415876.24	30415876.49	0.0135	0.0043
Earth	78563-09-27 18:44 G	30415876.05	30415876.28	30415876.53	0.0135	0.0039 *
Earth	78564-10-01 01:56 G	30416245.33	30416245.58	30416245.84	0.0135	0.0005
Moon	78564-10-01 02:24 G	30416245.36	30416245.60	30416245.84	0.0135	0.0010 *
Moon	78565-10-05 08:24 G	30416614.61	30416614.85	30416615.11	0.0135	0.0039
Earth	78565-10-05 08:39 G	30416614.64	30416614.86	30416615.11	0.0135	0.0047 *
Earth	78566-10-09 15:22 G	30416983.96	30416984.14	30416984.34	0.0134	0.0088
Moon	78566-10-09 15:36 G	30416984.00	30416984.15	30416984.34	0.0134	0.0095 *
Venus	78566-12-15 14:53 G	30417051.07	30417051.12	30417051.20	0.0134	0.0128
Venus	78567-07-29 20:24 G	30417277.20	30417277.35	30417277.50	0.0134	0.0096
Moon	78567-10-13 21:22 G	30417353.31	30417353.39	30417353.50	0.0134	0.0125
Earth	78567-10-13 21:08 G	30417353.34	30417353.38	30417353.47	0.0134	0.0129 *
Venus	78568-03-12 01:12 G	30417503.37	30417503.55	30417503.75	0.0134	0.0064
Venus	78568-10-24 06:15 G	30417729.56	30417729.76	30417729.97	0.0134	0.0032
Venus	78569-06-07 11:17 G	30417955.76	30417955.97	30417956.19	0.0134	0.0001
Venus	78570-01-19 16:05 G	30418181.97	30418182.17	30418182.39	0.0134	0.0033
Venus	78570-09-02 21:08 G	30418408.21	30418408.38	30418408.58	0.0134	0.0064
Venus	78571-04-17 02:24 G	30418634.45	30418634.60	30418634.75	0.0134	0.0096
Venus	78571-11-29 07:12 G	30418860.75	30418860.80	30418860.88	0.0134	0.0127
Mercury	78575-04-24 06:29 G	30420102.73	30420102.77	30420102.83	0.0134	0.0128
Mercury	78575-07-21 12:00 G	30420190.90	30420191.00	30420191.11	0.0134	0.0105
Mercury	78575-10-17 17:32 G	30420279.10	30420279.23	30420279.36	0.0134	0.0082
Mercury	78576-01-13 22:48 G	30420367.30	30420367.45	30420367.60	0.0135	0.0059
Mercury	78576-04-11 04:05 G	30420455.51	30420455.67	30420455.83	0.0135	0.0037
Mercury	78576-07-08 09:22 G	30420543.73	30420543.89	30420544.06	0.0135	0.0015

Mercury	78576-10-04 14:39 G	30420631.94	30420632.11	30420632.28	0.0135	0.0008
Mercury	78576-12-31 19:56 G	30420720.17	30420720.33	30420720.49	0.0135	0.0030
Mercury	78577-03-30 00:58 G	30420808.39	30420808.54	30420808.69	0.0135	0.0052
Mercury	78577-06-26 06:00 G	30420896.62	30420896.75	30420896.89	0.0135	0.0074
Mercury	78577-09-22 10:48 G	30420984.85	30420984.95	30420985.08	0.0135	0.0096
Mercury	78577-12-19 15:51 G	30421073.09	30421073.16	30421073.25	0.0135	0.0117
Mars	78590-06-29 19:41 G	30425648.00	30425648.32	30425648.66	0.0138	0.0020
Moon	78605-03-20 04:48 G	30431024.57	30431024.70	30431024.85	0.0143	0.0121
Earth	78605-03-20 06:00 G	30431024.61	30431024.75	30431024.92	0.0143	0.0114 *
Earth	78606-03-25 06:15 G	30431394.54	30431394.76	30431395.00	0.0143	0.0062
Moon	78606-03-25 06:58 G	30431394.58	30431394.79	30431395.03	0.0143	0.0058 *
Earth	78607-03-30 07:12 G	30431764.54	30431764.80	30431765.06	0.0143	0.0010
Moon	78607-03-30 07:27 G	30431764.55	30431764.81	30431765.08	0.0143	0.0010 *
Moon	78608-04-03 08:10 G	30432134.60	30432134.84	30432135.08	0.0144	0.0040
Earth	78608-04-03 08:24 G	30432134.61	30432134.85	30432135.10	0.0144	0.0043 *
Earth	78609-04-08 09:51 G	30432504.73	30432504.91	30432505.11	0.0144	0.0096
Moon	78609-04-08 11:17 G	30432504.80	30432504.97	30432505.17	0.0144	0.0103 *
Venus	78609-09-19 01:56 G	30432668.48	30432668.58	30432668.69	0.0144	0.0125
Moon	78610-04-13 09:51 G	30432874.88	30432874.91	30432874.98	0.0144	0.0141
Venus	78610-05-03 14:24 G	30432894.93	30432895.10	30432895.28	0.0144	0.0085
Venus	78610-12-16 02:53 G	30433121.42	30433121.62	30433121.84	0.0144	0.0045
Venus	78611-07-30 15:36 G	30433347.93	30433348.15	30433348.37	0.0144	0.0004
Venus	78612-03-13 04:05 G	30433574.47	30433574.67	30433574.89	0.0144	0.0037
Venus	78612-10-25 16:48 G	30433801.02	30433801.20	30433801.39	0.0144	0.0077
Venus	78613-06-09 05:17 G	30434027.60	30434027.72	30434027.86	0.0144	0.0117
Mercury	78616-08-03 04:48 G	30435178.67	30435178.70	30435178.76	0.0144	0.0135
Mercury	78616-10-30 09:36 G	30435266.81	30435266.90	30435266.99	0.0144	0.0111
Mercury	78617-01-26 14:10 G	30435354.98	30435355.09	30435355.21	0.0144	0.0088
Mercury	78617-04-24 18:44 G	30435443.15	30435443.28	30435443.41	0.0144	0.0064
Mercury	78617-07-21 23:17 G	30435531.33	30435531.47	30435531.61	0.0144	0.0040

Mercury	78617-10-18 03:51 G	30435619.52	30435619.66	30435619.81	0.0144	0.0017
Mercury	78618-01-14 08:39 G	30435707.71	30435707.86	30435708.01	0.0144	0.0008
Mercury	78618-04-12 13:12 G	30435795.91	30435796.05	30435796.20	0.0144	0.0032
Mercury	78618-07-09 18:00 G	30435884.11	30435884.25	30435884.39	0.0144	0.0056
Mercury	78618-10-05 22:34 G	30435972.33	30435972.44	30435972.57	0.0144	0.0081
Mercury	78619-01-02 03:22 G	30436060.55	30436060.64	30436060.75	0.0143	0.0105
Mercury	78619-03-31 08:24 G	30436148.79	30436148.85	30436148.91	0.0143	0.0130
Mars	78630-12-29 06:58 G	30440439.59	30440439.79	30440440.04	0.0140	0.0086
Moon	78645-09-20 12:29 G	30445818.91	30445819.02	30445819.14	0.0135	0.0121
Earth	78645-09-20 13:27 G	30445818.96	30445819.06	30445819.20	0.0135	0.0119 *
Earth	78646-09-24 21:51 G	30446188.21	30446188.41	30446188.62	0.0135	0.0076
Moon	78646-09-24 23:32 G	30446188.28	30446188.48	30446188.69	0.0135	0.0076 *
Moon	78647-09-29 04:05 G	30446557.43	30446557.67	30446557.94	0.0135	0.0030
Earth	78647-09-29 05:17 G	30446557.48	30446557.72	30446557.97	0.0135	0.0034 *
Earth	78648-10-02 12:29 G	30446926.77	30446927.02	30446927.28	0.0135	0.0009
Moon	78648-10-02 13:56 G	30446926.83	30446927.08	30446927.32	0.0135	0.0003 *
Moon	78649-10-06 18:00 G	30447296.03	30447296.25	30447296.50	0.0134	0.0058
Earth	78649-10-06 19:12 G	30447296.08	30447296.30	30447296.54	0.0134	0.0051 *
Earth	78650-10-11 01:27 G	30447665.40	30447665.56	30447665.76	0.0134	0.0093
Moon	78650-10-11 02:24 G	30447665.42	30447665.60	30447665.79	0.0134	0.0087 *
Venus	78651-03-30 06:15 G	30447835.65	30447835.76	30447835.89	0.0134	0.0110
Earth	78651-10-15 07:56 G	30448034.83	30448034.83	30448034.84	0.0134	0.0134
Venus	78651-11-11 11:17 G	30448061.81	30448061.97	30448062.15	0.0134	0.0078
Venus	78652-06-24 16:20 G	30448287.99	30448288.18	30448288.39	0.0134	0.0047
Venus	78653-02-05 21:36 G	30448514.18	30448514.40	30448514.61	0.0134	0.0014
Venus	78653-09-20 02:39 G	30448740.39	30448740.61	30448740.82	0.0134	0.0018
Venus	78654-05-04 07:27 G	30448966.61	30448966.81	30448967.01	0.0134	0.0049
Venus	78654-12-16 12:15 G	30449192.85	30449193.01	30449193.19	0.0134	0.0081
Venus	78655-07-30 17:17 G	30449419.12	30449419.22	30449419.35	0.0134	0.0113
Mercury	78659-05-15 13:27 G	30450804.00	30450804.06	30450804.13	0.0134	0.0121

Mercury	78659-08-11 18:58 G	30450892.18	30450892.29	30450892.40	0.0134	0.0099
Mercury	78659-11-08 00:00 G	30450980.38	30450980.50	30450980.65	0.0134	0.0077
Mercury	78660-02-04 05:32 G	30451068.58	30451068.73	30451068.89	0.0134	0.0054
Mercury	78660-05-02 11:03 G	30451156.79	30451156.96	30451157.12	0.0134	0.0031
Mercury	78660-07-29 16:20 G	30451245.01	30451245.18	30451245.34	0.0134	0.0009
Mercury	78660-10-25 21:22 G	30451333.23	30451333.39	30451333.56	0.0135	0.0014
Mercury	78661-01-22 02:39 G	30451421.45	30451421.61	30451421.77	0.0135	0.0036
Mercury	78661-04-20 07:41 G	30451509.68	30451509.82	30451509.97	0.0135	0.0058
Mercury	78661-07-17 12:44 G	30451597.90	30451598.03	30451598.17	0.0135	0.0079
Mercury	78661-10-13 17:46 G	30451686.14	30451686.24	30451686.35	0.0135	0.0101
Mercury	78662-01-09 22:34 G	30451774.39	30451774.44	30451774.52	0.0135	0.0123
Moon	78689-03-20 11:17 G	30461705.80	30461705.97	30461706.17	0.0143	0.0102
Earth	78689-03-20 13:27 G	30461705.92	30461706.06	30461706.24	0.0143	0.0110 *
Earth	78690-03-25 13:41 G	30462075.85	30462076.07	30462076.32	0.0143	0.0058
Moon	78690-03-25 15:08 G	30462075.91	30462076.13	30462076.36	0.0143	0.0064 *
Moon	78691-03-30 13:56 G	30462445.81	30462446.08	30462446.34	0.0143	0.0003
Earth	78691-03-30 14:53 G	30462445.87	30462446.12	30462446.38	0.0143	0.0006 *
Moon	78692-04-03 15:36 G	30462815.93	30462816.15	30462816.40	0.0144	0.0052
Earth	78692-04-03 16:05 G	30462815.93	30462816.17	30462816.42	0.0144	0.0048 *
Earth	78693-04-08 18:00 G	30463186.07	30463186.25	30463186.44	0.0144	0.0101
Moon	78693-04-08 18:00 G	30463186.07	30463186.25	30463186.47	0.0144	0.0095 *
Venus	78693-12-31 18:58 G	30463453.15	30463453.29	30463453.45	0.0144	0.0105
Venus	78694-08-15 07:56 G	30463679.63	30463679.83	30463680.03	0.0144	0.0064
Venus	78695-03-29 20:24 G	30463906.14	30463906.35	30463906.57	0.0144	0.0024
Venus	78695-11-11 09:08 G	30464132.66	30464132.88	30464133.10	0.0144	0.0017
Venus	78696-06-24 21:51 G	30464359.21	30464359.41	30464359.61	0.0144	0.0057
Venus	78697-02-06 10:20 G	30464585.78	30464585.93	30464586.10	0.0144	0.0098
Venus	78697-09-20 22:48 G	30464812.41	30464812.45	30464812.53	0.0144	0.0138
Mercury	78700-08-24 12:15 G	30465879.95	30465880.01	30465880.07	0.0144	0.0128
Mercury	78700-11-20 16:48 G	30465968.10	30465968.20	30465968.30	0.0144	0.0105

Mercury	78701-02-16 21:08 G	30466056.27	30466056.38	30466056.51	0.0144	0.0082
Mercury	78701-05-16 01:41 G	30466144.44	30466144.57	30466144.71	0.0144	0.0058
Mercury	78701-08-12 06:15 G	30466232.62	30466232.76	30466232.91	0.0144	0.0035
Mercury	78701-11-08 11:03 G	30466320.81	30466320.96	30466321.11	0.0144	0.0010
Mercury	78702-02-04 15:36 G	30466409.01	30466409.15	30466409.30	0.0144	0.0014
Mercury	78702-05-03 20:24 G	30466497.21	30466497.35	30466497.49	0.0144	0.0038
Mercury	78702-07-31 00:58 G	30466585.41	30466585.54	30466585.68	0.0144	0.0063
Mercury	78702-10-27 05:46 G	30466673.63	30466673.74	30466673.86	0.0144	0.0087
Mercury	78703-01-23 10:34 G	30466761.85	30466761.94	30466762.04	0.0144	0.0112
Mercury	78703-04-21 15:22 G	30466850.10	30466850.14	30466850.19	0.0144	0.0136
Mars	78713-09-23 11:03 G	30470657.87	30470657.96	30470658.10	0.0140	0.0129
Moon	78729-09-21 22:34 G	30476500.30	30476500.44	30476500.60	0.0135	0.0110
Earth	78729-09-22 00:58 G	30476500.42	30476500.54	30476500.69	0.0135	0.0114 *
Earth	78730-09-26 08:39 G	30476869.67	30476869.86	30476870.09	0.0135	0.0071
Moon	78730-09-26 10:34 G	30476869.74	30476869.94	30476870.16	0.0135	0.0070 *
Moon	78731-09-30 14:24 G	30477238.85	30477239.10	30477239.36	0.0135	0.0031
Earth	78731-09-30 16:34 G	30477238.95	30477239.19	30477239.44	0.0135	0.0028 *
Earth	78732-10-03 23:46 G	30477608.24	30477608.49	30477608.74	0.0135	0.0015
Moon	78732-10-04 01:12 G	30477608.32	30477608.55	30477608.80	0.0135	0.0021 *
Moon	78733-10-08 04:48 G	30477977.47	30477977.70	30477977.95	0.0134	0.0050
Earth	78733-10-08 06:15 G	30477977.55	30477977.76	30477978.00	0.0134	0.0058 *
Earth	78734-10-12 12:44 G	30478346.88	30478347.03	30478347.21	0.0134	0.0099
Moon	78734-10-12 14:24 G	30478346.97	30478347.10	30478347.26	0.0134	0.0106 *
Venus	78734-11-28 17:03 G	30478394.14	30478394.21	30478394.30	0.0134	0.0124
Venus	78735-07-12 22:05 G	30478620.28	30478620.42	30478620.59	0.0134	0.0092
Venus	78736-02-24 03:22 G	30478846.45	30478846.64	30478846.84	0.0134	0.0060
Venus	78736-10-07 08:24 G	30479072.64	30479072.85	30479073.06	0.0134	0.0028
Venus	78737-05-21 13:27 G	30479298.84	30479299.06	30479299.27	0.0134	0.0004
Venus	78738-01-02 18:15 G	30479525.06	30479525.26	30479525.47	0.0134	0.0035
Venus	78738-08-16 23:17 G	30479751.29	30479751.47	30479751.66	0.0134	0.0067

Venus	78739-03-31 04:05 G	30479977.54	30479977.67	30479977.83	0.0134	0.0099
Venus	78739-11-12 09:08 G	30480203.84	30480203.88	30480203.94	0.0134	0.0130
Mercury	78743-06-05 20:24 G	30481505.28	30481505.35	30481505.45	0.0134	0.0114
Mercury	78743-09-02 01:56 G	30481593.47	30481593.58	30481593.71	0.0134	0.0091
Mercury	78743-11-29 07:27 G	30481681.67	30481681.81	30481681.96	0.0134	0.0069
Mercury	78744-02-25 12:44 G	30481769.88	30481770.03	30481770.19	0.0134	0.0046
Mercury	78744-05-23 18:15 G	30481858.09	30481858.26	30481858.42	0.0134	0.0024
Mercury	78744-08-19 23:17 G	30481946.31	30481946.47	30481946.64	0.0134	0.0004
Mercury	78744-11-16 04:34 G	30482034.53	30482034.69	30482034.86	0.0134	0.0021
Mercury	78745-02-12 09:51 G	30482122.75	30482122.91	30482123.07	0.0134	0.0043
Mercury	78745-05-11 14:53 G	30482210.98	30482211.12	30482211.27	0.0135	0.0065
Mercury	78745-08-07 19:56 G	30482299.21	30482299.33	30482299.46	0.0135	0.0086
Mercury	78745-11-04 00:58 G	30482387.45	30482387.54	30482387.64	0.0135	0.0108
Mercury	78746-01-31 05:46 G	30482475.71	30482475.74	30482475.80	0.0135	0.0130
Mars	78757-11-16 04:05 G	30486782.40	30486782.67	30486782.95	0.0138	0.0078
Moon	78773-03-21 19:12 G	30492387.15	30492387.30	30492387.47	0.0143	0.0113
Earth	78773-03-21 21:51 G	30492387.25	30492387.41	30492387.59	0.0143	0.0105 *
Earth	78774-03-26 22:05 G	30492757.19	30492757.42	30492757.66	0.0143	0.0053
Moon	78774-03-27 00:29 G	30492757.28	30492757.52	30492757.75	0.0143	0.0047 *
Moon	78775-03-31 21:51 G	30493127.15	30493127.41	30493127.68	0.0143	0.0003
Earth	78775-03-31 23:03 G	30493127.21	30493127.46	30493127.72	0.0143	0.0001 *
Earth	78776-04-05 00:29 G	30493497.28	30493497.52	30493497.76	0.0144	0.0053
Moon	78776-04-05 01:27 G	30493497.33	30493497.56	30493497.80	0.0144	0.0052 *
Earth	78777-04-10 01:56 G	30493867.43	30493867.58	30493867.77	0.0144	0.0107
Moon	78777-04-10 02:10 G	30493867.44	30493867.59	30493867.77	0.0144	0.0112 *
Venus	78777-09-01 00:00 G	30494011.40	30494011.50	30494011.62	0.0144	0.0124
Venus	78778-04-15 12:29 G	30494237.86	30494238.02	30494238.21	0.0144	0.0084
Venus	78778-11-28 01:12 G	30494464.35	30494464.55	30494464.77	0.0144	0.0044
Venus	78779-07-12 14:10 G	30494690.87	30494691.09	30494691.31	0.0144	0.0004
Venus	78780-02-24 02:39 G	30494917.41	30494917.61	30494917.83	0.0144	0.0038

Venus	78780-10-07 15:22 G	30495143.96	30495144.14	30495144.33	0.0144	0.0078
Venus	78781-05-22 04:05 G	30495370.55	30495370.67	30495370.80	0.0144	0.0118
Mercury	78784-09-13 18:58 G	30496581.23	30496581.29	30496581.37	0.0144	0.0123
Mercury	78784-12-10 23:32 G	30496669.38	30496669.48	30496669.59	0.0144	0.0100
Mercury	78785-03-09 04:05 G	30496757.55	30496757.67	30496757.80	0.0144	0.0076
Mercury	78785-06-05 08:39 G	30496845.73	30496845.86	30496846.00	0.0144	0.0053
Mercury	78785-09-01 13:27 G	30496933.91	30496934.06	30496934.20	0.0144	0.0029
Mercury	78785-11-28 18:00 G	30497022.10	30497022.25	30497022.40	0.0144	0.0005
Mercury	78786-02-24 22:34 G	30497110.30	30497110.44	30497110.59	0.0144	0.0020
Mercury	78786-05-24 03:22 G	30497198.50	30497198.64	30497198.78	0.0144	0.0044
Mercury	78786-08-20 07:56 G	30497286.70	30497286.83	30497286.97	0.0144	0.0068
Mercury	78786-11-16 12:44 G	30497374.92	30497375.03	30497375.15	0.0144	0.0093
Mercury	78787-02-12 17:17 G	30497463.15	30497463.22	30497463.32	0.0144	0.0118
Mercury	78787-05-11 22:05 G	30497551.42	30497551.42	30497551.45	0.0143	0.0143
Mars	78798-05-19 03:22 G	30501576.35	30501576.64	30501576.92	0.0140	0.0006
Moon	78813-09-22 09:22 G	30507181.75	30507181.89	30507182.04	0.0135	0.0112
Earth	78813-09-22 11:46 G	30507181.85	30507181.99	30507182.15	0.0135	0.0109 *
Earth	78814-09-26 19:41 G	30507551.11	30507551.32	30507551.55	0.0135	0.0066
Moon	78814-09-26 22:34 G	30507551.23	30507551.44	30507551.66	0.0135	0.0064 *
Moon	78815-10-01 01:12 G	30507920.30	30507920.55	30507920.81	0.0135	0.0020
Earth	78815-10-01 03:22 G	30507920.40	30507920.64	30507920.89	0.0135	0.0023 *
Earth	78816-10-04 10:34 G	30508289.69	30508289.94	30508290.19	0.0135	0.0020
Moon	78816-10-04 12:58 G	30508289.80	30508290.04	30508290.29	0.0135	0.0015 *
Moon	78817-10-08 15:08 G	30508658.92	30508659.13	30508659.36	0.0134	0.0069
Earth	78817-10-08 17:17 G	30508659.01	30508659.22	30508659.46	0.0134	0.0063 *
Earth	78818-10-12 23:46 G	30509028.34	30509028.49	30509028.66	0.0134	0.0105
Moon	78818-10-13 01:41 G	30509028.41	30509028.57	30509028.74	0.0134	0.0098 *
Venus	78819-03-12 08:53 G	30509178.75	30509178.87	30509179.01	0.0134	0.0106
Venus	78819-10-24 13:41 G	30509404.91	30509405.07	30509405.26	0.0134	0.0075
Venus	78820-06-06 18:58 G	30509631.09	30509631.29	30509631.50	0.0134	0.0042

Venus	78821-01-19 00:00 G	30509857.29	30509857.50	30509857.72	0.0134	0.0010
Venus	78821-09-02 05:03 G	30510083.50	30510083.71	30510083.92	0.0134	0.0022
Venus	78822-04-16 09:51 G	30510309.72	30510309.91	30510310.12	0.0134	0.0053
Venus	78822-11-28 14:39 G	30510535.96	30510536.11	30510536.29	0.0134	0.0085
Venus	78823-07-12 19:56 G	30510762.23	30510762.33	30510762.44	0.0134	0.0116
Mercury	78827-03-29 22:05 G	30512118.39	30512118.42	30512118.47	0.0134	0.0130
Mercury	78827-06-26 03:36 G	30512206.56	30512206.65	30512206.76	0.0134	0.0107
Mercury	78827-09-22 09:08 G	30512294.75	30512294.88	30512295.02	0.0134	0.0084
Mercury	78827-12-19 14:39 G	30512382.96	30512383.11	30512383.26	0.0134	0.0062
Mercury	78828-03-16 19:56 G	30512471.17	30512471.33	30512471.49	0.0134	0.0039
Mercury	78828-06-13 01:12 G	30512559.39	30512559.55	30512559.72	0.0134	0.0017
Mercury	78828-09-09 06:29 G	30512647.60	30512647.77	30512647.94	0.0134	0.0006
Mercury	78828-12-06 11:46 G	30512735.83	30512735.99	30512736.15	0.0134	0.0028
Mercury	78829-03-04 16:48 G	30512824.05	30512824.20	30512824.36	0.0134	0.0050
Mercury	78829-05-31 21:51 G	30512912.28	30512912.41	30512912.56	0.0134	0.0072
Mercury	78829-08-28 02:53 G	30513000.51	30513000.62	30513000.75	0.0135	0.0094
Mercury	78829-11-24 08:10 G	30513088.76	30513088.84	30513088.93	0.0135	0.0115
Mars	78842-07-12 21:51 G	30517702.13	30517702.41	30517702.70	0.0138	0.0071
Moon	78857-03-22 03:36 G	30523068.46	30523068.65	30523068.86	0.0143	0.0093
Earth	78857-03-22 06:58 G	30523068.61	30523068.79	30523068.97	0.0143	0.0101 *
Earth	78858-03-27 06:58 G	30523438.56	30523438.79	30523439.04	0.0143	0.0048
Moon	78858-03-27 09:22 G	30523438.67	30523438.89	30523439.13	0.0143	0.0055 *
Moon	78859-04-01 05:46 G	30523808.47	30523808.74	30523809.00	0.0143	0.0009
Earth	78859-04-01 08:10 G	30523808.58	30523808.84	30523809.10	0.0143	0.0005 *
Earth	78860-04-05 09:08 G	30524178.66	30524178.88	30524179.13	0.0144	0.0059
Moon	78860-04-05 10:34 G	30524178.72	30524178.94	30524179.17	0.0144	0.0060 *
Moon	78861-04-10 10:05 G	30524548.76	30524548.92	30524549.12	0.0144	0.0107
Earth	78861-04-10 11:17 G	30524548.82	30524548.97	30524549.14	0.0144	0.0112 *
Venus	78861-05-01 05:17 G	30524569.71	30524569.72	30524569.76	0.0144	0.0143
Venus	78861-12-13 17:46 G	30524796.10	30524796.24	30524796.41	0.0144	0.0103

Venus	78862-07-28 06:29 G	30525022.59	30525022.77	30525022.98	0.0144	0.0063
Venus	78863-03-11 19:27 G	30525249.10	30525249.31	30525249.53	0.0144	0.0022
Venus	78863-10-24 08:10 G	30525475.63	30525475.84	30525476.06	0.0144	0.0019
Venus	78864-06-06 20:39 G	30525702.17	30525702.36	30525702.57	0.0144	0.0059
Venus	78865-01-19 09:36 G	30525928.74	30525928.90	30525929.06	0.0144	0.0099
Venus	78865-09-02 21:51 G	30526155.38	30526155.41	30526155.48	0.0144	0.0140
Mercury	78868-07-07 21:36 G	30527194.38	30527194.40	30527194.44	0.0144	0.0140
Mercury	78868-10-04 02:10 G	30527282.52	30527282.59	30527282.68	0.0144	0.0117
Mercury	78868-12-31 06:44 G	30527370.68	30527370.78	30527370.90	0.0144	0.0093
Mercury	78869-03-29 11:17 G	30527458.85	30527458.97	30527459.10	0.0144	0.0070
Mercury	78869-06-25 15:51 G	30527547.03	30527547.16	30527547.30	0.0144	0.0046
Mercury	78869-09-21 20:24 G	30527635.21	30527635.35	30527635.50	0.0144	0.0023
Mercury	78869-12-19 01:12 G	30527723.40	30527723.55	30527723.70	0.0144	0.0002
Mercury	78870-03-17 05:46 G	30527811.60	30527811.74	30527811.89	0.0144	0.0026
Mercury	78870-06-13 10:20 G	30527899.80	30527899.93	30527900.08	0.0144	0.0051
Mercury	78870-09-09 15:08 G	30527988.01	30527988.13	30527988.26	0.0144	0.0075
Mercury	78870-12-06 19:56 G	30528076.23	30528076.33	30528076.44	0.0144	0.0100
Mercury	78871-03-05 00:29 G	30528164.46	30528164.52	30528164.61	0.0144	0.0125
Mars	78883-01-11 19:12 G	30532495.28	30532495.30	30532495.38	0.0140	0.0138
Moon	78897-09-22 19:41 G	30537863.17	30537863.32	30537863.52	0.0135	0.0099
Earth	78897-09-22 23:03 G	30537863.31	30537863.46	30537863.63	0.0135	0.0104 *
Earth	78898-09-27 06:58 G	30538232.58	30538232.79	30538233.03	0.0135	0.0060
Moon	78898-09-27 09:51 G	30538232.69	30538232.91	30538233.13	0.0135	0.0061 *
Moon	78899-10-01 11:46 G	30538601.74	30538601.99	30538602.25	0.0135	0.0019
Earth	78899-10-01 14:53 G	30538601.87	30538602.12	30538602.37	0.0135	0.0017 *
Earth	78900-10-05 22:20 G	30538971.18	30538971.43	30538971.67	0.0135	0.0026
Moon	78900-10-06 00:44 G	30538971.29	30538971.53	30538971.77	0.0135	0.0031 *
Moon	78901-10-10 02:10 G	30539340.38	30539340.59	30539340.83	0.0134	0.0062
Earth	78901-10-10 05:03 G	30539340.50	30539340.71	30539340.93	0.0134	0.0069 *
Earth	78902-10-14 11:32 G	30539709.85	30539709.98	30539710.13	0.0134	0.0111

Moon	78902-10-14 14:24 G	30539709.98	30539710.10	30539710.22	0.0134	0.0118 *
Venus	78902-11-10 19:41 G	30539737.24	30539737.32	30539737.43	0.0134	0.0119
Venus	78903-06-25 00:58 G	30539963.39	30539963.54	30539963.71	0.0134	0.0087
Venus	78904-02-06 06:15 G	30540189.56	30540189.76	30540189.95	0.0134	0.0056
Venus	78904-09-19 11:03 G	30540415.76	30540415.96	30540416.18	0.0134	0.0024
Venus	78905-05-03 16:05 G	30540641.96	30540642.17	30540642.39	0.0134	0.0008
Venus	78905-12-15 20:53 G	30540868.17	30540868.37	30540868.58	0.0134	0.0040
Venus	78906-07-30 02:10 G	30541094.41	30541094.59	30541094.77	0.0134	0.0071
Venus	78907-03-13 06:44 G	30541320.66	30541320.78	30541320.93	0.0134	0.0103
Mercury	78911-04-20 05:46 G	30542819.67	30542819.74	30542819.81	0.0134	0.0122
Mercury	78911-07-17 11:03 G	30542907.85	30542907.96	30542908.08	0.0134	0.0099
Mercury	78911-10-13 16:34 G	30542996.06	30542996.19	30542996.33	0.0134	0.0076
Mercury	78912-01-09 21:51 G	30543084.26	30543084.41	30543084.57	0.0134	0.0054
Mercury	78912-04-07 03:22 G	30543172.48	30543172.64	30543172.80	0.0134	0.0031
Mercury	78912-07-04 08:39 G	30543260.69	30543260.86	30543261.03	0.0134	0.0009
Mercury	78912-09-30 13:56 G	30543348.91	30543349.08	30543349.25	0.0134	0.0014
Mercury	78912-12-27 19:12 G	30543437.14	30543437.30	30543437.46	0.0134	0.0036
Mercury	78913-03-26 00:15 G	30543525.36	30543525.51	30543525.66	0.0134	0.0058
Mercury	78913-06-22 05:17 G	30543613.60	30543613.72	30543613.86	0.0135	0.0080
Mercury	78913-09-18 10:20 G	30543701.83	30543701.93	30543702.05	0.0135	0.0102
Mercury	78913-12-15 15:36 G	30543790.09	30543790.15	30543790.22	0.0135	0.0123
Moon	78940-03-18 22:05 G	30553380.40	30553380.42	30553380.49	0.0143	0.0141
Moon	78941-03-23 15:22 G	30553749.96	30553750.14	30553750.32	0.0143	0.0102
Earth	78941-03-23 18:44 G	30553750.09	30553750.28	30553750.48	0.0143	0.0094 *
Earth	78942-03-28 18:58 G	30554120.05	30554120.29	30554120.54	0.0143	0.0042
Moon	78942-03-28 22:05 G	30554120.18	30554120.42	30554120.67	0.0143	0.0035 *
Moon	78943-04-02 17:32 G	30554489.97	30554490.23	30554490.50	0.0143	0.0008
Earth	78943-04-02 19:56 G	30554490.08	30554490.33	30554490.59	0.0143	0.0012 *
Earth	78944-04-06 21:22 G	30554860.16	30554860.39	30554860.62	0.0144	0.0065
Moon	78944-04-06 23:17 G	30554860.26	30554860.47	30554860.71	0.0144	0.0066 *

Moon	78945-04-11 22:05 G	30555230.29	30555230.42	30555230.56	0.0144	0.0123
Earth	78945-04-11 23:03 G	30555230.33	30555230.46	30555230.62	0.0144	0.0119 *
Venus	78945-08-14 00:58 G	30555354.43	30555354.54	30555354.67	0.0144	0.0120
Venus	78946-03-28 13:41 G	30555580.89	30555581.07	30555581.26	0.0144	0.0080
Venus	78946-11-10 02:10 G	30555807.39	30555807.59	30555807.81	0.0144	0.0040
Venus	78947-06-24 15:08 G	30556033.91	30556034.13	30556034.35	0.0144	0.0002
Venus	78948-02-06 03:51 G	30556260.45	30556260.66	30556260.87	0.0144	0.0041
Venus	78948-09-19 16:05 G	30556487.00	30556487.17	30556487.37	0.0144	0.0082
Venus	78949-05-04 04:34 G	30556713.59	30556713.69	30556713.82	0.0144	0.0122
Mercury	78952-07-29 05:17 G	30557895.67	30557895.72	30557895.78	0.0144	0.0132
Mercury	78952-10-25 09:36 G	30557983.82	30557983.90	30557984.00	0.0144	0.0109
Mercury	78953-01-21 14:24 G	30558071.98	30558072.10	30558072.21	0.0144	0.0085
Mercury	78953-04-19 18:44 G	30558160.15	30558160.28	30558160.42	0.0144	0.0062
Mercury	78953-07-16 23:32 G	30558248.33	30558248.48	30558248.62	0.0144	0.0038
Mercury	78953-10-13 04:05 G	30558336.52	30558336.67	30558336.81	0.0144	0.0014
Mercury	78954-01-09 08:39 G	30558424.71	30558424.86	30558425.01	0.0144	0.0010
Mercury	78954-04-07 13:12 G	30558512.91	30558513.05	30558513.20	0.0144	0.0035
Mercury	78954-07-04 18:00 G	30558601.12	30558601.25	30558601.39	0.0144	0.0059
Mercury	78954-09-30 22:48 G	30558689.33	30558689.45	30558689.57	0.0144	0.0083
Mercury	78954-12-28 03:22 G	30558777.55	30558777.64	30558777.74	0.0144	0.0108
Mercury	78955-03-26 08:10 G	30558865.79	30558865.84	30558865.90	0.0144	0.0133
Mars	78965-10-06 23:46 G	30562713.24	30562713.49	30562713.73	0.0141	0.0074
Moon	78980-09-20 05:03 G	30568175.71	30568175.71	30568175.76	0.0135	0.0135
Moon	78981-09-24 07:27 G	30568544.66	30568544.81	30568544.99	0.0135	0.0102
Earth	78981-09-24 10:34 G	30568544.78	30568544.94	30568545.13	0.0135	0.0098 *
Earth	78982-09-28 18:44 G	30568914.06	30568914.28	30568914.52	0.0135	0.0055
Moon	78982-09-28 22:20 G	30568914.20	30568914.43	30568914.66	0.0135	0.0052 *
Moon	78983-10-02 23:46 G	30569283.24	30569283.49	30569283.75	0.0135	0.0010
Earth	78983-10-03 02:39 G	30569283.36	30569283.61	30569283.87	0.0135	0.0012 *
Earth	78984-10-06 10:05 G	30569652.67	30569652.92	30569653.16	0.0135	0.0032

Moon	78984-10-06 12:58 G	30569652.81	30569653.04	30569653.29	0.0135	0.0028 *
Moon	78985-10-10 13:41 G	30570021.88	30570022.07	30570022.29	0.0134	0.0081
Earth	78985-10-10 16:48 G	30570022.00	30570022.20	30570022.42	0.0134	0.0075 *
Venus	78986-07-11 06:44 G	30570295.77	30570295.78	30570295.84	0.0134	0.0133
Earth	78986-10-14 23:32 G	30570391.36	30570391.48	30570391.60	0.0134	0.0117
Moon	78986-10-15 01:56 G	30570391.45	30570391.58	30570391.74	0.0134	0.0110 *
Venus	78987-02-22 12:15 G	30570521.87	30570522.01	30570522.15	0.0134	0.0101
Venus	78987-10-06 17:03 G	30570748.04	30570748.21	30570748.41	0.0134	0.0069
Venus	78988-05-19 22:05 G	30570974.22	30570974.42	30570974.63	0.0134	0.0037
Venus	78989-01-01 03:08 G	30571200.42	30571200.63	30571200.85	0.0134	0.0006
Venus	78989-08-15 08:10 G	30571426.63	30571426.84	30571427.05	0.0134	0.0026
Venus	78990-03-29 12:58 G	30571652.85	30571653.04	30571653.24	0.0134	0.0058
Venus	78990-11-10 18:00 G	30571879.09	30571879.25	30571879.41	0.0134	0.0090
Venus	78991-06-24 22:20 G	30572105.36	30572105.43	30572105.54	0.0134	0.0122
Mercury	78995-05-10 12:44 G	30573520.96	30573521.03	30573521.13	0.0134	0.0115
Mercury	78995-08-06 18:15 G	30573609.15	30573609.26	30573609.40	0.0134	0.0092
Mercury	78995-11-02 23:46 G	30573697.35	30573697.49	30573697.64	0.0134	0.0069
Mercury	78996-01-30 05:03 G	30573785.56	30573785.71	30573785.88	0.0134	0.0047
Mercury	78996-04-27 10:34 G	30573873.78	30573873.94	30573874.11	0.0134	0.0024
Mercury	78996-07-24 15:51 G	30573962.00	30573962.16	30573962.33	0.0134	0.0004
Mercury	78996-10-20 21:08 G	30574050.22	30574050.38	30574050.55	0.0134	0.0021
Mercury	78997-01-17 02:24 G	30574138.44	30574138.60	30574138.76	0.0134	0.0043
Mercury	78997-04-15 07:27 G	30574226.67	30574226.81	30574226.96	0.0134	0.0066
Mercury	78997-07-12 12:29 G	30574314.91	30574315.02	30574315.16	0.0134	0.0088
Mercury	78997-10-08 17:46 G	30574403.15	30574403.24	30574403.34	0.0135	0.0109
Mercury	78998-01-04 22:34 G	30574491.42	30574491.44	30574491.49	0.0135	0.0131

80TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 80th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	79009-11-29 17:46	G	30578836.92	30578837.24	30578837.58	0.0138	0.0015	
Earth	79024-03-20 06:15	G	30584061.72	30584061.76	30584061.82	0.0143	0.0140	
Moon	79025-03-25 02:39	G	30584431.40	30584431.61	30584431.83	0.0143	0.0081	
Earth	79025-03-25 06:15	G	30584431.56	30584431.76	30584431.96	0.0143	0.0088	*
Earth	79026-03-30 06:29	G	30584801.53	30584801.77	30584802.03	0.0143	0.0036	
Moon	79026-03-30 09:36	G	30584801.67	30584801.90	30584802.15	0.0143	0.0043	*
Moon	79027-04-04 04:34	G	30585171.43	30585171.69	30585171.95	0.0143	0.0024	
Earth	79027-04-04 07:41	G	30585171.57	30585171.82	30585172.08	0.0143	0.0018	*
Earth	79028-04-08 09:08	G	30585541.66	30585541.88	30585542.11	0.0144	0.0072	
Moon	79028-04-08 11:03	G	30585541.76	30585541.96	30585542.19	0.0144	0.0073	*
Moon	79029-04-13 09:08	G	30585911.75	30585911.88	30585912.03	0.0144	0.0121	
Earth	79029-04-13 10:48	G	30585911.85	30585911.95	30585912.10	0.0144	0.0126	*
Venus	79029-04-14 08:10	G	30585912.78	30585912.84	30585912.91	0.0144	0.0137	
Venus	79029-11-26 20:53	G	30586139.21	30586139.37	30586139.53	0.0144	0.0097	
Venus	79030-07-11 09:22	G	30586365.69	30586365.89	30586366.10	0.0144	0.0057	
Venus	79031-02-22 22:05	G	30586592.21	30586592.42	30586592.65	0.0144	0.0018	
Venus	79031-10-07 10:48	G	30586818.74	30586818.95	30586819.17	0.0144	0.0024	
Venus	79032-05-20 23:17	G	30587045.28	30587045.47	30587045.68	0.0144	0.0065	
Venus	79033-01-02 11:46	G	30587271.85	30587271.99	30587272.15	0.0144	0.0105	
Mercury	79036-08-19 12:58	G	30588596.97	30588597.04	30588597.12	0.0144	0.0123	
Mercury	79036-11-15 17:32	G	30588685.13	30588685.23	30588685.33	0.0144	0.0100	
Mercury	79037-02-11 21:51	G	30588773.30	30588773.41	30588773.54	0.0144	0.0077	

Mercury	79037-05-11 02:24 G	30588861.47	30588861.60	30588861.74	0.0144	0.0053
Mercury	79037-08-07 07:12 G	30588949.65	30588949.80	30588949.94	0.0144	0.0029
Mercury	79037-11-03 11:46 G	30589037.84	30589037.99	30589038.14	0.0144	0.0005
Mercury	79038-01-30 16:20 G	30589126.04	30589126.18	30589126.33	0.0144	0.0019
Mercury	79038-04-28 20:53 G	30589214.24	30589214.37	30589214.52	0.0144	0.0044
Mercury	79038-07-26 01:41 G	30589302.44	30589302.57	30589302.71	0.0144	0.0068
Mercury	79038-10-22 06:15 G	30589390.66	30589390.76	30589390.89	0.0144	0.0093
Mercury	79039-01-18 11:03 G	30589478.89	30589478.96	30589479.06	0.0144	0.0118
Mercury	79039-04-16 16:05 G	30589567.15	30589567.17	30589567.19	0.0144	0.0142
Mars	79050-06-02 22:20 G	30593632.18	30593632.43	30593632.69	0.0140	0.0064
Earth	79064-09-21 14:24 G	30598857.10	30598857.10	30598857.13	0.0135	0.0135
Moon	79065-09-25 19:41 G	30599226.14	30599226.32	30599226.53	0.0135	0.0086
Earth	79065-09-25 23:03 G	30599226.30	30599226.46	30599226.67	0.0135	0.0093 *
Earth	79066-09-30 07:27 G	30599595.58	30599595.81	30599596.05	0.0135	0.0048
Moon	79066-09-30 10:48 G	30599595.72	30599595.95	30599596.18	0.0135	0.0049 *
Moon	79067-10-04 11:46 G	30599964.74	30599964.99	30599965.25	0.0135	0.0005
Earth	79067-10-04 15:22 G	30599964.89	30599965.14	30599965.39	0.0135	0.0005 *
Earth	79068-10-07 22:34 G	30600334.21	30600334.44	30600334.69	0.0135	0.0039
Moon	79068-10-08 01:41 G	30600334.34	30600334.57	30600334.81	0.0135	0.0043 *
Moon	79069-10-12 01:56 G	30600703.38	30600703.58	30600703.81	0.0134	0.0075
Earth	79069-10-12 05:17 G	30600703.54	30600703.72	30600703.94	0.0134	0.0082 *
Earth	79070-10-16 11:46 G	30601072.91	30601072.99	30601073.11	0.0134	0.0124
Moon	79070-10-16 15:22 G	30601073.09	30601073.14	30601073.20	0.0134	0.0131 *
Venus	79070-10-23 23:46 G	30601080.39	30601080.49	30601080.61	0.0134	0.0114
Venus	79071-06-07 04:34 G	30601306.54	30601306.69	30601306.87	0.0134	0.0083
Venus	79072-01-19 09:51 G	30601532.71	30601532.91	30601533.11	0.0134	0.0050
Venus	79072-09-01 14:53 G	30601758.91	30601759.12	30601759.33	0.0134	0.0019
Venus	79073-04-15 19:41 G	30601985.11	30601985.32	30601985.54	0.0134	0.0013
Venus	79073-11-28 00:15 G	30602211.32	30602211.51	30602211.73	0.0134	0.0046
Venus	79074-07-12 05:17 G	30602437.55	30602437.72	30602437.90	0.0134	0.0077

Venus	79075-02-23 09:51 G	30602663.80	30602663.91	30602664.06	0.0134	0.0109
Mercury	79079-03-04 14:53 G	30604134.08	30604134.12	30604134.18	0.0134	0.0129
Mercury	79079-05-31 20:24 G	30604222.26	30604222.35	30604222.46	0.0134	0.0106
Mercury	79079-08-28 01:56 G	30604310.45	30604310.58	30604310.72	0.0134	0.0083
Mercury	79079-11-24 07:12 G	30604398.66	30604398.80	30604398.96	0.0134	0.0061
Mercury	79080-02-20 12:44 G	30604486.87	30604487.03	30604487.20	0.0134	0.0038
Mercury	79080-05-18 18:15 G	30604575.09	30604575.26	30604575.43	0.0134	0.0015
Mercury	79080-08-14 23:32 G	30604663.31	30604663.48	30604663.65	0.0134	0.0008
Mercury	79080-11-11 04:34 G	30604751.54	30604751.69	30604751.86	0.0134	0.0031
Mercury	79081-02-07 09:51 G	30604839.76	30604839.91	30604840.07	0.0134	0.0052
Mercury	79081-05-06 15:08 G	30604927.99	30604928.13	30604928.27	0.0134	0.0074
Mercury	79081-08-02 20:10 G	30605016.23	30605016.34	30605016.46	0.0134	0.0096
Mercury	79081-10-30 01:12 G	30605104.48	30605104.55	30605104.64	0.0135	0.0118
Earth	79108-03-21 18:00 G	30614743.18	30614743.25	30614743.36	0.0143	0.0134
Moon	79108-03-21 21:51 G	30614743.31	30614743.41	30614743.52	0.0143	0.0129 *
Moon	79109-03-26 14:39 G	30615112.92	30615113.11	30615113.31	0.0143	0.0089
Earth	79109-03-26 18:29 G	30615113.06	30615113.27	30615113.48	0.0143	0.0082 *
Earth	79110-03-31 18:58 G	30615483.04	30615483.29	30615483.54	0.0143	0.0029
Moon	79110-03-31 22:20 G	30615483.19	30615483.43	30615483.69	0.0143	0.0022 *
Moon	79111-04-05 16:48 G	30615852.95	30615853.20	30615853.46	0.0144	0.0021
Earth	79111-04-05 19:56 G	30615853.08	30615853.33	30615853.59	0.0144	0.0025 *
Earth	79112-04-09 21:36 G	30616223.19	30616223.40	30616223.62	0.0144	0.0079
Moon	79112-04-10 00:29 G	30616223.32	30616223.52	30616223.74	0.0144	0.0081 *
Moon	79113-04-14 21:08 G	30616593.32	30616593.38	30616593.48	0.0144	0.0137
Earth	79113-04-14 23:32 G	30616593.40	30616593.48	30616593.59	0.0144	0.0133 *
Venus	79113-07-28 03:51 G	30616697.55	30616697.66	30616697.81	0.0144	0.0115
Venus	79114-03-11 17:03 G	30616924.02	30616924.21	30616924.40	0.0144	0.0074
Venus	79114-10-24 05:32 G	30617150.52	30617150.73	30617150.95	0.0144	0.0034
Venus	79115-06-07 18:15 G	30617377.04	30617377.26	30617377.48	0.0144	0.0006
Venus	79116-01-20 06:44 G	30617603.58	30617603.78	30617604.00	0.0144	0.0048

Venus	79116-09-02 19:27 G	30617830.14	30617830.31	30617830.49	0.0144	0.0088
Venus	79117-04-17 07:41 G	30618056.74	30618056.82	30618056.94	0.0144	0.0129
Mercury	79120-06-13 16:20 G	30619210.15	30619210.18	30619210.23	0.0144	0.0137
Mercury	79120-09-09 20:39 G	30619298.28	30619298.36	30619298.46	0.0144	0.0114
Mercury	79120-12-07 01:12 G	30619386.45	30619386.55	30619386.67	0.0144	0.0091
Mercury	79121-03-05 05:46 G	30619474.62	30619474.74	30619474.87	0.0144	0.0067
Mercury	79121-06-01 10:20 G	30619562.79	30619562.93	30619563.07	0.0144	0.0043
Mercury	79121-08-28 14:53 G	30619650.98	30619651.12	30619651.27	0.0144	0.0020
Mercury	79121-11-24 19:41 G	30619739.17	30619739.32	30619739.46	0.0144	0.0005
Mercury	79122-02-21 00:15 G	30619827.37	30619827.51	30619827.66	0.0144	0.0029
Mercury	79122-05-20 04:48 G	30619915.57	30619915.70	30619915.84	0.0144	0.0054
Mercury	79122-08-16 09:36 G	30620003.78	30620003.90	30620004.03	0.0144	0.0078
Mercury	79122-11-12 14:10 G	30620092.00	30620092.09	30620092.21	0.0144	0.0103
Mercury	79123-02-08 18:58 G	30620180.23	30620180.29	30620180.37	0.0144	0.0128
Earth	79148-09-23 03:08 G	30629538.58	30629538.63	30629538.72	0.0135	0.0130
Moon	79148-09-23 06:44 G	30629538.69	30629538.78	30629538.90	0.0135	0.0122 *
Moon	79149-09-27 08:10 G	30629907.67	30629907.84	30629908.05	0.0135	0.0091
Earth	79149-09-27 12:15 G	30629907.82	30629908.01	30629908.21	0.0135	0.0085 *
Earth	79150-10-01 20:10 G	30630277.11	30630277.34	30630277.59	0.0135	0.0042
Moon	79150-10-01 23:46 G	30630277.26	30630277.49	30630277.74	0.0135	0.0039 *
Moon	79151-10-06 00:58 G	30630646.28	30630646.54	30630646.79	0.0135	0.0003
Earth	79151-10-06 04:20 G	30630646.43	30630646.68	30630646.93	0.0135	0.0002 *
Earth	79152-10-09 11:03 G	30631015.74	30631015.96	30631016.21	0.0134	0.0046
Moon	79152-10-09 15:08 G	30631015.89	30631016.13	30631016.37	0.0134	0.0041 *
Moon	79153-10-13 14:39 G	30631384.95	30631385.11	30631385.31	0.0134	0.0094
Earth	79153-10-13 18:15 G	30631385.08	30631385.26	30631385.46	0.0134	0.0088 *
Venus	79154-06-24 11:17 G	30631638.91	30631638.97	30631639.05	0.0134	0.0127
Earth	79154-10-18 00:15 G	30631754.48	30631754.51	30631754.60	0.0134	0.0131
Moon	79154-10-18 03:51 G	30631754.58	30631754.66	30631754.78	0.0134	0.0123 *
Venus	79155-02-05 16:05 G	30631865.04	30631865.17	30631865.34	0.0134	0.0096

Venus	79155-09-19 21:22 G	30632091.21	30632091.39	30632091.59	0.0134	0.0063
Venus	79156-05-03 02:10 G	30632317.39	30632317.59	30632317.81	0.0134	0.0032
Venus	79156-12-15 07:12 G	30632543.58	30632543.80	30632544.01	0.0134	0.0001
Venus	79157-07-29 12:00 G	30632769.80	30632770.00	30632770.21	0.0134	0.0032
Venus	79158-03-12 16:48 G	30632996.02	30632996.20	30632996.39	0.0134	0.0063
Venus	79158-10-24 21:22 G	30633222.25	30633222.39	30633222.55	0.0134	0.0095
Venus	79159-06-08 01:56 G	30633448.53	30633448.58	30633448.67	0.0134	0.0126
Mercury	79163-03-25 22:20 G	30634835.37	30634835.43	30634835.52	0.0134	0.0120
Mercury	79163-06-22 03:51 G	30634923.55	30634923.66	30634923.79	0.0134	0.0097
Mercury	79163-09-18 09:22 G	30635011.76	30635011.89	30635012.04	0.0134	0.0074
Mercury	79163-12-15 14:53 G	30635099.97	30635100.12	30635100.28	0.0134	0.0052
Mercury	79164-03-12 20:10 G	30635188.18	30635188.34	30635188.51	0.0134	0.0029
Mercury	79164-06-09 01:41 G	30635276.40	30635276.57	30635276.74	0.0134	0.0007
Mercury	79164-09-05 06:58 G	30635364.62	30635364.79	30635364.96	0.0134	0.0016
Mercury	79164-12-02 12:00 G	30635452.85	30635453.00	30635453.17	0.0134	0.0039
Mercury	79165-02-28 17:17 G	30635541.08	30635541.22	30635541.37	0.0134	0.0060
Mercury	79165-05-27 22:20 G	30635629.31	30635629.43	30635629.57	0.0134	0.0082
Mercury	79165-08-24 03:36 G	30635717.55	30635717.65	30635717.76	0.0134	0.0104
Mercury	79165-11-20 08:24 G	30635805.81	30635805.85	30635805.92	0.0134	0.0126
Mars	79177-04-17 12:58 G	30639971.84	30639972.04	30639972.29	0.0137	0.0102
Earth	79192-03-22 03:22 G	30645424.55	30645424.64	30645424.77	0.0143	0.0129
Moon	79192-03-22 07:27 G	30645424.73	30645424.81	30645424.91	0.0143	0.0133 *
Moon	79193-03-27 00:15 G	30645794.30	30645794.51	30645794.74	0.0143	0.0070
Earth	79193-03-27 03:51 G	30645794.45	30645794.66	30645794.88	0.0143	0.0076 *
Earth	79194-04-01 04:20 G	30646164.43	30646164.68	30646164.94	0.0143	0.0023
Moon	79194-04-01 07:56 G	30646164.59	30646164.83	30646165.08	0.0143	0.0031 *
Moon	79195-04-06 01:56 G	30646534.33	30646534.58	30646534.83	0.0144	0.0037
Earth	79195-04-06 05:32 G	30646534.49	30646534.73	30646534.99	0.0144	0.0031 *
Earth	79196-04-10 07:12 G	30646904.59	30646904.80	30646905.01	0.0144	0.0085
Moon	79196-04-10 09:51 G	30646904.72	30646904.91	30646905.13	0.0144	0.0085 *

Venus	79197-03-27 09:36 G	30647255.83	30647255.90	30647255.99	0.0144	0.0133
Moon	79197-04-15 06:00 G	30647274.68	30647274.75	30647274.85	0.0144	0.0136
Earth	79197-04-15 09:08 G	30647274.83	30647274.88	30647274.96	0.0144	0.0139 *
Venus	79197-11-08 22:20 G	30647482.27	30647482.43	30647482.61	0.0144	0.0093
Venus	79198-06-23 11:03 G	30647708.76	30647708.96	30647709.17	0.0144	0.0053
Venus	79199-02-05 00:00 G	30647935.28	30647935.50	30647935.72	0.0144	0.0012
Venus	79199-09-19 12:44 G	30648161.81	30648162.03	30648162.25	0.0144	0.0028
Venus	79200-05-03 00:58 G	30648388.36	30648388.54	30648388.75	0.0144	0.0070
Venus	79200-12-15 13:41 G	30648614.94	30648615.07	30648615.23	0.0144	0.0110
Mercury	79204-07-04 00:00 G	30649911.44	30649911.50	30649911.56	0.0144	0.0130
Mercury	79204-09-30 04:20 G	30649999.59	30649999.68	30649999.78	0.0144	0.0106
Mercury	79204-12-27 08:39 G	30650087.75	30650087.86	30650087.99	0.0144	0.0083
Mercury	79205-03-25 13:12 G	30650175.93	30650176.05	30650176.19	0.0144	0.0059
Mercury	79205-06-21 18:00 G	30650264.11	30650264.25	30650264.39	0.0144	0.0035
Mercury	79205-09-17 22:34 G	30650352.29	30650352.44	30650352.59	0.0144	0.0011
Mercury	79205-12-15 03:08 G	30650440.49	30650440.63	30650440.78	0.0144	0.0013
Mercury	79206-03-13 07:41 G	30650528.68	30650528.82	30650528.97	0.0144	0.0038
Mercury	79206-06-09 12:29 G	30650616.89	30650617.02	30650617.16	0.0144	0.0062
Mercury	79206-09-05 17:03 G	30650705.10	30650705.21	30650705.34	0.0144	0.0087
Mercury	79206-12-02 22:05 G	30650793.32	30650793.42	30650793.51	0.0144	0.0111
Mercury	79207-03-01 02:53 G	30650881.57	30650881.62	30650881.66	0.0144	0.0136
Mars	79217-10-22 00:58 G	30654769.25	30654769.54	30654769.83	0.0141	0.0007
Earth	79232-09-23 16:48 G	30660220.11	30660220.20	30660220.32	0.0135	0.0123
Moon	79232-09-23 20:10 G	30660220.30	30660220.34	30660220.43	0.0135	0.0131 *
Moon	79233-09-27 21:51 G	30660589.22	30660589.41	30660589.64	0.0135	0.0073
Earth	79233-09-28 01:27 G	30660589.37	30660589.56	30660589.78	0.0135	0.0079 *
Earth	79234-10-02 09:51 G	30660958.67	30660958.91	30660959.16	0.0135	0.0035
Moon	79234-10-02 13:27 G	30660958.82	30660959.06	30660959.30	0.0135	0.0037 *
Moon	79235-10-06 13:56 G	30661327.83	30661328.08	30661328.34	0.0135	0.0010
Earth	79235-10-06 17:46 G	30661327.99	30661328.24	30661328.49	0.0135	0.0009 *

Earth	79236-10-10 00:58 G	30661697.31	30661697.54	30661697.77	0.0134	0.0052
Moon	79236-10-10 04:20 G	30661697.46	30661697.68	30661697.91	0.0134	0.0056 *
Moon	79237-10-14 03:51 G	30662066.48	30662066.66	30662066.86	0.0134	0.0089
Earth	79237-10-14 07:12 G	30662066.65	30662066.80	30662067.00	0.0134	0.0096 *
Venus	79238-10-06 04:34 G	30662423.56	30662423.69	30662423.82	0.0134	0.0108
Venus	79239-05-20 09:08 G	30662649.72	30662649.88	30662650.07	0.0134	0.0076
Venus	79240-01-01 13:56 G	30662875.89	30662876.08	30662876.30	0.0134	0.0045
Venus	79240-08-14 19:12 G	30663102.09	30663102.30	30663102.51	0.0134	0.0013
Venus	79241-03-28 23:46 G	30663328.29	30663328.49	30663328.71	0.0134	0.0019
Venus	79241-11-10 04:34 G	30663554.50	30663554.69	30663554.90	0.0134	0.0050
Venus	79242-06-24 09:08 G	30663780.72	30663780.88	30663781.06	0.0134	0.0082
Venus	79243-02-05 13:56 G	30664006.98	30664007.08	30664007.21	0.0134	0.0113
Mercury	79247-01-17 00:44 G	30665448.52	30665448.53	30665448.54	0.0134	0.0133
Mercury	79247-04-15 06:15 G	30665536.67	30665536.76	30665536.86	0.0134	0.0110
Mercury	79247-07-12 11:32 G	30665624.86	30665624.98	30665625.12	0.0134	0.0088
Mercury	79247-10-08 17:03 G	30665713.07	30665713.21	30665713.37	0.0134	0.0065
Mercury	79248-01-04 22:34 G	30665801.28	30665801.44	30665801.60	0.0134	0.0042
Mercury	79248-04-02 03:51 G	30665889.50	30665889.66	30665889.83	0.0134	0.0020
Mercury	79248-06-29 09:22 G	30665977.72	30665977.89	30665978.06	0.0134	0.0003
Mercury	79248-09-25 14:39 G	30666065.94	30666066.11	30666066.27	0.0134	0.0025
Mercury	79248-12-22 19:41 G	30666154.17	30666154.32	30666154.48	0.0134	0.0047
Mercury	79249-03-21 00:58 G	30666242.40	30666242.54	30666242.69	0.0134	0.0069
Mercury	79249-06-17 06:00 G	30666330.64	30666330.75	30666330.88	0.0134	0.0091
Mercury	79249-09-13 11:17 G	30666418.89	30666418.97	30666419.06	0.0134	0.0113
Mercury	79249-12-10 16:20 G	30666507.18	30666507.18	30666507.19	0.0134	0.0134
Mars	79261-12-12 09:36 G	30670891.59	30670891.90	30670892.21	0.0138	0.0049
Earth	79276-03-22 13:56 G	30676105.97	30676106.08	30676106.22	0.0143	0.0123
Moon	79276-03-22 17:03 G	30676106.09	30676106.21	30676106.37	0.0143	0.0120 *
Moon	79277-03-27 10:20 G	30676475.73	30676475.93	30676476.16	0.0143	0.0078
Earth	79277-03-27 14:10 G	30676475.87	30676476.09	30676476.32	0.0143	0.0070 *

Earth	79278-04-01 14:39 G	30676845.86	30676846.11	30676846.37	0.0143	0.0017
Moon	79278-04-01 18:15 G	30676846.01	30676846.26	30676846.52	0.0143	0.0009 *
Moon	79279-04-06 12:00 G	30677215.76	30677216.00	30677216.26	0.0144	0.0032
Earth	79279-04-06 15:36 G	30677215.91	30677216.15	30677216.41	0.0144	0.0037 *
Earth	79280-04-10 16:48 G	30677586.03	30677586.20	30677586.42	0.0144	0.0092
Moon	79280-04-10 20:53 G	30677586.19	30677586.37	30677586.57	0.0144	0.0094 *
Venus	79281-07-09 04:05 G	30678040.55	30678040.67	30678040.82	0.0144	0.0112
Venus	79282-02-20 16:48 G	30678267.02	30678267.20	30678267.41	0.0144	0.0072
Venus	79282-10-05 05:46 G	30678493.53	30678493.74	30678493.96	0.0144	0.0031
Venus	79283-05-19 18:29 G	30678720.05	30678720.27	30678720.49	0.0144	0.0009
Venus	79284-01-01 06:58 G	30678946.59	30678946.79	30678947.00	0.0144	0.0050
Venus	79284-08-14 19:41 G	30679173.16	30679173.32	30679173.50	0.0144	0.0091
Venus	79285-03-29 08:39 G	30679399.77	30679399.86	30679399.95	0.0144	0.0131
Mercury	79288-07-24 07:12 G	30680612.73	30680612.80	30680612.88	0.0144	0.0122
Mercury	79288-10-20 11:32 G	30680700.89	30680700.98	30680701.09	0.0144	0.0099
Mercury	79289-01-16 16:05 G	30680789.05	30680789.17	30680789.30	0.0144	0.0075
Mercury	79289-04-14 20:53 G	30680877.23	30680877.37	30680877.50	0.0144	0.0051
Mercury	79289-07-12 01:12 G	30680965.41	30680965.55	30680965.70	0.0144	0.0028
Mercury	79289-10-08 06:00 G	30681053.60	30681053.75	30681053.90	0.0144	0.0004
Mercury	79290-01-04 10:34 G	30681141.80	30681141.94	30681142.09	0.0144	0.0021
Mercury	79290-04-02 15:08 G	30681230.00	30681230.13	30681230.28	0.0144	0.0046
Mercury	79290-06-29 19:56 G	30681318.20	30681318.33	30681318.46	0.0144	0.0070
Mercury	79290-09-26 00:29 G	30681406.42	30681406.52	30681406.64	0.0144	0.0095
Mercury	79290-12-23 05:32 G	30681494.65	30681494.73	30681494.81	0.0144	0.0119
Mars	79302-06-17 20:39 G	30685688.27	30685688.36	30685688.49	0.0140	0.0130
Earth	79316-09-25 06:00 G	30690901.64	30690901.75	30690901.89	0.0135	0.0117
Moon	79316-09-25 09:22 G	30690901.75	30690901.89	30690902.05	0.0135	0.0110 *
Moon	79317-09-29 11:17 G	30691270.77	30691270.97	30691271.18	0.0135	0.0078
Earth	79317-09-29 14:53 G	30691270.92	30691271.12	30691271.34	0.0135	0.0073 *
Earth	79318-10-03 23:03 G	30691640.22	30691640.46	30691640.72	0.0135	0.0029

Moon	79318-10-04 02:39 G	30691640.37	30691640.61	30691640.87	0.0135	0.0025	*
Moon	79319-10-08 03:36 G	30692009.40	30692009.65	30692009.90	0.0135	0.0016	
Earth	79319-10-08 06:58 G	30692009.55	30692009.79	30692010.05	0.0135	0.0016	*
Earth	79320-10-11 13:56 G	30692378.86	30692379.08	30692379.31	0.0134	0.0059	
Moon	79320-10-11 17:32 G	30692379.01	30692379.23	30692379.47	0.0134	0.0056	*
Moon	79321-10-15 17:17 G	30692748.08	30692748.22	30692748.38	0.0134	0.0107	
Earth	79321-10-15 20:39 G	30692748.21	30692748.36	30692748.54	0.0134	0.0102	*
Venus	79322-06-06 16:05 G	30692982.09	30692982.17	30692982.28	0.0134	0.0121	
Venus	79323-01-18 21:08 G	30693208.23	30693208.38	30693208.55	0.0134	0.0089	
Venus	79323-09-02 02:10 G	30693434.40	30693434.59	30693434.79	0.0134	0.0057	
Venus	79324-04-15 06:58 G	30693660.59	30693660.79	30693661.01	0.0134	0.0026	
Venus	79324-11-27 11:46 G	30693886.78	30693886.99	30693887.21	0.0134	0.0006	
Venus	79325-07-11 16:34 G	30694112.99	30694113.19	30694113.40	0.0134	0.0038	
Venus	79326-02-22 21:08 G	30694339.21	30694339.38	30694339.58	0.0134	0.0069	
Venus	79326-10-07 02:10 G	30694565.45	30694565.59	30694565.73	0.0134	0.0100	
Venus	79327-05-21 06:29 G	30694791.75	30694791.77	30694791.83	0.0134	0.0132	
Mercury	79331-02-07 08:10 G	30696149.79	30696149.84	30696149.92	0.0134	0.0124	
Mercury	79331-05-06 13:56 G	30696237.97	30696238.08	30696238.20	0.0134	0.0101	
Mercury	79331-08-02 19:27 G	30696326.18	30696326.31	30696326.45	0.0134	0.0078	
Mercury	79331-10-30 00:58 G	30696414.39	30696414.54	30696414.69	0.0134	0.0055	
Mercury	79332-01-26 06:15 G	30696502.60	30696502.76	30696502.93	0.0134	0.0033	
Mercury	79332-04-23 11:46 G	30696590.82	30696590.99	30696591.16	0.0134	0.0011	
Mercury	79332-07-20 17:03 G	30696679.04	30696679.21	30696679.38	0.0134	0.0012	
Mercury	79332-10-16 22:20 G	30696767.27	30696767.43	30696767.59	0.0134	0.0034	
Mercury	79333-01-13 03:22 G	30696855.50	30696855.64	30696855.80	0.0134	0.0057	
Mercury	79333-04-11 08:39 G	30696943.73	30696943.86	30696944.00	0.0134	0.0078	
Mercury	79333-07-08 13:41 G	30697031.97	30697032.07	30697032.19	0.0134	0.0100	
Mercury	79333-10-04 18:58 G	30697120.23	30697120.29	30697120.36	0.0134	0.0121	
Earth	79360-03-23 23:03 G	30706787.32	30706787.46	30706787.61	0.0143	0.0118	
Moon	79360-03-24 02:10 G	30706787.46	30706787.59	30706787.73	0.0143	0.0121	*

Moon	79361-03-28 19:56 G	30707157.11	30707157.33	30707157.56	0.0143	0.0060
Earth	79361-03-28 23:03 G	30707157.23	30707157.46	30707157.69	0.0143	0.0066 *
Earth	79362-04-02 23:17 G	30707527.21	30707527.47	30707527.72	0.0143	0.0012
Moon	79362-04-03 02:39 G	30707527.37	30707527.61	30707527.88	0.0143	0.0021 *
Moon	79363-04-07 20:39 G	30707897.12	30707897.36	30707897.60	0.0144	0.0050
Earth	79363-04-08 00:00 G	30707897.27	30707897.50	30707897.76	0.0144	0.0043 *
Earth	79364-04-12 01:27 G	30708267.39	30708267.56	30708267.76	0.0144	0.0097
Moon	79364-04-12 04:48 G	30708267.53	30708267.70	30708267.91	0.0144	0.0095 *
Venus	79365-03-09 09:08 G	30708598.80	30708598.88	30708598.98	0.0144	0.0131
Venus	79365-10-21 21:36 G	30708825.25	30708825.40	30708825.59	0.0144	0.0091
Venus	79366-06-05 10:20 G	30709051.74	30709051.93	30709052.15	0.0144	0.0051
Venus	79367-01-17 23:17 G	30709278.25	30709278.47	30709278.69	0.0144	0.0010
Venus	79367-09-01 12:00 G	30709504.79	30709505.00	30709505.22	0.0144	0.0031
Venus	79368-04-15 00:29 G	30709731.34	30709731.52	30709731.73	0.0144	0.0072
Venus	79368-11-27 13:27 G	30709957.93	30709958.06	30709958.21	0.0144	0.0111
Mercury	79372-05-18 09:51 G	30711225.88	30711225.91	30711225.95	0.0144	0.0139
Mercury	79372-08-14 14:10 G	30711314.02	30711314.09	30711314.19	0.0144	0.0116
Mercury	79372-11-10 18:44 G	30711402.18	30711402.28	30711402.40	0.0144	0.0093
Mercury	79373-02-06 23:17 G	30711490.35	30711490.47	30711490.60	0.0144	0.0069
Mercury	79373-05-06 03:51 G	30711578.53	30711578.66	30711578.80	0.0144	0.0045
Mercury	79373-08-02 08:24 G	30711666.71	30711666.85	30711667.00	0.0144	0.0022
Mercury	79373-10-29 13:12 G	30711754.90	30711755.05	30711755.19	0.0144	0.0004
Mercury	79374-01-25 17:46 G	30711843.10	30711843.24	30711843.38	0.0144	0.0028
Mercury	79374-04-23 22:20 G	30711931.30	30711931.43	30711931.57	0.0144	0.0052
Mercury	79374-07-21 02:53 G	30712019.51	30712019.62	30712019.76	0.0144	0.0077
Mercury	79374-10-17 07:56 G	30712107.72	30712107.83	30712107.93	0.0144	0.0101
Mercury	79375-01-13 12:29 G	30712195.96	30712196.02	30712196.10	0.0144	0.0126
Mars	79385-03-11 21:08 G	30715906.16	30715906.38	30715906.63	0.0141	0.0083
Earth	79400-09-26 19:12 G	30721583.17	30721583.30	30721583.46	0.0135	0.0110
Moon	79400-09-26 22:48 G	30721583.34	30721583.45	30721583.59	0.0135	0.0118 *

Moon	79401-10-01 01:12 G	30721952.33	30721952.55	30721952.78	0.0135	0.0059
Earth	79401-10-01 04:20 G	30721952.47	30721952.68	30721952.91	0.0135	0.0066 *
Earth	79402-10-05 12:44 G	30722321.78	30722322.03	30722322.28	0.0135	0.0022
Moon	79402-10-05 16:20 G	30722321.93	30722322.18	30722322.43	0.0135	0.0024 *
Moon	79403-10-09 16:48 G	30722690.96	30722691.20	30722691.45	0.0135	0.0024
Earth	79403-10-09 20:24 G	30722691.11	30722691.35	30722691.60	0.0135	0.0022 *
Earth	79404-10-13 03:22 G	30723060.43	30723060.64	30723060.87	0.0135	0.0066
Moon	79404-10-13 06:44 G	30723060.57	30723060.78	30723061.01	0.0135	0.0069 *
Moon	79405-10-17 06:29 G	30723429.62	30723429.77	30723429.94	0.0134	0.0103
Earth	79405-10-17 10:05 G	30723429.79	30723429.92	30723430.08	0.0134	0.0109 *
Venus	79406-02-05 04:34 G	30723540.66	30723540.69	30723540.73	0.0134	0.0133
Venus	79406-09-19 09:22 G	30723766.76	30723766.89	30723767.04	0.0134	0.0101
Venus	79407-05-03 14:24 G	30723992.92	30723993.10	30723993.29	0.0134	0.0070
Venus	79407-12-15 19:12 G	30724219.10	30724219.30	30724219.51	0.0134	0.0038
Venus	79408-07-29 00:15 G	30724445.29	30724445.51	30724445.72	0.0134	0.0007
Venus	79409-03-12 04:48 G	30724671.50	30724671.70	30724671.92	0.0134	0.0025
Venus	79409-10-24 09:22 G	30724897.71	30724897.89	30724898.10	0.0134	0.0057
Venus	79410-06-07 14:10 G	30725123.94	30725124.09	30725124.26	0.0134	0.0088
Venus	79411-01-19 18:58 G	30725350.20	30725350.29	30725350.40	0.0134	0.0119
Mercury	79415-02-28 16:34 G	30726851.10	30726851.19	30726851.28	0.0134	0.0113
Mercury	79415-05-27 22:05 G	30726939.29	30726939.42	30726939.54	0.0134	0.0090
Mercury	79415-08-24 03:22 G	30727027.50	30727027.64	30727027.79	0.0134	0.0068
Mercury	79415-11-20 08:53 G	30727115.71	30727115.87	30727116.03	0.0134	0.0045
Mercury	79416-02-16 14:24 G	30727203.93	30727204.10	30727204.27	0.0134	0.0022
Mercury	79416-05-14 19:41 G	30727292.15	30727292.32	30727292.49	0.0134	0.0001
Mercury	79416-08-11 00:58 G	30727380.38	30727380.54	30727380.71	0.0134	0.0022
Mercury	79416-11-07 06:15 G	30727468.60	30727468.76	30727468.92	0.0134	0.0044
Mercury	79417-02-03 11:32 G	30727556.84	30727556.98	30727557.12	0.0134	0.0066
Mercury	79417-05-02 16:34 G	30727645.07	30727645.19	30727645.32	0.0134	0.0088
Mercury	79417-07-29 21:36 G	30727733.32	30727733.40	30727733.50	0.0134	0.0110

Mercury	79417-10-26 02:53 G	30727821.59	30727821.62	30727821.65	0.0134	0.0131
Mars	79429-05-01 12:29 G	30732026.71	30732027.02	30732027.36	0.0137	0.0030
Earth	79444-03-25 11:32 G	30737468.84	30737468.98	30737469.16	0.0143	0.0112
Moon	79444-03-25 13:56 G	30737468.93	30737469.08	30737469.27	0.0143	0.0110 *
Moon	79445-03-30 08:10 G	30737838.63	30737838.84	30737839.07	0.0143	0.0066
Earth	79445-03-30 11:17 G	30737838.75	30737838.97	30737839.22	0.0143	0.0059 *
Earth	79446-04-04 11:46 G	30738208.73	30738208.99	30738209.25	0.0143	0.0005
Moon	79446-04-04 14:53 G	30738208.86	30738209.12	30738209.38	0.0143	0.0003 *
Moon	79447-04-09 08:53 G	30738578.63	30738578.87	30738579.12	0.0144	0.0043
Earth	79447-04-09 12:15 G	30738578.78	30738579.01	30738579.27	0.0144	0.0050 *
Earth	79448-04-13 13:27 G	30738948.90	30738949.06	30738949.26	0.0144	0.0104
Moon	79448-04-13 17:17 G	30738949.07	30738949.22	30738949.41	0.0144	0.0108 *
Venus	79449-06-22 04:48 G	30739383.56	30739383.70	30739383.85	0.0144	0.0108
Venus	79450-02-03 17:32 G	30739610.04	30739610.23	30739610.43	0.0144	0.0068
Venus	79450-09-18 06:15 G	30739836.55	30739836.76	30739836.98	0.0144	0.0028
Venus	79451-05-02 18:58 G	30740063.07	30740063.29	30740063.51	0.0144	0.0013
Venus	79451-12-15 07:41 G	30740289.62	30740289.82	30740290.03	0.0144	0.0053
Venus	79452-07-28 20:39 G	30740516.19	30740516.36	30740516.52	0.0144	0.0094
Venus	79453-03-12 09:08 G	30740742.82	30740742.88	30740742.98	0.0144	0.0134
Mercury	79456-06-08 17:32 G	30741927.18	30741927.23	30741927.29	0.0144	0.0130
Mercury	79456-09-04 21:51 G	30742015.33	30742015.41	30742015.52	0.0144	0.0108
Mercury	79456-12-02 02:39 G	30742103.49	30742103.61	30742103.72	0.0144	0.0084
Mercury	79457-02-28 06:58 G	30742191.66	30742191.79	30742191.93	0.0144	0.0060
Mercury	79457-05-27 11:32 G	30742279.84	30742279.98	30742280.12	0.0144	0.0036
Mercury	79457-08-23 16:05 G	30742368.03	30742368.17	30742368.32	0.0144	0.0013
Mercury	79457-11-19 20:53 G	30742456.22	30742456.37	30742456.51	0.0144	0.0013
Mercury	79458-02-16 01:27 G	30742544.42	30742544.56	30742544.70	0.0144	0.0036
Mercury	79458-05-15 06:00 G	30742632.62	30742632.75	30742632.89	0.0144	0.0061
Mercury	79458-08-11 10:34 G	30742720.83	30742720.94	30742721.07	0.0144	0.0086
Mercury	79458-11-07 15:36 G	30742809.05	30742809.15	30742809.24	0.0144	0.0110

Mercury	79459-02-03 20:10 G	30742897.30	30742897.34	30742897.40	0.0144	0.0135
Mars	79469-11-05 18:29 G	30746825.02	30746825.27	30746825.55	0.0141	0.0055
Earth	79484-09-27 08:24 G	30752264.71	30752264.85	30752265.03	0.0135	0.0105
Moon	79484-09-27 11:46 G	30752264.82	30752264.99	30752265.18	0.0135	0.0097 *
Moon	79485-10-01 14:39 G	30752633.89	30752634.11	30752634.33	0.0135	0.0066
Earth	79485-10-01 17:46 G	30752634.02	30752634.24	30752634.48	0.0135	0.0060 *
Earth	79486-10-06 02:10 G	30753003.34	30753003.59	30753003.84	0.0135	0.0015
Moon	79486-10-06 05:17 G	30753003.47	30753003.72	30753003.98	0.0135	0.0011 *
Moon	79487-10-10 06:29 G	30753372.53	30753372.77	30753373.02	0.0135	0.0029
Earth	79487-10-10 09:51 G	30753372.67	30753372.91	30753373.16	0.0135	0.0029 *
Earth	79488-10-13 16:34 G	30753741.99	30753742.19	30753742.42	0.0135	0.0073
Moon	79488-10-13 20:10 G	30753742.14	30753742.34	30753742.57	0.0135	0.0070 *
Moon	79489-10-17 20:24 G	30754111.25	30754111.35	30754111.47	0.0134	0.0120
Earth	79489-10-17 23:17 G	30754111.36	30754111.47	30754111.62	0.0134	0.0116 *
Venus	79490-05-19 21:22 G	30754325.29	30754325.39	30754325.52	0.0134	0.0114
Venus	79491-01-01 02:10 G	30754551.44	30754551.59	30754551.78	0.0134	0.0083
Venus	79491-08-15 07:27 G	30754777.62	30754777.81	30754778.01	0.0134	0.0051
Venus	79492-03-28 12:15 G	30755003.80	30755004.01	30755004.23	0.0134	0.0019
Venus	79492-11-09 17:03 G	30755230.00	30755230.21	30755230.43	0.0134	0.0013
Venus	79493-06-23 21:51 G	30755456.21	30755456.41	30755456.62	0.0134	0.0044
Venus	79494-02-05 02:24 G	30755682.44	30755682.60	30755682.79	0.0134	0.0076
Venus	79494-09-19 07:27 G	30755908.69	30755908.81	30755908.95	0.0134	0.0107
Mercury	79498-12-22 18:58 G	30757464.24	30757464.29	30757464.35	0.0134	0.0126
Mercury	79499-03-21 00:29 G	30757552.42	30757552.52	30757552.63	0.0134	0.0103
Mercury	79499-06-17 06:00 G	30757640.62	30757640.75	30757640.89	0.0134	0.0080
Mercury	79499-09-13 11:32 G	30757728.83	30757728.98	30757729.13	0.0134	0.0057
Mercury	79499-12-10 16:48 G	30757817.04	30757817.20	30757817.37	0.0134	0.0035
Mercury	79500-03-08 22:20 G	30757905.26	30757905.43	30757905.60	0.0134	0.0012
Mercury	79500-06-05 03:36 G	30757993.48	30757993.65	30757993.82	0.0134	0.0010
Mercury	79500-09-01 08:53 G	30758081.71	30758081.87	30758082.04	0.0134	0.0032

Mercury	79500-11-28 14:10 G	30758169.94	30758170.09	30758170.24	0.0134	0.0054
Mercury	79501-02-24 19:12 G	30758258.17	30758258.30	30758258.45	0.0134	0.0077
Mercury	79501-05-24 00:15 G	30758346.41	30758346.51	30758346.64	0.0134	0.0099
Mercury	79501-08-20 05:46 G	30758434.67	30758434.74	30758434.81	0.0134	0.0120
Mars	79513-12-27 11:32 G	30762946.83	30762946.98	30762947.13	0.0137	0.0122
Earth	79528-03-27 00:15 G	30768150.35	30768150.51	30768150.69	0.0143	0.0105
Moon	79528-03-27 02:24 G	30768150.44	30768150.60	30768150.79	0.0143	0.0107 *
Moon	79529-03-31 21:36 G	30768520.17	30768520.40	30768520.64	0.0143	0.0047
Earth	79529-03-31 23:46 G	30768520.26	30768520.49	30768520.74	0.0143	0.0052 *
Earth	79530-04-05 23:46 G	30768890.24	30768890.49	30768890.75	0.0143	0.0004
Moon	79530-04-06 03:08 G	30768890.37	30768890.63	30768890.89	0.0143	0.0006 *
Moon	79531-04-10 21:22 G	30769260.17	30769260.39	30769260.62	0.0144	0.0064
Earth	79531-04-11 00:44 G	30769260.30	30769260.53	30769260.77	0.0144	0.0056 *
Earth	79532-04-15 01:56 G	30769630.42	30769630.58	30769630.75	0.0144	0.0110
Moon	79532-04-15 05:32 G	30769630.56	30769630.73	30769630.90	0.0144	0.0107 *
Venus	79533-02-20 12:00 G	30769941.90	30769942.00	30769942.11	0.0144	0.0125
Venus	79533-10-05 00:44 G	30770168.35	30770168.53	30770168.71	0.0144	0.0085
Venus	79534-05-19 13:12 G	30770394.85	30770395.05	30770395.27	0.0144	0.0045
Venus	79535-01-01 02:10 G	30770621.37	30770621.59	30770621.81	0.0144	0.0005
Venus	79535-08-15 14:39 G	30770847.90	30770848.11	30770848.33	0.0144	0.0036
Venus	79536-03-29 03:36 G	30771074.47	30771074.65	30771074.84	0.0144	0.0076
Venus	79536-11-10 16:20 G	30771301.06	30771301.18	30771301.32	0.0144	0.0117
Jupiter	79538-08-04 22:05 G	30771933.09	30771933.42	30771933.81	0.0144	0.0106
Mercury	79540-06-30 00:58 G	30772628.48	30772628.54	30772628.63	0.0144	0.0123
Mercury	79540-09-26 05:46 G	30772716.64	30772716.74	30772716.84	0.0144	0.0098
Mercury	79540-12-23 10:05 G	30772804.80	30772804.92	30772805.05	0.0144	0.0075
Mercury	79541-03-21 14:39 G	30772892.98	30772893.11	30772893.25	0.0144	0.0051
Mercury	79541-06-17 19:12 G	30772981.16	30772981.30	30772981.45	0.0144	0.0027
Mercury	79541-09-13 23:46 G	30773069.35	30773069.49	30773069.64	0.0144	0.0004
Mercury	79541-12-11 04:20 G	30773157.54	30773157.68	30773157.83	0.0144	0.0022

Mercury	79542-03-09 09:08 G	30773245.74	30773245.88	30773246.02	0.0144	0.0045
Mercury	79542-06-05 13:41 G	30773333.95	30773334.07	30773334.20	0.0144	0.0070
Mercury	79542-09-01 18:29 G	30773422.16	30773422.27	30773422.38	0.0144	0.0094
Mercury	79542-11-28 23:03 G	30773510.39	30773510.46	30773510.55	0.0144	0.0119
Earth	79568-09-28 22:34 G	30782946.29	30782946.44	30782946.64	0.0136	0.0098
Moon	79568-09-29 01:56 G	30782946.43	30782946.58	30782946.75	0.0136	0.0105 *
Moon	79569-10-03 05:03 G	30783315.49	30783315.71	30783315.96	0.0135	0.0046
Earth	79569-10-03 07:56 G	30783315.60	30783315.83	30783316.07	0.0135	0.0053 *
Earth	79570-10-07 16:05 G	30783684.92	30783685.17	30783685.43	0.0135	0.0008
Moon	79570-10-07 19:27 G	30783685.05	30783685.31	30783685.56	0.0135	0.0011 *
Moon	79571-10-11 20:39 G	30784054.13	30784054.36	30784054.60	0.0135	0.0038
Earth	79571-10-11 23:46 G	30784054.25	30784054.49	30784054.73	0.0135	0.0036 *
Earth	79572-10-15 06:29 G	30784423.58	30784423.77	30784423.99	0.0135	0.0080
Moon	79572-10-15 09:36 G	30784423.71	30784423.90	30784424.12	0.0135	0.0082 *
Moon	79573-10-19 09:51 G	30784792.81	30784792.91	30784793.05	0.0134	0.0118
Earth	79573-10-19 13:12 G	30784792.97	30784793.05	30784793.17	0.0134	0.0123 *
Venus	79574-01-18 10:05 G	30784883.85	30784883.92	30784884.00	0.0134	0.0126
Venus	79574-09-01 14:53 G	30785109.98	30785110.12	30785110.28	0.0134	0.0094
Venus	79575-04-15 19:56 G	30785336.15	30785336.33	30785336.53	0.0134	0.0063
Venus	79575-11-28 00:44 G	30785562.33	30785562.53	30785562.75	0.0134	0.0031
Venus	79576-07-11 05:46 G	30785788.53	30785788.74	30785788.96	0.0134	0.0001
Venus	79577-02-22 10:34 G	30786014.73	30786014.94	30786015.15	0.0134	0.0032
Venus	79577-10-06 15:08 G	30786240.95	30786241.13	30786241.33	0.0134	0.0064
Venus	79578-05-20 19:56 G	30786467.19	30786467.33	30786467.49	0.0134	0.0095
Venus	79579-01-02 00:44 G	30786693.47	30786693.53	30786693.61	0.0134	0.0126
Jupiter	79580-06-11 13:41 G	30787219.60	30787220.07	30787220.59	0.0134	0.0030
Mercury	79583-01-13 03:08 G	30788165.54	30788165.63	30788165.71	0.0134	0.0115
Mercury	79583-04-11 08:39 G	30788253.74	30788253.86	30788253.98	0.0134	0.0092
Mercury	79583-07-08 13:56 G	30788341.94	30788342.08	30788342.24	0.0134	0.0070
Mercury	79583-10-04 19:27 G	30788430.16	30788430.31	30788430.48	0.0134	0.0047

Mercury	79584-01-01 00:58 G	30788518.38	30788518.54	30788518.71	0.0134	0.0024
Mercury	79584-03-29 06:29 G	30788606.60	30788606.77	30788606.93	0.0134	0.0004
Mercury	79584-06-25 11:46 G	30788694.82	30788694.99	30788695.15	0.0134	0.0021
Mercury	79584-09-21 17:03 G	30788783.05	30788783.21	30788783.37	0.0134	0.0043
Mercury	79584-12-18 22:20 G	30788871.28	30788871.43	30788871.57	0.0134	0.0065
Mercury	79585-03-17 03:22 G	30788959.52	30788959.64	30788959.77	0.0134	0.0087
Mercury	79585-06-13 08:24 G	30789047.76	30789047.85	30789047.95	0.0134	0.0108
Mercury	79585-09-09 13:41 G	30789136.03	30789136.07	30789136.11	0.0134	0.0130
Mars	79596-09-17 22:48 G	30793162.25	30793162.45	30793162.69	0.0137	0.0101
Earth	79612-03-27 14:39 G	30798831.95	30798832.11	30798832.32	0.0143	0.0098
Moon	79612-03-27 16:34 G	30798832.00	30798832.19	30798832.39	0.0143	0.0096 *
Moon	79613-04-01 12:00 G	30799201.78	30799202.00	30799202.24	0.0143	0.0050
Earth	79613-04-01 14:24 G	30799201.86	30799202.10	30799202.35	0.0143	0.0044 *
Earth	79614-04-06 14:39 G	30799571.86	30799572.11	30799572.37	0.0143	0.0010
Moon	79614-04-06 17:03 G	30799571.95	30799572.21	30799572.48	0.0143	0.0017 *
Moon	79615-04-11 12:00 G	30799941.78	30799942.00	30799942.24	0.0144	0.0058
Earth	79615-04-11 15:36 G	30799941.92	30799942.15	30799942.38	0.0144	0.0064 *
Earth	79616-04-15 16:34 G	30800312.05	30800312.19	30800312.34	0.0144	0.0118
Moon	79616-04-15 19:56 G	30800312.21	30800312.33	30800312.48	0.0144	0.0123 *
Venus	79616-10-20 20:39 G	30800500.33	30800500.36	30800500.42	0.0144	0.0141
Venus	79617-06-04 09:22 G	30800726.74	30800726.89	30800727.06	0.0144	0.0101
Venus	79618-01-16 22:05 G	30800953.23	30800953.42	30800953.63	0.0144	0.0061
Venus	79618-08-31 11:03 G	30801179.74	30801179.96	30801180.18	0.0144	0.0020
Venus	79619-04-14 23:46 G	30801406.27	30801406.49	30801406.71	0.0144	0.0020
Venus	79619-11-27 12:29 G	30801632.82	30801633.02	30801633.22	0.0144	0.0061
Venus	79620-07-11 00:58 G	30801859.40	30801859.54	30801859.72	0.0144	0.0102
Venus	79621-02-22 13:56 G	30802086.06	30802086.08	30802086.14	0.0144	0.0142
Mercury	79624-04-23 04:48 G	30803241.67	30803241.70	30803241.77	0.0144	0.0135
Mercury	79624-07-20 09:36 G	30803329.81	30803329.90	30803329.99	0.0144	0.0111
Mercury	79624-10-16 13:56 G	30803417.97	30803418.08	30803418.20	0.0144	0.0087

Mercury	79625-01-12 18:29 G	30803506.14	30803506.27	30803506.40	0.0144	0.0064
Mercury	79625-04-10 22:48 G	30803594.32	30803594.45	30803594.60	0.0144	0.0040
Mercury	79625-07-08 03:36 G	30803682.50	30803682.65	30803682.79	0.0144	0.0016
Mercury	79625-10-04 08:10 G	30803770.69	30803770.84	30803770.98	0.0144	0.0009
Mercury	79625-12-31 12:44 G	30803858.89	30803859.03	30803859.17	0.0144	0.0032
Mercury	79626-03-29 17:17 G	30803947.09	30803947.22	30803947.36	0.0144	0.0057
Mercury	79626-06-25 22:05 G	30804035.30	30804035.42	30804035.54	0.0144	0.0081
Mercury	79626-09-22 02:39 G	30804123.51	30804123.61	30804123.71	0.0144	0.0106
Mercury	79626-12-19 07:12 G	30804211.75	30804211.80	30804211.87	0.0144	0.0131
Mars	79637-03-26 22:34 G	30807962.15	30807962.44	30807962.73	0.0141	0.0014
Earth	79651-09-26 03:36 G	30813258.64	30813258.65	30813258.69	0.0136	0.0135
Earth	79652-09-29 12:58 G	30813627.87	30813628.04	30813628.24	0.0135	0.0091
Moon	79652-09-29 15:08 G	30813627.95	30813628.13	30813628.35	0.0135	0.0084 *
Moon	79653-10-03 19:12 G	30813997.08	30813997.30	30813997.54	0.0135	0.0052
Earth	79653-10-03 22:05 G	30813997.19	30813997.42	30813997.66	0.0135	0.0045 *
Earth	79654-10-08 06:15 G	30814366.51	30814366.76	30814367.01	0.0135	0.0001
Moon	79654-10-08 08:53 G	30814366.61	30814366.87	30814367.13	0.0135	0.0005 *
Moon	79655-10-12 11:03 G	30814735.73	30814735.96	30814736.20	0.0135	0.0042
Earth	79655-10-12 13:56 G	30814735.84	30814736.08	30814736.32	0.0135	0.0043 *
Earth	79656-10-15 20:39 G	30815105.18	30815105.36	30815105.57	0.0135	0.0087
Moon	79656-10-15 23:46 G	30815105.30	30815105.49	30815105.70	0.0135	0.0085 *
Moon	79657-10-20 00:44 G	30815474.52	30815474.53	30815474.58	0.0134	0.0134
Earth	79657-10-20 03:22 G	30815474.59	30815474.64	30815474.73	0.0134	0.0130
Venus	79658-05-02 03:22 G	30815668.52	30815668.64	30815668.78	0.0134	0.0107
Venus	79658-12-14 08:39 G	30815894.68	30815894.86	30815895.04	0.0134	0.0075
Venus	79659-07-28 13:27 G	30816120.86	30816121.06	30816121.27	0.0134	0.0043
Venus	79660-03-10 18:29 G	30816347.06	30816347.27	30816347.49	0.0134	0.0012
Venus	79660-10-22 23:17 G	30816573.26	30816573.47	30816573.68	0.0134	0.0020
Venus	79661-06-06 03:51 G	30816799.47	30816799.66	30816799.87	0.0134	0.0052
Venus	79662-01-18 08:39 G	30817025.70	30817025.86	30817026.04	0.0134	0.0083

Venus	79662-09-01 13:41 G	30817251.97	30817252.07	30817252.19	0.0134	0.0114
Mercury	79666-11-06 05:17 G	30818778.69	30818778.72	30818778.78	0.0134	0.0128
Mercury	79667-02-02 11:03 G	30818866.86	30818866.96	30818867.07	0.0134	0.0105
Mercury	79667-05-01 16:34 G	30818955.06	30818955.19	30818955.33	0.0134	0.0082
Mercury	79667-07-28 22:05 G	30819043.27	30819043.42	30819043.58	0.0134	0.0059
Mercury	79667-10-25 03:36 G	30819131.49	30819131.65	30819131.81	0.0134	0.0037
Mercury	79668-01-21 08:53 G	30819219.71	30819219.87	30819220.04	0.0134	0.0015
Mercury	79668-04-18 14:24 G	30819307.93	30819308.10	30819308.27	0.0134	0.0008
Mercury	79668-07-15 19:41 G	30819396.16	30819396.32	30819396.48	0.0134	0.0031
Mercury	79668-10-12 00:58 G	30819484.39	30819484.54	30819484.69	0.0134	0.0053
Mercury	79669-01-08 06:15 G	30819572.62	30819572.76	30819572.90	0.0134	0.0075
Mercury	79669-04-06 11:17 G	30819660.86	30819660.97	30819661.09	0.0134	0.0096
Mercury	79669-07-03 16:20 G	30819749.11	30819749.18	30819749.27	0.0134	0.0118
Mars	79681-05-14 19:56 G	30824082.03	30824082.33	30824082.65	0.0137	0.0048
Earth	79696-03-28 02:24 G	30829513.42	30829513.60	30829513.81	0.0143	0.0091
Moon	79696-03-28 03:36 G	30829513.47	30829513.65	30829513.87	0.0143	0.0092 *
Moon	79697-04-02 00:44 G	30829883.30	30829883.53	30829883.78	0.0143	0.0034
Earth	79697-04-02 01:56 G	30829883.35	30829883.58	30829883.84	0.0143	0.0038 *
Earth	79698-04-07 02:10 G	30830253.34	30830253.59	30830253.85	0.0143	0.0017
Moon	79698-04-07 04:48 G	30830253.44	30830253.70	30830253.96	0.0143	0.0009 *
Moon	79699-04-12 00:29 G	30830623.32	30830623.52	30830623.74	0.0144	0.0079
Earth	79699-04-12 02:53 G	30830623.41	30830623.62	30830623.85	0.0144	0.0071 *
Earth	79700-04-17 04:20 G	30830993.56	30830993.68	30830993.81	0.0144	0.0125
Moon	79700-04-17 07:12 G	30830993.69	30830993.80	30830993.96	0.0144	0.0122 *
Venus	79701-02-02 16:34 G	30831285.07	30831285.19	30831285.32	0.0144	0.0118
Venus	79701-09-17 05:17 G	30831511.54	30831511.72	30831511.91	0.0144	0.0078
Venus	79702-05-01 18:00 G	30831738.04	30831738.25	30831738.46	0.0144	0.0038
Venus	79702-12-14 06:44 G	30831964.56	30831964.78	30831965.00	0.0144	0.0003
Venus	79703-07-28 19:27 G	30832191.11	30832191.31	30832191.53	0.0144	0.0043
Venus	79704-03-11 08:24 G	30832417.68	30832417.85	30832418.04	0.0144	0.0084

Venus	79704-10-23 21:22 G	30832644.29	30832644.39	30832644.51	0.0144	0.0124
Mercury	79708-05-14 12:44 G	30833942.97	30833943.03	30833943.11	0.0144	0.0125
Mercury	79708-08-10 17:17 G	30834031.12	30834031.22	30834031.32	0.0144	0.0102
Mercury	79708-11-06 21:36 G	30834119.29	30834119.40	30834119.53	0.0144	0.0078
Mercury	79709-02-03 02:10 G	30834207.46	30834207.59	30834207.73	0.0144	0.0055
Mercury	79709-05-02 06:44 G	30834295.64	30834295.78	30834295.92	0.0144	0.0031
Mercury	79709-07-29 11:17 G	30834383.83	30834383.97	30834384.12	0.0144	0.0007
Mercury	79709-10-25 15:51 G	30834472.02	30834472.16	30834472.31	0.0144	0.0018
Mercury	79710-01-21 20:24 G	30834560.21	30834560.35	30834560.49	0.0144	0.0042
Mercury	79710-04-20 00:58 G	30834648.42	30834648.54	30834648.68	0.0144	0.0067
Mercury	79710-07-17 05:32 G	30834736.63	30834736.73	30834736.86	0.0144	0.0091
Mercury	79710-10-13 10:34 G	30834824.85	30834824.94	30834825.03	0.0144	0.0115
Mercury	79711-01-09 15:08 G	30834913.11	30834913.13	30834913.17	0.0144	0.0140
Mars	79721-11-20 22:05 G	30838881.31	30838881.42	30838881.58	0.0141	0.0125
Moon	79735-09-27 16:20 G	30843940.09	30843940.18	30843940.30	0.0136	0.0123
Earth	79735-09-27 18:15 G	30843940.19	30843940.26	30843940.35	0.0136	0.0128 *
Earth	79736-10-01 03:51 G	30844309.46	30844309.66	30844309.86	0.0135	0.0083
Moon	79736-10-01 05:46 G	30844309.56	30844309.74	30844309.95	0.0135	0.0091 *
Moon	79737-10-05 10:34 G	30844678.71	30844678.94	30844679.19	0.0135	0.0031
Earth	79737-10-05 12:29 G	30844678.78	30844679.02	30844679.27	0.0135	0.0038 *
Earth	79738-10-09 20:39 G	30845048.11	30845048.36	30845048.61	0.0135	0.0007
Moon	79738-10-09 23:17 G	30845048.21	30845048.47	30845048.73	0.0135	0.0003 *
Moon	79739-10-14 01:56 G	30845417.36	30845417.58	30845417.81	0.0135	0.0053
Earth	79739-10-14 03:51 G	30845417.44	30845417.66	30845417.91	0.0135	0.0051 *
Earth	79740-10-17 11:17 G	30845786.80	30845786.97	30845787.15	0.0135	0.0094
Moon	79740-10-17 13:27 G	30845786.90	30845787.06	30845787.26	0.0135	0.0096 *
Moon	79741-10-21 15:08 G	30846156.11	30846156.13	30846156.18	0.0134	0.0133
Venus	79741-12-31 16:05 G	30846227.08	30846227.17	30846227.28	0.0134	0.0118
Venus	79742-08-14 21:08 G	30846453.23	30846453.38	30846453.56	0.0134	0.0087
Venus	79743-03-29 02:10 G	30846679.40	30846679.59	30846679.79	0.0134	0.0055

Venus	79743-11-10 07:12 G	30846905.59	30846905.80	30846906.01	0.0134	0.0024
Venus	79744-06-23 12:00 G	30847131.79	30847132.00	30847132.22	0.0134	0.0008
Venus	79745-02-04 16:48 G	30847358.00	30847358.20	30847358.41	0.0134	0.0039
Venus	79745-09-18 21:36 G	30847584.23	30847584.40	30847584.59	0.0134	0.0071
Venus	79746-05-03 02:24 G	30847810.47	30847810.60	30847810.75	0.0134	0.0102
Venus	79746-12-15 07:12 G	30848036.79	30848036.80	30848036.83	0.0134	0.0133
Mercury	79750-11-27 13:41 G	30849479.99	30849480.07	30849480.15	0.0134	0.0117
Mercury	79751-02-23 19:12 G	30849568.18	30849568.30	30849568.42	0.0134	0.0094
Mercury	79751-05-23 00:29 G	30849656.38	30849656.52	30849656.67	0.0134	0.0072
Mercury	79751-08-19 06:00 G	30849744.60	30849744.75	30849744.91	0.0134	0.0049
Mercury	79751-11-15 11:32 G	30849832.82	30849832.98	30849833.15	0.0134	0.0026
Mercury	79752-02-11 17:03 G	30849921.04	30849921.21	30849921.38	0.0134	0.0005
Mercury	79752-05-09 22:20 G	30850009.26	30850009.43	30850009.60	0.0134	0.0019
Mercury	79752-08-06 03:22 G	30850097.49	30850097.64	30850097.81	0.0134	0.0041
Mercury	79752-11-02 08:39 G	30850185.72	30850185.86	30850186.02	0.0134	0.0063
Mercury	79753-01-29 14:10 G	30850273.96	30850274.09	30850274.22	0.0134	0.0085
Mercury	79753-04-27 19:12 G	30850362.20	30850362.30	30850362.40	0.0134	0.0106
Mercury	79753-07-25 00:00 G	30850450.47	30850450.50	30850450.57	0.0134	0.0129
Moon	79779-03-25 16:05 G	30859825.10	30859825.17	30859825.28	0.0142	0.0133
Earth	79779-03-25 16:05 G	30859825.12	30859825.17	30859825.25	0.0142	0.0137 *
Earth	79780-03-29 14:39 G	30860194.92	30860195.11	30860195.34	0.0143	0.0085
Moon	79780-03-29 15:08 G	30860194.93	30860195.13	30860195.35	0.0143	0.0085 *
Moon	79781-04-03 12:58 G	30860564.81	30860565.04	30860565.29	0.0143	0.0036
Earth	79781-04-03 14:24 G	30860564.85	30860565.10	30860565.35	0.0143	0.0031 *
Earth	79782-04-08 14:24 G	30860934.86	30860935.10	30860935.36	0.0143	0.0024
Moon	79782-04-08 15:51 G	30860934.91	30860935.16	30860935.43	0.0143	0.0030 *
Moon	79783-04-13 12:58 G	30861304.83	30861305.04	30861305.26	0.0144	0.0071
Earth	79783-04-13 15:22 G	30861304.93	30861305.14	30861305.36	0.0144	0.0078 *
Earth	79784-04-17 16:20 G	30861675.10	30861675.18	30861675.30	0.0144	0.0133
Moon	79784-04-17 19:12 G	30861675.25	30861675.30	30861675.39	0.0144	0.0138 *

Venus	79784-10-02 23:46 G	30861843.43	30861843.49	30861843.57	0.0144	0.0135
Venus	79785-05-17 12:15 G	30862069.86	30862070.01	30862070.19	0.0144	0.0096
Venus	79785-12-30 01:12 G	30862296.35	30862296.55	30862296.76	0.0144	0.0055
Venus	79786-08-13 14:10 G	30862522.87	30862523.09	30862523.31	0.0144	0.0015
Venus	79787-03-28 03:08 G	30862749.41	30862749.63	30862749.85	0.0144	0.0025
Venus	79787-11-09 15:36 G	30862975.97	30862976.15	30862976.36	0.0144	0.0067
Venus	79788-06-23 04:34 G	30863202.56	30863202.69	30863202.85	0.0144	0.0107
Mercury	79792-03-07 16:20 G	30864556.15	30864556.18	30864556.22	0.0144	0.0139
Mercury	79792-06-03 20:39 G	30864644.28	30864644.36	30864644.45	0.0144	0.0116
Mercury	79792-08-31 00:58 G	30864732.44	30864732.54	30864732.66	0.0144	0.0093
Mercury	79792-11-27 05:32 G	30864820.61	30864820.73	30864820.86	0.0144	0.0069
Mercury	79793-02-23 10:05 G	30864908.78	30864908.92	30864909.06	0.0144	0.0045
Mercury	79793-05-22 14:39 G	30864996.96	30864997.11	30864997.25	0.0144	0.0021
Mercury	79793-08-18 19:12 G	30865085.15	30865085.30	30865085.44	0.0144	0.0003
Mercury	79793-11-14 23:46 G	30865173.35	30865173.49	30865173.63	0.0144	0.0027
Mercury	79794-02-11 04:20 G	30865261.54	30865261.68	30865261.82	0.0144	0.0052
Mercury	79794-05-10 08:53 G	30865349.75	30865349.87	30865350.00	0.0144	0.0076
Mercury	79794-08-06 13:41 G	30865437.97	30865438.07	30865438.17	0.0144	0.0101
Mercury	79794-11-02 18:15 G	30865526.20	30865526.26	30865526.34	0.0144	0.0125
Mars	79804-08-16 00:00 G	30869099.28	30869099.50	30869099.75	0.0141	0.0083
Moon	79819-09-29 06:44 G	30874621.72	30874621.78	30874621.89	0.0136	0.0128
Earth	79819-09-29 08:39 G	30874621.75	30874621.86	30874621.98	0.0136	0.0121 *
Earth	79820-10-02 17:46 G	30874991.05	30874991.24	30874991.46	0.0136	0.0076
Moon	79820-10-02 19:12 G	30874991.09	30874991.30	30874991.54	0.0136	0.0069 *
Moon	79821-10-07 00:44 G	30875360.30	30875360.53	30875360.77	0.0135	0.0038
Earth	79821-10-07 02:39 G	30875360.38	30875360.61	30875360.87	0.0135	0.0031 *
Earth	79822-10-11 10:48 G	30875729.70	30875729.95	30875730.20	0.0135	0.0013
Moon	79822-10-11 12:29 G	30875729.77	30875730.02	30875730.28	0.0135	0.0019 *
Moon	79823-10-15 16:20 G	30876098.96	30876099.18	30876099.41	0.0135	0.0056
Earth	79823-10-15 18:15 G	30876099.04	30876099.26	30876099.50	0.0135	0.0058 *

Earth	79824-10-19 01:12 G	30876468.40	30876468.55	30876468.73	0.0135	0.0102
Moon	79824-10-19 03:51 G	30876468.49	30876468.66	30876468.84	0.0135	0.0100 *
Venus	79825-09-01 04:48 G	30876785.66	30876785.70	30876785.77	0.0134	0.0130
Venus	79826-04-15 10:05 G	30877011.78	30877011.92	30877012.07	0.0134	0.0099
Venus	79826-11-27 14:53 G	30877237.94	30877238.12	30877238.31	0.0134	0.0067
Venus	79827-07-11 19:56 G	30877464.13	30877464.33	30877464.54	0.0134	0.0036
Venus	79828-02-23 00:58 G	30877690.32	30877690.54	30877690.75	0.0134	0.0004
Venus	79828-10-06 05:46 G	30877916.53	30877916.74	30877916.95	0.0134	0.0027
Venus	79829-05-20 10:20 G	30878142.75	30878142.93	30878143.13	0.0134	0.0059
Venus	79830-01-01 15:08 G	30878368.98	30878369.13	30878369.30	0.0134	0.0090
Venus	79830-08-15 19:56 G	30878595.26	30878595.33	30878595.44	0.0134	0.0121
Mercury	79834-09-21 15:51 G	30880093.13	30880093.16	30880093.21	0.0134	0.0130
Mercury	79834-12-18 21:22 G	30880181.30	30880181.39	30880181.50	0.0134	0.0107
Mercury	79835-03-17 03:08 G	30880269.50	30880269.63	30880269.77	0.0134	0.0084
Mercury	79835-06-13 08:39 G	30880357.71	30880357.86	30880358.01	0.0134	0.0061
Mercury	79835-09-09 13:56 G	30880445.93	30880446.08	30880446.25	0.0134	0.0039
Mercury	79835-12-06 19:27 G	30880534.15	30880534.31	30880534.48	0.0134	0.0016
Mercury	79836-03-04 00:58 G	30880622.37	30880622.54	30880622.71	0.0134	0.0007
Mercury	79836-05-31 06:15 G	30880710.60	30880710.76	30880710.93	0.0134	0.0029
Mercury	79836-08-27 11:17 G	30880798.83	30880798.97	30880799.14	0.0134	0.0051
Mercury	79836-11-23 16:34 G	30880887.06	30880887.19	30880887.34	0.0134	0.0073
Mercury	79837-02-19 22:05 G	30880975.30	30880975.42	30880975.54	0.0134	0.0094
Mercury	79837-05-19 03:08 G	30881063.55	30881063.63	30881063.72	0.0134	0.0116
Mars	79848-10-02 02:39 G	30885217.29	30885217.61	30885217.94	0.0137	0.0028
Earth	79863-03-27 01:41 G	30890506.49	30890506.57	30890506.68	0.0142	0.0132
Moon	79863-03-27 02:53 G	30890506.56	30890506.62	30890506.69	0.0142	0.0137 *
Moon	79864-03-31 00:00 G	30890876.30	30890876.50	30890876.74	0.0143	0.0079
Earth	79864-03-31 00:29 G	30890876.31	30890876.52	30890876.73	0.0143	0.0079 *
Moon	79865-04-04 23:32 G	30891246.24	30891246.48	30891246.73	0.0143	0.0023
Earth	79865-04-04 23:46 G	30891246.24	30891246.49	30891246.74	0.0143	0.0026 *

Earth	79866-04-09 23:46 G	30891616.24	30891616.49	30891616.75	0.0143	0.0029
Moon	79866-04-10 01:27 G	30891616.29	30891616.56	30891616.82	0.0143	0.0022 *
Moon	79867-04-14 23:03 G	30891986.28	30891986.46	30891986.66	0.0143	0.0092
Earth	79867-04-15 00:29 G	30891986.32	30891986.52	30891986.74	0.0143	0.0084 *
Earth	79868-04-19 01:41 G	30892356.52	30892356.57	30892356.66	0.0144	0.0139
Moon	79868-04-19 04:05 G	30892356.60	30892356.67	30892356.79	0.0144	0.0134 *
Venus	79869-01-15 18:00 G	30892628.12	30892628.25	30892628.38	0.0144	0.0114
Venus	79869-08-30 06:44 G	30892854.59	30892854.78	30892854.97	0.0144	0.0074
Venus	79870-04-13 19:27 G	30893081.10	30893081.31	30893081.53	0.0144	0.0034
Venus	79870-11-26 08:10 G	30893307.62	30893307.84	30893308.07	0.0144	0.0007
Venus	79871-07-10 21:08 G	30893534.17	30893534.38	30893534.59	0.0144	0.0047
Venus	79872-02-22 09:51 G	30893760.75	30893760.91	30893761.10	0.0144	0.0087
Venus	79872-10-05 22:34 G	30893987.36	30893987.44	30893987.56	0.0144	0.0128
Mercury	79876-03-28 23:03 G	30895257.42	30895257.46	30895257.53	0.0144	0.0134
Mercury	79876-06-25 03:51 G	30895345.57	30895345.66	30895345.75	0.0144	0.0110
Mercury	79876-09-21 08:10 G	30895433.73	30895433.84	30895433.96	0.0144	0.0086
Mercury	79876-12-18 12:44 G	30895521.90	30895522.03	30895522.16	0.0144	0.0063
Mercury	79877-03-16 17:03 G	30895610.08	30895610.21	30895610.35	0.0144	0.0039
Mercury	79877-06-12 21:36 G	30895698.26	30895698.40	30895698.55	0.0144	0.0015
Mercury	79877-09-09 02:10 G	30895786.45	30895786.59	30895786.74	0.0144	0.0010
Mercury	79877-12-06 06:44 G	30895874.64	30895874.78	30895874.93	0.0144	0.0034
Mercury	79878-03-04 11:17 G	30895962.84	30895962.97	30895963.11	0.0144	0.0058
Mercury	79878-05-31 16:05 G	30896051.05	30896051.17	30896051.29	0.0144	0.0082
Mercury	79878-08-27 20:39 G	30896139.27	30896139.36	30896139.46	0.0144	0.0107
Mercury	79878-11-24 01:12 G	30896227.51	30896227.55	30896227.62	0.0144	0.0132
Mars	79889-04-10 20:53 G	30900018.11	30900018.37	30900018.64	0.0141	0.0053
Moon	79903-09-30 21:08 G	30905303.25	30905303.38	30905303.54	0.0136	0.0110
Earth	79903-09-30 21:51 G	30905303.29	30905303.41	30905303.56	0.0136	0.0115 *
Earth	79904-10-04 07:27 G	30905672.60	30905672.81	30905673.04	0.0136	0.0070
Moon	79904-10-04 08:53 G	30905672.66	30905672.87	30905673.09	0.0136	0.0077 *

Moon	79905-10-08 15:36 G	30906041.90	30906042.15	30906042.39	0.0135	0.0018
Earth	79905-10-08 16:20 G	30906041.94	30906042.18	30906042.43	0.0135	0.0025 *
Earth	79906-10-13 00:44 G	30906411.28	30906411.53	30906411.78	0.0135	0.0020
Moon	79906-10-13 02:10 G	30906411.34	30906411.59	30906411.86	0.0135	0.0016 *
Moon	79907-10-17 06:58 G	30906780.58	30906780.79	30906781.00	0.0135	0.0068
Earth	79907-10-17 08:10 G	30906780.63	30906780.84	30906781.07	0.0135	0.0065 *
Earth	79908-10-20 15:08 G	30907150.01	30907150.13	30907150.30	0.0135	0.0109
Moon	79908-10-20 17:03 G	30907150.07	30907150.21	30907150.37	0.0135	0.0109 *
Venus	79909-12-14 22:34 G	30907570.32	30907570.44	30907570.56	0.0134	0.0111
Venus	79910-07-29 03:36 G	30907796.49	30907796.65	30907796.83	0.0134	0.0079
Venus	79911-03-12 08:39 G	30908022.66	30908022.86	30908023.07	0.0134	0.0048
Venus	79911-10-24 13:41 G	30908248.86	30908249.07	30908249.28	0.0134	0.0016
Venus	79912-06-06 18:29 G	30908475.06	30908475.27	30908475.49	0.0134	0.0015
Venus	79913-01-18 23:03 G	30908701.27	30908701.46	30908701.68	0.0134	0.0047
Venus	79913-09-02 04:05 G	30908927.51	30908927.67	30908927.85	0.0134	0.0078
Venus	79914-04-16 08:53 G	30909153.76	30909153.87	30909154.00	0.0134	0.0109
Mercury	79918-10-13 00:00 G	30910794.43	30910794.50	30910794.58	0.0134	0.0119
Mercury	79919-01-09 05:46 G	30910882.62	30910882.74	30910882.86	0.0134	0.0096
Mercury	79919-04-07 11:17 G	30910970.83	30910970.97	30910971.11	0.0134	0.0073
Mercury	79919-07-04 16:34 G	30911059.04	30911059.19	30911059.36	0.0134	0.0051
Mercury	79919-09-30 22:05 G	30911147.26	30911147.42	30911147.59	0.0134	0.0028
Mercury	79919-12-28 03:36 G	30911235.48	30911235.65	30911235.82	0.0134	0.0005
Mercury	79920-03-25 08:53 G	30911323.71	30911323.87	30911324.04	0.0134	0.0017
Mercury	79920-06-21 14:10 G	30911411.93	30911412.09	30911412.26	0.0134	0.0039
Mercury	79920-09-17 19:27 G	30911500.17	30911500.31	30911500.47	0.0134	0.0061
Mercury	79920-12-15 00:44 G	30911588.41	30911588.53	30911588.67	0.0134	0.0083
Mercury	79921-03-13 05:46 G	30911676.65	30911676.74	30911676.86	0.0134	0.0105
Mercury	79921-06-09 11:17 G	30911764.92	30911764.97	30911765.02	0.0134	0.0126
Mars	79933-05-29 23:03 G	30916137.33	30916137.46	30916137.64	0.0137	0.0120
Earth	79947-03-28 13:41 G	30921187.96	30921188.07	30921188.19	0.0142	0.0126

Moon	79947-03-28 14:53 G	30921188.00	30921188.12	30921188.26	0.0142	0.0121	*
Moon	79948-04-01 10:48 G	30921557.74	30921557.95	30921558.19	0.0143	0.0076	
Earth	79948-04-01 12:15 G	30921557.79	30921558.01	30921558.23	0.0143	0.0073	*
Earth	79949-04-06 11:32 G	30921927.72	30921927.98	30921928.23	0.0143	0.0019	
Moon	79949-04-06 11:17 G	30921927.73	30921927.97	30921928.22	0.0143	0.0023	*
Earth	79950-04-11 11:32 G	30922297.73	30922297.98	30922298.23	0.0143	0.0035	
Moon	79950-04-11 11:32 G	30922297.74	30922297.98	30922298.24	0.0143	0.0041	*
Moon	79951-04-16 10:34 G	30922667.76	30922667.94	30922668.16	0.0143	0.0084	
Earth	79951-04-16 12:00 G	30922667.82	30922668.00	30922668.22	0.0143	0.0091	*
Venus	79952-09-16 00:29 G	30923186.45	30923186.52	30923186.62	0.0144	0.0132	
Venus	79953-04-30 13:12 G	30923412.89	30923413.05	30923413.23	0.0144	0.0092	
Venus	79953-12-13 01:56 G	30923639.39	30923639.58	30923639.80	0.0144	0.0052	
Venus	79954-07-27 14:53 G	30923865.90	30923866.12	30923866.34	0.0144	0.0012	
Venus	79955-03-11 03:51 G	30924092.45	30924092.66	30924092.88	0.0144	0.0029	
Venus	79955-10-23 16:34 G	30924319.01	30924319.19	30924319.39	0.0144	0.0069	
Venus	79956-06-06 05:17 G	30924545.59	30924545.72	30924545.88	0.0144	0.0109	
Mercury	79960-04-19 06:44 G	30925958.72	30925958.78	30925958.86	0.0144	0.0125	
Mercury	79960-07-16 11:17 G	30926046.87	30926046.97	30926047.07	0.0144	0.0102	
Mercury	79960-10-12 15:36 G	30926135.03	30926135.15	30926135.28	0.0144	0.0079	
Mercury	79961-01-08 20:10 G	30926223.21	30926223.34	30926223.47	0.0144	0.0055	
Mercury	79961-04-07 00:29 G	30926311.38	30926311.52	30926311.67	0.0144	0.0032	
Mercury	79961-07-04 05:03 G	30926399.57	30926399.71	30926399.86	0.0144	0.0008	
Mercury	79961-09-30 09:51 G	30926487.76	30926487.91	30926488.05	0.0144	0.0018	
Mercury	79961-12-27 14:24 G	30926575.96	30926576.10	30926576.24	0.0144	0.0042	
Mercury	79962-03-25 18:44 G	30926664.16	30926664.28	30926664.42	0.0144	0.0066	
Mercury	79962-06-21 23:32 G	30926752.37	30926752.48	30926752.60	0.0144	0.0090	
Mercury	79962-09-18 04:05 G	30926840.59	30926840.67	30926840.77	0.0144	0.0115	
Mercury	79962-12-15 08:53 G	30926928.84	30926928.87	30926928.91	0.0144	0.0140	
Moon	79987-10-01 10:34 G	30935984.83	30935984.94	30935985.09	0.0136	0.0115	
Earth	79987-10-01 11:03 G	30935984.83	30935984.96	30935985.13	0.0136	0.0109	*

Earth	79988-10-04 20:39 G	30936354.15	30936354.36	30936354.60	0.0136	0.0064
Moon	79988-10-04 21:08 G	30936354.15	30936354.38	30936354.63	0.0136	0.0057 *
Moon	79989-10-09 04:48 G	30936723.46	30936723.70	30936723.94	0.0135	0.0025
Earth	79989-10-09 05:46 G	30936723.49	30936723.74	30936724.00	0.0135	0.0018 *
Earth	79990-10-13 13:56 G	30937092.84	30937093.08	30937093.34	0.0135	0.0027
Moon	79990-10-13 14:39 G	30937092.86	30937093.11	30937093.37	0.0135	0.0033 *
Moon	79991-10-17 20:53 G	30937462.16	30937462.37	30937462.58	0.0135	0.0069
Earth	79991-10-17 21:36 G	30937462.21	30937462.40	30937462.63	0.0135	0.0072 *
Earth	79992-10-21 05:03 G	30937831.60	30937831.71	30937831.86	0.0135	0.0116
Moon	79992-10-21 06:15 G	30937831.65	30937831.76	30937831.91	0.0135	0.0116 *
Venus	79993-08-14 10:34 G	30938128.88	30938128.94	30938129.05	0.0134	0.0124
Venus	79994-03-28 16:05 G	30938355.02	30938355.17	30938355.33	0.0134	0.0092
Venus	79994-11-09 20:53 G	30938581.19	30938581.37	30938581.58	0.0134	0.0061
Venus	79995-06-24 02:10 G	30938807.38	30938807.59	30938807.80	0.0134	0.0029
Venus	79996-02-05 07:12 G	30939033.58	30939033.80	30939034.01	0.0134	0.0004
Venus	79996-09-18 12:00 G	30939259.80	30939260.00	30939260.21	0.0134	0.0034
Venus	79997-05-02 16:34 G	30939486.02	30939486.19	30939486.39	0.0134	0.0066
Venus	79997-12-14 21:22 G	30939712.26	30939712.39	30939712.55	0.0134	0.0097
Venus	79998-07-29 02:10 G	30939938.54	30939938.59	30939938.67	0.0134	0.0128

81ST MILLENNIUM CE

This is a list of transits visible from Uranus in the 81st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury	80002-08-06 02:24 G	30941407.58	30941407.60	30941407.64	0.0134	0.0132
Mercury	80002-11-02 07:56 G	30941495.75	30941495.83	30941495.95	0.0134	0.0109
Mercury	80003-01-29 13:41 G	30941583.95	30941584.07	30941584.21	0.0134	0.0086
Mercury	80003-04-27 19:12 G	30941672.16	30941672.30	30941672.46	0.0134	0.0063
Mercury	80003-07-25 00:44 G	30941760.37	30941760.53	30941760.70	0.0134	0.0040
Mercury	80003-10-21 06:15 G	30941848.59	30941848.76	30941848.93	0.0134	0.0017
Mercury	80004-01-17 11:46 G	30941936.82	30941936.99	30941937.16	0.0134	0.0005
Mercury	80004-04-14 17:03 G	30942025.05	30942025.21	30942025.38	0.0134	0.0028
Mercury	80004-07-11 22:20 G	30942113.28	30942113.43	30942113.59	0.0134	0.0050
Mercury	80004-10-08 03:36 G	30942201.51	30942201.65	30942201.80	0.0134	0.0072
Mercury	80005-01-04 08:39 G	30942289.76	30942289.86	30942289.99	0.0134	0.0094
Mercury	80005-04-02 14:10 G	30942378.01	30942378.09	30942378.17	0.0134	0.0115
Mars	80016-02-19 16:34 G	30946352.98	30946353.19	30946353.44	0.0137	0.0096
Earth	80031-03-29 01:56 G	30951869.45	30951869.58	30951869.73	0.0142	0.0119
Moon	80031-03-29 03:51 G	30951869.56	30951869.66	30951869.79	0.0142	0.0126 *
Moon	80032-04-01 22:48 G	30952239.23	30952239.45	30952239.70	0.0143	0.0065
Earth	80032-04-02 00:15 G	30952239.29	30952239.51	30952239.74	0.0143	0.0067 *
Earth	80033-04-06 23:32 G	30952609.23	30952609.48	30952609.74	0.0143	0.0013
Moon	80033-04-07 00:29 G	30952609.28	30952609.52	30952609.77	0.0143	0.0012 *
Earth	80034-04-11 23:17 G	30952979.23	30952979.47	30952979.72	0.0143	0.0042
Moon	80034-04-11 23:46 G	30952979.23	30952979.49	30952979.75	0.0143	0.0035 *
Earth	80035-04-17 00:00 G	30953349.31	30953349.50	30953349.69	0.0143	0.0097
Moon	80035-04-16 23:46 G	30953349.32	30953349.49	30953349.66	0.0143	0.0105 *
Venus	80036-12-28 19:41 G	30953971.20	30953971.32	30953971.48	0.0144	0.0110
Venus	80037-08-12 08:39 G	30954197.67	30954197.86	30954198.06	0.0144	0.0070
Venus	80038-03-26 21:22 G	30954424.18	30954424.39	30954424.61	0.0144	0.0030
Venus	80038-11-08 10:05 G	30954650.71	30954650.92	30954651.15	0.0144	0.0011
Venus	80039-06-22 22:48 G	30954877.25	30954877.45	30954877.66	0.0144	0.0051
Venus	80040-02-04 11:32 G	30955103.82	30955103.98	30955104.16	0.0144	0.0091
Venus	80040-09-18 00:15 G	30955330.43	30955330.51	30955330.61	0.0144	0.0131

Mercury	80044-02-11 09:36 G	30956571.89	30956571.90	30956571.94	0.0144	0.0142
Mercury	80044-05-09 13:56 G	30956660.01	30956660.08	30956660.17	0.0144	0.0119
Mercury	80044-08-05 18:29 G	30956748.17	30956748.27	30956748.38	0.0144	0.0095
Mercury	80044-11-01 23:03 G	30956836.33	30956836.46	30956836.58	0.0144	0.0071
Mercury	80045-01-29 03:22 G	30956924.51	30956924.64	30956924.78	0.0144	0.0048
Mercury	80045-04-27 07:56 G	30957012.69	30957012.83	30957012.97	0.0144	0.0024
Mercury	80045-07-24 12:29 G	30957100.87	30957101.02	30957101.16	0.0144	0.0001
Mercury	80045-10-20 17:03 G	30957189.06	30957189.21	30957189.35	0.0144	0.0024
Mercury	80046-01-16 21:36 G	30957277.26	30957277.40	30957277.54	0.0144	0.0049
Mercury	80046-04-15 02:10 G	30957365.47	30957365.59	30957365.72	0.0144	0.0073
Mercury	80046-07-12 06:44 G	30957453.68	30957453.78	30957453.89	0.0144	0.0098
Mercury	80046-10-08 11:32 G	30957541.91	30957541.98	30957542.06	0.0144	0.0122
Mars	80056-08-29 12:15 G	30961154.73	30961155.01	30961155.31	0.0142	0.0025
Earth	80071-10-01 23:32 G	30966666.34	30966666.48	30966666.67	0.0136	0.0104
Moon	80071-10-02 00:00 G	30966666.35	30966666.50	30966666.68	0.0136	0.0099 *
Earth	80072-10-05 09:36 G	30967035.68	30967035.90	30967036.13	0.0136	0.0057
Moon	80072-10-05 09:51 G	30967035.68	30967035.91	30967036.15	0.0136	0.0064 *
Earth	80073-10-09 18:44 G	30967405.03	30967405.28	30967405.53	0.0135	0.0012
Moon	80073-10-09 18:44 G	30967405.04	30967405.28	30967405.53	0.0135	0.0005 *
Earth	80074-10-14 02:53 G	30967774.39	30967774.62	30967774.88	0.0135	0.0034
Moon	80074-10-14 03:51 G	30967774.40	30967774.66	30967774.92	0.0135	0.0028 *
Moon	80075-10-18 10:34 G	30968143.76	30968143.94	30968144.15	0.0135	0.0083
Earth	80075-10-18 11:17 G	30968143.77	30968143.97	30968144.18	0.0135	0.0078 *
Earth	80076-10-21 18:15 G	30968513.18	30968513.26	30968513.39	0.0135	0.0123
Moon	80076-10-21 18:58 G	30968513.20	30968513.29	30968513.42	0.0135	0.0122 *
Venus	80077-11-26 03:51 G	30968913.55	30968913.66	30968913.82	0.0135	0.0105
Venus	80078-07-10 09:22 G	30969139.72	30969139.89	30969140.08	0.0134	0.0073
Venus	80079-02-21 14:24 G	30969365.90	30969366.10	30969366.31	0.0134	0.0041
Venus	80079-10-05 19:27 G	30969592.10	30969592.31	30969592.53	0.0134	0.0010
Venus	80080-05-19 00:15 G	30969818.30	30969818.51	30969818.73	0.0134	0.0022

Venus	80080-12-31 05:17 G	30970044.52	30970044.72	30970044.92	0.0134	0.0053
Venus	80081-08-14 09:51 G	30970270.76	30970270.91	30970271.09	0.0134	0.0085
Venus	80082-03-28 14:39 G	30970497.02	30970497.11	30970497.23	0.0134	0.0116
Mercury	80086-08-26 10:34 G	30972108.88	30972108.94	30972109.02	0.0134	0.0121
Mercury	80086-11-22 16:05 G	30972197.06	30972197.17	30972197.30	0.0134	0.0098
Mercury	80087-02-18 21:51 G	30972285.27	30972285.41	30972285.56	0.0134	0.0075
Mercury	80087-05-18 03:22 G	30972373.49	30972373.64	30972373.80	0.0134	0.0052
Mercury	80087-08-14 08:53 G	30972461.71	30972461.87	30972462.04	0.0134	0.0029
Mercury	80087-11-10 14:24 G	30972549.93	30972550.10	30972550.27	0.0134	0.0007
Mercury	80088-02-06 19:41 G	30972638.16	30972638.32	30972638.49	0.0134	0.0016
Mercury	80088-05-05 01:12 G	30972726.39	30972726.55	30972726.71	0.0134	0.0038
Mercury	80088-08-01 06:29 G	30972814.62	30972814.77	30972814.92	0.0134	0.0060
Mercury	80088-10-28 11:46 G	30972902.86	30972902.99	30972903.12	0.0134	0.0082
Mercury	80089-01-24 16:48 G	30972991.11	30972991.20	30972991.31	0.0134	0.0105
Mercury	80089-04-22 22:05 G	30973079.37	30973079.42	30973079.48	0.0134	0.0126
Mars	80100-10-16 14:10 G	30977272.80	30977273.09	30977273.41	0.0137	0.0053
Earth	80115-03-30 16:34 G	30982551.05	30982551.19	30982551.36	0.0142	0.0112
Moon	80115-03-30 18:44 G	30982551.14	30982551.28	30982551.46	0.0142	0.0107 *
Moon	80116-04-03 12:58 G	30982920.81	30982921.04	30982921.29	0.0143	0.0063
Earth	80116-04-03 15:22 G	30982920.91	30982921.14	30982921.37	0.0143	0.0059 *
Earth	80117-04-08 14:24 G	30983290.85	30983291.10	30983291.36	0.0143	0.0005
Moon	80117-04-08 15:22 G	30983290.90	30983291.14	30983291.39	0.0143	0.0008 *
Moon	80118-04-13 13:12 G	30983660.82	30983661.05	30983661.30	0.0143	0.0055
Earth	80118-04-13 14:10 G	30983660.86	30983661.09	30983661.34	0.0143	0.0050 *
Moon	80119-04-18 14:24 G	30984030.94	30984031.10	30984031.29	0.0143	0.0099
Earth	80119-04-18 14:39 G	30984030.95	30984031.11	30984031.30	0.0143	0.0106 *
Venus	80120-08-29 04:48 G	30984529.60	30984529.70	30984529.82	0.0144	0.0125
Venus	80121-04-12 17:17 G	30984756.06	30984756.22	30984756.41	0.0144	0.0086
Venus	80121-11-25 06:00 G	30984982.55	30984982.75	30984982.97	0.0144	0.0046
Venus	80122-07-09 18:44 G	30985209.06	30985209.28	30985209.50	0.0144	0.0006

Venus	80123-02-21 07:27 G	30985435.60	30985435.81	30985436.03	0.0144	0.0035
Venus	80123-10-05 19:56 G	30985662.16	30985662.33	30985662.53	0.0144	0.0076
Venus	80124-05-19 08:39 G	30985888.74	30985888.86	30985889.01	0.0144	0.0115
Mercury	80128-03-03 17:46 G	30987273.19	30987273.24	30987273.30	0.0144	0.0131
Mercury	80128-05-30 22:05 G	30987361.33	30987361.42	30987361.52	0.0144	0.0108
Mercury	80128-08-27 02:39 G	30987449.49	30987449.61	30987449.72	0.0144	0.0085
Mercury	80128-11-23 06:58 G	30987537.66	30987537.79	30987537.92	0.0144	0.0061
Mercury	80129-02-19 11:32 G	30987625.84	30987625.98	30987626.12	0.0144	0.0037
Mercury	80129-05-18 15:51 G	30987714.02	30987714.16	30987714.31	0.0144	0.0015
Mercury	80129-08-14 20:24 G	30987802.21	30987802.35	30987802.50	0.0144	0.0011
Mercury	80129-11-11 00:58 G	30987890.40	30987890.54	30987890.69	0.0144	0.0035
Mercury	80130-02-07 05:32 G	30987978.60	30987978.73	30987978.87	0.0144	0.0059
Mercury	80130-05-06 10:05 G	30988066.81	30988066.92	30988067.05	0.0144	0.0084
Mercury	80130-08-02 14:53 G	30988155.03	30988155.12	30988155.22	0.0144	0.0108
Mercury	80130-10-29 19:27 G	30988243.27	30988243.31	30988243.37	0.0144	0.0133
Mars	80141-04-25 15:22 G	30992073.98	30992074.14	30992074.32	0.0141	0.0115
Earth	80155-10-03 13:27 G	30997347.88	30997348.06	30997348.24	0.0136	0.0096
Moon	80155-10-03 13:41 G	30997347.93	30997348.07	30997348.25	0.0136	0.0102 *
Moon	80156-10-06 22:05 G	30997717.18	30997717.42	30997717.68	0.0136	0.0045
Earth	80156-10-06 22:48 G	30997717.23	30997717.45	30997717.70	0.0136	0.0051 *
Earth	80157-10-11 08:10 G	30998086.59	30998086.84	30998087.10	0.0135	0.0006
Moon	80157-10-11 08:24 G	30998086.61	30998086.85	30998087.09	0.0135	0.0012 *
Moon	80158-10-15 16:20 G	30998455.94	30998456.18	30998456.43	0.0135	0.0047
Earth	80158-10-15 16:34 G	30998455.97	30998456.19	30998456.45	0.0135	0.0042 *
Moon	80159-10-20 00:58 G	30998825.35	30998825.54	30998825.73	0.0135	0.0082
Earth	80159-10-20 00:44 G	30998825.35	30998825.53	30998825.74	0.0135	0.0086 *
Earth	80160-10-23 08:24 G	30999194.80	30999194.85	30999194.93	0.0135	0.0130
Moon	80160-10-23 08:24 G	30999194.81	30999194.85	30999194.94	0.0135	0.0131 *
Venus	80161-07-27 16:20 G	30999472.10	30999472.18	30999472.31	0.0135	0.0117
Venus	80162-03-10 21:51 G	30999698.25	30999698.41	30999698.58	0.0135	0.0085

Venus	80162-10-23 02:53 G	30999924.43	30999924.62	30999924.82	0.0134	0.0053
Venus	80163-06-06 07:56 G	31000150.62	31000150.83	31000151.04	0.0134	0.0022
Venus	80164-01-18 12:44 G	31000376.82	31000377.03	31000377.25	0.0134	0.0010
Venus	80164-08-31 17:46 G	31000603.04	31000603.24	31000603.45	0.0134	0.0041
Venus	80165-04-14 22:34 G	31000829.26	31000829.44	31000829.62	0.0134	0.0073
Venus	80165-11-27 02:53 G	31001055.51	31001055.62	31001055.78	0.0134	0.0105
Mercury	80170-06-20 12:58 G	31002722.04	31002722.04	31002722.05	0.0134	0.0134
Mercury	80170-09-16 18:29 G	31002810.19	31002810.27	31002810.38	0.0134	0.0111
Mercury	80170-12-14 00:29 G	31002898.39	31002898.52	31002898.65	0.0134	0.0087
Mercury	80171-03-12 06:00 G	31002986.60	31002986.75	31002986.90	0.0134	0.0064
Mercury	80171-06-08 11:32 G	31003074.82	31003074.98	31003075.14	0.0134	0.0041
Mercury	80171-09-04 17:03 G	31003163.04	31003163.21	31003163.38	0.0134	0.0019
Mercury	80171-12-01 22:34 G	31003251.27	31003251.44	31003251.61	0.0134	0.0005
Mercury	80172-02-28 03:51 G	31003339.50	31003339.66	31003339.83	0.0134	0.0026
Mercury	80172-05-26 09:08 G	31003427.73	31003427.88	31003428.04	0.0134	0.0049
Mercury	80172-08-22 14:24 G	31003515.97	31003516.10	31003516.25	0.0134	0.0071
Mercury	80172-11-18 19:41 G	31003604.21	31003604.32	31003604.45	0.0134	0.0093
Mercury	80173-02-15 00:44 G	31003692.46	31003692.53	31003692.63	0.0134	0.0116
Earth	80199-03-31 06:15 G	31013232.60	31013232.76	31013232.94	0.0142	0.0105
Moon	80199-03-31 09:22 G	31013232.73	31013232.89	31013233.04	0.0142	0.0112 *
Moon	80200-04-05 02:39 G	31013602.37	31013602.61	31013602.86	0.0142	0.0049
Earth	80200-04-05 04:48 G	31013602.47	31013602.70	31013602.95	0.0142	0.0052 *
Earth	80201-04-10 04:05 G	31013972.42	31013972.67	31013972.93	0.0143	0.0003
Moon	80201-04-10 06:15 G	31013972.51	31013972.76	31013973.00	0.0143	0.0004 *
Moon	80202-04-15 02:53 G	31014342.39	31014342.62	31014342.88	0.0143	0.0052
Earth	80202-04-15 03:51 G	31014342.44	31014342.66	31014342.91	0.0143	0.0058 *
Earth	80203-04-20 04:05 G	31014712.53	31014712.67	31014712.84	0.0143	0.0113
Moon	80203-04-20 05:17 G	31014712.59	31014712.72	31014712.85	0.0143	0.0121 *
Venus	80204-04-29 12:58 G	31015088.01	31015088.04	31015088.08	0.0144	0.0141
Venus	80204-12-12 01:12 G	31015314.41	31015314.55	31015314.72	0.0144	0.0102

Venus	80205-07-26 13:56 G	31015540.88	31015541.08	31015541.28	0.0144	0.0062
Venus	80206-03-10 02:39 G	31015767.40	31015767.61	31015767.83	0.0144	0.0022
Venus	80206-10-22 15:08 G	31015993.92	31015994.13	31015994.36	0.0144	0.0018
Venus	80207-06-06 03:36 G	31016220.46	31016220.65	31016220.86	0.0144	0.0058
Venus	80208-01-18 16:20 G	31016447.03	31016447.18	31016447.35	0.0144	0.0098
Venus	80208-09-01 05:17 G	31016673.66	31016673.72	31016673.78	0.0144	0.0138
Mercury	80212-03-25 01:27 G	31017974.50	31017974.56	31017974.64	0.0144	0.0122
Mercury	80212-06-21 05:46 G	31018062.65	31018062.74	31018062.85	0.0144	0.0099
Mercury	80212-09-17 10:20 G	31018150.81	31018150.93	31018151.06	0.0144	0.0076
Mercury	80212-12-14 14:39 G	31018238.98	31018239.11	31018239.25	0.0144	0.0052
Mercury	80213-03-12 19:12 G	31018327.16	31018327.30	31018327.45	0.0144	0.0028
Mercury	80213-06-08 23:46 G	31018415.35	31018415.49	31018415.64	0.0144	0.0004
Mercury	80213-09-05 04:20 G	31018503.54	31018503.68	31018503.83	0.0144	0.0020
Mercury	80213-12-02 08:53 G	31018591.73	31018591.87	31018592.01	0.0144	0.0044
Mercury	80214-02-28 13:12 G	31018679.93	31018680.05	31018680.19	0.0144	0.0070
Mercury	80214-05-27 18:00 G	31018768.14	31018768.25	31018768.37	0.0144	0.0093
Mercury	80214-08-23 22:34 G	31018856.37	31018856.44	31018856.53	0.0144	0.0118
Mercury	80214-11-20 03:08 G	31018944.63	31018944.63	31018944.66	0.0144	0.0143
Mars	80224-01-19 09:51 G	31022291.71	31022291.91	31022292.14	0.0142	0.0097
Saturn	80236-08-21 03:22 G	31026889.20	31026889.64	31026890.11	0.0137	0.0094
Earth	80239-10-05 02:10 G	31028029.41	31028029.59	31028029.78	0.0136	0.0090
Moon	80239-10-05 03:22 G	31028029.46	31028029.64	31028029.84	0.0136	0.0087 *
Moon	80240-10-08 11:03 G	31028398.73	31028398.96	31028399.21	0.0136	0.0051
Earth	80240-10-08 12:00 G	31028398.77	31028399.00	31028399.25	0.0136	0.0044 *
Earth	80241-10-12 21:22 G	31028768.14	31028768.39	31028768.64	0.0135	0.0002
Moon	80241-10-12 22:34 G	31028768.19	31028768.44	31028768.68	0.0135	0.0009 *
Moon	80242-10-17 05:46 G	31029137.49	31029137.74	31029137.99	0.0135	0.0042
Earth	80242-10-17 05:46 G	31029137.52	31029137.74	31029137.99	0.0135	0.0049 *
Earth	80243-10-21 13:56 G	31029506.92	31029507.08	31029507.29	0.0135	0.0093
Moon	80243-10-21 14:39 G	31029506.97	31029507.11	31029507.30	0.0135	0.0098 *

Moon	80244-10-24 21:36 G	31029876.40	31029876.40	31029876.40	0.0135	0.0135
Venus	80245-03-28 04:34 G	31030030.64	31030030.69	31030030.76	0.0135	0.0129
Venus	80245-11-09 09:36 G	31030256.77	31030256.90	31030257.06	0.0135	0.0098
Venus	80246-06-23 15:08 G	31030482.94	31030483.13	31030483.31	0.0134	0.0066
Venus	80247-02-04 19:56 G	31030709.13	31030709.33	31030709.54	0.0134	0.0034
Venus	80247-09-19 00:58 G	31030935.33	31030935.54	31030935.76	0.0134	0.0004
Venus	80248-05-02 06:00 G	31031161.54	31031161.75	31031161.96	0.0134	0.0029
Venus	80248-12-14 10:34 G	31031387.76	31031387.94	31031388.14	0.0134	0.0060
Venus	80249-07-28 15:22 G	31031613.99	31031614.14	31031614.31	0.0134	0.0091
Venus	80250-03-11 20:10 G	31031840.26	31031840.34	31031840.44	0.0134	0.0122
Mercury	80254-07-11 20:39 G	31033423.31	31033423.36	31033423.44	0.0134	0.0124
Mercury	80254-10-08 02:39 G	31033511.50	31033511.61	31033511.73	0.0134	0.0100
Mercury	80255-01-04 08:10 G	31033599.71	31033599.84	31033599.99	0.0134	0.0077
Mercury	80255-04-02 13:56 G	31033687.92	31033688.08	31033688.24	0.0134	0.0054
Mercury	80255-06-29 19:27 G	31033776.14	31033776.31	31033776.48	0.0134	0.0031
Mercury	80255-09-26 00:58 G	31033864.37	31033864.54	31033864.71	0.0134	0.0009
Mercury	80255-12-23 06:29 G	31033952.60	31033952.77	31033952.94	0.0134	0.0014
Mercury	80256-03-20 11:46 G	31034040.83	31034040.99	31034041.16	0.0134	0.0037
Mercury	80256-06-16 17:03 G	31034129.06	31034129.21	31034129.37	0.0134	0.0059
Mercury	80256-09-12 22:20 G	31034217.30	31034217.43	31034217.57	0.0134	0.0081
Mercury	80256-12-10 03:36 G	31034305.55	31034305.65	31034305.76	0.0134	0.0103
Mercury	80257-03-08 08:39 G	31034393.82	31034393.86	31034393.94	0.0134	0.0125
Mars	80268-03-05 04:34 G	31038408.37	31038408.69	31038409.02	0.0137	0.0015
Earth	80283-04-01 19:27 G	31043914.14	31043914.31	31043914.50	0.0142	0.0098
Moon	80283-04-01 22:34 G	31043914.26	31043914.44	31043914.64	0.0142	0.0091 *
Moon	80284-04-05 15:22 G	31044283.89	31044284.14	31044284.38	0.0142	0.0049
Earth	80284-04-05 18:00 G	31044284.02	31044284.25	31044284.50	0.0142	0.0045 *
Earth	80285-04-10 17:17 G	31044653.97	31044654.22	31044654.48	0.0143	0.0011
Moon	80285-04-10 19:27 G	31044654.06	31044654.31	31044654.56	0.0143	0.0008 *
Moon	80286-04-15 14:53 G	31045023.90	31045024.12	31045024.36	0.0143	0.0070

Earth	80286-04-15 17:03 G	31045023.99	31045024.21	31045024.45	0.0143	0.0065	*
Earth	80287-04-20 17:32 G	31045394.10	31045394.23	31045394.38	0.0143	0.0121	
Moon	80287-04-20 18:29 G	31045394.12	31045394.27	31045394.42	0.0143	0.0114	*
Venus	80288-08-11 08:53 G	31045872.77	31045872.87	31045873.01	0.0144	0.0119	
Venus	80289-03-25 21:36 G	31046099.23	31046099.40	31046099.60	0.0144	0.0079	
Venus	80289-11-07 10:20 G	31046325.72	31046325.93	31046326.15	0.0144	0.0039	
Venus	80290-06-21 23:03 G	31046552.24	31046552.46	31046552.68	0.0144	0.0001	
Venus	80291-02-03 11:32 G	31046778.78	31046778.98	31046779.20	0.0144	0.0042	
Venus	80291-09-18 00:15 G	31047005.34	31047005.51	31047005.70	0.0144	0.0081	
Venus	80292-05-01 12:44 G	31047231.93	31047232.03	31047232.16	0.0144	0.0121	
Mercury	80296-01-17 05:03 G	31048587.67	31048587.71	31048587.77	0.0144	0.0136	
Mercury	80296-04-14 09:22 G	31048675.81	31048675.89	31048675.99	0.0144	0.0113	
Mercury	80296-07-11 13:41 G	31048763.97	31048764.07	31048764.20	0.0144	0.0090	
Mercury	80296-10-07 18:15 G	31048852.14	31048852.26	31048852.40	0.0144	0.0066	
Mercury	80297-01-03 22:48 G	31048940.31	31048940.45	31048940.59	0.0144	0.0042	
Mercury	80297-04-02 03:22 G	31049028.50	31049028.64	31049028.78	0.0144	0.0018	
Mercury	80297-06-29 07:56 G	31049116.68	31049116.83	31049116.97	0.0144	0.0007	
Mercury	80297-09-25 12:15 G	31049204.87	31049205.01	31049205.16	0.0144	0.0031	
Mercury	80297-12-22 16:48 G	31049293.07	31049293.20	31049293.34	0.0144	0.0055	
Mercury	80298-03-20 21:36 G	31049381.28	31049381.40	31049381.52	0.0144	0.0079	
Mercury	80298-06-17 01:56 G	31049469.49	31049469.58	31049469.69	0.0144	0.0104	
Mercury	80298-09-13 06:29 G	31049557.72	31049557.77	31049557.85	0.0144	0.0129	
Mars	80308-09-14 13:12 G	31053210.79	31053211.05	31053211.34	0.0142	0.0046	
Moon	80322-10-02 03:22 G	31058341.57	31058341.64	31058341.72	0.0136	0.0130	
Earth	80322-10-02 05:03 G	31058341.66	31058341.71	31058341.80	0.0136	0.0130	*
Earth	80323-10-06 15:36 G	31058710.97	31058711.15	31058711.36	0.0136	0.0084	
Moon	80323-10-06 17:17 G	31058711.05	31058711.22	31058711.42	0.0136	0.0088	*
Moon	80324-10-09 23:46 G	31059080.24	31059080.49	31059080.75	0.0136	0.0032	
Earth	80324-10-10 01:27 G	31059080.33	31059080.56	31059080.82	0.0136	0.0038	*
Earth	80325-10-14 11:03 G	31059449.71	31059449.96	31059450.21	0.0135	0.0009	

Moon	80325-10-14 12:15 G	31059449.76	31059450.01	31059450.25	0.0135	0.0002 *
Moon	80326-10-18 18:29 G	31059819.03	31059819.27	31059819.50	0.0135	0.0062
Earth	80326-10-18 19:41 G	31059819.10	31059819.32	31059819.56	0.0135	0.0055 *
Earth	80327-10-23 03:51 G	31060188.50	31060188.66	31060188.84	0.0135	0.0100
Moon	80327-10-23 04:34 G	31060188.54	31060188.69	31060188.88	0.0135	0.0096 *
Venus	80329-07-10 22:05 G	31060815.30	31060815.42	31060815.54	0.0135	0.0110
Venus	80330-02-22 02:53 G	31061041.46	31061041.62	31061041.81	0.0135	0.0079
Venus	80330-10-06 08:10 G	31061267.64	31061267.84	31061268.04	0.0134	0.0047
Venus	80331-05-20 13:12 G	31061493.83	31061494.05	31061494.26	0.0134	0.0016
Venus	80332-01-01 18:00 G	31061720.04	31061720.25	31061720.46	0.0134	0.0016
Venus	80332-08-14 22:48 G	31061946.26	31061946.45	31061946.66	0.0134	0.0048
Venus	80333-03-29 03:22 G	31062172.48	31062172.64	31062172.83	0.0134	0.0079
Venus	80333-11-10 08:10 G	31062398.73	31062398.84	31062398.98	0.0134	0.0110
Mercury	80338-08-02 05:03 G	31064124.62	31064124.71	31064124.80	0.0134	0.0113
Mercury	80338-10-29 10:34 G	31064212.82	31064212.94	31064213.07	0.0134	0.0090
Mercury	80339-01-25 16:05 G	31064301.03	31064301.17	31064301.33	0.0134	0.0067
Mercury	80339-04-23 21:51 G	31064389.25	31064389.41	31064389.57	0.0134	0.0044
Mercury	80339-07-21 03:22 G	31064477.47	31064477.64	31064477.81	0.0134	0.0021
Mercury	80339-10-17 08:53 G	31064565.70	31064565.87	31064566.04	0.0134	0.0002
Mercury	80340-01-13 14:10 G	31064653.93	31064654.09	31064654.26	0.0134	0.0024
Mercury	80340-04-10 19:41 G	31064742.16	31064742.32	31064742.48	0.0134	0.0046
Mercury	80340-07-08 00:44 G	31064830.40	31064830.53	31064830.69	0.0134	0.0070
Mercury	80340-10-04 06:15 G	31064918.64	31064918.76	31064918.89	0.0134	0.0091
Mercury	80340-12-31 11:17 G	31065006.90	31065006.97	31065007.07	0.0134	0.0113
Mars	80352-10-30 22:20 G	31069328.34	31069328.43	31069328.55	0.0137	0.0129
Moon	80366-03-29 05:17 G	31074225.67	31074225.72	31074225.80	0.0142	0.0137
Earth	80367-04-03 06:44 G	31074595.59	31074595.78	31074595.98	0.0142	0.0092
Moon	80367-04-03 10:05 G	31074595.74	31074595.92	31074596.10	0.0142	0.0099 *
Moon	80368-04-07 02:10 G	31074965.34	31074965.59	31074965.84	0.0142	0.0034
Earth	80368-04-07 05:03 G	31074965.47	31074965.71	31074965.96	0.0142	0.0039 *

Earth	80369-04-12 04:05 G	31075335.42	31075335.67	31075335.93	0.0143	0.0016
Moon	80369-04-12 06:58 G	31075335.54	31075335.79	31075336.04	0.0143	0.0016 *
Moon	80370-04-17 01:27 G	31075705.35	31075705.56	31075705.81	0.0143	0.0067
Earth	80370-04-17 03:36 G	31075705.44	31075705.65	31075705.88	0.0143	0.0072 *
Earth	80371-04-22 03:36 G	31076075.55	31076075.65	31076075.79	0.0143	0.0127
Moon	80371-04-22 05:46 G	31076075.67	31076075.74	31076075.83	0.0143	0.0135 *
Venus	80372-04-11 15:22 G	31076431.08	31076431.14	31076431.21	0.0143	0.0136
Venus	80372-11-24 03:36 G	31076657.50	31076657.65	31076657.82	0.0144	0.0097
Venus	80373-07-08 16:05 G	31076883.98	31076884.17	31076884.38	0.0144	0.0058
Venus	80374-02-20 04:48 G	31077110.49	31077110.70	31077110.92	0.0144	0.0018
Venus	80374-10-04 17:32 G	31077337.01	31077337.23	31077337.45	0.0144	0.0022
Venus	80375-05-19 06:00 G	31077563.55	31077563.75	31077563.95	0.0144	0.0062
Venus	80375-12-31 18:29 G	31077790.13	31077790.27	31077790.43	0.0144	0.0102
Venus	80376-08-14 06:58 G	31078016.78	31078016.79	31078016.84	0.0144	0.0143
Mercury	80380-02-07 12:29 G	31079288.96	31079289.02	31079289.09	0.0144	0.0128
Mercury	80380-05-05 16:48 G	31079377.11	31079377.20	31079377.30	0.0144	0.0105
Mercury	80380-08-01 21:08 G	31079465.27	31079465.38	31079465.50	0.0144	0.0082
Mercury	80380-10-29 01:41 G	31079553.44	31079553.57	31079553.70	0.0144	0.0058
Mercury	80381-01-25 06:00 G	31079641.62	31079641.75	31079641.90	0.0144	0.0035
Mercury	80381-04-23 10:34 G	31079729.80	31079729.94	31079730.09	0.0144	0.0011
Mercury	80381-07-20 15:08 G	31079817.99	31079818.13	31079818.28	0.0144	0.0013
Mercury	80381-10-16 19:41 G	31079906.18	31079906.32	31079906.46	0.0144	0.0038
Mercury	80382-01-13 00:15 G	31079994.38	31079994.51	31079994.64	0.0144	0.0062
Mercury	80382-04-11 04:48 G	31080082.59	31080082.70	31080082.82	0.0144	0.0086
Mercury	80382-07-08 09:22 G	31080170.80	31080170.89	31080170.99	0.0144	0.0111
Mercury	80382-10-04 13:56 G	31080259.04	31080259.08	31080259.14	0.0144	0.0136
Moon	80406-10-02 14:10 G	31089023.01	31089023.09	31089023.22	0.0136	0.0125
Earth	80406-10-02 17:17 G	31089023.13	31089023.22	31089023.33	0.0136	0.0125 *
Earth	80407-10-07 03:36 G	31089392.46	31089392.65	31089392.87	0.0136	0.0078
Moon	80407-10-07 06:00 G	31089392.56	31089392.75	31089392.96	0.0136	0.0075 *

Moon	80408-10-10 11:46 G	31089761.75	31089761.99	31089762.25	0.0136	0.0038
Earth	80408-10-10 13:56 G	31089761.84	31089762.08	31089762.33	0.0136	0.0031 *
Earth	80409-10-14 23:17 G	31090131.23	31090131.47	31090131.73	0.0135	0.0016
Moon	80409-10-15 01:27 G	31090131.33	31090131.56	31090131.81	0.0135	0.0023 *
Moon	80410-10-19 06:44 G	31090500.55	31090500.78	31090501.02	0.0135	0.0055
Earth	80410-10-19 08:10 G	31090500.62	31090500.84	31090501.07	0.0135	0.0062 *
Earth	80411-10-23 16:34 G	31090870.04	31090870.19	31090870.34	0.0135	0.0106
Moon	80411-10-23 18:15 G	31090870.13	31090870.26	31090870.40	0.0135	0.0112 *
Venus	80413-03-10 09:22 G	31091373.82	31091373.89	31091373.99	0.0135	0.0123
Venus	80413-10-22 14:24 G	31091599.96	31091600.10	31091600.27	0.0135	0.0092
Venus	80414-06-05 19:41 G	31091826.13	31091826.32	31091826.51	0.0135	0.0060
Venus	80415-01-18 00:29 G	31092052.32	31092052.52	31092052.74	0.0134	0.0029
Venus	80415-09-01 05:46 G	31092278.52	31092278.74	31092278.95	0.0134	0.0003
Venus	80416-04-14 10:34 G	31092504.73	31092504.94	31092505.15	0.0134	0.0034
Venus	80416-11-26 15:08 G	31092730.95	31092731.13	31092731.33	0.0134	0.0066
Venus	80417-07-10 19:56 G	31092957.19	31092957.33	31092957.49	0.0134	0.0097
Venus	80418-02-22 00:29 G	31093183.48	31093183.52	31093183.60	0.0134	0.0128
Mercury	80422-05-26 06:58 G	31094737.74	31094737.79	31094737.85	0.0134	0.0127
Mercury	80422-08-22 12:29 G	31094825.93	31094826.02	31094826.14	0.0134	0.0104
Mercury	80422-11-18 18:15 G	31094914.13	31094914.26	31094914.41	0.0134	0.0081
Mercury	80423-02-15 00:00 G	31095002.35	31095002.50	31095002.66	0.0134	0.0057
Mercury	80423-05-14 05:32 G	31095090.57	31095090.73	31095090.90	0.0134	0.0035
Mercury	80423-08-10 11:03 G	31095178.79	31095178.96	31095179.13	0.0134	0.0012
Mercury	80423-11-06 16:34 G	31095267.02	31095267.19	31095267.36	0.0134	0.0011
Mercury	80424-02-02 21:51 G	31095355.25	31095355.41	31095355.58	0.0134	0.0034
Mercury	80424-05-01 03:22 G	31095443.49	31095443.64	31095443.80	0.0134	0.0056
Mercury	80424-07-28 08:39 G	31095531.73	31095531.86	31095532.00	0.0134	0.0078
Mercury	80424-10-24 13:56 G	31095619.98	31095620.08	31095620.20	0.0134	0.0100
Mercury	80425-01-20 19:12 G	31095708.24	31095708.30	31095708.38	0.0134	0.0122
Mars	80435-07-23 15:36 G	31099543.90	31099544.15	31099544.41	0.0136	0.0085

Earth	80450-03-29 19:27 G	31104907.29	31104907.31	31104907.37	0.0142	0.0140
Earth	80451-04-03 16:48 G	31105277.02	31105277.20	31105277.42	0.0142	0.0087
Moon	80451-04-03 20:39 G	31105277.16	31105277.36	31105277.58	0.0142	0.0079 *
Moon	80452-04-07 11:46 G	31105646.75	31105646.99	31105647.25	0.0142	0.0039
Earth	80452-04-07 15:22 G	31105646.90	31105647.14	31105647.40	0.0142	0.0033 *
Earth	80453-04-12 14:10 G	31106016.84	31106017.09	31106017.35	0.0143	0.0023
Moon	80453-04-12 17:17 G	31106016.97	31106017.22	31106017.46	0.0143	0.0022 *
Moon	80454-04-17 10:20 G	31106386.73	31106386.93	31106387.16	0.0143	0.0081
Earth	80454-04-17 13:27 G	31106386.86	31106387.06	31106387.29	0.0143	0.0078 *
Earth	80455-04-22 13:27 G	31106756.99	31106757.06	31106757.18	0.0143	0.0134
Moon	80455-04-22 15:36 G	31106757.05	31106757.15	31106757.28	0.0143	0.0127 *
Venus	80456-07-24 09:36 G	31107215.77	31107215.90	31107216.03	0.0144	0.0115
Venus	80457-03-07 22:05 G	31107442.24	31107442.42	31107442.61	0.0144	0.0076
Venus	80457-10-20 10:34 G	31107668.73	31107668.94	31107669.16	0.0144	0.0036
Venus	80458-06-03 23:03 G	31107895.24	31107895.46	31107895.68	0.0144	0.0004
Venus	80459-01-16 11:32 G	31108121.78	31108121.98	31108122.20	0.0144	0.0044
Venus	80459-08-31 00:00 G	31108348.34	31108348.50	31108348.70	0.0144	0.0084
Venus	80460-04-13 12:58 G	31108574.94	31108575.04	31108575.16	0.0144	0.0124
Mercury	80464-02-27 19:41 G	31109990.25	31109990.32	31109990.40	0.0144	0.0122
Mercury	80464-05-26 00:00 G	31110078.40	31110078.50	31110078.61	0.0144	0.0098
Mercury	80464-08-22 04:20 G	31110166.57	31110166.68	31110166.81	0.0144	0.0075
Mercury	80464-11-18 08:53 G	31110254.74	31110254.87	31110255.01	0.0144	0.0051
Mercury	80465-02-14 13:27 G	31110342.92	31110343.06	31110343.20	0.0144	0.0028
Mercury	80465-05-13 17:46 G	31110431.10	31110431.24	31110431.39	0.0144	0.0005
Mercury	80465-08-09 22:20 G	31110519.29	31110519.43	31110519.58	0.0144	0.0021
Mercury	80465-11-06 02:53 G	31110607.48	31110607.62	31110607.76	0.0144	0.0045
Mercury	80466-02-02 07:27 G	31110695.68	31110695.81	31110695.94	0.0144	0.0069
Mercury	80466-05-01 11:46 G	31110783.89	31110783.99	31110784.11	0.0144	0.0095
Mercury	80466-07-28 16:34 G	31110872.12	31110872.19	31110872.28	0.0144	0.0118
Mercury	80466-10-24 21:08 G	31110960.38	31110960.38	31110960.41	0.0144	0.0143

Mars	80476-02-02 01:56 G	31114347.31	31114347.58	31114347.87	0.0142	0.0033
Moon	80490-10-03 02:39 G	31119704.50	31119704.61	31119704.74	0.0136	0.0120
Earth	80490-10-03 05:32 G	31119704.61	31119704.73	31119704.86	0.0136	0.0119 *
Earth	80491-10-07 16:05 G	31120073.97	31120074.17	31120074.40	0.0136	0.0072
Moon	80491-10-07 18:44 G	31120074.09	31120074.28	31120074.50	0.0136	0.0076 *
Moon	80492-10-10 23:46 G	31120443.23	31120443.49	31120443.74	0.0136	0.0020
Earth	80492-10-11 02:24 G	31120443.36	31120443.60	31120443.85	0.0136	0.0025 *
Earth	80493-10-15 12:00 G	31120812.75	31120813.00	31120813.25	0.0136	0.0022
Moon	80493-10-15 14:10 G	31120812.84	31120813.09	31120813.33	0.0136	0.0015 *
Moon	80494-10-19 18:00 G	31121182.05	31121182.25	31121182.48	0.0135	0.0076
Earth	80494-10-19 20:53 G	31121182.16	31121182.37	31121182.59	0.0135	0.0068 *
Earth	80495-10-24 04:48 G	31121551.57	31121551.70	31121551.84	0.0135	0.0113
Moon	80495-10-24 06:44 G	31121551.64	31121551.78	31121551.93	0.0135	0.0108 *
Venus	80497-06-22 01:56 G	31122158.46	31122158.58	31122158.73	0.0135	0.0105
Venus	80498-02-03 07:12 G	31122384.62	31122384.80	31122384.98	0.0135	0.0073
Venus	80498-09-17 12:15 G	31122610.81	31122611.01	31122611.22	0.0135	0.0042
Venus	80499-05-01 17:17 G	31122837.01	31122837.22	31122837.44	0.0134	0.0010
Venus	80499-12-13 22:05 G	31123063.21	31123063.42	31123063.64	0.0134	0.0022
Venus	80500-07-28 02:53 G	31123289.43	31123289.62	31123289.83	0.0134	0.0053
Venus	80501-03-11 07:41 G	31123515.67	31123515.82	31123516.00	0.0134	0.0085
Venus	80501-10-23 12:29 G	31123741.93	31123742.02	31123742.14	0.0134	0.0116
Mercury	80506-06-16 14:53 G	31125439.04	31125439.12	31125439.20	0.0134	0.0117
Mercury	80506-09-12 20:24 G	31125527.24	31125527.35	31125527.48	0.0134	0.0094
Mercury	80506-12-10 02:10 G	31125615.45	31125615.59	31125615.74	0.0134	0.0071
Mercury	80507-03-08 07:41 G	31125703.67	31125703.82	31125703.99	0.0134	0.0048
Mercury	80507-06-04 13:27 G	31125791.89	31125792.06	31125792.23	0.0134	0.0025
Mercury	80507-08-31 18:58 G	31125880.12	31125880.29	31125880.46	0.0134	0.0002
Mercury	80507-11-28 00:29 G	31125968.35	31125968.52	31125968.69	0.0134	0.0021
Mercury	80508-02-24 05:46 G	31126056.58	31126056.74	31126056.91	0.0134	0.0043
Mercury	80508-05-22 11:03 G	31126144.82	31126144.96	31126145.12	0.0134	0.0066

Mercury	80508-08-18 16:20 G	31126233.07	31126233.18	31126233.32	0.0134	0.0088
Mercury	80508-11-14 21:36 G	31126321.32	31126321.40	31126321.51	0.0134	0.0110
Mercury	80509-02-11 03:08 G	31126409.60	31126409.63	31126409.66	0.0134	0.0131
Mars	80520-03-19 08:53 G	31130463.60	31130463.87	31130464.19	0.0136	0.0059
Moon	80534-03-31 02:53 G	31135588.53	31135588.62	31135588.75	0.0142	0.0127
Earth	80534-03-31 06:58 G	31135588.72	31135588.79	31135588.88	0.0142	0.0134 *
Earth	80535-04-05 04:05 G	31135958.47	31135958.67	31135958.89	0.0142	0.0081
Moon	80535-04-05 07:41 G	31135958.63	31135958.82	31135959.02	0.0142	0.0088 *
Moon	80536-04-08 22:34 G	31136328.19	31136328.44	31136328.70	0.0142	0.0022
Earth	80536-04-09 02:10 G	31136328.34	31136328.59	31136328.85	0.0142	0.0027 *
Earth	80537-04-14 00:29 G	31136698.28	31136698.52	31136698.78	0.0143	0.0028
Moon	80537-04-14 04:05 G	31136698.42	31136698.67	31136698.92	0.0143	0.0026 *
Moon	80538-04-18 21:08 G	31137068.16	31137068.38	31137068.60	0.0143	0.0079
Earth	80538-04-19 00:00 G	31137068.29	31137068.50	31137068.71	0.0143	0.0083 *
Earth	80539-04-23 23:46 G	31137438.43	31137438.49	31137438.56	0.0143	0.0138
Venus	80540-03-24 15:22 G	31137774.06	31137774.14	31137774.23	0.0143	0.0133
Venus	80540-11-06 03:36 G	31138000.49	31138000.65	31138000.82	0.0143	0.0094
Venus	80541-06-20 15:51 G	31138226.97	31138227.16	31138227.37	0.0144	0.0055
Venus	80542-02-02 04:34 G	31138453.47	31138453.69	31138453.91	0.0144	0.0015
Venus	80542-09-16 17:03 G	31138680.00	31138680.21	31138680.43	0.0144	0.0025
Venus	80543-05-01 05:32 G	31138906.54	31138906.73	31138906.93	0.0144	0.0065
Venus	80543-12-13 18:00 G	31139133.11	31139133.25	31139133.41	0.0144	0.0105
Mercury	80547-12-22 22:34 G	31140603.41	31140603.44	31140603.48	0.0144	0.0139
Mercury	80548-03-20 02:53 G	31140691.54	31140691.62	31140691.70	0.0144	0.0116
Mercury	80548-06-16 07:12 G	31140779.69	31140779.80	31140779.91	0.0144	0.0092
Mercury	80548-09-12 11:32 G	31140867.86	31140867.98	31140868.11	0.0144	0.0069
Mercury	80548-12-09 16:05 G	31140956.03	31140956.17	31140956.30	0.0144	0.0046
Mercury	80549-03-07 20:24 G	31141044.21	31141044.35	31141044.49	0.0144	0.0022
Mercury	80549-06-04 00:58 G	31141132.39	31141132.54	31141132.68	0.0144	0.0004
Mercury	80549-08-31 05:17 G	31141220.58	31141220.72	31141220.87	0.0144	0.0027

Mercury	80549-11-27 09:51 G	31141308.78	31141308.91	31141309.05	0.0144	0.0051
Mercury	80550-02-23 14:24 G	31141396.98	31141397.10	31141397.23	0.0144	0.0075
Mercury	80550-05-22 18:58 G	31141485.19	31141485.29	31141485.40	0.0144	0.0099
Mercury	80550-08-18 23:32 G	31141573.41	31141573.48	31141573.56	0.0144	0.0124
Mars	80560-09-27 20:10 G	31145266.15	31145266.34	31145266.57	0.0142	0.0099
Moon	80574-10-04 12:00 G	31150385.87	31150386.00	31150386.16	0.0137	0.0113
Earth	80574-10-04 15:22 G	31150386.02	31150386.14	31150386.30	0.0137	0.0115 *
Earth	80575-10-09 02:10 G	31150755.39	31150755.59	31150755.83	0.0136	0.0068
Moon	80575-10-09 05:32 G	31150755.52	31150755.73	31150755.95	0.0136	0.0065 *
Moon	80576-10-12 10:05 G	31151124.67	31151124.92	31151125.18	0.0136	0.0025
Earth	80576-10-12 12:58 G	31151124.79	31151125.04	31151125.29	0.0136	0.0020 *
Earth	80577-10-16 22:34 G	31151494.20	31151494.44	31151494.69	0.0136	0.0027
Moon	80577-10-17 01:41 G	31151494.33	31151494.57	31151494.81	0.0136	0.0034 *
Moon	80578-10-21 04:48 G	31151863.48	31151863.70	31151863.93	0.0135	0.0066
Earth	80578-10-21 07:27 G	31151863.60	31151863.81	31151864.03	0.0135	0.0074 *
Earth	80579-10-25 15:08 G	31152233.04	31152233.13	31152233.28	0.0135	0.0120
Moon	80579-10-25 18:15 G	31152233.18	31152233.26	31152233.36	0.0135	0.0126 *
Venus	80581-02-20 12:29 G	31152716.93	31152717.02	31152717.13	0.0135	0.0118
Venus	80581-10-04 17:32 G	31152943.08	31152943.23	31152943.41	0.0135	0.0087
Venus	80582-05-18 22:48 G	31153169.26	31153169.45	31153169.65	0.0135	0.0055
Venus	80582-12-31 03:51 G	31153395.46	31153395.66	31153395.88	0.0135	0.0024
Venus	80583-08-14 09:08 G	31153621.67	31153621.88	31153622.10	0.0135	0.0008
Venus	80584-03-27 14:10 G	31153847.88	31153848.09	31153848.29	0.0134	0.0040
Venus	80584-11-08 18:44 G	31154074.11	31154074.28	31154074.48	0.0134	0.0071
Venus	80585-06-22 23:32 G	31154300.36	31154300.48	31154300.63	0.0134	0.0102
Venus	80586-02-04 04:20 G	31154526.67	31154526.68	31154526.72	0.0134	0.0133
Mercury	80590-04-09 16:34 G	31156052.17	31156052.19	31156052.23	0.0134	0.0132
Mercury	80590-07-06 22:20 G	31156140.34	31156140.43	31156140.54	0.0134	0.0108
Mercury	80590-10-03 04:05 G	31156228.54	31156228.67	31156228.81	0.0134	0.0085
Mercury	80590-12-30 09:36 G	31156316.76	31156316.90	31156317.07	0.0134	0.0062

Mercury	80591-03-28 15:22 G	31156404.98	31156405.14	31156405.31	0.0134	0.0039
Mercury	80591-06-24 21:08 G	31156493.21	31156493.38	31156493.55	0.0134	0.0016
Mercury	80591-09-21 02:39 G	31156581.44	31156581.61	31156581.78	0.0134	0.0007
Mercury	80591-12-18 07:56 G	31156669.67	31156669.83	31156670.00	0.0134	0.0030
Mercury	80592-03-15 13:27 G	31156757.91	31156758.06	31156758.22	0.0134	0.0052
Mercury	80592-06-11 18:58 G	31156846.15	31156846.29	31156846.43	0.0134	0.0074
Mercury	80592-09-08 00:15 G	31156934.40	31156934.51	31156934.63	0.0134	0.0097
Mercury	80592-12-05 05:32 G	31157022.66	31157022.73	31157022.81	0.0134	0.0118
Moon	80618-04-01 16:20 G	31166270.12	31166270.18	31166270.27	0.0142	0.0135
Earth	80618-04-01 19:27 G	31166270.22	31166270.31	31166270.44	0.0142	0.0128 *
Earth	80619-04-06 16:34 G	31166639.99	31166640.19	31166640.42	0.0142	0.0075
Moon	80619-04-06 20:24 G	31166640.14	31166640.35	31166640.59	0.0142	0.0067 *
Moon	80620-04-10 11:03 G	31167009.71	31167009.96	31167010.21	0.0142	0.0026
Earth	80620-04-10 14:24 G	31167009.86	31167010.10	31167010.36	0.0142	0.0021 *
Earth	80621-04-15 12:58 G	31167379.79	31167380.04	31167380.29	0.0143	0.0035
Moon	80621-04-15 16:20 G	31167379.94	31167380.18	31167380.43	0.0143	0.0036 *
Moon	80622-04-20 08:10 G	31167749.65	31167749.84	31167750.05	0.0143	0.0092
Earth	80622-04-20 12:00 G	31167749.81	31167750.00	31167750.20	0.0143	0.0090 *
Moon	80623-04-25 14:10 G	31168120.05	31168120.09	31168120.17	0.0143	0.0139
Venus	80624-07-07 10:34 G	31168558.81	31168558.94	31168559.09	0.0143	0.0111
Venus	80625-02-18 23:03 G	31168785.28	31168785.46	31168785.66	0.0143	0.0072
Venus	80625-10-03 11:17 G	31169011.77	31169011.97	31169012.20	0.0144	0.0033
Venus	80626-05-18 00:00 G	31169238.28	31169238.50	31169238.72	0.0144	0.0008
Venus	80626-12-30 12:29 G	31169464.81	31169465.02	31169465.23	0.0144	0.0047
Venus	80627-08-14 00:58 G	31169691.37	31169691.54	31169691.72	0.0144	0.0087
Venus	80628-03-27 13:27 G	31169917.98	31169918.06	31169918.18	0.0144	0.0127
Jupiter	80629-10-06 16:48 G	31170475.96	31170476.20	31170476.51	0.0144	0.0122
Mercury	80632-01-13 06:00 G	31171304.70	31171304.75	31171304.81	0.0144	0.0131
Mercury	80632-04-10 10:20 G	31171392.84	31171392.93	31171393.03	0.0144	0.0108
Mercury	80632-07-07 14:39 G	31171481.00	31171481.11	31171481.23	0.0144	0.0085

Mercury	80632-10-03 18:58 G	31171569.17	31171569.29	31171569.43	0.0144	0.0061
Mercury	80632-12-30 23:32 G	31171657.34	31171657.48	31171657.62	0.0144	0.0038
Mercury	80633-03-29 03:51 G	31171745.52	31171745.66	31171745.81	0.0144	0.0014
Mercury	80633-06-25 08:24 G	31171833.70	31171833.85	31171833.99	0.0144	0.0010
Mercury	80633-09-21 12:44 G	31171921.89	31171922.03	31171922.18	0.0144	0.0034
Mercury	80633-12-18 17:17 G	31172010.09	31172010.22	31172010.36	0.0144	0.0058
Mercury	80634-03-16 21:51 G	31172098.29	31172098.41	31172098.53	0.0144	0.0083
Mercury	80634-06-13 02:24 G	31172186.51	31172186.60	31172186.70	0.0144	0.0107
Mercury	80634-09-09 06:58 G	31172274.74	31172274.79	31172274.86	0.0144	0.0132
Mars	80643-06-23 09:08 G	31175483.73	31175483.88	31175484.07	0.0142	0.0115
Moon	80658-10-05 23:46 G	31181067.34	31181067.49	31181067.64	0.0137	0.0111
Earth	80658-10-06 02:53 G	31181067.48	31181067.62	31181067.78	0.0137	0.0109 *
Earth	80659-10-10 13:56 G	31181436.86	31181437.08	31181437.31	0.0136	0.0061
Moon	80659-10-10 17:17 G	31181437.01	31181437.22	31181437.45	0.0136	0.0064 *
Moon	80660-10-13 21:08 G	31181806.12	31181806.38	31181806.63	0.0136	0.0010
Earth	80660-10-14 00:29 G	31181806.27	31181806.52	31181806.77	0.0136	0.0014 *
Earth	80661-10-18 09:51 G	31182175.67	31182175.91	31182176.16	0.0136	0.0034
Moon	80661-10-18 12:44 G	31182175.80	31182176.03	31182176.28	0.0136	0.0027 *
Moon	80662-10-22 15:22 G	31182544.96	31182545.14	31182545.35	0.0136	0.0087
Earth	80662-10-22 18:44 G	31182545.09	31182545.28	31182545.50	0.0136	0.0080 *
Earth	80663-10-27 02:39 G	31182914.54	31182914.61	31182914.73	0.0135	0.0126
Moon	80663-10-27 05:32 G	31182914.64	31182914.73	31182914.86	0.0135	0.0120 *
Venus	80664-10-21 23:46 G	31183275.44	31183275.49	31183275.53	0.0135	0.0132
Venus	80665-06-05 04:34 G	31183501.56	31183501.69	31183501.85	0.0135	0.0100
Venus	80666-01-17 09:36 G	31183727.73	31183727.90	31183728.10	0.0135	0.0069
Venus	80666-08-31 15:08 G	31183953.93	31183954.13	31183954.34	0.0135	0.0037
Venus	80667-04-14 20:24 G	31184180.13	31184180.35	31184180.56	0.0135	0.0006
Venus	80667-11-27 01:12 G	31184406.34	31184406.55	31184406.77	0.0135	0.0026
Venus	80668-07-10 06:15 G	31184632.57	31184632.76	31184632.96	0.0134	0.0058
Venus	80669-02-21 10:48 G	31184858.81	31184858.95	31184859.13	0.0134	0.0090

Venus	80669-10-05 15:51 G	31185085.08	31185085.16	31185085.27	0.0134	0.0120
Jupiter	80671-09-05 14:24 G	31185784.61	31185785.10	31185785.62	0.0134	0.0020
Mercury	80674-05-01 00:29 G	31186753.45	31186753.52	31186753.59	0.0134	0.0123
Mercury	80674-07-28 06:00 G	31186841.64	31186841.75	31186841.87	0.0134	0.0099
Mercury	80674-10-24 11:46 G	31186929.85	31186929.99	31186930.14	0.0134	0.0076
Mercury	80675-01-20 17:17 G	31187018.07	31187018.22	31187018.39	0.0134	0.0053
Mercury	80675-04-18 23:03 G	31187106.30	31187106.46	31187106.63	0.0134	0.0030
Mercury	80675-07-16 04:48 G	31187194.52	31187194.70	31187194.87	0.0134	0.0007
Mercury	80675-10-12 10:20 G	31187282.76	31187282.93	31187283.10	0.0134	0.0016
Mercury	80676-01-08 15:36 G	31187370.99	31187371.15	31187371.32	0.0134	0.0039
Mercury	80676-04-05 20:53 G	31187459.23	31187459.37	31187459.53	0.0134	0.0062
Mercury	80676-07-03 02:24 G	31187547.47	31187547.60	31187547.74	0.0134	0.0083
Mercury	80676-09-29 07:41 G	31187635.73	31187635.82	31187635.93	0.0134	0.0106
Mercury	80676-12-26 12:58 G	31187724.00	31187724.04	31187724.10	0.0134	0.0127
Mars	80687-08-07 00:15 G	31191599.18	31191599.51	31191599.83	0.0136	0.0008
Moon	80702-04-03 05:46 G	31196951.61	31196951.74	31196951.91	0.0141	0.0114
Earth	80702-04-03 09:22 G	31196951.77	31196951.89	31196952.03	0.0141	0.0121 *
Earth	80703-04-08 06:15 G	31197321.54	31197321.76	31197321.99	0.0142	0.0067
Moon	80703-04-08 09:22 G	31197321.69	31197321.89	31197322.12	0.0142	0.0075 *
Moon	80704-04-12 00:15 G	31197691.26	31197691.51	31197691.77	0.0142	0.0007
Earth	80704-04-12 04:05 G	31197691.41	31197691.67	31197691.92	0.0142	0.0013 *
Earth	80705-04-17 01:56 G	31198061.34	31198061.58	31198061.83	0.0142	0.0042
Moon	80705-04-17 05:32 G	31198061.50	31198061.73	31198061.99	0.0142	0.0040 *
Moon	80706-04-21 21:36 G	31198431.22	31198431.40	31198431.60	0.0143	0.0094
Earth	80706-04-22 01:12 G	31198431.37	31198431.55	31198431.74	0.0143	0.0097 *
Venus	80708-03-07 18:44 G	31199117.18	31199117.28	31199117.38	0.0143	0.0126
Venus	80708-10-20 06:58 G	31199343.62	31199343.79	31199343.96	0.0143	0.0088
Venus	80709-06-03 19:12 G	31199570.09	31199570.30	31199570.51	0.0143	0.0049
Venus	80710-01-16 07:41 G	31199796.60	31199796.82	31199797.04	0.0144	0.0009
Venus	80710-08-30 20:10 G	31200023.13	31200023.34	31200023.56	0.0144	0.0031

Venus	80711-04-14 08:24 G	31200249.67	31200249.85	31200250.06	0.0144	0.0071
Venus	80711-11-26 21:08 G	31200476.25	31200476.38	31200476.53	0.0144	0.0110
Mercury	80716-02-03 13:41 G	31202006.00	31202006.07	31202006.15	0.0144	0.0123
Mercury	80716-05-01 18:00 G	31202094.15	31202094.25	31202094.35	0.0144	0.0099
Mercury	80716-07-28 22:20 G	31202182.31	31202182.43	31202182.55	0.0144	0.0076
Mercury	80716-10-25 02:39 G	31202270.48	31202270.61	31202270.75	0.0144	0.0053
Mercury	80717-01-21 06:58 G	31202358.65	31202358.79	31202358.94	0.0144	0.0030
Mercury	80717-04-19 11:32 G	31202446.84	31202446.98	31202447.12	0.0144	0.0006
Mercury	80717-07-16 15:51 G	31202535.02	31202535.16	31202535.31	0.0144	0.0019
Mercury	80717-10-12 20:24 G	31202623.21	31202623.35	31202623.49	0.0144	0.0042
Mercury	80718-01-09 00:58 G	31202711.41	31202711.54	31202711.67	0.0144	0.0066
Mercury	80718-04-07 05:17 G	31202799.62	31202799.72	31202799.84	0.0144	0.0091
Mercury	80718-07-04 10:05 G	31202887.83	31202887.92	31202888.01	0.0144	0.0115
Mercury	80718-09-30 14:24 G	31202976.08	31202976.10	31202976.14	0.0144	0.0140
Mars	80728-02-17 09:22 G	31206402.60	31206402.89	31206403.18	0.0142	0.0021
Moon	80742-10-07 09:36 G	31211748.74	31211748.90	31211749.08	0.0137	0.0101
Earth	80742-10-07 13:27 G	31211748.90	31211749.06	31211749.23	0.0137	0.0104 *
Earth	80743-10-12 00:00 G	31212118.29	31212118.50	31212118.75	0.0136	0.0057
Moon	80743-10-12 03:36 G	31212118.43	31212118.65	31212118.89	0.0136	0.0056 *
Moon	80744-10-15 07:27 G	31212487.55	31212487.81	31212488.06	0.0136	0.0013
Earth	80744-10-15 10:48 G	31212487.70	31212487.95	31212488.21	0.0136	0.0008 *
Earth	80745-10-19 20:10 G	31212857.11	31212857.34	31212857.59	0.0136	0.0039
Moon	80745-10-20 00:00 G	31212857.26	31212857.50	31212857.74	0.0136	0.0045 *
Moon	80746-10-24 01:56 G	31213226.38	31213226.58	31213226.80	0.0136	0.0078
Earth	80746-10-24 05:03 G	31213226.53	31213226.71	31213226.92	0.0136	0.0086 *
Earth	80747-10-28 13:27 G	31213596.01	31213596.06	31213596.14	0.0135	0.0131
Venus	80749-02-03 14:53 G	31214060.02	31214060.12	31214060.25	0.0135	0.0114
Venus	80749-09-17 20:24 G	31214286.19	31214286.35	31214286.53	0.0135	0.0082
Venus	80750-05-02 01:27 G	31214512.37	31214512.56	31214512.77	0.0135	0.0051
Venus	80750-12-14 06:44 G	31214738.57	31214738.78	31214739.00	0.0135	0.0019

Venus	80751-07-28 12:00 G	31214964.78	31214965.00	31214965.21	0.0135	0.0013
Venus	80752-03-10 16:48 G	31215191.01	31215191.20	31215191.41	0.0134	0.0045
Venus	80752-10-22 21:51 G	31215417.24	31215417.41	31215417.60	0.0134	0.0076
Venus	80753-06-06 02:53 G	31215643.50	31215643.62	31215643.76	0.0134	0.0107
Mercury	80758-05-22 07:41 G	31217454.74	31217454.82	31217454.92	0.0134	0.0115
Mercury	80758-08-18 13:27 G	31217542.94	31217543.06	31217543.19	0.0134	0.0091
Mercury	80758-11-14 18:58 G	31217631.15	31217631.29	31217631.45	0.0134	0.0069
Mercury	80759-02-11 00:58 G	31217719.38	31217719.54	31217719.70	0.0134	0.0045
Mercury	80759-05-10 06:29 G	31217807.60	31217807.77	31217807.94	0.0134	0.0022
Mercury	80759-08-06 12:00 G	31217895.83	31217896.00	31217896.17	0.0134	0.0003
Mercury	80759-11-02 17:32 G	31217984.06	31217984.23	31217984.40	0.0134	0.0024
Mercury	80760-01-29 23:03 G	31218072.30	31218072.46	31218072.62	0.0134	0.0047
Mercury	80760-04-27 04:20 G	31218160.54	31218160.68	31218160.83	0.0134	0.0069
Mercury	80760-07-24 09:36 G	31218248.79	31218248.90	31218249.03	0.0134	0.0092
Mercury	80760-10-20 15:08 G	31218337.05	31218337.13	31218337.22	0.0134	0.0113
Mars	80772-04-02 15:22 G	31222519.07	31222519.14	31222519.24	0.0137	0.0132
Moon	80786-04-03 18:58 G	31227633.18	31227633.29	31227633.43	0.0141	0.0121
Earth	80786-04-03 22:05 G	31227633.27	31227633.42	31227633.57	0.0141	0.0114 *
Earth	80787-04-08 18:44 G	31228003.06	31228003.28	31228003.52	0.0142	0.0061
Moon	80787-04-08 22:05 G	31228003.20	31228003.42	31228003.68	0.0142	0.0053 *
Moon	80788-04-12 12:58 G	31228372.80	31228373.04	31228373.30	0.0142	0.0013
Earth	80788-04-12 16:34 G	31228372.93	31228373.19	31228373.44	0.0142	0.0007 *
Earth	80789-04-17 14:39 G	31228742.87	31228743.11	31228743.35	0.0142	0.0049
Moon	80789-04-17 18:15 G	31228743.03	31228743.26	31228743.51	0.0142	0.0050 *
Moon	80790-04-22 09:51 G	31229112.75	31229112.91	31229113.09	0.0143	0.0105
Earth	80790-04-22 13:41 G	31229112.90	31229113.07	31229113.25	0.0143	0.0104 *
Venus	80791-11-06 02:24 G	31229675.59	31229675.60	31229675.62	0.0143	0.0143
Venus	80792-06-19 14:24 G	31229901.96	31229902.10	31229902.26	0.0143	0.0104
Venus	80793-02-01 02:39 G	31230128.43	31230128.61	31230128.82	0.0143	0.0066
Venus	80793-09-15 15:22 G	31230354.93	31230355.14	31230355.36	0.0143	0.0026

Venus	80794-04-30 03:51 G	31230581.44	31230581.66	31230581.88	0.0144	0.0014
Venus	80794-12-12 16:20 G	31230807.98	31230808.18	31230808.39	0.0144	0.0053
Venus	80795-07-27 04:48 G	31231034.54	31231034.70	31231034.88	0.0144	0.0093
Venus	80796-03-09 17:46 G	31231261.16	31231261.24	31231261.33	0.0144	0.0132
Mercury	80799-11-27 17:17 G	31232619.18	31232619.22	31232619.26	0.0144	0.0136
Mercury	80800-02-23 21:36 G	31232707.31	31232707.40	31232707.48	0.0144	0.0113
Mercury	80800-05-22 01:41 G	31232795.47	31232795.57	31232795.69	0.0144	0.0091
Mercury	80800-08-18 06:00 G	31232883.63	31232883.75	31232883.88	0.0144	0.0067
Mercury	80800-11-14 10:20 G	31232971.80	31232971.93	31232972.08	0.0144	0.0044
Mercury	80801-02-10 14:53 G	31233059.98	31233060.12	31233060.26	0.0144	0.0020
Mercury	80801-05-09 19:12 G	31233148.16	31233148.30	31233148.45	0.0144	0.0006
Mercury	80801-08-05 23:46 G	31233236.35	31233236.49	31233236.63	0.0144	0.0028
Mercury	80801-11-02 04:05 G	31233324.54	31233324.67	31233324.81	0.0144	0.0052
Mercury	80802-01-29 08:39 G	31233412.74	31233412.86	31233412.99	0.0144	0.0076
Mercury	80802-04-27 13:12 G	31233500.95	31233501.05	31233501.16	0.0144	0.0100
Mercury	80802-07-24 17:46 G	31233589.17	31233589.24	31233589.32	0.0144	0.0124
Moon	80826-10-07 21:22 G	31242430.24	31242430.39	31242430.58	0.0137	0.0102
Earth	80826-10-08 01:12 G	31242430.38	31242430.55	31242430.73	0.0137	0.0098 *
Earth	80827-10-12 11:46 G	31242799.77	31242799.99	31242800.24	0.0136	0.0051
Moon	80827-10-12 15:36 G	31242799.93	31242800.15	31242800.39	0.0136	0.0052 *
Moon	80828-10-15 18:58 G	31243169.04	31243169.29	31243169.54	0.0136	0.0001
Earth	80828-10-15 22:34 G	31243169.19	31243169.44	31243169.69	0.0136	0.0003 *
Earth	80829-10-20 07:56 G	31243538.59	31243538.83	31243539.07	0.0136	0.0045
Moon	80829-10-20 11:17 G	31243538.74	31243538.97	31243539.22	0.0136	0.0038 *
Moon	80830-10-24 12:58 G	31243907.88	31243908.04	31243908.23	0.0136	0.0099
Earth	80830-10-24 17:03 G	31243908.02	31243908.21	31243908.40	0.0136	0.0091 *
Moon	80831-10-29 04:05 G	31244277.63	31244277.67	31244277.76	0.0135	0.0131
Venus	80832-10-04 01:56 G	31244618.52	31244618.58	31244618.66	0.0135	0.0127
Venus	80833-05-18 06:58 G	31244844.66	31244844.79	31244844.96	0.0135	0.0096
Venus	80833-12-30 12:29 G	31245070.84	31245071.02	31245071.21	0.0135	0.0064

Venus	80834-08-13 17:46 G	31245297.04	31245297.24	31245297.46	0.0135	0.0033
Venus	80835-03-27 23:03 G	31245523.25	31245523.46	31245523.68	0.0135	0.0001
Venus	80835-11-09 04:05 G	31245749.46	31245749.67	31245749.88	0.0135	0.0031
Venus	80836-06-22 08:53 G	31245975.69	31245975.87	31245976.07	0.0134	0.0062
Venus	80837-02-03 13:56 G	31246201.94	31246202.08	31246202.25	0.0134	0.0093
Venus	80837-09-17 18:58 G	31246428.23	31246428.29	31246428.38	0.0134	0.0124
Mercury	80842-03-15 09:08 G	31248067.86	31248067.88	31248067.94	0.0134	0.0130
Mercury	80842-06-11 15:08 G	31248156.03	31248156.13	31248156.24	0.0134	0.0106
Mercury	80842-09-07 20:39 G	31248244.24	31248244.36	31248244.51	0.0134	0.0084
Mercury	80842-12-05 02:39 G	31248332.46	31248332.61	31248332.77	0.0134	0.0060
Mercury	80843-03-03 08:24 G	31248420.68	31248420.85	31248421.01	0.0134	0.0036
Mercury	80843-05-30 13:56 G	31248508.91	31248509.08	31248509.25	0.0134	0.0013
Mercury	80843-08-26 19:27 G	31248597.14	31248597.31	31248597.48	0.0134	0.0009
Mercury	80843-11-23 00:58 G	31248685.37	31248685.54	31248685.71	0.0134	0.0032
Mercury	80844-02-19 06:29 G	31248773.61	31248773.77	31248773.92	0.0134	0.0055
Mercury	80844-05-17 11:46 G	31248861.86	31248861.99	31248862.13	0.0134	0.0077
Mercury	80844-08-13 17:03 G	31248950.11	31248950.21	31248950.33	0.0134	0.0099
Mercury	80844-11-09 22:20 G	31249038.37	31249038.43	31249038.51	0.0134	0.0122
Mars	80854-12-24 11:17 G	31252734.73	31252734.97	31252735.26	0.0136	0.0079
Moon	80870-04-04 06:44 G	31258314.61	31258314.78	31258314.96	0.0141	0.0102
Earth	80870-04-04 09:08 G	31258314.74	31258314.88	31258315.06	0.0141	0.0109 *
Earth	80871-04-09 06:00 G	31258684.52	31258684.75	31258684.99	0.0142	0.0055
Moon	80871-04-09 08:53 G	31258684.64	31258684.87	31258685.11	0.0142	0.0062 *
Moon	80872-04-13 00:15 G	31259054.26	31259054.51	31259054.76	0.0142	0.0006
Earth	80872-04-13 03:51 G	31259054.40	31259054.66	31259054.91	0.0142	0.0002 *
Earth	80873-04-18 01:41 G	31259424.34	31259424.57	31259424.81	0.0142	0.0055
Moon	80873-04-18 05:03 G	31259424.48	31259424.71	31259424.96	0.0142	0.0052 *
Moon	80874-04-22 21:08 G	31259794.23	31259794.38	31259794.56	0.0143	0.0109
Earth	80874-04-23 00:44 G	31259794.38	31259794.53	31259794.70	0.0143	0.0111 *
Venus	80876-02-17 21:08 G	31260460.28	31260460.38	31260460.52	0.0143	0.0122

Venus	80876-10-01 09:36 G	31260686.73	31260686.90	31260687.09	0.0143	0.0082
Venus	80877-05-15 22:05 G	31260913.21	31260913.42	31260913.64	0.0143	0.0043
Venus	80877-12-28 10:34 G	31261139.72	31261139.94	31261140.16	0.0143	0.0004
Venus	80878-08-11 23:03 G	31261366.25	31261366.46	31261366.68	0.0144	0.0036
Venus	80879-03-26 11:32 G	31261592.81	31261592.98	31261593.18	0.0144	0.0076
Venus	80879-11-08 00:15 G	31261819.39	31261819.51	31261819.65	0.0144	0.0115
Mercury	80883-12-18 00:29 G	31263320.47	31263320.52	31263320.59	0.0144	0.0129
Mercury	80884-03-15 04:48 G	31263408.61	31263408.70	31263408.80	0.0144	0.0106
Mercury	80884-06-11 09:08 G	31263496.77	31263496.88	31263497.00	0.0144	0.0083
Mercury	80884-09-07 13:27 G	31263584.94	31263585.06	31263585.20	0.0144	0.0060
Mercury	80884-12-04 18:00 G	31263673.11	31263673.25	31263673.39	0.0144	0.0036
Mercury	80885-03-02 22:20 G	31263761.29	31263761.43	31263761.58	0.0144	0.0013
Mercury	80885-05-30 02:53 G	31263849.47	31263849.62	31263849.76	0.0144	0.0012
Mercury	80885-08-26 07:12 G	31263937.66	31263937.80	31263937.94	0.0144	0.0035
Mercury	80885-11-22 11:46 G	31264025.86	31264025.99	31264026.12	0.0144	0.0059
Mercury	80886-02-18 16:20 G	31264114.06	31264114.18	31264114.29	0.0144	0.0083
Mercury	80886-05-17 20:39 G	31264202.27	31264202.36	31264202.46	0.0144	0.0108
Mercury	80886-08-14 01:12 G	31264290.50	31264290.55	31264290.61	0.0144	0.0132
Mars	80895-07-06 23:17 G	31267539.21	31267539.47	31267539.75	0.0142	0.0054
Moon	80910-10-09 07:27 G	31273111.64	31273111.81	31273112.02	0.0137	0.0090
Earth	80910-10-09 11:32 G	31273111.80	31273111.98	31273112.16	0.0137	0.0093 *
Earth	80911-10-13 22:05 G	31273481.19	31273481.42	31273481.67	0.0136	0.0045
Moon	80911-10-14 01:41 G	31273481.33	31273481.57	31273481.81	0.0136	0.0045 *
Moon	80912-10-17 05:03 G	31273850.46	31273850.71	31273850.96	0.0136	0.0001
Earth	80912-10-17 08:39 G	31273850.61	31273850.86	31273851.11	0.0136	0.0003 *
Earth	80913-10-21 18:00 G	31274220.02	31274220.25	31274220.49	0.0136	0.0050
Moon	80913-10-21 21:36 G	31274220.18	31274220.40	31274220.64	0.0136	0.0056 *
Moon	80914-10-25 23:17 G	31274589.30	31274589.47	31274589.68	0.0136	0.0090
Earth	80914-10-26 02:53 G	31274589.46	31274589.62	31274589.81	0.0136	0.0097 *
Venus	80917-01-16 17:03 G	31275403.11	31275403.21	31275403.35	0.0135	0.0110

Venus	80917-08-30 22:48 G	31275629.28	31275629.45	31275629.63	0.0135	0.0078
Venus	80918-04-14 04:05 G	31275855.47	31275855.67	31275855.88	0.0135	0.0047
Venus	80918-11-26 09:22 G	31276081.68	31276081.89	31276082.10	0.0135	0.0015
Venus	80919-07-10 14:24 G	31276307.89	31276308.10	31276308.32	0.0135	0.0017
Venus	80920-02-21 19:12 G	31276534.11	31276534.30	31276534.52	0.0134	0.0049
Venus	80920-10-05 00:29 G	31276760.36	31276760.52	31276760.70	0.0134	0.0079
Venus	80921-05-19 05:32 G	31276986.62	31276986.73	31276986.86	0.0134	0.0110
Mercury	80926-04-05 16:34 G	31278769.13	31278769.19	31278769.26	0.0134	0.0123
Mercury	80926-07-02 22:20 G	31278857.32	31278857.43	31278857.55	0.0134	0.0099
Mercury	80926-09-29 03:51 G	31278945.53	31278945.66	31278945.81	0.0134	0.0076
Mercury	80926-12-26 09:51 G	31279033.75	31279033.91	31279034.07	0.0134	0.0053
Mercury	80927-03-24 15:22 G	31279121.97	31279122.14	31279122.31	0.0134	0.0029
Mercury	80927-06-20 21:08 G	31279210.20	31279210.38	31279210.55	0.0134	0.0007
Mercury	80927-09-17 02:39 G	31279298.44	31279298.61	31279298.78	0.0134	0.0017
Mercury	80927-12-14 07:56 G	31279386.67	31279386.83	31279387.00	0.0134	0.0039
Mercury	80928-03-11 13:27 G	31279474.91	31279475.06	31279475.22	0.0134	0.0062
Mercury	80928-06-07 18:44 G	31279563.16	31279563.28	31279563.42	0.0134	0.0084
Mercury	80928-09-04 00:15 G	31279651.41	31279651.51	31279651.62	0.0134	0.0106
Mercury	80928-12-01 05:32 G	31279739.69	31279739.73	31279739.79	0.0134	0.0128
Mars	80939-08-20 21:51 G	31283654.12	31283654.41	31283654.71	0.0136	0.0056
Moon	80954-04-05 16:20 G	31288996.05	31288996.18	31288996.36	0.0141	0.0110
Earth	80954-04-05 18:29 G	31288996.11	31288996.27	31288996.46	0.0141	0.0104 *
Earth	80955-04-10 15:22 G	31289365.91	31289366.14	31289366.38	0.0142	0.0050
Moon	80955-04-10 18:15 G	31289366.01	31289366.26	31289366.51	0.0142	0.0042 *
Moon	80956-04-14 10:20 G	31289735.68	31289735.93	31289736.18	0.0142	0.0002
Earth	80956-04-14 12:58 G	31289735.78	31289736.04	31289736.29	0.0142	0.0005 *
Earth	80957-04-19 11:03 G	31290105.73	31290105.96	31290106.20	0.0142	0.0060
Moon	80957-04-19 14:24 G	31290105.88	31290106.10	31290106.34	0.0142	0.0063 *
Moon	80958-04-24 06:44 G	31290475.64	31290475.78	31290475.93	0.0143	0.0116
Earth	80958-04-24 10:20 G	31290475.78	31290475.93	31290476.08	0.0143	0.0116 *

Venus	80959-10-19 02:53 G	31291018.59	31291018.62	31291018.68	0.0143	0.0139
Venus	80960-06-01 15:22 G	31291244.99	31291245.14	31291245.30	0.0143	0.0100
Venus	80961-01-14 03:36 G	31291471.46	31291471.65	31291471.86	0.0143	0.0062
Venus	80961-08-28 16:05 G	31291697.96	31291698.17	31291698.39	0.0143	0.0023
Venus	80962-04-12 04:34 G	31291924.48	31291924.69	31291924.92	0.0143	0.0018
Venus	80962-11-24 17:03 G	31292151.02	31292151.21	31292151.42	0.0144	0.0057
Venus	80963-07-09 05:32 G	31292377.58	31292377.73	31292377.90	0.0144	0.0096
Venus	80964-02-20 18:29 G	31292604.20	31292604.27	31292604.34	0.0144	0.0135
Mercury	80968-01-08 07:41 G	31294021.75	31294021.82	31294021.90	0.0144	0.0123
Mercury	80968-04-05 12:00 G	31294109.90	31294110.00	31294110.11	0.0144	0.0100
Mercury	80968-07-02 16:20 G	31294198.06	31294198.18	31294198.30	0.0144	0.0077
Mercury	80968-09-28 20:39 G	31294286.23	31294286.36	31294286.50	0.0144	0.0054
Mercury	80968-12-26 00:58 G	31294374.40	31294374.54	31294374.68	0.0144	0.0030
Mercury	80969-03-24 05:32 G	31294462.58	31294462.73	31294462.87	0.0144	0.0007
Mercury	80969-06-20 09:51 G	31294550.77	31294550.91	31294551.05	0.0144	0.0017
Mercury	80969-09-16 14:24 G	31294638.96	31294639.10	31294639.24	0.0144	0.0041
Mercury	80969-12-13 18:44 G	31294727.15	31294727.28	31294727.41	0.0144	0.0065
Mercury	80970-03-11 23:03 G	31294815.36	31294815.46	31294815.58	0.0144	0.0090
Mercury	80970-06-08 03:51 G	31294903.57	31294903.66	31294903.75	0.0144	0.0114
Mercury	80970-09-04 08:10 G	31294991.82	31294991.84	31294991.89	0.0144	0.0139
Mars	80980-03-01 22:20 G	31298458.19	31298458.43	31298458.67	0.0142	0.0080
Earth	80993-10-05 10:20 G	31303423.92	31303423.93	31303423.97	0.0137	0.0136
Moon	80993-10-05 13:27 G	31303424.00	31303424.06	31303424.17	0.0137	0.0129
Moon	80994-10-09 18:44 G	31303793.11	31303793.28	31303793.48	0.0137	0.0092
Earth	80994-10-09 21:51 G	31303793.23	31303793.41	31303793.62	0.0137	0.0088 *
Earth	80995-10-14 08:53 G	31304162.64	31304162.87	31304163.12	0.0136	0.0040
Moon	80995-10-14 12:44 G	31304162.79	31304163.03	31304163.28	0.0136	0.0039 *
Moon	80996-10-17 16:20 G	31304531.93	31304532.18	31304532.43	0.0136	0.0010
Earth	80996-10-17 19:27 G	31304532.06	31304532.31	31304532.57	0.0136	0.0009 *
Earth	80997-10-22 04:48 G	31304901.48	31304901.70	31304901.94	0.0136	0.0056

Moon	80997-10-22 08:10 G	31304901.62	31304901.84	31304902.09	0.0136	0.0050	*
Moon	80998-10-26 10:05 G	31305270.79	31305270.92	31305271.09	0.0136	0.0110	
Earth	80998-10-26 13:41 G	31305270.93	31305271.07	31305271.26	0.0136	0.0103	*
Venus	81000-09-17 04:05 G	31305961.59	31305961.67	31305961.76	0.0135	0.0123	

82ND MILLENNIUM CE

This is a list of transits visible from Uranus in the 82nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	81001-05-01 09:08 G		31306187.74	31306187.88	31306188.05	0.0135	0.0092	
Venus	81001-12-13 14:24 G		31306413.92	31306414.10	31306414.31	0.0135	0.0061	
Venus	81002-07-27 19:56 G		31306640.13	31306640.33	31306640.55	0.0135	0.0029	
Venus	81003-03-11 01:12 G		31306866.34	31306866.55	31306866.77	0.0135	0.0003	
Venus	81003-10-23 06:15 G		31307092.56	31307092.76	31307092.97	0.0134	0.0035	
Venus	81004-06-05 11:17 G		31307318.79	31307318.97	31307319.16	0.0134	0.0066	
Venus	81005-01-17 16:20 G		31307545.04	31307545.18	31307545.33	0.0134	0.0097	
Venus	81005-08-31 21:22 G		31307771.33	31307771.39	31307771.46	0.0134	0.0128	
Mercury	81010-04-26 23:32 G		31309470.41	31309470.48	31309470.58	0.0134	0.0116	
Mercury	81010-07-24 05:32 G		31309558.61	31309558.73	31309558.86	0.0134	0.0092	
Mercury	81010-10-20 11:17 G		31309646.82	31309646.97	31309647.12	0.0134	0.0068	
Mercury	81011-01-16 16:48 G		31309735.05	31309735.20	31309735.37	0.0134	0.0045	
Mercury	81011-04-14 22:34 G		31309823.27	31309823.44	31309823.61	0.0134	0.0022	
Mercury	81011-07-12 04:20 G		31309911.50	31309911.68	31309911.85	0.0134	0.0003	
Mercury	81011-10-08 09:51 G		31309999.74	31309999.91	31310000.08	0.0134	0.0024	

Mercury	81012-01-04 15:22 G	31310087.98	31310088.14	31310088.30	0.0134	0.0047
Mercury	81012-04-01 20:39 G	31310176.22	31310176.36	31310176.51	0.0134	0.0069
Mercury	81012-06-29 02:10 G	31310264.47	31310264.59	31310264.72	0.0134	0.0091
Mercury	81012-09-25 07:41 G	31310352.73	31310352.82	31310352.91	0.0134	0.0114
Moon	81038-04-07 02:10 G	31319677.41	31319677.59	31319677.78	0.0141	0.0094
Earth	81038-04-07 03:22 G	31319677.48	31319677.64	31319677.84	0.0141	0.0100 *
Earth	81039-04-12 00:15 G	31320047.27	31320047.51	31320047.76	0.0142	0.0045
Moon	81039-04-12 02:10 G	31320047.34	31320047.59	31320047.83	0.0142	0.0052 *
Moon	81040-04-15 18:58 G	31320417.05	31320417.29	31320417.55	0.0142	0.0017
Earth	81040-04-15 21:51 G	31320417.15	31320417.41	31320417.67	0.0142	0.0010 *
Earth	81041-04-20 19:56 G	31320787.11	31320787.33	31320787.56	0.0142	0.0066
Moon	81041-04-20 22:34 G	31320787.21	31320787.44	31320787.69	0.0142	0.0061 *
Moon	81042-04-25 15:36 G	31321157.03	31321157.15	31321157.29	0.0143	0.0121
Earth	81042-04-25 18:44 G	31321157.16	31321157.28	31321157.43	0.0143	0.0122 *
Venus	81044-01-31 20:24 G	31321803.24	31321803.35	31321803.48	0.0143	0.0119
Venus	81044-09-14 08:53 G	31322029.69	31322029.87	31322030.06	0.0143	0.0080
Venus	81045-04-28 21:08 G	31322256.18	31322256.38	31322256.60	0.0143	0.0041
Venus	81045-12-11 09:36 G	31322482.68	31322482.90	31322483.12	0.0143	0.0003
Venus	81046-07-25 22:05 G	31322709.21	31322709.42	31322709.64	0.0143	0.0037
Venus	81047-03-09 10:34 G	31322935.76	31322935.94	31322936.14	0.0144	0.0077
Venus	81047-10-21 23:17 G	31323162.34	31323162.47	31323162.60	0.0144	0.0116
Mercury	81051-11-02 10:20 G	31324634.91	31324634.93	31324634.96	0.0144	0.0141
Mercury	81052-01-29 14:39 G	31324723.03	31324723.11	31324723.19	0.0144	0.0118
Mercury	81052-04-26 18:58 G	31324811.18	31324811.29	31324811.40	0.0144	0.0095
Mercury	81052-07-23 23:17 G	31324899.35	31324899.47	31324899.59	0.0144	0.0072
Mercury	81052-10-20 03:22 G	31324987.51	31324987.64	31324987.78	0.0144	0.0049
Mercury	81053-01-16 07:56 G	31325075.69	31325075.83	31325075.97	0.0144	0.0025
Mercury	81053-04-14 12:15 G	31325163.87	31325164.01	31325164.16	0.0144	0.0002
Mercury	81053-07-11 16:34 G	31325252.05	31325252.19	31325252.34	0.0144	0.0023
Mercury	81053-10-07 21:08 G	31325340.24	31325340.38	31325340.52	0.0144	0.0046

Mercury	81054-01-04 01:41 G	31325428.44	31325428.57	31325428.69	0.0144	0.0070
Mercury	81054-04-02 06:00 G	31325516.65	31325516.75	31325516.86	0.0144	0.0095
Mercury	81054-06-29 10:34 G	31325604.86	31325604.94	31325605.03	0.0144	0.0119
Mercury	81054-09-25 15:08 G	31325693.13	31325693.13	31325693.15	0.0144	0.0143
Mars	81062-11-25 01:12 G	31328675.51	31328675.55	31328675.65	0.0142	0.0139
Earth	81077-10-06 18:44 G	31334105.23	31334105.28	31334105.36	0.0137	0.0132
Moon	81078-10-11 03:36 G	31334474.46	31334474.65	31334474.86	0.0137	0.0079
Earth	81078-10-11 06:44 G	31334474.59	31334474.78	31334474.99	0.0137	0.0084 *
Earth	81079-10-15 17:46 G	31334844.00	31334844.24	31334844.49	0.0136	0.0036
Moon	81079-10-15 20:53 G	31334844.13	31334844.37	31334844.62	0.0136	0.0037 *
Moon	81080-10-19 00:58 G	31335213.29	31335213.54	31335213.79	0.0136	0.0010
Earth	81080-10-19 04:20 G	31335213.43	31335213.68	31335213.93	0.0136	0.0013 *
Earth	81081-10-23 13:56 G	31335582.86	31335583.08	31335583.31	0.0136	0.0060
Moon	81081-10-23 17:03 G	31335583.00	31335583.21	31335583.45	0.0136	0.0065 *
Moon	81082-10-27 19:41 G	31335952.17	31335952.32	31335952.50	0.0136	0.0101
Earth	81082-10-27 22:48 G	31335952.32	31335952.45	31335952.63	0.0136	0.0108 *
Venus	81084-12-29 18:58 G	31336746.16	31336746.29	31336746.42	0.0135	0.0106
Venus	81085-08-13 00:15 G	31336972.34	31336972.51	31336972.70	0.0135	0.0075
Venus	81086-03-27 05:46 G	31337198.54	31337198.74	31337198.95	0.0135	0.0043
Venus	81086-11-08 11:03 G	31337424.75	31337424.96	31337425.18	0.0135	0.0012
Venus	81087-06-22 16:20 G	31337650.96	31337651.18	31337651.39	0.0135	0.0020
Venus	81088-02-03 21:08 G	31337877.19	31337877.38	31337877.59	0.0135	0.0052
Venus	81088-09-17 02:10 G	31338103.44	31338103.59	31338103.77	0.0134	0.0083
Venus	81089-05-01 07:12 G	31338329.70	31338329.80	31338329.93	0.0134	0.0114
Mercury	81094-02-18 00:44 G	31340083.52	31340083.53	31340083.57	0.0134	0.0132
Mercury	81094-05-17 06:44 G	31340171.68	31340171.78	31340171.89	0.0134	0.0108
Mercury	81094-08-13 12:15 G	31340259.89	31340260.01	31340260.16	0.0134	0.0086
Mercury	81094-11-09 18:15 G	31340348.11	31340348.26	31340348.42	0.0134	0.0062
Mercury	81095-02-06 00:00 G	31340436.34	31340436.50	31340436.67	0.0134	0.0038
Mercury	81095-05-05 05:46 G	31340524.57	31340524.74	31340524.91	0.0134	0.0015

Mercury	81095-08-01 11:17 G	31340612.80	31340612.97	31340613.14	0.0134	0.0008
Mercury	81095-10-28 16:48 G	31340701.04	31340701.20	31340701.37	0.0134	0.0031
Mercury	81096-01-24 22:20 G	31340789.28	31340789.43	31340789.59	0.0134	0.0054
Mercury	81096-04-22 03:36 G	31340877.52	31340877.65	31340877.80	0.0134	0.0077
Mercury	81096-07-19 09:08 G	31340965.77	31340965.88	31340966.00	0.0134	0.0099
Mercury	81096-10-15 14:39 G	31341054.04	31341054.11	31341054.19	0.0134	0.0121
Mars	81107-01-08 04:48 G	31344789.39	31344789.70	31344790.03	0.0136	0.0018
Moon	81122-04-08 12:29 G	31350358.86	31350359.02	31350359.21	0.0141	0.0099
Earth	81122-04-08 12:58 G	31350358.87	31350359.04	31350359.25	0.0141	0.0095 *
Earth	81123-04-13 09:51 G	31350728.67	31350728.91	31350729.16	0.0142	0.0040
Moon	81123-04-13 11:32 G	31350728.73	31350728.98	31350729.24	0.0142	0.0032 *
Moon	81124-04-17 05:46 G	31351098.49	31351098.74	31351098.98	0.0142	0.0008
Earth	81124-04-17 07:12 G	31351098.55	31351098.80	31351099.06	0.0142	0.0015 *
Earth	81125-04-22 05:03 G	31351468.51	31351468.71	31351468.95	0.0142	0.0071
Moon	81125-04-22 07:41 G	31351468.62	31351468.82	31351469.06	0.0142	0.0076 *
Moon	81126-04-27 01:12 G	31351838.46	31351838.55	31351838.69	0.0143	0.0126
Earth	81126-04-27 04:20 G	31351838.57	31351838.68	31351838.80	0.0143	0.0127 *
Venus	81127-10-02 01:56 G	31352361.53	31352361.58	31352361.66	0.0143	0.0137
Venus	81128-05-15 14:24 G	31352587.94	31352588.10	31352588.26	0.0143	0.0098
Venus	81128-12-28 02:24 G	31352814.41	31352814.60	31352814.81	0.0143	0.0060
Venus	81129-08-11 14:53 G	31353040.90	31353041.12	31353041.34	0.0143	0.0021
Venus	81130-03-26 03:22 G	31353267.42	31353267.64	31353267.86	0.0143	0.0018
Venus	81130-11-07 15:36 G	31353493.96	31353494.15	31353494.36	0.0144	0.0058
Venus	81131-06-22 04:05 G	31353720.51	31353720.67	31353720.84	0.0144	0.0097
Venus	81132-02-03 16:34 G	31353947.13	31353947.19	31353947.27	0.0144	0.0136
Mercury	81135-11-23 17:17 G	31355336.18	31355336.22	31355336.27	0.0144	0.0136
Mercury	81136-02-19 21:36 G	31355424.32	31355424.40	31355424.49	0.0144	0.0113
Mercury	81136-05-18 01:56 G	31355512.47	31355512.58	31355512.69	0.0144	0.0090
Mercury	81136-08-14 06:00 G	31355600.63	31355600.75	31355600.88	0.0144	0.0067
Mercury	81136-11-10 10:20 G	31355688.80	31355688.93	31355689.07	0.0144	0.0044

Mercury	81137-02-06 14:53 G	31355776.98	31355777.12	31355777.26	0.0144	0.0020
Mercury	81137-05-05 19:12 G	31355865.16	31355865.30	31355865.44	0.0144	0.0004
Mercury	81137-08-01 23:32 G	31355953.34	31355953.48	31355953.63	0.0144	0.0028
Mercury	81137-10-29 03:51 G	31356041.53	31356041.66	31356041.80	0.0144	0.0052
Mercury	81138-01-25 08:24 G	31356129.73	31356129.85	31356129.98	0.0144	0.0076
Mercury	81138-04-23 12:58 G	31356217.94	31356218.04	31356218.15	0.0144	0.0100
Mercury	81138-07-20 17:32 G	31356306.16	31356306.23	31356306.31	0.0144	0.0124
Mars	81147-07-21 22:20 G	31359594.14	31359594.43	31359594.73	0.0142	0.0007
Earth	81161-10-08 03:51 G	31364786.59	31364786.66	31364786.76	0.0137	0.0128
Moon	81161-10-08 06:29 G	31364786.66	31364786.77	31364786.90	0.0137	0.0120 *
Moon	81162-10-12 13:27 G	31365155.88	31365156.06	31365156.27	0.0137	0.0085
Earth	81162-10-12 16:05 G	31365155.97	31365156.17	31365156.38	0.0137	0.0079 *
Earth	81163-10-17 03:08 G	31365525.39	31365525.63	31365525.88	0.0137	0.0031
Moon	81163-10-17 06:00 G	31365525.51	31365525.75	31365526.01	0.0137	0.0030 *
Moon	81164-10-20 11:03 G	31365894.72	31365894.96	31365895.21	0.0136	0.0018
Earth	81164-10-20 13:41 G	31365894.82	31365895.07	31365895.33	0.0136	0.0018 *
Earth	81165-10-24 23:03 G	31366264.26	31366264.46	31366264.70	0.0136	0.0066
Moon	81165-10-25 02:39 G	31366264.38	31366264.61	31366264.84	0.0136	0.0060 *
Moon	81166-10-29 05:32 G	31366633.63	31366633.73	31366633.86	0.0136	0.0120
Earth	81166-10-29 08:39 G	31366633.74	31366633.86	31366634.02	0.0136	0.0113 *
Venus	81168-08-30 05:03 G	31367304.61	31367304.71	31367304.80	0.0135	0.0121
Venus	81169-04-13 10:20 G	31367530.78	31367530.93	31367531.10	0.0135	0.0089
Venus	81169-11-25 15:36 G	31367756.96	31367757.15	31367757.35	0.0135	0.0058
Venus	81170-07-09 21:08 G	31367983.17	31367983.38	31367983.59	0.0135	0.0026
Venus	81171-02-21 02:24 G	31368209.38	31368209.60	31368209.81	0.0135	0.0006
Venus	81171-10-05 07:27 G	31368435.61	31368435.81	31368436.02	0.0135	0.0037
Venus	81172-05-18 12:15 G	31368661.84	31368662.01	31368662.21	0.0135	0.0069
Venus	81172-12-30 17:17 G	31368888.09	31368888.22	31368888.38	0.0135	0.0100
Venus	81173-08-13 22:20 G	31369114.40	31369114.43	31369114.49	0.0134	0.0131
Mercury	81178-03-11 07:41 G	31370784.78	31370784.82	31370784.90	0.0134	0.0126

Mercury	81178-06-07 13:41 G	31370872.97	31370873.07	31370873.19	0.0134	0.0102
Mercury	81178-09-03 19:41 G	31370961.18	31370961.32	31370961.46	0.0134	0.0078
Mercury	81178-12-01 01:27 G	31371049.40	31371049.56	31371049.72	0.0134	0.0054
Mercury	81179-02-27 06:58 G	31371137.63	31371137.79	31371137.97	0.0134	0.0032
Mercury	81179-05-26 12:44 G	31371225.86	31371226.03	31371226.21	0.0134	0.0008
Mercury	81179-08-22 18:29 G	31371314.10	31371314.27	31371314.44	0.0134	0.0015
Mercury	81179-11-19 00:00 G	31371402.34	31371402.50	31371402.67	0.0134	0.0038
Mercury	81180-02-15 05:17 G	31371490.58	31371490.72	31371490.88	0.0134	0.0062
Mercury	81180-05-13 11:03 G	31371578.83	31371578.96	31371579.09	0.0134	0.0084
Mercury	81180-08-09 16:20 G	31371667.09	31371667.18	31371667.29	0.0134	0.0106
Mercury	81180-11-05 21:36 G	31371755.37	31371755.40	31371755.46	0.0134	0.0129
Mars	81191-09-03 15:36 G	31375708.98	31375709.15	31375709.31	0.0136	0.0117
Moon	81205-04-04 05:17 G	31380670.72	31380670.72	31380670.72	0.0141	0.0141
Moon	81206-04-09 00:29 G	31381040.34	31381040.52	31381040.73	0.0141	0.0084
Earth	81206-04-09 00:58 G	31381040.35	31381040.54	31381040.75	0.0141	0.0088 *
Earth	81207-04-13 21:36 G	31381410.15	31381410.40	31381410.65	0.0142	0.0034
Moon	81207-04-13 21:51 G	31381410.17	31381410.41	31381410.68	0.0142	0.0041 *
Moon	81208-04-17 17:17 G	31381779.98	31381780.22	31381780.47	0.0142	0.0029
Earth	81208-04-17 18:44 G	31381780.04	31381780.28	31381780.54	0.0142	0.0022 *
Earth	81209-04-22 17:03 G	31382150.00	31382150.21	31382150.43	0.0142	0.0077
Moon	81209-04-22 18:44 G	31382150.06	31382150.28	31382150.51	0.0142	0.0071 *
Moon	81210-04-27 12:58 G	31382519.98	31382520.04	31382520.14	0.0142	0.0135
Earth	81210-04-27 15:22 G	31382520.08	31382520.14	31382520.25	0.0142	0.0134 *
Venus	81212-01-13 21:08 G	31383146.26	31383146.38	31383146.51	0.0143	0.0115
Venus	81212-08-27 09:08 G	31383372.71	31383372.88	31383373.08	0.0143	0.0077
Venus	81213-04-10 21:36 G	31383599.19	31383599.40	31383599.61	0.0143	0.0038
Venus	81213-11-23 09:51 G	31383825.69	31383825.91	31383826.13	0.0143	0.0001
Venus	81214-07-07 22:05 G	31384052.21	31384052.42	31384052.64	0.0143	0.0040
Venus	81215-02-19 10:20 G	31384278.76	31384278.93	31384279.13	0.0144	0.0080
Venus	81215-10-03 22:34 G	31384505.34	31384505.44	31384505.58	0.0144	0.0119

Mercury	81219-12-14 00:44 G	31386037.47	31386037.53	31386037.59	0.0144	0.0129
Mercury	81220-03-11 04:48 G	31386125.61	31386125.70	31386125.80	0.0144	0.0106
Mercury	81220-06-07 09:08 G	31386213.77	31386213.88	31386214.00	0.0144	0.0083
Mercury	81220-09-03 13:27 G	31386301.93	31386302.06	31386302.19	0.0144	0.0060
Mercury	81220-11-30 17:46 G	31386390.10	31386390.24	31386390.38	0.0144	0.0037
Mercury	81221-02-26 22:05 G	31386478.28	31386478.42	31386478.56	0.0144	0.0013
Mercury	81221-05-26 02:24 G	31386566.46	31386566.60	31386566.75	0.0144	0.0011
Mercury	81221-08-22 06:44 G	31386654.65	31386654.78	31386654.93	0.0144	0.0035
Mercury	81221-11-18 11:17 G	31386742.84	31386742.97	31386743.10	0.0144	0.0058
Mercury	81222-02-14 15:36 G	31386831.04	31386831.15	31386831.28	0.0144	0.0083
Mercury	81222-05-13 20:10 G	31386919.25	31386919.34	31386919.44	0.0144	0.0107
Mercury	81222-08-10 00:44 G	31387007.48	31387007.53	31387007.59	0.0144	0.0131
Mars	81232-03-15 19:41 G	31390513.21	31390513.32	31390513.49	0.0142	0.0124
Earth	81245-10-08 12:00 G	31395467.91	31395468.00	31395468.12	0.0137	0.0124
Moon	81245-10-08 13:41 G	31395468.02	31395468.07	31395468.17	0.0137	0.0131 *
Moon	81246-10-12 21:51 G	31395837.21	31395837.41	31395837.64	0.0137	0.0070
Earth	81246-10-13 00:00 G	31395837.30	31395837.50	31395837.73	0.0137	0.0076 *
Earth	81247-10-17 11:32 G	31396206.74	31396206.98	31396207.23	0.0137	0.0027
Moon	81247-10-17 13:27 G	31396206.81	31396207.06	31396207.32	0.0137	0.0030 *
Moon	81248-10-20 19:27 G	31396576.07	31396576.31	31396576.56	0.0136	0.0021
Earth	81248-10-20 22:05 G	31396576.18	31396576.42	31396576.67	0.0136	0.0022 *
Earth	81249-10-25 07:56 G	31396945.63	31396945.83	31396946.06	0.0136	0.0070
Moon	81249-10-25 10:34 G	31396945.73	31396945.94	31396946.16	0.0136	0.0073 *
Moon	81250-10-29 14:39 G	31397315.00	31397315.11	31397315.27	0.0136	0.0112
Earth	81250-10-29 17:17 G	31397315.12	31397315.22	31397315.37	0.0136	0.0118 *
Venus	81252-12-11 19:12 G	31398089.18	31398089.30	31398089.45	0.0135	0.0105
Venus	81253-07-26 00:58 G	31398315.37	31398315.54	31398315.73	0.0135	0.0072
Venus	81254-03-09 06:15 G	31398541.57	31398541.76	31398541.97	0.0135	0.0041
Venus	81254-10-21 11:46 G	31398767.77	31398767.99	31398768.20	0.0135	0.0009
Venus	81255-06-04 16:48 G	31398993.99	31398994.20	31398994.42	0.0135	0.0023

Venus	81256-01-16 21:51 G	31399220.22	31399220.41	31399220.61	0.0135	0.0054
Venus	81256-08-30 03:08 G	31399446.47	31399446.63	31399446.80	0.0135	0.0085
Venus	81257-04-13 08:10 G	31399672.74	31399672.84	31399672.95	0.0135	0.0116
Mercury	81262-03-31 14:39 G	31401486.04	31401486.11	31401486.20	0.0134	0.0119
Mercury	81262-06-27 20:39 G	31401574.25	31401574.36	31401574.49	0.0134	0.0095
Mercury	81262-09-24 02:24 G	31401662.46	31401662.60	31401662.76	0.0134	0.0072
Mercury	81262-12-21 08:10 G	31401750.69	31401750.84	31401751.01	0.0134	0.0048
Mercury	81263-03-19 14:10 G	31401838.92	31401839.09	31401839.26	0.0134	0.0025
Mercury	81263-06-15 19:41 G	31401927.15	31401927.32	31401927.50	0.0134	0.0002
Mercury	81263-09-12 01:12 G	31402015.39	31402015.55	31402015.73	0.0134	0.0022
Mercury	81263-12-09 06:58 G	31402103.63	31402103.79	31402103.95	0.0134	0.0045
Mercury	81264-03-06 12:29 G	31402191.87	31402192.02	31402192.17	0.0134	0.0067
Mercury	81264-06-02 17:46 G	31402280.13	31402280.24	31402280.38	0.0134	0.0090
Mercury	81264-08-29 23:17 G	31402368.39	31402368.47	31402368.57	0.0134	0.0113
Mars	81274-05-26 15:08 G	31405924.88	31405925.13	31405925.37	0.0136	0.0089
Moon	81289-04-04 15:51 G	31411352.12	31411352.16	31411352.25	0.0141	0.0136
Earth	81289-04-04 16:48 G	31411352.16	31411352.20	31411352.29	0.0141	0.0136 *
Earth	81290-04-09 12:29 G	31411721.83	31411722.02	31411722.25	0.0141	0.0083
Moon	81290-04-09 13:12 G	31411721.86	31411722.05	31411722.25	0.0141	0.0085 *
Earth	81291-04-14 09:22 G	31412091.65	31412091.89	31412092.15	0.0142	0.0028
Moon	81291-04-14 09:51 G	31412091.66	31412091.91	31412092.18	0.0142	0.0021 *
Moon	81292-04-18 06:29 G	31412461.53	31412461.77	31412462.02	0.0142	0.0021
Earth	81292-04-18 06:58 G	31412461.54	31412461.79	31412462.04	0.0142	0.0028 *
Earth	81293-04-23 04:48 G	31412831.51	31412831.70	31412831.92	0.0142	0.0085
Moon	81293-04-23 06:29 G	31412831.58	31412831.77	31412831.99	0.0142	0.0089 *
Moon	81294-04-28 02:10 G	31413201.53	31413201.59	31413201.65	0.0142	0.0138
Earth	81294-04-28 03:36 G	31413201.63	31413201.65	31413201.71	0.0142	0.0141 *
Venus	81295-09-13 04:20 G	31413704.61	31413704.68	31413704.77	0.0143	0.0132
Venus	81296-04-26 16:20 G	31413931.03	31413931.18	31413931.36	0.0143	0.0094
Venus	81296-12-09 04:34 G	31414157.49	31414157.69	31414157.90	0.0143	0.0055

Venus	81297-07-23 16:48 G	31414383.98	31414384.20	31414384.42	0.0143	0.0016
Venus	81298-03-07 05:03 G	31414610.50	31414610.71	31414610.94	0.0143	0.0024
Venus	81298-10-19 17:17 G	31414837.03	31414837.22	31414837.43	0.0143	0.0062
Venus	81299-06-03 05:46 G	31415063.59	31415063.74	31415063.90	0.0144	0.0101
Venus	81300-01-15 18:00 G	31415290.21	31415290.25	31415290.30	0.0144	0.0140
Mercury	81304-01-04 07:56 G	31416738.77	31416738.83	31416738.92	0.0144	0.0122
Mercury	81304-04-01 12:15 G	31416826.92	31416827.01	31416827.12	0.0144	0.0099
Mercury	81304-06-28 16:34 G	31416915.07	31416915.19	31416915.32	0.0144	0.0076
Mercury	81304-09-24 20:53 G	31417003.24	31417003.37	31417003.51	0.0144	0.0052
Mercury	81304-12-22 01:12 G	31417091.41	31417091.55	31417091.69	0.0144	0.0029
Mercury	81305-03-20 05:32 G	31417179.59	31417179.73	31417179.88	0.0144	0.0007
Mercury	81305-06-16 10:05 G	31417267.77	31417267.92	31417268.06	0.0144	0.0019
Mercury	81305-09-12 14:24 G	31417355.96	31417356.10	31417356.24	0.0144	0.0042
Mercury	81305-12-09 18:44 G	31417444.16	31417444.28	31417444.41	0.0144	0.0066
Mercury	81306-03-07 23:03 G	31417532.36	31417532.46	31417532.58	0.0144	0.0091
Mercury	81306-06-04 03:36 G	31417620.57	31417620.65	31417620.75	0.0144	0.0115
Mercury	81306-08-31 08:10 G	31417708.82	31417708.84	31417708.88	0.0144	0.0139
Mars	81314-12-09 02:53 G	31420730.40	31420730.62	31420730.87	0.0142	0.0088
Earth	81329-10-09 21:36 G	31426149.30	31426149.40	31426149.54	0.0137	0.0120
Moon	81329-10-09 22:48 G	31426149.32	31426149.45	31426149.62	0.0137	0.0112 *
Moon	81330-10-14 08:39 G	31426518.67	31426518.86	31426519.07	0.0137	0.0077
Earth	81330-10-14 09:51 G	31426518.71	31426518.91	31426519.14	0.0137	0.0071 *
Earth	81331-10-18 21:22 G	31426888.14	31426888.39	31426888.64	0.0136	0.0022
Moon	81331-10-18 23:17 G	31426888.22	31426888.47	31426888.74	0.0136	0.0019 *
Moon	81332-10-22 06:29 G	31427257.54	31427257.77	31427258.02	0.0136	0.0027
Earth	81332-10-22 08:10 G	31427257.59	31427257.84	31427258.09	0.0136	0.0027 *
Earth	81333-10-26 17:46 G	31427627.05	31427627.24	31427627.47	0.0136	0.0076
Moon	81333-10-26 20:39 G	31427627.14	31427627.36	31427627.58	0.0136	0.0071 *
Moon	81334-10-31 01:27 G	31427996.50	31427996.56	31427996.65	0.0136	0.0129
Earth	81334-10-31 03:36 G	31427996.56	31427996.65	31427996.77	0.0136	0.0123 *

Venus	81336-08-12 05:17 G	31428647.63	31428647.72	31428647.84	0.0135	0.0119
Venus	81337-03-26 10:48 G	31428873.80	31428873.95	31428874.12	0.0135	0.0087
Venus	81337-11-07 16:20 G	31429099.99	31429100.18	31429100.38	0.0135	0.0055
Venus	81338-06-21 21:22 G	31429326.19	31429326.39	31429326.61	0.0135	0.0024
Venus	81339-02-03 02:53 G	31429552.40	31429552.62	31429552.83	0.0135	0.0008
Venus	81339-09-17 07:56 G	31429778.63	31429778.83	31429779.04	0.0135	0.0040
Venus	81340-04-30 12:58 G	31430004.87	31430005.04	31430005.23	0.0135	0.0071
Venus	81340-12-12 18:00 G	31430231.12	31430231.25	31430231.40	0.0135	0.0102
Venus	81341-07-26 22:48 G	31430457.43	31430457.45	31430457.50	0.0135	0.0133
Mercury	81346-04-21 21:36 G	31432187.32	31432187.40	31432187.51	0.0134	0.0113
Mercury	81346-07-19 03:36 G	31432275.53	31432275.65	31432275.79	0.0134	0.0088
Mercury	81346-10-15 09:36 G	31432363.75	31432363.90	31432364.06	0.0134	0.0064
Mercury	81347-01-11 15:22 G	31432451.98	31432452.14	31432452.31	0.0134	0.0041
Mercury	81347-04-09 21:08 G	31432540.21	31432540.38	31432540.55	0.0134	0.0018
Mercury	81347-07-07 02:53 G	31432628.44	31432628.62	31432628.79	0.0134	0.0006
Mercury	81347-10-03 08:24 G	31432716.68	31432716.85	31432717.02	0.0134	0.0029
Mercury	81347-12-30 13:56 G	31432804.93	31432805.08	31432805.24	0.0134	0.0052
Mercury	81348-03-27 19:27 G	31432893.17	31432893.31	31432893.46	0.0134	0.0075
Mercury	81348-06-24 00:44 G	31432981.43	31432981.53	31432981.66	0.0134	0.0098
Mercury	81348-09-20 06:15 G	31433069.70	31433069.76	31433069.85	0.0134	0.0120
Mars	81359-01-20 22:34 G	31436844.14	31436844.44	31436844.75	0.0136	0.0044
Moon	81373-04-06 02:39 G	31442033.51	31442033.61	31442033.73	0.0141	0.0128
Earth	81373-04-06 04:05 G	31442033.59	31442033.67	31442033.78	0.0141	0.0130 *
Earth	81374-04-11 00:00 G	31442403.30	31442403.50	31442403.73	0.0141	0.0076
Moon	81374-04-11 00:44 G	31442403.34	31442403.53	31442403.76	0.0141	0.0073 *
Moon	81375-04-15 20:10 G	31442773.09	31442773.34	31442773.61	0.0142	0.0027
Earth	81375-04-15 20:53 G	31442773.12	31442773.37	31442773.63	0.0142	0.0021 *
Moon	81376-04-19 18:00 G	31443143.02	31443143.25	31443143.49	0.0142	0.0042
Earth	81376-04-19 18:15 G	31443143.02	31443143.26	31443143.52	0.0142	0.0035 *
Earth	81377-04-24 16:20 G	31443513.00	31443513.18	31443513.39	0.0142	0.0091

Moon	81377-04-24 16:48 G	31443513.01	31443513.20	31443513.43	0.0142	0.0085 *
Venus	81379-12-26 23:32 G	31444489.34	31444489.48	31444489.62	0.0143	0.0110
Venus	81380-08-09 11:32 G	31444715.80	31444715.98	31444716.18	0.0143	0.0072
Venus	81381-03-24 00:00 G	31444942.28	31444942.50	31444942.71	0.0143	0.0033
Venus	81381-11-05 12:15 G	31445168.79	31445169.01	31445169.23	0.0143	0.0006
Venus	81382-06-20 00:29 G	31445395.31	31445395.52	31445395.73	0.0143	0.0045
Venus	81383-02-01 12:44 G	31445621.85	31445622.03	31445622.21	0.0143	0.0084
Venus	81383-09-16 00:58 G	31445848.44	31445848.54	31445848.66	0.0144	0.0123
Mercury	81387-10-28 11:32 G	31447351.94	31447351.98	31447352.03	0.0144	0.0136
Mercury	81388-01-24 15:51 G	31447440.07	31447440.16	31447440.24	0.0144	0.0113
Mercury	81388-04-21 19:56 G	31447528.23	31447528.33	31447528.44	0.0144	0.0090
Mercury	81388-07-19 00:15 G	31447616.39	31447616.51	31447616.64	0.0144	0.0067
Mercury	81388-10-15 04:34 G	31447704.55	31447704.69	31447704.83	0.0144	0.0044
Mercury	81389-01-11 08:53 G	31447792.73	31447792.87	31447793.01	0.0144	0.0021
Mercury	81389-04-09 13:12 G	31447880.91	31447881.05	31447881.20	0.0144	0.0004
Mercury	81389-07-06 17:32 G	31447969.09	31447969.23	31447969.38	0.0144	0.0027
Mercury	81389-10-02 22:05 G	31448057.28	31448057.42	31448057.55	0.0144	0.0051
Mercury	81389-12-30 02:24 G	31448145.48	31448145.60	31448145.73	0.0144	0.0075
Mercury	81390-03-28 06:58 G	31448233.69	31448233.79	31448233.90	0.0144	0.0099
Mercury	81390-06-24 11:32 G	31448321.91	31448321.98	31448322.05	0.0144	0.0123
Mars	81399-08-04 05:03 G	31451649.44	31451649.71	31451649.99	0.0142	0.0047
Earth	81413-10-11 07:12 G	31456830.67	31456830.80	31456830.95	0.0137	0.0115
Moon	81413-10-11 07:27 G	31456830.71	31456830.81	31456830.95	0.0137	0.0122 *
Moon	81414-10-15 18:15 G	31457200.05	31457200.26	31457200.49	0.0137	0.0060
Earth	81414-10-15 19:12 G	31457200.09	31457200.30	31457200.53	0.0137	0.0066 *
Earth	81415-10-20 06:44 G	31457569.53	31457569.78	31457570.03	0.0136	0.0017
Moon	81415-10-20 07:27 G	31457569.56	31457569.81	31457570.08	0.0136	0.0021 *
Moon	81416-10-23 15:36 G	31457938.92	31457939.15	31457939.40	0.0136	0.0033
Earth	81416-10-23 17:17 G	31457938.98	31457939.22	31457939.47	0.0136	0.0032 *
Earth	81417-10-28 03:08 G	31458308.45	31458308.63	31458308.85	0.0136	0.0081

Moon	81417-10-28 04:20 G	31458308.50	31458308.68	31458308.91	0.0136	0.0083 *
Moon	81418-11-01 11:32 G	31458677.88	31458677.98	31458678.08	0.0136	0.0123
Earth	81418-11-01 12:58 G	31458677.97	31458678.04	31458678.13	0.0136	0.0128 *
Venus	81420-04-12 14:24 G	31459206.09	31459206.10	31459206.16	0.0135	0.0134
Venus	81420-11-24 20:24 G	31459432.21	31459432.35	31459432.49	0.0135	0.0102
Venus	81421-07-09 01:27 G	31459658.39	31459658.56	31459658.75	0.0135	0.0070
Venus	81422-02-20 06:44 G	31459884.58	31459884.78	31459885.00	0.0135	0.0039
Venus	81422-10-04 12:15 G	31460110.79	31460111.01	31460111.22	0.0135	0.0007
Venus	81423-05-18 17:17 G	31460337.01	31460337.22	31460337.43	0.0135	0.0025
Venus	81423-12-30 22:20 G	31460563.24	31460563.43	31460563.63	0.0135	0.0056
Venus	81424-08-13 03:36 G	31460789.49	31460789.65	31460789.81	0.0135	0.0087
Venus	81425-03-27 08:24 G	31461015.76	31461015.85	31461015.96	0.0135	0.0118
Mercury	81430-02-13 22:34 G	31462800.41	31462800.44	31462800.50	0.0134	0.0130
Mercury	81430-05-13 04:34 G	31462888.59	31462888.69	31462888.81	0.0134	0.0106
Mercury	81430-08-09 10:20 G	31462976.81	31462976.93	31462977.08	0.0134	0.0083
Mercury	81430-11-05 16:20 G	31463065.03	31463065.18	31463065.34	0.0134	0.0059
Mercury	81431-02-01 22:05 G	31463153.26	31463153.42	31463153.59	0.0134	0.0035
Mercury	81431-05-01 03:51 G	31463241.49	31463241.66	31463241.84	0.0134	0.0012
Mercury	81431-07-28 09:36 G	31463329.73	31463329.90	31463330.07	0.0134	0.0012
Mercury	81431-10-24 15:08 G	31463417.97	31463418.13	31463418.30	0.0134	0.0035
Mercury	81432-01-20 20:53 G	31463506.21	31463506.37	31463506.52	0.0134	0.0058
Mercury	81432-04-18 02:10 G	31463594.46	31463594.59	31463594.74	0.0134	0.0081
Mercury	81432-07-15 07:41 G	31463682.72	31463682.82	31463682.94	0.0134	0.0103
Mercury	81432-10-11 13:12 G	31463771.00	31463771.05	31463771.12	0.0134	0.0125
Moon	81457-04-07 11:32 G	31472714.88	31472714.98	31472715.11	0.0141	0.0127
Earth	81457-04-07 13:41 G	31472714.97	31472715.07	31472715.20	0.0141	0.0125 *
Earth	81458-04-12 09:22 G	31473084.69	31473084.89	31473085.13	0.0141	0.0072
Moon	81458-04-12 11:32 G	31473084.77	31473084.98	31473085.19	0.0141	0.0073 *
Moon	81459-04-17 05:46 G	31473454.48	31473454.74	31473455.00	0.0142	0.0009
Earth	81459-04-17 06:44 G	31473454.52	31473454.78	31473455.03	0.0142	0.0016 *

Earth	81460-04-21 04:05 G	31473824.42	31473824.67	31473824.91	0.0142	0.0040
Moon	81460-04-21 04:48 G	31473824.46	31473824.70	31473824.94	0.0142	0.0033 *
Earth	81461-04-26 01:56 G	31474194.40	31474194.58	31474194.77	0.0142	0.0097
Moon	81461-04-26 02:10 G	31474194.42	31474194.59	31474194.79	0.0142	0.0103 *
Venus	81463-08-27 05:17 G	31475047.63	31475047.72	31475047.82	0.0143	0.0128
Venus	81464-04-09 17:17 G	31475274.06	31475274.22	31475274.40	0.0143	0.0090
Venus	81464-11-22 05:32 G	31475500.52	31475500.73	31475500.93	0.0143	0.0052
Venus	81465-07-06 17:32 G	31475727.02	31475727.23	31475727.46	0.0143	0.0013
Venus	81466-02-18 06:00 G	31475953.53	31475953.75	31475953.97	0.0143	0.0026
Venus	81466-10-02 18:00 G	31476180.07	31476180.25	31476180.46	0.0143	0.0066
Venus	81467-05-17 06:15 G	31476406.63	31476406.76	31476406.93	0.0144	0.0105
Venus	81467-12-29 18:58 G	31476633.28	31476633.29	31476633.31	0.0144	0.0143
Mercury	81471-11-18 18:29 G	31478053.23	31478053.27	31478053.35	0.0144	0.0130
Mercury	81472-02-14 22:48 G	31478141.37	31478141.45	31478141.55	0.0144	0.0107
Mercury	81472-05-13 03:08 G	31478229.52	31478229.63	31478229.75	0.0144	0.0084
Mercury	81472-08-09 07:27 G	31478317.69	31478317.81	31478317.94	0.0144	0.0061
Mercury	81472-11-05 11:46 G	31478405.86	31478405.99	31478406.13	0.0144	0.0037
Mercury	81473-02-01 16:05 G	31478494.03	31478494.17	31478494.32	0.0144	0.0014
Mercury	81473-04-30 20:24 G	31478582.21	31478582.35	31478582.50	0.0144	0.0011
Mercury	81473-07-28 00:58 G	31478670.40	31478670.54	31478670.68	0.0144	0.0034
Mercury	81473-10-24 05:17 G	31478758.59	31478758.72	31478758.85	0.0144	0.0058
Mercury	81474-01-20 09:36 G	31478846.79	31478846.90	31478847.03	0.0144	0.0082
Mercury	81474-04-18 14:10 G	31478935.00	31478935.09	31478935.19	0.0144	0.0106
Mercury	81474-07-15 18:44 G	31479023.22	31479023.28	31479023.34	0.0144	0.0130
Moon	81497-10-11 16:48 G	31487512.05	31487512.20	31487512.39	0.0137	0.0103
Earth	81497-10-11 17:32 G	31487512.08	31487512.23	31487512.37	0.0137	0.0110 *
Earth	81498-10-16 05:17 G	31487881.50	31487881.72	31487881.96	0.0137	0.0061
Moon	81498-10-16 05:03 G	31487881.52	31487881.71	31487881.94	0.0137	0.0068 *
Earth	81499-10-20 16:48 G	31488250.95	31488251.20	31488251.45	0.0136	0.0011
Moon	81499-10-20 17:32 G	31488250.97	31488251.23	31488251.49	0.0136	0.0007 *

Moon	81500-10-25 02:53 G	31488620.40	31488620.62	31488620.87	0.0136	0.0036
Earth	81500-10-25 03:22 G	31488620.41	31488620.64	31488620.89	0.0136	0.0038 *
Earth	81501-10-29 13:41 G	31488989.88	31488990.07	31488990.27	0.0136	0.0086
Moon	81501-10-29 14:24 G	31488989.91	31488990.10	31488990.33	0.0136	0.0084 *
Earth	81502-11-02 22:48 G	31489359.43	31489359.45	31489359.51	0.0136	0.0134
Venus	81504-07-26 05:46 G	31489990.64	31489990.74	31489990.86	0.0135	0.0116
Venus	81505-03-09 11:17 G	31490216.81	31490216.97	31490217.14	0.0135	0.0085
Venus	81505-10-21 16:34 G	31490443.00	31490443.19	31490443.40	0.0135	0.0053
Venus	81506-06-04 21:51 G	31490669.20	31490669.41	31490669.63	0.0135	0.0022
Venus	81507-01-17 03:08 G	31490895.41	31490895.63	31490895.84	0.0135	0.0010
Venus	81507-08-31 08:10 G	31491121.64	31491121.84	31491122.05	0.0135	0.0041
Venus	81508-04-13 13:12 G	31491347.88	31491348.05	31491348.24	0.0135	0.0073
Venus	81508-11-25 18:00 G	31491574.13	31491574.25	31491574.40	0.0135	0.0104
Venus	81509-07-09 23:03 G	31491800.46	31491800.46	31491800.48	0.0134	0.0134
Mercury	81514-03-07 05:32 G	31493501.67	31493501.73	31493501.81	0.0134	0.0123
Mercury	81514-06-03 11:32 G	31493589.87	31493589.98	31493590.10	0.0134	0.0099
Mercury	81514-08-30 17:32 G	31493678.09	31493678.23	31493678.37	0.0134	0.0076
Mercury	81514-11-26 23:03 G	31493766.31	31493766.46	31493766.63	0.0134	0.0053
Mercury	81515-02-23 05:03 G	31493854.54	31493854.71	31493854.88	0.0134	0.0029
Mercury	81515-05-22 10:48 G	31493942.78	31493942.95	31493943.12	0.0134	0.0005
Mercury	81515-08-18 16:34 G	31494031.02	31494031.19	31494031.36	0.0134	0.0018
Mercury	81515-11-14 22:05 G	31494119.26	31494119.42	31494119.59	0.0134	0.0041
Mercury	81516-02-11 03:36 G	31494207.50	31494207.65	31494207.80	0.0134	0.0064
Mercury	81516-05-09 09:08 G	31494295.76	31494295.88	31494296.02	0.0134	0.0087
Mercury	81516-08-05 14:24 G	31494384.02	31494384.10	31494384.21	0.0134	0.0110
Mercury	81516-11-01 20:10 G	31494472.31	31494472.34	31494472.37	0.0134	0.0132
Mars	81526-06-10 01:27 G	31497979.25	31497979.56	31497979.87	0.0136	0.0033
Moon	81541-04-08 18:58 G	31503396.17	31503396.29	31503396.45	0.0141	0.0118
Earth	81541-04-08 21:51 G	31503396.29	31503396.41	31503396.55	0.0141	0.0121 *
Earth	81542-04-13 18:00 G	31503766.03	31503766.25	31503766.47	0.0141	0.0067

Moon	81542-04-13 19:56 G	31503766.12	31503766.33	31503766.56	0.0141	0.0065 *
Moon	81543-04-18 12:29 G	31504135.77	31504136.02	31504136.29	0.0142	0.0016
Earth	81543-04-18 14:39 G	31504135.86	31504136.11	31504136.37	0.0142	0.0011 *
Earth	81544-04-22 11:46 G	31504505.76	31504505.99	31504506.24	0.0142	0.0045
Moon	81544-04-22 12:44 G	31504505.81	31504506.03	31504506.27	0.0142	0.0053 *
Moon	81545-04-27 08:39 G	31504875.68	31504875.86	31504876.08	0.0142	0.0095
Earth	81545-04-27 10:05 G	31504875.74	31504875.92	31504876.10	0.0142	0.0102 *
Venus	81547-12-09 21:51 G	31505832.28	31505832.41	31505832.56	0.0143	0.0109
Venus	81548-07-23 09:51 G	31506058.73	31506058.91	31506059.11	0.0143	0.0071
Venus	81549-03-06 22:20 G	31506285.22	31506285.43	31506285.65	0.0143	0.0032
Venus	81549-10-19 10:34 G	31506511.72	31506511.94	31506512.16	0.0143	0.0007
Venus	81550-06-02 22:34 G	31506738.24	31506738.44	31506738.66	0.0143	0.0047
Venus	81551-01-15 10:48 G	31506964.79	31506964.95	31506965.14	0.0143	0.0086
Venus	81551-08-29 23:32 G	31507191.38	31507191.48	31507191.60	0.0143	0.0124
Mercury	81555-12-10 01:56 G	31508754.51	31508754.58	31508754.65	0.0144	0.0124
Mercury	81556-03-07 05:46 G	31508842.65	31508842.74	31508842.85	0.0144	0.0102
Mercury	81556-06-03 10:05 G	31508930.81	31508930.92	31508931.05	0.0144	0.0079
Mercury	81556-08-30 14:24 G	31509018.97	31509019.10	31509019.24	0.0144	0.0055
Mercury	81556-11-26 18:44 G	31509107.14	31509107.28	31509107.42	0.0144	0.0032
Mercury	81557-02-22 23:03 G	31509195.32	31509195.46	31509195.61	0.0144	0.0009
Mercury	81557-05-22 03:22 G	31509283.50	31509283.64	31509283.79	0.0144	0.0015
Mercury	81557-08-18 07:56 G	31509371.69	31509371.83	31509371.96	0.0144	0.0039
Mercury	81557-11-14 12:15 G	31509459.88	31509460.01	31509460.14	0.0144	0.0063
Mercury	81558-02-10 16:34 G	31509548.08	31509548.19	31509548.31	0.0144	0.0087
Mercury	81558-05-09 21:08 G	31509636.29	31509636.38	31509636.47	0.0144	0.0111
Mercury	81558-08-06 01:27 G	31509724.52	31509724.56	31509724.61	0.0144	0.0135
Mars	81566-12-23 07:41 G	31512785.53	31512785.82	31512786.11	0.0142	0.0032
Moon	81581-10-13 01:12 G	31518193.41	31518193.55	31518193.71	0.0137	0.0112
Earth	81581-10-13 01:56 G	31518193.44	31518193.58	31518193.75	0.0137	0.0106 *
Earth	81582-10-17 13:56 G	31518562.86	31518563.08	31518563.33	0.0137	0.0057

Moon	81582-10-17 14:24 G	31518562.88	31518563.10	31518563.34	0.0137	0.0050 *
Moon	81583-10-22 00:58 G	31518932.28	31518932.54	31518932.81	0.0136	0.0013
Earth	81583-10-22 01:41 G	31518932.32	31518932.57	31518932.82	0.0136	0.0007 *
Moon	81584-10-25 12:15 G	31519301.78	31519302.01	31519302.24	0.0136	0.0044
Earth	81584-10-25 12:29 G	31519301.78	31519302.02	31519302.26	0.0136	0.0043 *
Moon	81585-10-29 22:20 G	31519671.25	31519671.43	31519671.63	0.0136	0.0091
Earth	81585-10-29 22:20 G	31519671.26	31519671.43	31519671.63	0.0136	0.0091 *
Moon	81586-11-03 07:27 G	31520040.80	31520040.81	31520040.84	0.0136	0.0135
Venus	81588-03-25 14:39 G	31520549.08	31520549.11	31520549.18	0.0135	0.0132
Venus	81588-11-06 20:24 G	31520775.21	31520775.35	31520775.50	0.0135	0.0100
Venus	81589-06-21 01:27 G	31521001.39	31521001.56	31521001.76	0.0135	0.0069
Venus	81590-02-02 06:44 G	31521227.58	31521227.78	31521228.00	0.0135	0.0037
Venus	81590-09-16 12:15 G	31521453.80	31521454.01	31521454.23	0.0135	0.0005
Venus	81591-04-30 17:17 G	31521680.02	31521680.22	31521680.44	0.0135	0.0027
Venus	81591-12-12 22:20 G	31521906.24	31521906.43	31521906.63	0.0135	0.0058
Venus	81592-07-26 03:22 G	31522132.49	31522132.64	31522132.81	0.0135	0.0089
Venus	81593-03-09 08:10 G	31522358.76	31522358.84	31522358.95	0.0135	0.0120
Mercury	81598-03-27 12:29 G	31524202.93	31524203.02	31524203.10	0.0134	0.0118
Mercury	81598-06-23 18:00 G	31524291.14	31524291.25	31524291.39	0.0134	0.0094
Mercury	81598-09-20 00:00 G	31524379.36	31524379.50	31524379.66	0.0134	0.0070
Mercury	81598-12-17 06:00 G	31524467.58	31524467.75	31524467.91	0.0134	0.0046
Mercury	81599-03-15 11:46 G	31524555.82	31524555.99	31524556.16	0.0134	0.0023
Mercury	81599-06-11 17:32 G	31524644.05	31524644.23	31524644.40	0.0134	0.0002
Mercury	81599-09-07 23:03 G	31524732.29	31524732.46	31524732.63	0.0134	0.0024
Mercury	81599-12-05 04:48 G	31524820.54	31524820.70	31524820.86	0.0134	0.0047
Mercury	81600-03-02 10:20 G	31524908.79	31524908.93	31524909.08	0.0134	0.0069
Mercury	81600-05-29 15:36 G	31524997.04	31524997.15	31524997.29	0.0134	0.0093
Mercury	81600-08-25 21:22 G	31525085.31	31525085.39	31525085.48	0.0134	0.0115
Mars	81611-02-03 05:46 G	31528898.51	31528898.74	31528898.97	0.0136	0.0095
Moon	81625-04-09 02:24 G	31534077.49	31534077.60	31534077.75	0.0141	0.0121

Earth	81625-04-09 05:32 G	31534077.61	31534077.73	31534077.89	0.0141	0.0117	*
Earth	81626-04-14 01:27 G	31534447.34	31534447.56	31534447.80	0.0141	0.0062	
Moon	81626-04-14 04:20 G	31534447.46	31534447.68	31534447.91	0.0141	0.0062	*
Moon	81627-04-18 19:56 G	31534817.07	31534817.33	31534817.60	0.0142	0.0003	
Earth	81627-04-18 22:05 G	31534817.17	31534817.42	31534817.68	0.0142	0.0007	*
Earth	81628-04-22 19:12 G	31535187.07	31535187.30	31535187.55	0.0142	0.0050	
Moon	81628-04-22 21:22 G	31535187.16	31535187.39	31535187.63	0.0142	0.0043	*
Moon	81629-04-27 15:36 G	31535557.01	31535557.15	31535557.33	0.0142	0.0113	
Earth	81629-04-27 16:48 G	31535557.05	31535557.20	31535557.38	0.0142	0.0106	*
Venus	81631-08-09 02:10 G	31536390.50	31536390.59	31536390.69	0.0143	0.0128	
Venus	81632-03-22 14:10 G	31536616.93	31536617.09	31536617.27	0.0143	0.0090	
Venus	81632-11-04 02:24 G	31536843.40	31536843.60	31536843.81	0.0143	0.0051	
Venus	81633-06-18 14:24 G	31537069.89	31537070.10	31537070.33	0.0143	0.0014	
Venus	81634-01-31 02:53 G	31537296.40	31537296.62	31537296.84	0.0143	0.0026	
Venus	81634-09-14 14:53 G	31537522.94	31537523.12	31537523.33	0.0143	0.0066	
Venus	81635-04-29 03:22 G	31537749.50	31537749.64	31537749.80	0.0143	0.0104	
Venus	81635-12-11 15:51 G	31537976.15	31537976.16	31537976.19	0.0143	0.0143	
Jupiter	81638-01-19 06:15 G	31538745.35	31538745.76	31538746.21	0.0144	0.0082	
Mercury	81639-10-03 04:20 G	31539367.67	31539367.68	31539367.70	0.0144	0.0143	
Mercury	81639-12-30 08:39 G	31539455.78	31539455.86	31539455.93	0.0144	0.0120	
Mercury	81640-03-27 12:29 G	31539543.93	31539544.02	31539544.13	0.0144	0.0098	
Mercury	81640-06-23 16:48 G	31539632.09	31539632.20	31539632.33	0.0144	0.0075	
Mercury	81640-09-19 21:08 G	31539720.25	31539720.38	31539720.52	0.0144	0.0051	
Mercury	81640-12-17 01:27 G	31539808.42	31539808.56	31539808.70	0.0144	0.0028	
Mercury	81641-03-15 05:46 G	31539896.60	31539896.74	31539896.88	0.0144	0.0005	
Mercury	81641-06-11 10:05 G	31539984.78	31539984.92	31539985.06	0.0144	0.0019	
Mercury	81641-09-07 14:24 G	31540072.97	31540073.10	31540073.24	0.0144	0.0043	
Mercury	81641-12-04 18:44 G	31540161.16	31540161.28	31540161.41	0.0144	0.0067	
Mercury	81642-03-02 23:17 G	31540249.36	31540249.47	31540249.58	0.0144	0.0091	
Mercury	81642-05-30 03:36 G	31540337.57	31540337.65	31540337.74	0.0144	0.0115	

Mercury	81642-08-26 07:56 G	31540425.81	31540425.83	31540425.88	0.0144	0.0140
Mars	81651-08-18 02:53 G	31543704.41	31543704.62	31543704.84	0.0142	0.0096
Moon	81665-10-13 08:39 G	31548874.70	31548874.86	31548875.07	0.0137	0.0096
Earth	81665-10-13 10:34 G	31548874.78	31548874.94	31548875.12	0.0137	0.0102 *
Earth	81666-10-17 22:48 G	31549244.22	31549244.45	31549244.69	0.0137	0.0052
Moon	81666-10-18 00:15 G	31549244.29	31549244.51	31549244.73	0.0137	0.0059 *
Moon	81667-10-22 09:36 G	31549613.64	31549613.90	31549614.16	0.0136	0.0004
Earth	81667-10-22 10:20 G	31549613.68	31549613.93	31549614.19	0.0136	0.0002 *
Earth	81668-10-25 21:08 G	31549983.15	31549983.38	31549983.62	0.0136	0.0047
Moon	81668-10-25 21:51 G	31549983.19	31549983.41	31549983.66	0.0136	0.0045 *
Moon	81669-10-30 06:58 G	31550352.61	31550352.79	31550352.98	0.0136	0.0095
Earth	81669-10-30 06:58 G	31550352.63	31550352.79	31550352.98	0.0136	0.0096 *
Venus	81672-07-07 05:17 G	31551333.62	31551333.72	31551333.85	0.0135	0.0115
Venus	81673-02-18 10:34 G	31551559.79	31551559.94	31551560.13	0.0135	0.0084
Venus	81673-10-02 16:20 G	31551785.98	31551786.18	31551786.38	0.0135	0.0051
Venus	81674-05-16 21:22 G	31552012.19	31552012.39	31552012.61	0.0135	0.0020
Venus	81674-12-29 02:39 G	31552238.40	31552238.61	31552238.83	0.0135	0.0012
Venus	81675-08-12 07:56 G	31552464.63	31552464.83	31552465.03	0.0135	0.0043
Venus	81676-03-25 12:58 G	31552690.87	31552691.04	31552691.22	0.0135	0.0074
Venus	81676-11-06 18:15 G	31552917.12	31552917.26	31552917.39	0.0135	0.0105
Mercury	81682-04-16 18:58 G	31554904.21	31554904.29	31554904.40	0.0134	0.0112
Mercury	81682-07-14 00:58 G	31554992.41	31554992.54	31554992.68	0.0134	0.0088
Mercury	81682-10-10 06:44 G	31555080.64	31555080.78	31555080.94	0.0134	0.0064
Mercury	81683-01-06 12:44 G	31555168.87	31555169.03	31555169.20	0.0134	0.0040
Mercury	81683-04-04 18:29 G	31555257.10	31555257.27	31555257.45	0.0134	0.0017
Mercury	81683-07-02 00:15 G	31555345.34	31555345.51	31555345.69	0.0134	0.0007
Mercury	81683-09-28 06:00 G	31555433.58	31555433.75	31555433.92	0.0134	0.0030
Mercury	81683-12-25 11:32 G	31555521.83	31555521.98	31555522.14	0.0134	0.0053
Mercury	81684-03-22 17:03 G	31555610.08	31555610.21	31555610.36	0.0134	0.0076
Mercury	81684-06-18 22:34 G	31555698.33	31555698.44	31555698.56	0.0134	0.0098

Mercury	81684-09-15 04:05 G	31555786.61	31555786.67	31555786.75	0.0134	0.0121
Mars	81693-10-26 07:12 G	31559114.62	31559114.80	31559115.01	0.0136	0.0107
Moon	81709-04-10 11:17 G	31564758.82	31564758.97	31564759.15	0.0141	0.0108
Earth	81709-04-10 15:08 G	31564758.98	31564759.13	31564759.28	0.0141	0.0112 *
Earth	81710-04-15 10:34 G	31565128.71	31565128.94	31565129.17	0.0141	0.0058
Moon	81710-04-15 13:27 G	31565128.84	31565129.06	31565129.30	0.0141	0.0057 *
Moon	81711-04-20 03:51 G	31565498.40	31565498.66	31565498.92	0.0142	0.0005
Earth	81711-04-20 06:58 G	31565498.54	31565498.79	31565499.05	0.0142	0.0002 *
Earth	81712-04-24 03:51 G	31565868.42	31565868.66	31565868.90	0.0142	0.0054
Moon	81712-04-24 05:46 G	31565868.52	31565868.74	31565868.97	0.0142	0.0062 *
Moon	81713-04-28 22:48 G	31566238.29	31566238.45	31566238.65	0.0142	0.0103
Earth	81713-04-29 01:12 G	31566238.41	31566238.55	31566238.72	0.0142	0.0111 *
Venus	81715-11-21 19:12 G	31567175.16	31567175.30	31567175.45	0.0143	0.0108
Venus	81716-07-05 07:12 G	31567401.61	31567401.80	31567401.99	0.0143	0.0070
Venus	81717-02-16 19:27 G	31567628.10	31567628.31	31567628.53	0.0143	0.0032
Venus	81717-10-01 07:41 G	31567854.60	31567854.82	31567855.04	0.0143	0.0007
Venus	81718-05-15 19:41 G	31568081.12	31568081.32	31568081.54	0.0143	0.0047
Venus	81718-12-28 07:56 G	31568307.67	31568307.83	31568308.02	0.0143	0.0086
Venus	81719-08-11 20:39 G	31568534.26	31568534.36	31568534.48	0.0143	0.0124
Mercury	81723-10-24 11:17 G	31570068.93	31570068.97	31570069.01	0.0144	0.0138
Mercury	81724-01-20 15:08 G	31570157.06	31570157.13	31570157.23	0.0144	0.0116
Mercury	81724-04-17 19:27 G	31570245.21	31570245.31	31570245.43	0.0144	0.0093
Mercury	81724-07-14 23:46 G	31570333.37	31570333.49	31570333.62	0.0144	0.0070
Mercury	81724-10-11 04:05 G	31570421.54	31570421.67	31570421.80	0.0144	0.0046
Mercury	81725-01-07 08:24 G	31570509.71	31570509.85	31570509.99	0.0144	0.0023
Mercury	81725-04-05 12:44 G	31570597.88	31570598.03	31570598.17	0.0144	0.0003
Mercury	81725-07-02 17:03 G	31570686.07	31570686.21	31570686.35	0.0144	0.0024
Mercury	81725-09-28 21:22 G	31570774.25	31570774.39	31570774.52	0.0144	0.0048
Mercury	81725-12-26 01:41 G	31570862.45	31570862.57	31570862.70	0.0144	0.0072
Mercury	81726-03-24 06:00 G	31570950.65	31570950.75	31570950.86	0.0144	0.0096

Mercury	81726-06-20 10:20 G	31571038.86	31571038.93	31571039.02	0.0144	0.0120
Mars	81734-05-12 00:15 G	31573921.38	31573921.51	31573921.69	0.0142	0.0120
Moon	81749-10-14 15:51 G	31579556.01	31579556.16	31579556.34	0.0137	0.0104
Earth	81749-10-14 18:15 G	31579556.09	31579556.26	31579556.44	0.0137	0.0098 *
Earth	81750-10-19 06:29 G	31579925.53	31579925.77	31579926.01	0.0137	0.0048
Moon	81750-10-19 07:56 G	31579925.61	31579925.83	31579926.08	0.0137	0.0041 *
Moon	81751-10-23 16:05 G	31580294.91	31580295.17	31580295.43	0.0137	0.0005
Earth	81751-10-23 18:00 G	31580295.00	31580295.25	31580295.51	0.0137	0.0002 *
Earth	81752-10-27 04:48 G	31580664.47	31580664.70	31580664.94	0.0136	0.0052
Moon	81752-10-27 05:46 G	31580664.53	31580664.74	31580664.97	0.0136	0.0055 *
Moon	81753-10-31 12:58 G	31581033.88	31581034.04	31581034.24	0.0136	0.0099
Earth	81753-10-31 14:53 G	31581033.95	31581034.12	31581034.29	0.0136	0.0100 *
Venus	81756-03-07 13:56 G	31581892.03	31581892.08	31581892.15	0.0135	0.0130
Venus	81756-10-19 19:12 G	31582118.17	31582118.30	31582118.46	0.0135	0.0099
Venus	81757-06-03 00:29 G	31582344.35	31582344.52	31582344.72	0.0135	0.0067
Venus	81758-01-15 06:00 G	31582570.55	31582570.75	31582570.96	0.0135	0.0035
Venus	81758-08-29 11:32 G	31582796.77	31582796.98	31582797.20	0.0135	0.0004
Venus	81759-04-12 16:34 G	31583022.99	31583023.19	31583023.41	0.0135	0.0028
Venus	81759-11-24 21:51 G	31583249.22	31583249.41	31583249.61	0.0135	0.0059
Venus	81760-07-08 02:53 G	31583475.47	31583475.62	31583475.78	0.0135	0.0090
Venus	81761-02-19 07:56 G	31583701.74	31583701.83	31583701.93	0.0135	0.0121
Mercury	81766-02-08 19:41 G	31585517.29	31585517.32	31585517.37	0.0134	0.0130
Mercury	81766-05-08 01:27 G	31585605.47	31585605.56	31585605.68	0.0134	0.0107
Mercury	81766-08-04 07:27 G	31585693.68	31585693.81	31585693.96	0.0134	0.0083
Mercury	81766-10-31 13:27 G	31585781.91	31585782.06	31585782.22	0.0134	0.0059
Mercury	81767-01-27 19:12 G	31585870.14	31585870.30	31585870.47	0.0134	0.0035
Mercury	81767-04-26 00:58 G	31585958.37	31585958.54	31585958.72	0.0134	0.0012
Mercury	81767-07-23 06:44 G	31586046.61	31586046.78	31586046.96	0.0134	0.0012
Mercury	81767-10-19 12:29 G	31586134.85	31586135.02	31586135.19	0.0134	0.0035
Mercury	81768-01-15 18:15 G	31586223.10	31586223.26	31586223.41	0.0134	0.0058

Mercury	81768-04-12 23:46 G	31586311.35	31586311.49	31586311.63	0.0134	0.0081
Mercury	81768-07-10 05:03 G	31586399.61	31586399.71	31586399.83	0.0134	0.0104
Mercury	81768-10-06 10:48 G	31586487.89	31586487.95	31586488.01	0.0134	0.0126
Mars	81778-06-22 10:48 G	31590033.64	31590033.95	31590034.27	0.0136	0.0020
Moon	81793-04-10 21:22 G	31595440.26	31595440.39	31595440.56	0.0141	0.0112
Earth	81793-04-11 01:12 G	31595440.40	31595440.55	31595440.73	0.0141	0.0107 *
Earth	81794-04-15 20:39 G	31595810.14	31595810.36	31595810.61	0.0141	0.0052
Moon	81794-04-16 00:15 G	31595810.28	31595810.51	31595810.75	0.0141	0.0051 *
Moon	81795-04-20 14:10 G	31596179.83	31596180.09	31596180.35	0.0142	0.0008
Earth	81795-04-20 17:17 G	31596179.96	31596180.22	31596180.47	0.0142	0.0004 *
Earth	81796-04-24 13:41 G	31596549.85	31596550.07	31596550.32	0.0142	0.0061
Moon	81796-04-24 17:03 G	31596549.98	31596550.21	31596550.45	0.0142	0.0054 *
Moon	81797-04-29 08:53 G	31596919.76	31596919.87	31596920.02	0.0142	0.0124
Earth	81797-04-29 11:17 G	31596919.84	31596919.97	31596920.13	0.0142	0.0117 *
Venus	81799-07-22 00:58 G	31597733.46	31597733.54	31597733.66	0.0143	0.0126
Venus	81800-03-05 13:12 G	31597959.89	31597960.05	31597960.24	0.0143	0.0088
Venus	81800-10-18 01:27 G	31598186.36	31598186.56	31598186.77	0.0143	0.0049
Venus	81801-06-01 13:41 G	31598412.85	31598413.07	31598413.29	0.0143	0.0011
Venus	81802-01-14 01:56 G	31598639.36	31598639.58	31598639.80	0.0143	0.0028
Venus	81802-08-28 13:56 G	31598865.90	31598866.08	31598866.29	0.0143	0.0067
Venus	81803-04-12 02:39 G	31599092.47	31599092.61	31599092.76	0.0143	0.0106
Mercury	81807-11-14 18:15 G	31600770.22	31600770.26	31600770.32	0.0144	0.0132
Mercury	81808-02-10 22:20 G	31600858.35	31600858.43	31600858.53	0.0144	0.0110
Mercury	81808-05-09 02:39 G	31600946.50	31600946.61	31600946.73	0.0144	0.0087
Mercury	81808-08-05 06:58 G	31601034.66	31601034.79	31601034.92	0.0144	0.0063
Mercury	81808-11-01 11:03 G	31601122.83	31601122.96	31601123.10	0.0144	0.0041
Mercury	81809-01-28 15:22 G	31601211.00	31601211.14	31601211.29	0.0144	0.0018
Mercury	81809-04-26 19:41 G	31601299.18	31601299.32	31601299.47	0.0144	0.0007
Mercury	81809-07-24 00:00 G	31601387.36	31601387.50	31601387.64	0.0144	0.0030
Mercury	81809-10-20 04:20 G	31601475.55	31601475.68	31601475.82	0.0144	0.0054

Mercury	81810-01-16 08:39 G	31601563.75	31601563.86	31601563.99	0.0144	0.0078
Mercury	81810-04-14 12:58 G	31601651.95	31601652.04	31601652.15	0.0144	0.0102
Mercury	81810-07-11 17:32 G	31601740.17	31601740.23	31601740.31	0.0144	0.0125
Mars	81819-01-06 00:44 G	31604840.24	31604840.53	31604840.83	0.0142	0.0012
Moon	81833-10-15 23:46 G	31610237.31	31610237.49	31610237.71	0.0137	0.0088
Earth	81833-10-16 02:39 G	31610237.44	31610237.61	31610237.80	0.0137	0.0095 *
Earth	81834-10-20 14:53 G	31610606.89	31610607.12	31610607.37	0.0137	0.0044
Moon	81834-10-20 17:17 G	31610607.01	31610607.22	31610607.46	0.0137	0.0051 *
Moon	81835-10-25 00:29 G	31610976.26	31610976.52	31610976.78	0.0137	0.0013
Earth	81835-10-25 02:39 G	31610976.36	31610976.61	31610976.86	0.0137	0.0007 *
Earth	81836-10-28 13:12 G	31611345.83	31611346.05	31611346.29	0.0136	0.0056
Moon	81836-10-28 15:22 G	31611345.92	31611346.14	31611346.38	0.0136	0.0052 *
Moon	81837-11-01 21:36 G	31611715.25	31611715.40	31611715.57	0.0136	0.0106
Earth	81837-11-01 23:03 G	31611715.32	31611715.46	31611715.64	0.0136	0.0106 *
Venus	81840-06-20 04:05 G	31612676.57	31612676.67	31612676.80	0.0135	0.0114
Venus	81841-02-01 09:51 G	31612902.74	31612902.91	31612903.08	0.0135	0.0082
Venus	81841-09-15 15:22 G	31613128.94	31613129.14	31613129.34	0.0135	0.0050
Venus	81842-04-29 20:39 G	31613355.15	31613355.36	31613355.58	0.0135	0.0019
Venus	81842-12-12 01:56 G	31613581.37	31613581.58	31613581.80	0.0135	0.0013
Venus	81843-07-26 07:12 G	31613807.60	31613807.80	31613808.00	0.0135	0.0044
Venus	81844-03-08 12:29 G	31614033.84	31614034.02	31614034.19	0.0135	0.0075
Venus	81844-10-20 17:17 G	31614260.10	31614260.22	31614260.36	0.0135	0.0107
Mercury	81850-03-02 02:24 G	31616218.54	31616218.60	31616218.67	0.0134	0.0125
Mercury	81850-05-29 08:24 G	31616306.74	31616306.85	31616306.97	0.0134	0.0101
Mercury	81850-08-25 14:24 G	31616394.96	31616395.10	31616395.24	0.0134	0.0077
Mercury	81850-11-21 19:56 G	31616483.18	31616483.33	31616483.50	0.0134	0.0054
Mercury	81851-02-18 01:56 G	31616571.41	31616571.58	31616571.76	0.0134	0.0030
Mercury	81851-05-17 07:41 G	31616659.65	31616659.82	31616660.00	0.0134	0.0007
Mercury	81851-08-13 13:27 G	31616747.89	31616748.06	31616748.24	0.0134	0.0018
Mercury	81851-11-09 19:12 G	31616836.14	31616836.30	31616836.47	0.0135	0.0040

Mercury	81852-02-06 00:44 G	31616924.38	31616924.53	31616924.69	0.0135	0.0064
Mercury	81852-05-04 06:15 G	31617012.64	31617012.76	31617012.90	0.0135	0.0087
Mercury	81852-07-31 12:00 G	31617100.90	31617101.00	31617101.10	0.0135	0.0109
Mercury	81852-10-27 17:17 G	31617189.20	31617189.22	31617189.26	0.0135	0.0132
Moon	81877-04-12 08:10 G	31626121.67	31626121.84	31626122.04	0.0141	0.0096
Earth	81877-04-12 11:32 G	31626121.83	31626121.98	31626122.18	0.0141	0.0102 *
Earth	81878-04-17 07:12 G	31626491.57	31626491.80	31626492.05	0.0141	0.0047
Moon	81878-04-17 10:48 G	31626491.72	31626491.95	31626492.20	0.0141	0.0047 *
Moon	81879-04-22 00:15 G	31626861.25	31626861.51	31626861.77	0.0142	0.0008
Earth	81879-04-22 03:51 G	31626861.40	31626861.66	31626861.91	0.0142	0.0010 *
Earth	81880-04-26 00:29 G	31627231.30	31627231.52	31627231.75	0.0142	0.0066
Moon	81880-04-26 03:22 G	31627231.43	31627231.64	31627231.86	0.0142	0.0073 *
Moon	81881-04-30 19:12 G	31627601.15	31627601.30	31627601.45	0.0142	0.0115
Earth	81881-04-30 21:51 G	31627601.31	31627601.41	31627601.56	0.0142	0.0124 *
Venus	81883-03-22 07:56 G	31628291.83	31628291.83	31628291.86	0.0143	0.0142
Venus	81883-11-03 19:56 G	31628518.19	31628518.33	31628518.49	0.0143	0.0105
Venus	81884-06-17 08:10 G	31628744.65	31628744.84	31628745.04	0.0143	0.0066
Venus	81885-01-29 20:10 G	31628971.13	31628971.34	31628971.57	0.0143	0.0028
Venus	81885-09-13 08:39 G	31629197.64	31629197.86	31629198.08	0.0143	0.0011
Venus	81886-04-27 20:53 G	31629424.17	31629424.37	31629424.58	0.0143	0.0050
Venus	81886-12-10 09:08 G	31629650.72	31629650.88	31629651.06	0.0143	0.0088
Venus	81887-07-24 21:36 G	31629877.31	31629877.40	31629877.51	0.0143	0.0127
Mercury	81891-12-05 01:41 G	31631471.51	31631471.57	31631471.64	0.0144	0.0125
Mercury	81892-03-02 06:00 G	31631559.65	31631559.75	31631559.85	0.0144	0.0102
Mercury	81892-05-29 10:05 G	31631647.81	31631647.92	31631648.04	0.0144	0.0079
Mercury	81892-08-25 14:10 G	31631735.97	31631736.09	31631736.23	0.0144	0.0057
Mercury	81892-11-21 18:29 G	31631824.14	31631824.27	31631824.41	0.0144	0.0034
Mercury	81893-02-17 22:48 G	31631912.31	31631912.45	31631912.60	0.0144	0.0010
Mercury	81893-05-17 03:08 G	31632000.49	31632000.63	31632000.77	0.0144	0.0014
Mercury	81893-08-13 07:27 G	31632088.67	31632088.81	31632088.95	0.0144	0.0037

Mercury	81893-11-09 11:46 G	31632176.86	31632176.99	31632177.12	0.0144	0.0061
Mercury	81894-02-05 16:05 G	31632265.06	31632265.17	31632265.29	0.0144	0.0085
Mercury	81894-05-04 20:24 G	31632353.27	31632353.35	31632353.45	0.0144	0.0109
Mercury	81894-08-01 00:58 G	31632441.49	31632441.54	31632441.60	0.0144	0.0133
Moon	81917-10-17 08:10 G	31640918.68	31640918.84	31640919.05	0.0137	0.0095
Earth	81917-10-17 11:17 G	31640918.80	31640918.97	31640919.18	0.0137	0.0090 *
Earth	81918-10-21 23:46 G	31641288.25	31641288.49	31641288.73	0.0137	0.0039
Moon	81918-10-22 02:10 G	31641288.36	31641288.59	31641288.85	0.0137	0.0032 *
Moon	81919-10-26 08:10 G	31641657.58	31641657.84	31641658.10	0.0136	0.0004
Earth	81919-10-26 11:17 G	31641657.71	31641657.97	31641658.22	0.0136	0.0012 *
Earth	81920-10-29 21:36 G	31642027.19	31642027.40	31642027.64	0.0136	0.0061
Moon	81920-10-29 23:46 G	31642027.29	31642027.49	31642027.72	0.0136	0.0066 *
Moon	81921-11-03 05:03 G	31642396.55	31642396.71	31642396.87	0.0136	0.0106
Earth	81921-11-03 07:27 G	31642396.68	31642396.81	31642396.98	0.0136	0.0110 *
Venus	81924-02-19 12:58 G	31643234.99	31643235.04	31643235.12	0.0135	0.0129
Venus	81924-10-02 18:58 G	31643461.14	31643461.29	31643461.44	0.0135	0.0097
Venus	81925-05-17 00:15 G	31643687.33	31643687.51	31643687.70	0.0135	0.0065
Venus	81925-12-29 05:32 G	31643913.53	31643913.73	31643913.94	0.0135	0.0034
Venus	81926-08-12 11:03 G	31644139.75	31644139.96	31644140.18	0.0135	0.0002
Venus	81927-03-26 16:20 G	31644365.97	31644366.18	31644366.39	0.0135	0.0029
Venus	81927-11-07 21:36 G	31644592.21	31644592.40	31644592.59	0.0135	0.0060
Venus	81928-06-21 02:10 G	31644818.45	31644818.59	31644818.77	0.0135	0.0092
Venus	81929-02-02 07:41 G	31645044.74	31645044.82	31645044.91	0.0135	0.0122
Mercury	81934-03-23 08:53 G	31646919.80	31646919.87	31646919.95	0.0134	0.0120
Mercury	81934-06-19 14:53 G	31647008.00	31647008.12	31647008.25	0.0134	0.0096
Mercury	81934-09-15 20:53 G	31647096.22	31647096.37	31647096.52	0.0134	0.0072
Mercury	81934-12-13 02:39 G	31647184.45	31647184.61	31647184.78	0.0134	0.0048
Mercury	81935-03-11 08:24 G	31647272.68	31647272.85	31647273.03	0.0134	0.0025
Mercury	81935-06-07 14:24 G	31647360.92	31647361.10	31647361.27	0.0134	0.0003
Mercury	81935-09-03 19:56 G	31647449.16	31647449.33	31647449.51	0.0135	0.0022

Mercury	81935-12-01 01:41 G	31647537.41	31647537.57	31647537.73	0.0135	0.0045
Mercury	81936-02-27 07:12 G	31647625.66	31647625.80	31647625.95	0.0135	0.0069
Mercury	81936-05-25 12:44 G	31647713.92	31647714.03	31647714.17	0.0135	0.0092
Mercury	81936-08-21 18:29 G	31647802.18	31647802.27	31647802.36	0.0135	0.0114
Mars	81945-11-09 16:48 G	31651168.92	31651169.20	31651169.51	0.0136	0.0053
Moon	81961-04-13 17:32 G	31656803.08	31656803.23	31656803.42	0.0141	0.0103
Earth	81961-04-13 21:36 G	31656803.22	31656803.40	31656803.59	0.0141	0.0096 *
Earth	81962-04-18 17:03 G	31657172.97	31657173.21	31657173.46	0.0141	0.0041
Moon	81962-04-18 20:39 G	31657173.12	31657173.36	31657173.61	0.0141	0.0038 *
Moon	81963-04-23 09:51 G	31657542.65	31657542.91	31657543.16	0.0142	0.0018
Earth	81963-04-23 13:27 G	31657542.81	31657543.06	31657543.31	0.0142	0.0015 *
Earth	81964-04-27 10:05 G	31657912.71	31657912.92	31657913.15	0.0142	0.0072
Moon	81964-04-27 13:56 G	31657912.86	31657913.08	31657913.31	0.0142	0.0066 *
Moon	81965-05-02 04:34 G	31658282.64	31658282.69	31658282.79	0.0142	0.0137
Earth	81965-05-02 08:10 G	31658282.74	31658282.84	31658282.95	0.0142	0.0129 *
Venus	81967-07-05 02:10 G	31659076.49	31659076.59	31659076.71	0.0143	0.0122
Venus	81968-02-16 14:24 G	31659302.93	31659303.10	31659303.28	0.0143	0.0084
Venus	81968-09-30 02:24 G	31659529.40	31659529.60	31659529.82	0.0143	0.0046
Venus	81969-05-14 14:53 G	31659755.90	31659756.12	31659756.34	0.0143	0.0007
Venus	81969-12-27 03:08 G	31659982.42	31659982.63	31659982.85	0.0143	0.0032
Venus	81970-08-10 15:36 G	31660208.96	31660209.15	31660209.34	0.0143	0.0070
Venus	81971-03-25 03:51 G	31660435.53	31660435.66	31660435.82	0.0143	0.0110
Mercury	81975-09-29 05:03 G	31662084.69	31662084.71	31662084.74	0.0144	0.0140
Mercury	81975-12-26 09:08 G	31662172.81	31662172.88	31662172.96	0.0144	0.0118
Mercury	81976-03-23 13:27 G	31662260.95	31662261.06	31662261.16	0.0144	0.0095
Mercury	81976-06-19 17:32 G	31662349.11	31662349.23	31662349.35	0.0144	0.0072
Mercury	81976-09-15 21:36 G	31662437.27	31662437.40	31662437.54	0.0144	0.0049
Mercury	81976-12-13 01:56 G	31662525.44	31662525.58	31662525.72	0.0144	0.0026
Mercury	81977-03-11 06:15 G	31662613.62	31662613.76	31662613.90	0.0144	0.0003
Mercury	81977-06-07 10:34 G	31662701.80	31662701.94	31662702.08	0.0144	0.0021

Mercury	81977-09-03 14:53 G	31662789.98	31662790.12	31662790.26	0.0144	0.0044
Mercury	81977-11-30 19:12 G	31662878.17	31662878.30	31662878.43	0.0144	0.0068
Mercury	81978-02-26 23:32 G	31662966.37	31662966.48	31662966.59	0.0144	0.0092
Mercury	81978-05-26 03:51 G	31663054.58	31663054.66	31663054.75	0.0144	0.0116
Mercury	81978-08-22 08:24 G	31663142.82	31663142.85	31663142.88	0.0144	0.0140
Mars	81986-05-26 04:48 G	31665976.44	31665976.70	31665976.98	0.0142	0.0064
Earth	82000-10-13 08:39 G	31671230.83	31671230.86	31671230.89	0.0137	0.0136

83RD MILLENNIUM CE

This is a list of transits visible from Uranus in the 83rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	82001-10-17 17:32 G		31671600.03	31671600.23	31671600.45	0.0137	0.0079	
Earth	82001-10-17 20:53 G		31671600.19	31671600.37	31671600.59	0.0137	0.0085	*
Earth	82002-10-22 09:08 G		31671969.64	31671969.88	31671970.13	0.0137	0.0034	
Moon	82002-10-22 12:15 G		31671969.78	31671970.01	31671970.26	0.0137	0.0041	*
Moon	82003-10-26 17:32 G		31672338.98	31672339.23	31672339.49	0.0136	0.0024	
Earth	82003-10-26 20:24 G		31672339.11	31672339.35	31672339.61	0.0136	0.0017	*
Earth	82004-10-30 06:44 G		31672708.58	31672708.78	31672709.02	0.0136	0.0067	
Moon	82004-10-30 10:20 G		31672708.71	31672708.93	31672709.15	0.0136	0.0060	*
Moon	82005-11-03 14:24 G		31673077.98	31673078.10	31673078.23	0.0136	0.0117	
Earth	82005-11-03 16:48 G		31673078.08	31673078.20	31673078.35	0.0136	0.0115	*
Venus	82008-06-02 04:05 G		31674019.56	31674019.67	31674019.80	0.0135	0.0111	
Venus	82009-01-14 09:22 G		31674245.73	31674245.89	31674246.08	0.0135	0.0080	

Venus	82009-08-28 15:22 G	31674471.94	31674472.14	31674472.34	0.0135	0.0048
Venus	82010-04-11 20:39 G	31674698.15	31674698.36	31674698.57	0.0135	0.0017
Venus	82010-11-24 01:56 G	31674924.36	31674924.58	31674924.79	0.0135	0.0014
Venus	82011-07-08 06:58 G	31675150.59	31675150.79	31675151.00	0.0135	0.0046
Venus	82012-02-19 12:00 G	31675376.84	31675377.00	31675377.19	0.0135	0.0077
Venus	82012-10-02 17:03 G	31675603.10	31675603.21	31675603.36	0.0135	0.0108
Mercury	82018-04-12 15:22 G	31677621.06	31677621.14	31677621.24	0.0134	0.0115
Mercury	82018-07-09 21:22 G	31677709.27	31677709.39	31677709.53	0.0134	0.0091
Mercury	82018-10-06 03:22 G	31677797.49	31677797.64	31677797.80	0.0134	0.0067
Mercury	82019-01-02 09:22 G	31677885.72	31677885.89	31677886.05	0.0134	0.0043
Mercury	82019-03-31 15:08 G	31677973.96	31677974.13	31677974.30	0.0134	0.0019
Mercury	82019-06-27 20:53 G	31678062.20	31678062.37	31678062.55	0.0134	0.0005
Mercury	82019-09-24 02:39 G	31678150.44	31678150.61	31678150.78	0.0134	0.0028
Mercury	82019-12-21 08:24 G	31678238.69	31678238.85	31678239.01	0.0134	0.0051
Mercury	82020-03-18 13:56 G	31678326.94	31678327.08	31678327.23	0.0134	0.0074
Mercury	82020-06-14 19:27 G	31678415.20	31678415.31	31678415.44	0.0134	0.0097
Mercury	82020-09-11 00:58 G	31678503.47	31678503.54	31678503.63	0.0135	0.0120
Mars	82030-07-05 18:15 G	31682088.01	31682088.26	31682088.56	0.0136	0.0072
Moon	82045-04-14 02:24 G	31687484.41	31687484.60	31687484.80	0.0141	0.0086
Earth	82045-04-14 05:46 G	31687484.55	31687484.74	31687484.93	0.0141	0.0092 *
Earth	82046-04-19 01:12 G	31687854.30	31687854.55	31687854.79	0.0141	0.0037
Moon	82046-04-19 04:34 G	31687854.46	31687854.69	31687854.95	0.0141	0.0040 *
Moon	82047-04-23 17:46 G	31688224.00	31688224.24	31688224.50	0.0142	0.0020
Earth	82047-04-23 21:22 G	31688224.15	31688224.39	31688224.65	0.0142	0.0020 *
Earth	82048-04-27 18:29 G	31688594.06	31688594.27	31688594.48	0.0142	0.0076
Moon	82048-04-27 21:36 G	31688594.21	31688594.40	31688594.62	0.0142	0.0083 *
Moon	82049-05-02 12:15 G	31688963.92	31688964.01	31688964.15	0.0142	0.0126
Earth	82049-05-02 15:51 G	31688964.11	31688964.16	31688964.27	0.0142	0.0135 *
Venus	82051-03-04 07:27 G	31689634.78	31689634.81	31689634.86	0.0143	0.0140
Venus	82051-10-16 19:41 G	31689861.17	31689861.32	31689861.47	0.0143	0.0102

Venus	82052-05-30 07:41 G	31690087.63	31690087.82	31690088.02	0.0143	0.0064
Venus	82053-01-11 19:56 G	31690314.12	31690314.33	31690314.55	0.0143	0.0026
Venus	82053-08-26 08:24 G	31690540.63	31690540.85	31690541.07	0.0143	0.0013
Venus	82054-04-09 20:53 G	31690767.16	31690767.37	31690767.57	0.0143	0.0052
Venus	82054-11-22 08:53 G	31690993.72	31690993.87	31690994.06	0.0143	0.0091
Venus	82055-07-06 21:36 G	31691220.31	31691220.40	31691220.50	0.0143	0.0129
Mercury	82059-10-19 12:00 G	31692785.96	31692786.00	31692786.05	0.0144	0.0135
Mercury	82060-01-15 16:20 G	31692874.09	31692874.18	31692874.27	0.0144	0.0112
Mercury	82060-04-12 20:10 G	31692962.24	31692962.34	31692962.46	0.0144	0.0090
Mercury	82060-07-10 00:29 G	31693050.40	31693050.52	31693050.65	0.0144	0.0067
Mercury	82060-10-06 04:48 G	31693138.57	31693138.70	31693138.84	0.0144	0.0043
Mercury	82061-01-02 09:08 G	31693226.74	31693226.88	31693227.02	0.0144	0.0020
Mercury	82061-03-31 13:12 G	31693314.91	31693315.05	31693315.20	0.0144	0.0006
Mercury	82061-06-27 17:32 G	31693403.09	31693403.23	31693403.38	0.0144	0.0027
Mercury	82061-09-23 21:51 G	31693491.28	31693491.41	31693491.55	0.0144	0.0051
Mercury	82061-12-21 02:10 G	31693579.47	31693579.59	31693579.72	0.0144	0.0074
Mercury	82062-03-19 06:44 G	31693667.67	31693667.78	31693667.88	0.0144	0.0098
Mercury	82062-06-15 11:03 G	31693755.89	31693755.96	31693756.04	0.0144	0.0122
Mars	82071-01-19 06:29 G	31696895.52	31696895.77	31696896.04	0.0142	0.0069
Earth	82084-10-13 17:32 G	31701912.17	31701912.23	31701912.32	0.0137	0.0131
Moon	82084-10-13 21:22 G	31701912.32	31701912.39	31701912.48	0.0137	0.0130 *
Moon	82085-10-18 02:53 G	31702281.43	31702281.62	31702281.83	0.0137	0.0084
Earth	82085-10-18 06:15 G	31702281.57	31702281.76	31702281.98	0.0137	0.0080 *
Earth	82086-10-22 18:15 G	31702651.02	31702651.26	31702651.51	0.0137	0.0030
Moon	82086-10-22 21:51 G	31702651.16	31702651.41	31702651.66	0.0137	0.0022 *
Moon	82087-10-27 02:10 G	31703020.34	31703020.59	31703020.84	0.0136	0.0013
Earth	82087-10-27 05:32 G	31703020.49	31703020.73	31703020.99	0.0136	0.0022 *
Earth	82088-10-30 16:05 G	31703389.96	31703390.17	31703390.39	0.0136	0.0071
Moon	82088-10-30 19:12 G	31703390.10	31703390.30	31703390.51	0.0136	0.0077 *
Moon	82089-11-03 22:20 G	31703759.31	31703759.43	31703759.58	0.0136	0.0115

Earth	82089-11-04 01:41 G	31703759.47	31703759.57	31703759.71	0.0136	0.0120	*
Venus	82092-01-31 12:58 G	31704577.99	31704578.04	31704578.14	0.0135	0.0127	
Venus	82092-09-13 18:44 G	31704804.14	31704804.28	31704804.45	0.0135	0.0095	
Venus	82093-04-28 00:29 G	31705030.33	31705030.52	31705030.71	0.0135	0.0063	
Venus	82093-12-10 05:46 G	31705256.53	31705256.74	31705256.95	0.0135	0.0032	
Venus	82094-07-24 11:03 G	31705482.75	31705482.96	31705483.18	0.0135	0.0002	
Venus	82095-03-07 16:20 G	31705708.97	31705709.18	31705709.39	0.0135	0.0031	
Venus	82095-10-19 21:22 G	31705935.21	31705935.39	31705935.59	0.0135	0.0062	
Venus	82096-06-02 02:24 G	31706161.46	31706161.60	31706161.77	0.0135	0.0093	
Venus	82097-01-14 07:12 G	31706387.74	31706387.80	31706387.91	0.0135	0.0124	
Mercury	82102-02-04 15:51 G	31708234.15	31708234.16	31708234.18	0.0134	0.0134	
Mercury	82102-05-03 21:51 G	31708322.32	31708322.41	31708322.52	0.0134	0.0110	
Mercury	82102-07-31 03:51 G	31708410.53	31708410.66	31708410.80	0.0134	0.0086	
Mercury	82102-10-27 09:51 G	31708498.76	31708498.91	31708499.07	0.0134	0.0062	
Mercury	82103-01-23 15:36 G	31708586.99	31708587.15	31708587.32	0.0134	0.0038	
Mercury	82103-04-21 21:36 G	31708675.22	31708675.40	31708675.57	0.0134	0.0014	
Mercury	82103-07-19 03:22 G	31708763.47	31708763.64	31708763.81	0.0134	0.0009	
Mercury	82103-10-15 09:08 G	31708851.71	31708851.88	31708852.05	0.0134	0.0032	
Mercury	82104-01-11 14:39 G	31708939.96	31708940.11	31708940.27	0.0134	0.0056	
Mercury	82104-04-08 20:24 G	31709028.21	31709028.35	31709028.49	0.0134	0.0079	
Mercury	82104-07-06 01:56 G	31709116.48	31709116.58	31709116.70	0.0134	0.0101	
Mercury	82104-10-02 07:12 G	31709204.76	31709204.80	31709204.88	0.0134	0.0125	
Mars	82113-03-28 21:08 G	31712304.31	31712304.38	31712304.51	0.0136	0.0129	
Moon	82128-04-10 20:10 G	31717796.28	31717796.34	31717796.41	0.0141	0.0136	
Moon	82129-04-15 08:53 G	31718165.70	31718165.87	31718166.07	0.0141	0.0096	
Earth	82129-04-15 12:15 G	31718165.82	31718166.01	31718166.22	0.0141	0.0089	*
Earth	82130-04-20 07:56 G	31718535.58	31718535.83	31718536.08	0.0141	0.0033	
Moon	82130-04-20 11:03 G	31718535.71	31718535.96	31718536.22	0.0141	0.0029	*
Moon	82131-04-25 00:29 G	31718905.28	31718905.52	31718905.78	0.0142	0.0025	
Earth	82131-04-25 04:05 G	31718905.43	31718905.67	31718905.93	0.0142	0.0024	*

Earth	82132-04-29 00:58 G	31719275.35	31719275.54	31719275.77	0.0142	0.0081
Moon	82132-04-29 05:03 G	31719275.50	31719275.71	31719275.93	0.0142	0.0076 *
Earth	82133-05-03 23:03 G	31719645.42	31719645.46	31719645.54	0.0142	0.0138
Venus	82135-06-17 00:00 G	31720419.39	31720419.50	31720419.62	0.0143	0.0121
Venus	82136-01-29 12:15 G	31720645.83	31720646.01	31720646.18	0.0143	0.0083
Venus	82136-09-12 00:15 G	31720872.31	31720872.51	31720872.72	0.0143	0.0045
Venus	82137-04-26 12:44 G	31721098.81	31721099.03	31721099.25	0.0143	0.0007
Venus	82137-12-09 00:44 G	31721325.32	31721325.53	31721325.75	0.0143	0.0033
Venus	82138-07-23 13:12 G	31721551.86	31721552.05	31721552.25	0.0143	0.0071
Venus	82139-03-07 01:27 G	31721778.44	31721778.56	31721778.72	0.0143	0.0110
Mercury	82143-11-09 18:44 G	31723487.23	31723487.28	31723487.35	0.0144	0.0131
Mercury	82144-02-05 23:03 G	31723575.37	31723575.46	31723575.55	0.0144	0.0108
Mercury	82144-05-04 03:08 G	31723663.52	31723663.63	31723663.75	0.0144	0.0085
Mercury	82144-07-31 07:12 G	31723751.68	31723751.80	31723751.94	0.0144	0.0063
Mercury	82144-10-27 11:32 G	31723839.85	31723839.98	31723840.12	0.0144	0.0039
Mercury	82145-01-23 15:51 G	31723928.02	31723928.16	31723928.30	0.0144	0.0016
Mercury	82145-04-21 20:10 G	31724016.19	31724016.34	31724016.48	0.0144	0.0008
Mercury	82145-07-19 00:15 G	31724104.38	31724104.51	31724104.66	0.0144	0.0032
Mercury	82145-10-15 04:34 G	31724192.56	31724192.69	31724192.83	0.0144	0.0055
Mercury	82146-01-11 08:53 G	31724280.76	31724280.87	31724281.00	0.0144	0.0079
Mercury	82146-04-09 13:12 G	31724368.96	31724369.05	31724369.16	0.0144	0.0103
Mercury	82146-07-06 17:46 G	31724457.18	31724457.24	31724457.31	0.0144	0.0127
Earth	82168-10-15 02:24 G	31732593.53	31732593.60	31732593.71	0.0137	0.0127
Moon	82168-10-15 05:46 G	31732593.67	31732593.74	31732593.85	0.0137	0.0129 *
Moon	82169-10-19 11:32 G	31732962.77	31732962.98	31732963.21	0.0137	0.0071
Earth	82169-10-19 15:08 G	31732962.94	31732963.13	31732963.36	0.0137	0.0076 *
Earth	82170-10-24 03:22 G	31733332.39	31733332.64	31733332.89	0.0137	0.0025
Moon	82170-10-24 06:58 G	31733332.54	31733332.79	31733333.04	0.0137	0.0031 *
Moon	82171-10-28 11:03 G	31733701.72	31733701.96	31733702.22	0.0136	0.0034
Earth	82171-10-28 14:39 G	31733701.87	31733702.11	31733702.37	0.0136	0.0026 *

Earth	82172-11-01 01:12 G	31734071.34	31734071.55	31734071.76	0.0136	0.0075
Moon	82172-11-01 04:48 G	31734071.49	31734071.70	31734071.92	0.0136	0.0068 *
Moon	82173-11-05 07:27 G	31734440.76	31734440.81	31734440.91	0.0136	0.0129
Earth	82173-11-05 11:17 G	31734440.88	31734440.97	31734441.07	0.0136	0.0124 *
Venus	82176-05-15 04:05 G	31735362.56	31735362.67	31735362.81	0.0135	0.0110
Venus	82176-12-27 09:36 G	31735588.74	31735588.90	31735589.09	0.0135	0.0078
Venus	82177-08-10 15:08 G	31735814.94	31735815.13	31735815.34	0.0135	0.0047
Venus	82178-03-24 20:39 G	31736041.15	31736041.36	31736041.58	0.0135	0.0016
Venus	82178-11-06 01:56 G	31736267.37	31736267.58	31736267.80	0.0135	0.0016
Venus	82179-06-20 07:12 G	31736493.60	31736493.80	31736494.00	0.0135	0.0047
Venus	82180-02-01 12:15 G	31736719.84	31736720.01	31736720.18	0.0135	0.0078
Venus	82180-09-14 17:17 G	31736946.10	31736946.22	31736946.35	0.0135	0.0109
Mercury	82186-02-24 22:20 G	31738935.39	31738935.43	31738935.50	0.0134	0.0128
Mercury	82186-05-24 04:48 G	31739023.58	31739023.70	31739023.81	0.0134	0.0104
Mercury	82186-08-20 10:20 G	31739111.80	31739111.93	31739112.08	0.0134	0.0080
Mercury	82186-11-16 16:20 G	31739200.03	31739200.18	31739200.35	0.0134	0.0056
Mercury	82187-02-12 22:20 G	31739288.26	31739288.43	31739288.61	0.0134	0.0032
Mercury	82187-05-12 04:20 G	31739376.50	31739376.68	31739376.85	0.0134	0.0009
Mercury	82187-08-08 10:05 G	31739464.75	31739464.92	31739465.09	0.0134	0.0015
Mercury	82187-11-04 15:36 G	31739552.99	31739553.15	31739553.33	0.0134	0.0039
Mercury	82188-01-31 21:22 G	31739641.24	31739641.39	31739641.55	0.0134	0.0062
Mercury	82188-04-29 03:08 G	31739729.50	31739729.63	31739729.77	0.0134	0.0084
Mercury	82188-07-26 08:39 G	31739817.77	31739817.86	31739817.97	0.0134	0.0107
Mercury	82188-10-22 14:24 G	31739906.06	31739906.10	31739906.14	0.0134	0.0130
Mars	82197-11-21 21:36 G	31743223.09	31743223.40	31743223.72	0.0136	0.0007
Earth	82212-04-12 00:44 G	31748477.51	31748477.53	31748477.55	0.0141	0.0140
Moon	82213-04-16 16:48 G	31748847.01	31748847.20	31748847.42	0.0141	0.0079
Earth	82213-04-16 19:12 G	31748847.11	31748847.30	31748847.51	0.0141	0.0086 *
Earth	82214-04-21 14:39 G	31749216.87	31749217.11	31749217.36	0.0141	0.0030
Moon	82214-04-21 18:00 G	31749217.00	31749217.25	31749217.50	0.0141	0.0033 *

Moon	82215-04-26 08:10 G	31749586.60	31749586.84	31749587.09	0.0142	0.0029
Earth	82215-04-26 11:03 G	31749586.72	31749586.96	31749587.22	0.0142	0.0027 *
Earth	82216-04-30 07:56 G	31749956.64	31749956.83	31749957.05	0.0142	0.0085
Moon	82216-04-30 11:17 G	31749956.79	31749956.97	31749957.19	0.0142	0.0090 *
Moon	82217-05-05 02:24 G	31750326.54	31750326.60	31750326.68	0.0142	0.0136
Venus	82219-02-15 04:05 G	31750977.64	31750977.67	31750977.71	0.0143	0.0140
Venus	82219-09-29 15:51 G	31751204.02	31751204.16	31751204.33	0.0143	0.0103
Venus	82220-05-13 04:05 G	31751430.48	31751430.67	31751430.87	0.0143	0.0065
Venus	82220-12-25 16:20 G	31751656.97	31751657.18	31751657.40	0.0143	0.0026
Venus	82221-08-09 04:34 G	31751883.48	31751883.69	31751883.92	0.0143	0.0013
Venus	82222-03-23 16:48 G	31752110.01	31752110.20	31752110.42	0.0143	0.0052
Venus	82222-11-05 05:17 G	31752336.56	31752336.72	31752336.90	0.0143	0.0090
Venus	82223-06-19 17:46 G	31752563.15	31752563.24	31752563.34	0.0143	0.0128
Mercury	82227-12-01 01:27 G	31754188.50	31754188.56	31754188.63	0.0144	0.0127
Mercury	82228-02-27 05:32 G	31754276.64	31754276.73	31754276.83	0.0144	0.0105
Mercury	82228-05-25 09:51 G	31754364.80	31754364.91	31754365.03	0.0144	0.0082
Mercury	82228-08-21 13:56 G	31754452.96	31754453.08	31754453.21	0.0144	0.0059
Mercury	82228-11-17 18:15 G	31754541.12	31754541.26	31754541.40	0.0144	0.0035
Mercury	82229-02-13 22:34 G	31754629.30	31754629.44	31754629.58	0.0144	0.0012
Mercury	82229-05-13 02:39 G	31754717.47	31754717.61	31754717.76	0.0144	0.0013
Mercury	82229-08-09 06:58 G	31754805.66	31754805.79	31754805.93	0.0144	0.0035
Mercury	82229-11-05 11:17 G	31754893.84	31754893.97	31754894.10	0.0144	0.0059
Mercury	82230-02-01 15:36 G	31754982.04	31754982.15	31754982.27	0.0144	0.0083
Mercury	82230-04-30 19:56 G	31755070.24	31755070.33	31755070.43	0.0144	0.0107
Mercury	82230-07-28 00:29 G	31755158.47	31755158.52	31755158.58	0.0144	0.0131
Mars	82238-06-08 23:32 G	31758031.19	31758031.48	31758031.78	0.0142	0.0016
Earth	82252-10-16 10:20 G	31763274.84	31763274.93	31763275.05	0.0137	0.0124
Moon	82252-10-16 13:56 G	31763274.99	31763275.08	31763275.21	0.0137	0.0124 *
Moon	82253-10-20 19:41 G	31763644.13	31763644.32	31763644.55	0.0137	0.0076
Earth	82253-10-20 23:17 G	31763644.26	31763644.47	31763644.69	0.0137	0.0072 *

Earth	82254-10-25 11:32 G	31764013.73	31764013.98	31764014.23	0.0137	0.0021
Moon	82254-10-25 15:08 G	31764013.88	31764014.13	31764014.38	0.0137	0.0014 *
Moon	82255-10-29 19:12 G	31764383.05	31764383.30	31764383.55	0.0136	0.0022
Earth	82255-10-29 22:48 G	31764383.20	31764383.45	31764383.70	0.0136	0.0030 *
Earth	82256-11-02 09:08 G	31764752.69	31764752.88	31764753.10	0.0136	0.0080
Moon	82256-11-02 12:44 G	31764752.85	31764753.03	31764753.23	0.0136	0.0087 *
Moon	82257-11-06 15:22 G	31765122.06	31765122.14	31765122.27	0.0136	0.0124
Earth	82257-11-06 19:27 G	31765122.25	31765122.31	31765122.40	0.0136	0.0129 *
Venus	82260-01-14 12:58 G	31765920.97	31765921.04	31765921.14	0.0135	0.0124
Venus	82260-08-27 18:44 G	31766147.14	31766147.28	31766147.45	0.0135	0.0093
Venus	82261-04-11 00:29 G	31766373.33	31766373.52	31766373.71	0.0135	0.0062
Venus	82261-11-23 05:46 G	31766599.53	31766599.74	31766599.95	0.0135	0.0030
Venus	82262-07-07 11:03 G	31766825.74	31766825.96	31766826.17	0.0135	0.0001
Venus	82263-02-18 16:05 G	31767051.97	31767052.17	31767052.38	0.0135	0.0032
Venus	82263-10-02 21:22 G	31767278.20	31767278.39	31767278.58	0.0135	0.0063
Venus	82264-05-16 02:24 G	31767504.45	31767504.60	31767504.76	0.0135	0.0094
Venus	82264-12-28 06:58 G	31767730.73	31767730.79	31767730.89	0.0135	0.0125
Mercury	82270-03-18 05:03 G	31769636.65	31769636.71	31769636.79	0.0134	0.0123
Mercury	82270-06-14 11:03 G	31769724.85	31769724.96	31769725.09	0.0134	0.0099
Mercury	82270-09-10 17:03 G	31769813.07	31769813.21	31769813.36	0.0134	0.0075
Mercury	82270-12-07 23:03 G	31769901.30	31769901.46	31769901.63	0.0134	0.0051
Mercury	82271-03-06 04:48 G	31769989.54	31769989.70	31769989.88	0.0134	0.0028
Mercury	82271-06-02 10:48 G	31770077.78	31770077.95	31770078.13	0.0134	0.0004
Mercury	82271-08-29 16:34 G	31770166.02	31770166.19	31770166.37	0.0134	0.0021
Mercury	82271-11-25 22:20 G	31770254.27	31770254.43	31770254.60	0.0134	0.0044
Mercury	82272-02-22 04:05 G	31770342.52	31770342.67	31770342.82	0.0134	0.0067
Mercury	82272-05-20 09:51 G	31770430.78	31770430.91	31770431.04	0.0134	0.0090
Mercury	82272-08-16 15:22 G	31770519.05	31770519.14	31770519.24	0.0134	0.0113
Mars	82282-07-18 22:05 G	31774142.28	31774142.42	31774142.60	0.0136	0.0117
Earth	82296-04-12 08:53 G	31779158.84	31779158.87	31779158.96	0.0141	0.0137

Moon	82296-04-12 11:03 G	31779158.86	31779158.96	31779159.06	0.0141	0.0129 *
Moon	82297-04-17 01:41 G	31779528.39	31779528.57	31779528.77	0.0141	0.0089
Earth	82297-04-17 03:51 G	31779528.47	31779528.66	31779528.88	0.0141	0.0081 *
Earth	82298-04-21 23:32 G	31779898.23	31779898.48	31779898.73	0.0141	0.0025
Moon	82298-04-22 01:56 G	31779898.32	31779898.58	31779898.84	0.0141	0.0020 *
Moon	82299-04-26 16:48 G	31780267.96	31780268.20	31780268.45	0.0142	0.0032
Earth	82299-04-26 19:41 G	31780268.08	31780268.32	31780268.58	0.0142	0.0033 *
Earth	82300-05-01 16:48 G	31780638.02	31780638.20	31780638.41	0.0142	0.0090
Moon	82300-05-01 19:56 G	31780638.14	31780638.33	31780638.55	0.0142	0.0087 *
Venus	82303-05-30 21:08 G	31781762.27	31781762.38	31781762.50	0.0143	0.0121
Venus	82304-01-12 09:08 G	31781988.71	31781988.88	31781989.07	0.0143	0.0083
Venus	82304-08-25 21:22 G	31782215.18	31782215.39	31782215.60	0.0143	0.0045
Venus	82305-04-09 09:51 G	31782441.69	31782441.91	31782442.13	0.0143	0.0007
Venus	82305-11-21 21:51 G	31782668.20	31782668.41	31782668.63	0.0143	0.0032
Venus	82306-07-06 10:05 G	31782894.73	31782894.92	31782895.12	0.0143	0.0071
Venus	82307-02-17 22:05 G	31783121.30	31783121.42	31783121.58	0.0143	0.0110
Mercury	82311-12-22 08:24 G	31784889.78	31784889.85	31784889.93	0.0144	0.0122
Mercury	82312-03-19 12:29 G	31784977.93	31784978.02	31784978.13	0.0144	0.0100
Mercury	82312-06-15 16:34 G	31785066.08	31785066.19	31785066.32	0.0144	0.0077
Mercury	82312-09-11 20:53 G	31785154.24	31785154.37	31785154.50	0.0144	0.0054
Mercury	82312-12-09 01:12 G	31785242.41	31785242.55	31785242.69	0.0144	0.0030
Mercury	82313-03-07 05:32 G	31785330.58	31785330.73	31785330.87	0.0144	0.0008
Mercury	82313-06-03 09:36 G	31785418.76	31785418.90	31785419.05	0.0144	0.0017
Mercury	82313-08-30 13:56 G	31785506.95	31785507.08	31785507.22	0.0144	0.0040
Mercury	82313-11-26 18:15 G	31785595.14	31785595.26	31785595.39	0.0144	0.0064
Mercury	82314-02-22 22:34 G	31785683.33	31785683.44	31785683.56	0.0144	0.0088
Mercury	82314-05-22 02:53 G	31785771.54	31785771.62	31785771.72	0.0144	0.0112
Mercury	82314-08-18 07:27 G	31785859.77	31785859.81	31785859.86	0.0144	0.0136
Mars	82323-02-02 23:03 G	31788950.28	31788950.46	31788950.64	0.0142	0.0112
Earth	82336-10-17 18:44 G	31793956.16	31793956.28	31793956.41	0.0137	0.0120

Moon	82336-10-17 21:22 G	31793956.29	31793956.39	31793956.54	0.0137	0.0120	*
Moon	82337-10-22 04:05 G	31794325.46	31794325.67	31794325.90	0.0137	0.0065	
Earth	82337-10-22 07:27 G	31794325.60	31794325.81	31794326.04	0.0137	0.0068	*
Earth	82338-10-26 19:41 G	31794695.07	31794695.32	31794695.58	0.0137	0.0017	
Moon	82338-10-26 23:03 G	31794695.21	31794695.46	31794695.71	0.0137	0.0022	*
Moon	82339-10-31 03:36 G	31795064.42	31795064.65	31795064.90	0.0136	0.0042	
Earth	82339-10-31 07:12 G	31795064.56	31795064.80	31795065.05	0.0136	0.0034	*
Earth	82340-11-03 18:00 G	31795434.05	31795434.25	31795434.45	0.0136	0.0085	
Moon	82340-11-03 21:08 G	31795434.19	31795434.38	31795434.61	0.0136	0.0078	*
Earth	82341-11-08 04:05 G	31795803.65	31795803.67	31795803.73	0.0136	0.0134	
Venus	82344-04-28 04:05 G	31796705.55	31796705.67	31796705.80	0.0135	0.0108	
Venus	82344-12-10 09:36 G	31796931.73	31796931.90	31796932.08	0.0135	0.0076	
Venus	82345-07-24 14:53 G	31797157.92	31797158.12	31797158.33	0.0135	0.0045	
Venus	82346-03-07 20:24 G	31797384.13	31797384.35	31797384.56	0.0135	0.0014	
Venus	82346-10-20 01:41 G	31797610.35	31797610.57	31797610.78	0.0135	0.0017	
Venus	82347-06-03 06:29 G	31797836.58	31797836.77	31797836.98	0.0135	0.0049	
Venus	82348-01-15 11:46 G	31798062.82	31798062.99	31798063.17	0.0135	0.0079	
Venus	82348-08-28 16:48 G	31798289.08	31798289.20	31798289.33	0.0135	0.0110	
Mercury	82354-04-08 12:00 G	31800337.92	31800338.00	31800338.09	0.0134	0.0117	
Mercury	82354-07-05 17:46 G	31800426.12	31800426.24	31800426.38	0.0134	0.0093	
Mercury	82354-10-01 23:46 G	31800514.35	31800514.49	31800514.65	0.0134	0.0069	
Mercury	82354-12-29 05:46 G	31800602.58	31800602.74	31800602.91	0.0134	0.0045	
Mercury	82355-03-27 11:46 G	31800690.82	31800690.99	31800691.17	0.0134	0.0021	
Mercury	82355-06-23 17:46 G	31800779.06	31800779.24	31800779.41	0.0134	0.0004	
Mercury	82355-09-19 23:32 G	31800867.31	31800867.48	31800867.65	0.0134	0.0027	
Mercury	82355-12-17 05:17 G	31800955.56	31800955.72	31800955.88	0.0134	0.0050	
Mercury	82356-03-14 10:48 G	31801043.81	31801043.95	31801044.10	0.0134	0.0073	
Mercury	82356-06-10 16:20 G	31801132.08	31801132.18	31801132.31	0.0134	0.0097	
Mercury	82356-09-06 22:20 G	31801220.35	31801220.43	31801220.51	0.0134	0.0119	
Mars	82365-04-11 07:41 G	31804358.58	31804358.82	31804359.10	0.0136	0.0077	

Earth	82380-04-13 19:12 G	31809840.24	31809840.30	31809840.42	0.0141	0.0132
Moon	82380-04-13 20:24 G	31809840.33	31809840.35	31809840.42	0.0141	0.0139 *
Moon	82381-04-18 13:12 G	31810209.85	31810210.05	31810210.27	0.0141	0.0069
Earth	82381-04-18 14:24 G	31810209.89	31810210.10	31810210.32	0.0141	0.0076 *
Earth	82382-04-23 10:05 G	31810579.67	31810579.92	31810580.17	0.0141	0.0019
Moon	82382-04-23 12:15 G	31810579.76	31810580.01	31810580.27	0.0141	0.0024 *
Moon	82383-04-28 04:20 G	31810949.45	31810949.68	31810949.92	0.0142	0.0041
Earth	82383-04-28 06:29 G	31810949.53	31810949.77	31810950.02	0.0142	0.0038 *
Earth	82384-05-02 03:22 G	31811319.47	31811319.64	31811319.84	0.0142	0.0096
Moon	82384-05-02 06:29 G	31811319.59	31811319.77	31811319.96	0.0142	0.0099 *
Venus	82387-01-28 03:22 G	31812320.60	31812320.64	31812320.71	0.0143	0.0138
Venus	82387-09-11 15:36 G	31812547.00	31812547.15	31812547.31	0.0143	0.0100
Venus	82388-04-25 03:36 G	31812773.46	31812773.65	31812773.85	0.0143	0.0062
Venus	82388-12-07 15:51 G	31812999.94	31813000.16	31813000.38	0.0143	0.0024
Venus	82389-07-22 04:05 G	31813226.45	31813226.67	31813226.89	0.0143	0.0014
Venus	82390-03-05 16:20 G	31813452.98	31813453.18	31813453.39	0.0143	0.0053
Venus	82390-10-18 04:20 G	31813679.52	31813679.68	31813679.86	0.0143	0.0092
Venus	82391-06-01 16:34 G	31813906.11	31813906.19	31813906.30	0.0143	0.0130
Mercury	82395-10-15 11:46 G	31815502.95	31815502.99	31815503.02	0.0144	0.0138
Mercury	82396-01-11 15:36 G	31815591.08	31815591.15	31815591.24	0.0144	0.0116
Mercury	82396-04-08 19:56 G	31815679.22	31815679.33	31815679.43	0.0144	0.0093
Mercury	82396-07-06 00:00 G	31815767.38	31815767.50	31815767.62	0.0144	0.0070
Mercury	82396-10-02 04:20 G	31815855.54	31815855.68	31815855.81	0.0144	0.0047
Mercury	82396-12-29 08:24 G	31815943.71	31815943.85	31815943.99	0.0144	0.0024
Mercury	82397-03-27 12:44 G	31816031.89	31816032.03	31816032.17	0.0144	0.0001
Mercury	82397-06-23 16:48 G	31816120.07	31816120.20	31816120.35	0.0144	0.0024
Mercury	82397-09-19 21:08 G	31816208.25	31816208.38	31816208.52	0.0144	0.0047
Mercury	82397-12-17 01:27 G	31816296.44	31816296.56	31816296.69	0.0144	0.0071
Mercury	82398-03-15 05:46 G	31816384.64	31816384.74	31816384.86	0.0144	0.0095
Mercury	82398-06-11 10:05 G	31816472.85	31816472.92	31816473.01	0.0144	0.0119

Mercury	82398-09-07 14:39 G	31816561.10	31816561.11	31816561.13	0.0144	0.0143
Mars	82405-10-26 17:46 G	31819167.04	31819167.24	31819167.48	0.0142	0.0098
Earth	82420-10-18 03:22 G	31824637.52	31824637.64	31824637.79	0.0137	0.0116
Moon	82420-10-18 06:00 G	31824637.64	31824637.75	31824637.91	0.0137	0.0118 *
Moon	82421-10-22 13:41 G	31825006.86	31825007.07	31825007.30	0.0137	0.0065
Earth	82421-10-22 16:20 G	31825006.97	31825007.18	31825007.42	0.0137	0.0064 *
Earth	82422-10-27 04:34 G	31825376.45	31825376.69	31825376.95	0.0137	0.0013
Moon	82422-10-27 08:10 G	31825376.58	31825376.84	31825377.10	0.0137	0.0006 *
Moon	82423-10-31 12:58 G	31825745.81	31825746.04	31825746.29	0.0136	0.0032
Earth	82423-10-31 16:05 G	31825745.93	31825746.17	31825746.42	0.0136	0.0039 *
Earth	82424-11-04 02:53 G	31826115.44	31826115.62	31826115.82	0.0136	0.0089
Moon	82424-11-04 06:15 G	31826115.59	31826115.76	31826115.95	0.0136	0.0096 *
Moon	82425-11-08 09:36 G	31826484.87	31826484.90	31826484.97	0.0136	0.0133
Venus	82427-12-27 12:58 G	31827263.97	31827264.04	31827264.14	0.0135	0.0123
Venus	82428-08-09 18:29 G	31827490.13	31827490.27	31827490.45	0.0135	0.0092
Venus	82429-03-24 00:00 G	31827716.32	31827716.50	31827716.71	0.0135	0.0060
Venus	82429-11-05 05:32 G	31827942.53	31827942.73	31827942.95	0.0135	0.0029
Venus	82430-06-19 10:48 G	31828168.74	31828168.95	31828169.17	0.0135	0.0003
Venus	82431-01-31 15:51 G	31828394.96	31828395.16	31828395.37	0.0135	0.0034
Venus	82431-09-14 20:53 G	31828621.20	31828621.37	31828621.57	0.0135	0.0065
Venus	82432-04-28 01:56 G	31828847.44	31828847.58	31828847.75	0.0135	0.0096
Venus	82432-12-10 06:58 G	31829073.73	31829073.79	31829073.88	0.0135	0.0126
Mercury	82438-04-28 18:15 G	31831039.18	31831039.26	31831039.38	0.0134	0.0112
Mercury	82438-07-26 00:44 G	31831127.40	31831127.53	31831127.66	0.0134	0.0087
Mercury	82438-10-22 06:44 G	31831215.62	31831215.78	31831215.93	0.0134	0.0063
Mercury	82439-01-18 12:44 G	31831303.86	31831304.03	31831304.20	0.0134	0.0039
Mercury	82439-04-16 18:29 G	31831392.10	31831392.27	31831392.45	0.0134	0.0015
Mercury	82439-07-14 00:15 G	31831480.34	31831480.51	31831480.69	0.0134	0.0010
Mercury	82439-10-10 06:00 G	31831568.59	31831568.75	31831568.93	0.0134	0.0033
Mercury	82440-01-06 11:46 G	31831656.84	31831656.99	31831657.16	0.0134	0.0056

Mercury	82440-04-03 17:32 G	31831745.10	31831745.23	31831745.38	0.0134	0.0079
Mercury	82440-06-30 23:17 G	31831833.36	31831833.47	31831833.59	0.0134	0.0102
Mercury	82440-09-27 04:48 G	31831921.65	31831921.70	31831921.77	0.0134	0.0125
Mars	82449-12-05 07:56 G	31835277.55	31835277.83	31835278.15	0.0136	0.0046
Moon	82464-04-14 06:15 G	31840521.63	31840521.76	31840521.90	0.0141	0.0120
Earth	82464-04-14 05:46 G	31840521.65	31840521.74	31840521.87	0.0141	0.0127 *
Moon	82465-04-19 00:00 G	31840891.30	31840891.50	31840891.70	0.0141	0.0078
Earth	82465-04-19 00:44 G	31840891.32	31840891.53	31840891.76	0.0141	0.0071 *
Earth	82466-04-23 20:39 G	31841261.11	31841261.36	31841261.62	0.0141	0.0014
Moon	82466-04-23 21:51 G	31841261.15	31841261.41	31841261.68	0.0141	0.0008 *
Moon	82467-04-28 15:08 G	31841630.90	31841631.13	31841631.37	0.0142	0.0043
Earth	82467-04-28 17:03 G	31841630.98	31841631.21	31841631.47	0.0142	0.0045 *
Earth	82468-05-02 14:24 G	31842000.93	31842001.10	31842001.28	0.0142	0.0102
Moon	82468-05-02 16:20 G	31842001.02	31842001.18	31842001.39	0.0142	0.0101 *
Venus	82471-05-11 22:20 G	31843105.31	31843105.43	31843105.56	0.0143	0.0117
Venus	82471-12-24 10:20 G	31843331.75	31843331.93	31843332.12	0.0143	0.0079
Venus	82472-08-06 22:34 G	31843558.23	31843558.44	31843558.65	0.0143	0.0041
Venus	82473-03-21 10:48 G	31843784.73	31843784.95	31843785.17	0.0143	0.0003
Venus	82473-11-02 23:03 G	31844011.25	31844011.46	31844011.68	0.0143	0.0036
Venus	82474-06-17 11:03 G	31844237.78	31844237.96	31844238.16	0.0143	0.0074
Venus	82475-01-29 23:17 G	31844464.35	31844464.47	31844464.62	0.0143	0.0113
Mercury	82479-11-04 19:12 G	31846204.25	31846204.30	31846204.36	0.0144	0.0130
Mercury	82480-01-31 23:17 G	31846292.38	31846292.47	31846292.57	0.0144	0.0108
Mercury	82480-04-29 03:22 G	31846380.53	31846380.64	31846380.76	0.0144	0.0085
Mercury	82480-07-26 07:41 G	31846468.69	31846468.82	31846468.95	0.0144	0.0062
Mercury	82480-10-22 11:46 G	31846556.86	31846556.99	31846557.13	0.0144	0.0039
Mercury	82481-01-18 16:05 G	31846645.03	31846645.17	31846645.31	0.0144	0.0016
Mercury	82481-04-16 20:24 G	31846733.20	31846733.35	31846733.49	0.0144	0.0009
Mercury	82481-07-14 00:29 G	31846821.38	31846821.52	31846821.66	0.0144	0.0032
Mercury	82481-10-10 04:48 G	31846909.57	31846909.70	31846909.83	0.0144	0.0055

Mercury	82482-01-06 09:08 G	31846997.76	31846997.88	31846998.00	0.0144	0.0079
Mercury	82482-04-04 13:27 G	31847085.97	31847086.06	31847086.16	0.0144	0.0103
Mercury	82482-07-01 17:46 G	31847174.18	31847174.24	31847174.31	0.0144	0.0127
Mars	82490-06-22 02:10 G	31850086.31	31850086.59	31850086.89	0.0142	0.0039
Earth	82504-10-19 13:12 G	31855318.93	31855319.05	31855319.22	0.0137	0.0112
Moon	82504-10-19 15:51 G	31855319.01	31855319.16	31855319.33	0.0137	0.0109 *
Moon	82505-10-24 00:00 G	31855688.28	31855688.50	31855688.73	0.0137	0.0057
Earth	82505-10-24 02:24 G	31855688.39	31855688.60	31855688.84	0.0137	0.0059 *
Earth	82506-10-28 14:53 G	31856057.86	31856058.12	31856058.37	0.0137	0.0007
Moon	82506-10-28 17:17 G	31856057.97	31856058.22	31856058.48	0.0137	0.0011 *
Moon	82507-11-01 23:17 G	31856427.25	31856427.47	31856427.71	0.0136	0.0051
Earth	82507-11-02 02:10 G	31856427.36	31856427.59	31856427.84	0.0136	0.0045 *
Earth	82508-11-05 12:58 G	31856796.87	31856797.04	31856797.23	0.0136	0.0095
Moon	82508-11-05 16:05 G	31856796.98	31856797.17	31856797.38	0.0136	0.0087 *
Venus	82512-04-10 04:34 G	31858048.57	31858048.69	31858048.83	0.0135	0.0105
Venus	82512-11-22 09:51 G	31858274.74	31858274.91	31858275.10	0.0135	0.0075
Venus	82513-07-06 15:22 G	31858500.94	31858501.14	31858501.35	0.0135	0.0043
Venus	82514-02-17 20:39 G	31858727.15	31858727.36	31858727.58	0.0135	0.0012
Venus	82514-10-02 01:56 G	31858953.37	31858953.58	31858953.79	0.0135	0.0019
Venus	82515-05-16 06:44 G	31859179.60	31859179.78	31859179.99	0.0135	0.0051
Venus	82515-12-28 12:00 G	31859405.83	31859406.00	31859406.17	0.0135	0.0081
Venus	82516-08-10 16:48 G	31859632.10	31859632.20	31859632.33	0.0135	0.0112
Mercury	82522-02-20 19:27 G	31861652.27	31861652.31	31861652.36	0.0134	0.0129
Mercury	82522-05-20 01:27 G	31861740.46	31861740.56	31861740.68	0.0134	0.0104
Mercury	82522-08-16 07:27 G	31861828.68	31861828.81	31861828.96	0.0134	0.0080
Mercury	82522-11-12 13:27 G	31861916.91	31861917.06	31861917.23	0.0134	0.0056
Mercury	82523-02-08 19:27 G	31862005.14	31862005.31	31862005.49	0.0134	0.0032
Mercury	82523-05-08 01:27 G	31862093.39	31862093.56	31862093.74	0.0134	0.0008
Mercury	82523-08-04 07:27 G	31862181.63	31862181.81	31862181.98	0.0134	0.0016
Mercury	82523-10-31 13:12 G	31862269.88	31862270.05	31862270.21	0.0134	0.0039

Mercury	82524-01-27 18:44 G	31862358.13	31862358.28	31862358.44	0.0134	0.0062
Mercury	82524-04-25 00:29 G	31862446.39	31862446.52	31862446.66	0.0134	0.0085
Mercury	82524-07-22 06:00 G	31862534.66	31862534.75	31862534.86	0.0134	0.0109
Mercury	82524-10-18 11:32 G	31862622.96	31862622.98	31862623.03	0.0134	0.0132
Earth	82548-04-15 15:36 G	31871203.04	31871203.15	31871203.29	0.0141	0.0122
Moon	82548-04-15 15:22 G	31871203.05	31871203.14	31871203.27	0.0141	0.0128 *
Earth	82549-04-20 11:03 G	31871572.73	31871572.96	31871573.18	0.0141	0.0065
Moon	82549-04-20 10:48 G	31871572.74	31871572.95	31871573.19	0.0141	0.0059 *
Earth	82550-04-25 06:44 G	31871942.53	31871942.78	31871943.04	0.0141	0.0008
Moon	82550-04-25 07:41 G	31871942.56	31871942.82	31871943.09	0.0141	0.0014 *
Moon	82551-04-30 02:24 G	31872312.37	31872312.60	31872312.83	0.0142	0.0054
Earth	82551-04-30 03:22 G	31872312.40	31872312.64	31872312.88	0.0142	0.0050 *
Earth	82552-05-04 00:29 G	31872682.36	31872682.52	31872682.69	0.0142	0.0108
Moon	82552-05-04 02:10 G	31872682.44	31872682.59	31872682.77	0.0142	0.0110 *
Venus	82555-01-10 04:34 G	31873663.62	31873663.69	31873663.77	0.0143	0.0134
Venus	82555-08-24 16:20 G	31873890.03	31873890.18	31873890.35	0.0143	0.0097
Venus	82556-04-07 04:34 G	31874116.50	31874116.69	31874116.90	0.0143	0.0059
Venus	82556-11-19 16:48 G	31874342.99	31874343.20	31874343.42	0.0143	0.0021
Venus	82557-07-04 05:03 G	31874569.49	31874569.71	31874569.93	0.0143	0.0018
Venus	82558-02-15 17:17 G	31874796.02	31874796.22	31874796.43	0.0143	0.0057
Venus	82558-09-30 05:46 G	31875022.58	31875022.74	31875022.91	0.0143	0.0095
Venus	82559-05-14 18:00 G	31875249.18	31875249.25	31875249.34	0.0144	0.0133
Mercury	82563-11-26 02:39 G	31876905.55	31876905.61	31876905.69	0.0144	0.0123
Mercury	82564-02-22 06:44 G	31876993.69	31876993.78	31876993.89	0.0144	0.0100
Mercury	82564-05-20 11:03 G	31877081.84	31877081.96	31877082.08	0.0144	0.0077
Mercury	82564-08-16 15:08 G	31877170.00	31877170.13	31877170.26	0.0144	0.0054
Mercury	82564-11-12 19:27 G	31877258.17	31877258.31	31877258.44	0.0144	0.0031
Mercury	82565-02-08 23:32 G	31877346.34	31877346.48	31877346.62	0.0144	0.0008
Mercury	82565-05-08 03:51 G	31877434.52	31877434.66	31877434.80	0.0144	0.0016
Mercury	82565-08-04 07:56 G	31877522.70	31877522.83	31877522.97	0.0144	0.0040

Mercury	82565-10-31 12:29 G	31877610.89	31877611.02	31877611.14	0.0144	0.0063
Mercury	82566-01-27 16:34 G	31877699.08	31877699.19	31877699.31	0.0144	0.0087
Mercury	82566-04-25 20:53 G	31877787.29	31877787.37	31877787.47	0.0144	0.0111
Mercury	82566-07-23 01:27 G	31877875.51	31877875.56	31877875.61	0.0144	0.0135
Earth	82588-10-20 00:29 G	31886000.36	31886000.52	31886000.68	0.0137	0.0106
Moon	82588-10-20 02:10 G	31886000.45	31886000.59	31886000.76	0.0137	0.0108 *
Moon	82589-10-24 11:17 G	31886369.76	31886369.97	31886370.21	0.0137	0.0054
Earth	82589-10-24 13:27 G	31886369.82	31886370.06	31886370.29	0.0137	0.0053 *
Earth	82590-10-29 01:27 G	31886739.31	31886739.56	31886739.82	0.0137	0.0002
Moon	82590-10-29 04:05 G	31886739.41	31886739.67	31886739.93	0.0137	0.0004 *
Moon	82591-11-02 10:34 G	31887108.71	31887108.94	31887109.18	0.0136	0.0044
Earth	82591-11-02 12:44 G	31887108.80	31887109.03	31887109.28	0.0136	0.0050 *
Earth	82592-11-05 23:46 G	31887478.32	31887478.49	31887478.66	0.0136	0.0100
Moon	82592-11-06 02:24 G	31887478.45	31887478.60	31887478.76	0.0136	0.0107 *
Venus	82595-12-09 14:10 G	31888607.01	31888607.09	31888607.21	0.0135	0.0120
Venus	82596-07-22 19:41 G	31888833.17	31888833.32	31888833.49	0.0135	0.0088
Venus	82597-03-06 01:12 G	31889059.36	31889059.55	31889059.75	0.0135	0.0057
Venus	82597-10-18 06:29 G	31889285.56	31889285.77	31889285.98	0.0135	0.0026
Venus	82598-06-01 11:46 G	31889511.77	31889511.99	31889512.20	0.0135	0.0006
Venus	82599-01-13 16:48 G	31889737.99	31889738.20	31889738.41	0.0135	0.0036
Venus	82599-08-27 21:51 G	31889964.23	31889964.41	31889964.60	0.0135	0.0067
Venus	82600-04-11 02:39 G	31890190.48	31890190.61	31890190.77	0.0135	0.0098
Venus	82600-11-23 07:41 G	31890416.76	31890416.82	31890416.89	0.0135	0.0128
Mercury	82606-03-14 02:10 G	31892353.52	31892353.59	31892353.66	0.0134	0.0123
Mercury	82606-06-10 08:10 G	31892441.73	31892441.84	31892441.97	0.0134	0.0098
Mercury	82606-09-06 14:10 G	31892529.95	31892530.09	31892530.25	0.0134	0.0074
Mercury	82606-12-03 20:10 G	31892618.18	31892618.34	31892618.51	0.0134	0.0050
Mercury	82607-03-02 02:10 G	31892706.42	31892706.59	31892706.77	0.0134	0.0027
Mercury	82607-05-29 08:10 G	31892794.67	31892794.84	31892795.02	0.0134	0.0003
Mercury	82607-08-25 13:56 G	31892882.91	31892883.08	31892883.26	0.0134	0.0021

Mercury	82607-11-21 19:41 G	31892971.16	31892971.32	31892971.49	0.0134	0.0045
Mercury	82608-02-18 01:41 G	31893059.42	31893059.57	31893059.72	0.0134	0.0068
Mercury	82608-05-16 07:27 G	31893147.68	31893147.81	31893147.93	0.0134	0.0091
Mercury	82608-08-12 12:58 G	31893235.95	31893236.04	31893236.13	0.0134	0.0114
Mars	82617-04-24 18:15 G	31896412.96	31896413.26	31896413.58	0.0136	0.0026
Moon	82632-04-16 22:34 G	31901884.30	31901884.44	31901884.62	0.0141	0.0113
Earth	82632-04-16 23:46 G	31901884.37	31901884.49	31901884.65	0.0141	0.0118 *
Earth	82633-04-21 18:58 G	31902254.07	31902254.29	31902254.53	0.0141	0.0061
Moon	82633-04-21 19:12 G	31902254.10	31902254.30	31902254.53	0.0141	0.0069 *
Moon	82634-04-26 14:39 G	31902623.85	31902624.11	31902624.38	0.0141	0.0005
Earth	82634-04-26 15:08 G	31902623.87	31902624.13	31902624.38	0.0141	0.0004 *
Moon	82635-05-01 10:34 G	31902993.72	31902993.94	31902994.18	0.0142	0.0052
Earth	82635-05-01 11:32 G	31902993.75	31902993.98	31902994.22	0.0142	0.0055 *
Earth	82636-05-05 08:39 G	31903363.72	31903363.86	31903364.02	0.0142	0.0113
Moon	82636-05-05 09:36 G	31903363.75	31903363.90	31903364.07	0.0142	0.0113 *
Venus	82639-04-24 21:22 G	31904448.28	31904448.39	31904448.54	0.0143	0.0115
Venus	82639-12-07 09:36 G	31904674.72	31904674.90	31904675.09	0.0143	0.0077
Venus	82640-07-20 21:51 G	31904901.20	31904901.41	31904901.63	0.0143	0.0039
Venus	82641-03-04 10:20 G	31905127.71	31905127.93	31905128.15	0.0143	0.0002
Venus	82641-10-16 22:20 G	31905354.23	31905354.43	31905354.65	0.0143	0.0039
Venus	82642-05-31 10:48 G	31905580.77	31905580.95	31905581.14	0.0143	0.0076
Venus	82643-01-12 23:17 G	31905807.34	31905807.47	31905807.61	0.0144	0.0115
Mercury	82647-09-20 05:46 G	31907518.72	31907518.74	31907518.78	0.0144	0.0139
Mercury	82647-12-17 09:51 G	31907606.84	31907606.91	31907607.00	0.0144	0.0117
Mercury	82648-03-14 13:56 G	31907694.98	31907695.08	31907695.19	0.0144	0.0094
Mercury	82648-06-10 18:15 G	31907783.14	31907783.26	31907783.38	0.0144	0.0071
Mercury	82648-09-06 22:20 G	31907871.30	31907871.43	31907871.57	0.0144	0.0048
Mercury	82648-12-04 02:39 G	31907959.47	31907959.61	31907959.75	0.0144	0.0024
Mercury	82649-03-02 06:44 G	31908047.64	31908047.78	31908047.93	0.0144	0.0004
Mercury	82649-05-29 11:03 G	31908135.82	31908135.96	31908136.10	0.0144	0.0022

Mercury	82649-08-25 15:22 G	31908224.00	31908224.14	31908224.27	0.0144	0.0046
Mercury	82649-11-21 19:27 G	31908312.19	31908312.31	31908312.44	0.0144	0.0070
Mercury	82650-02-17 23:46 G	31908400.39	31908400.49	31908400.61	0.0144	0.0094
Mercury	82650-05-17 04:05 G	31908488.60	31908488.67	31908488.76	0.0144	0.0118
Mercury	82650-08-13 08:24 G	31908576.84	31908576.85	31908576.88	0.0144	0.0142
Mars	82657-11-10 04:34 G	31911222.41	31911222.69	31911222.99	0.0142	0.0034
Earth	82672-10-21 11:17 G	31916681.81	31916681.97	31916682.15	0.0137	0.0100
Moon	82672-10-21 12:15 G	31916681.84	31916682.01	31916682.21	0.0137	0.0097 *
Moon	82673-10-25 22:20 G	31917051.22	31917051.43	31917051.68	0.0137	0.0048
Earth	82673-10-26 00:15 G	31917051.28	31917051.51	31917051.76	0.0137	0.0048 *
Earth	82674-10-30 12:29 G	31917420.76	31917421.02	31917421.27	0.0137	0.0004
Moon	82674-10-30 13:56 G	31917420.82	31917421.08	31917421.34	0.0137	0.0002 *
Moon	82675-11-03 21:36 G	31917790.19	31917790.40	31917790.63	0.0136	0.0062
Earth	82675-11-04 00:00 G	31917790.27	31917790.50	31917790.73	0.0136	0.0056 *
Earth	82676-11-07 10:20 G	31918159.79	31918159.93	31918160.10	0.0136	0.0107
Moon	82676-11-07 12:29 G	31918159.86	31918160.02	31918160.22	0.0136	0.0099 *
Venus	82679-08-10 00:15 G	31919165.49	31919165.51	31919165.57	0.0135	0.0134
Venus	82680-03-23 05:46 G	31919391.62	31919391.74	31919391.90	0.0135	0.0102
Venus	82680-11-04 11:17 G	31919617.80	31919617.97	31919618.16	0.0135	0.0071
Venus	82681-06-18 16:34 G	31919843.99	31919844.19	31919844.40	0.0135	0.0040
Venus	82682-01-30 21:51 G	31920070.20	31920070.41	31920070.62	0.0135	0.0009
Venus	82682-09-14 03:08 G	31920296.42	31920296.63	31920296.84	0.0135	0.0022
Venus	82683-04-28 08:10 G	31920522.64	31920522.84	31920523.04	0.0135	0.0053
Venus	82683-12-10 12:58 G	31920748.88	31920749.04	31920749.22	0.0135	0.0084
Venus	82684-07-23 18:00 G	31920975.14	31920975.25	31920975.37	0.0134	0.0114
Mercury	82690-04-03 09:08 G	31923054.80	31923054.88	31923054.97	0.0134	0.0116
Mercury	82690-06-30 15:08 G	31923143.01	31923143.13	31923143.27	0.0134	0.0092
Mercury	82690-09-26 21:08 G	31923231.24	31923231.38	31923231.54	0.0134	0.0068
Mercury	82690-12-24 03:08 G	31923319.47	31923319.63	31923319.80	0.0134	0.0044
Mercury	82691-03-22 09:08 G	31923407.71	31923407.88	31923408.06	0.0134	0.0020

Mercury	82691-06-18 15:08 G	31923495.95	31923496.13	31923496.31	0.0134	0.0004
Mercury	82691-09-14 20:53 G	31923584.20	31923584.37	31923584.54	0.0134	0.0028
Mercury	82691-12-12 02:39 G	31923672.45	31923672.61	31923672.78	0.0134	0.0051
Mercury	82692-03-09 08:24 G	31923760.71	31923760.85	31923761.00	0.0134	0.0074
Mercury	82692-06-05 13:56 G	31923848.97	31923849.08	31923849.21	0.0134	0.0098
Mercury	82692-09-01 19:41 G	31923937.25	31923937.32	31923937.40	0.0134	0.0120
Mars	82701-12-19 18:29 G	31927332.08	31927332.27	31927332.52	0.0136	0.0097
Moon	82716-04-18 06:00 G	31932565.62	31932565.75	31932565.90	0.0141	0.0119
Earth	82716-04-18 07:27 G	31932565.68	31932565.81	31932565.98	0.0141	0.0114 *
Earth	82717-04-23 02:39 G	31932935.38	31932935.61	31932935.85	0.0141	0.0057
Moon	82717-04-23 04:05 G	31932935.45	31932935.67	31932935.91	0.0141	0.0051 *
Moon	82718-04-27 22:05 G	31933305.16	31933305.42	31933305.68	0.0141	0.0006
Earth	82718-04-27 22:34 G	31933305.18	31933305.44	31933305.69	0.0141	0.0001 *
Earth	82719-05-02 18:44 G	31933675.06	31933675.28	31933675.52	0.0142	0.0059
Moon	82719-05-02 18:58 G	31933675.09	31933675.29	31933675.53	0.0142	0.0065 *
Earth	82720-05-06 15:36 G	31934045.03	31934045.15	31934045.31	0.0142	0.0118
Moon	82720-05-06 16:20 G	31934045.05	31934045.18	31934045.34	0.0142	0.0117 *
Venus	82722-12-24 01:56 G	31935006.51	31935006.58	31935006.66	0.0143	0.0133
Venus	82723-08-07 13:41 G	31935232.92	31935233.07	31935233.25	0.0143	0.0096
Venus	82724-03-21 02:10 G	31935459.39	31935459.59	31935459.80	0.0143	0.0058
Venus	82724-11-02 14:24 G	31935685.88	31935686.10	31935686.32	0.0143	0.0020
Venus	82725-06-17 02:39 G	31935912.39	31935912.61	31935912.83	0.0143	0.0019
Venus	82726-01-29 14:53 G	31936138.93	31936139.12	31936139.33	0.0143	0.0057
Venus	82726-09-13 03:22 G	31936365.49	31936365.64	31936365.82	0.0143	0.0096
Venus	82727-04-27 16:05 G	31936592.10	31936592.17	31936592.26	0.0144	0.0134
Mercury	82731-10-11 12:29 G	31938219.99	31938220.02	31938220.08	0.0144	0.0135
Mercury	82732-01-07 16:48 G	31938308.12	31938308.20	31938308.29	0.0144	0.0112
Mercury	82732-04-04 20:53 G	31938396.27	31938396.37	31938396.48	0.0144	0.0089
Mercury	82732-07-02 01:12 G	31938484.42	31938484.55	31938484.67	0.0144	0.0066
Mercury	82732-09-28 05:17 G	31938572.59	31938572.72	31938572.85	0.0144	0.0043

Mercury	82732-12-25 09:22 G	31938660.76	31938660.89	31938661.03	0.0144	0.0020
Mercury	82733-03-23 13:41 G	31938748.93	31938749.07	31938749.21	0.0144	0.0004
Mercury	82733-06-19 18:00 G	31938837.11	31938837.25	31938837.39	0.0144	0.0027
Mercury	82733-09-15 22:05 G	31938925.29	31938925.42	31938925.56	0.0144	0.0051
Mercury	82733-12-13 02:24 G	31939013.48	31939013.60	31939013.73	0.0144	0.0074
Mercury	82734-03-11 06:29 G	31939101.68	31939101.77	31939101.89	0.0144	0.0099
Mercury	82734-06-07 10:48 G	31939189.89	31939189.95	31939190.04	0.0144	0.0123
Mars	82742-07-07 07:41 G	31942141.62	31942141.82	31942142.06	0.0142	0.0098
Earth	82756-10-22 21:36 G	31947363.23	31947363.40	31947363.59	0.0137	0.0096
Moon	82756-10-22 22:20 G	31947363.26	31947363.43	31947363.62	0.0137	0.0099 *
Moon	82757-10-27 09:51 G	31947732.68	31947732.91	31947733.15	0.0137	0.0042
Earth	82757-10-27 10:20 G	31947732.70	31947732.93	31947733.19	0.0137	0.0043 *
Earth	82758-10-31 22:48 G	31948102.20	31948102.45	31948102.70	0.0137	0.0010
Moon	82758-11-01 00:15 G	31948102.25	31948102.51	31948102.77	0.0137	0.0013 *
Moon	82759-11-05 08:53 G	31948471.65	31948471.87	31948472.10	0.0136	0.0056
Earth	82759-11-05 09:51 G	31948471.70	31948471.91	31948472.15	0.0136	0.0062 *
Earth	82760-11-08 20:24 G	31948841.23	31948841.35	31948841.51	0.0136	0.0113
Moon	82760-11-08 22:05 G	31948841.32	31948841.42	31948841.57	0.0136	0.0119 *
Venus	82763-11-22 15:36 G	31949950.06	31949950.15	31949950.28	0.0135	0.0116
Venus	82764-07-05 21:08 G	31950176.22	31950176.38	31950176.56	0.0135	0.0085
Venus	82765-02-17 02:24 G	31950402.41	31950402.60	31950402.81	0.0135	0.0054
Venus	82765-10-01 07:56 G	31950628.62	31950628.83	31950629.04	0.0135	0.0023
Venus	82766-05-15 12:58 G	31950854.83	31950855.04	31950855.26	0.0135	0.0009
Venus	82766-12-27 18:00 G	31951081.05	31951081.25	31951081.46	0.0135	0.0039
Venus	82767-08-10 23:03 G	31951307.28	31951307.46	31951307.65	0.0135	0.0070
Venus	82768-03-24 03:51 G	31951533.53	31951533.66	31951533.82	0.0135	0.0101
Venus	82768-11-05 08:53 G	31951759.84	31951759.87	31951759.93	0.0134	0.0131
Mercury	82774-01-26 09:51 G	31953667.90	31953667.91	31953667.93	0.0134	0.0134
Mercury	82774-04-24 15:51 G	31953756.07	31953756.16	31953756.27	0.0134	0.0110
Mercury	82774-07-21 21:51 G	31953844.29	31953844.41	31953844.56	0.0134	0.0086

Mercury	82774-10-18 04:05 G	31953932.52	31953932.67	31953932.83	0.0134	0.0061
Mercury	82775-01-14 10:05 G	31954020.75	31954020.92	31954021.09	0.0134	0.0037
Mercury	82775-04-12 16:05 G	31954108.99	31954109.17	31954109.34	0.0134	0.0013
Mercury	82775-07-09 21:51 G	31954197.24	31954197.41	31954197.59	0.0134	0.0011
Mercury	82775-10-06 03:36 G	31954285.49	31954285.65	31954285.83	0.0134	0.0034
Mercury	82776-01-02 09:22 G	31954373.74	31954373.89	31954374.06	0.0134	0.0057
Mercury	82776-03-30 15:08 G	31954462.00	31954462.13	31954462.28	0.0134	0.0080
Mercury	82776-06-26 20:39 G	31954550.27	31954550.36	31954550.48	0.0134	0.0104
Mercury	82776-09-23 02:24 G	31954638.55	31954638.60	31954638.67	0.0134	0.0126
Mars	82784-09-11 07:41 G	31957548.61	31957548.82	31957549.06	0.0136	0.0094
Moon	82800-04-18 12:44 G	31963246.88	31963247.03	31963247.22	0.0141	0.0107
Earth	82800-04-18 15:36 G	31963247.00	31963247.15	31963247.31	0.0141	0.0110 *
Earth	82801-04-23 10:05 G	31963616.69	31963616.92	31963617.17	0.0141	0.0053
Moon	82801-04-23 11:32 G	31963616.78	31963616.98	31963617.22	0.0141	0.0061 *
Moon	82802-04-28 04:05 G	31963986.41	31963986.67	31963986.94	0.0141	0.0012
Earth	82802-04-28 06:00 G	31963986.49	31963986.75	31963987.00	0.0141	0.0005 *
Earth	82803-05-03 01:56 G	31964356.37	31964356.58	31964356.82	0.0142	0.0064
Moon	82803-05-03 02:39 G	31964356.40	31964356.61	31964356.85	0.0142	0.0059 *
Moon	82804-05-06 22:05 G	31964726.32	31964726.42	31964726.57	0.0142	0.0124
Earth	82804-05-06 22:48 G	31964726.34	31964726.45	31964726.60	0.0142	0.0122 *
Venus	82807-04-06 18:00 G	31965791.14	31965791.25	31965791.40	0.0143	0.0115
Venus	82807-11-19 06:15 G	31966017.58	31966017.76	31966017.96	0.0143	0.0077
Venus	82808-07-02 18:29 G	31966244.06	31966244.27	31966244.49	0.0143	0.0039
Venus	82809-02-14 06:58 G	31966470.57	31966470.79	31966471.01	0.0143	0.0001
Venus	82809-09-28 19:12 G	31966697.10	31966697.30	31966697.52	0.0143	0.0038
Venus	82810-05-13 07:41 G	31966923.64	31966923.82	31966924.02	0.0143	0.0077
Venus	82810-12-25 20:10 G	31967150.22	31967150.34	31967150.48	0.0144	0.0115
Mercury	82815-10-31 19:27 G	31968921.26	31968921.31	31968921.38	0.0144	0.0130
Mercury	82816-01-27 23:46 G	31969009.40	31969009.49	31969009.58	0.0144	0.0107
Mercury	82816-04-25 03:36 G	31969097.55	31969097.65	31969097.77	0.0144	0.0085

Mercury	82816-07-22 07:56 G	31969185.71	31969185.83	31969185.96	0.0144	0.0062
Mercury	82816-10-18 12:00 G	31969273.87	31969274.00	31969274.14	0.0144	0.0039
Mercury	82817-01-14 16:20 G	31969362.04	31969362.18	31969362.32	0.0144	0.0015
Mercury	82817-04-12 20:39 G	31969450.22	31969450.36	31969450.50	0.0144	0.0009
Mercury	82817-07-10 00:44 G	31969538.40	31969538.53	31969538.67	0.0144	0.0032
Mercury	82817-10-06 05:03 G	31969626.58	31969626.71	31969626.84	0.0144	0.0055
Mercury	82818-01-02 09:22 G	31969714.77	31969714.89	31969715.01	0.0144	0.0079
Mercury	82818-03-31 13:41 G	31969802.97	31969803.07	31969803.17	0.0144	0.0103
Mercury	82818-06-27 18:00 G	31969891.19	31969891.25	31969891.32	0.0144	0.0127
Mars	82825-03-29 19:27 G	31972358.14	31972358.31	31972358.50	0.0143	0.0115
Moon	82840-10-23 06:58 G	31978044.60	31978044.79	31978045.01	0.0137	0.0086
Earth	82840-10-23 07:27 G	31978044.63	31978044.81	31978045.01	0.0137	0.0091 *
Moon	82841-10-27 19:56 G	31978414.10	31978414.33	31978414.57	0.0137	0.0039
Earth	82841-10-27 20:24 G	31978414.11	31978414.35	31978414.60	0.0137	0.0038 *
Earth	82842-11-01 08:39 G	31978783.61	31978783.86	31978784.11	0.0137	0.0015
Moon	82842-11-01 08:39 G	31978783.61	31978783.86	31978784.13	0.0137	0.0014 *
Moon	82843-11-05 18:44 G	31979153.09	31979153.28	31979153.50	0.0136	0.0073
Earth	82843-11-05 19:56 G	31979153.12	31979153.33	31979153.56	0.0136	0.0067 *
Earth	82844-11-09 06:15 G	31979522.66	31979522.76	31979522.91	0.0136	0.0118
Moon	82844-11-09 07:27 G	31979522.67	31979522.81	31979522.98	0.0136	0.0110 *
Venus	82847-07-23 01:41 G	31980508.52	31980508.57	31980508.64	0.0135	0.0130
Venus	82848-03-05 06:58 G	31980734.66	31980734.79	31980734.95	0.0135	0.0099
Venus	82848-10-17 12:29 G	31980960.84	31980961.02	31980961.22	0.0135	0.0068
Venus	82849-05-31 17:46 G	31981187.04	31981187.24	31981187.46	0.0135	0.0037
Venus	82850-01-12 23:03 G	31981413.25	31981413.46	31981413.68	0.0135	0.0006
Venus	82850-08-27 04:20 G	31981639.47	31981639.68	31981639.90	0.0135	0.0025
Venus	82851-04-10 09:22 G	31981865.70	31981865.89	31981866.09	0.0135	0.0056
Venus	82851-11-22 14:24 G	31982091.94	31982092.10	31982092.27	0.0135	0.0087
Venus	82852-07-05 19:27 G	31982318.21	31982318.31	31982318.42	0.0135	0.0117
Mercury	82858-02-15 17:03 G	31984369.16	31984369.21	31984369.27	0.0134	0.0126

Mercury	82858-05-14 23:03 G	31984457.35	31984457.46	31984457.58	0.0134	0.0102
Mercury	82858-08-11 05:03 G	31984545.58	31984545.71	31984545.87	0.0134	0.0078
Mercury	82858-11-07 11:03 G	31984633.81	31984633.96	31984634.13	0.0134	0.0054
Mercury	82859-02-03 17:03 G	31984722.05	31984722.21	31984722.39	0.0134	0.0031
Mercury	82859-05-02 23:03 G	31984810.29	31984810.46	31984810.64	0.0134	0.0007
Mercury	82859-07-30 05:03 G	31984898.53	31984898.71	31984898.88	0.0134	0.0017
Mercury	82859-10-26 10:48 G	31984986.79	31984986.95	31984987.12	0.0134	0.0041
Mercury	82860-01-22 16:34 G	31985075.04	31985075.19	31985075.35	0.0134	0.0064
Mercury	82860-04-19 22:05 G	31985163.30	31985163.42	31985163.56	0.0134	0.0088
Mercury	82860-07-17 03:51 G	31985251.57	31985251.66	31985251.77	0.0134	0.0110
Mercury	82860-10-13 09:22 G	31985339.89	31985339.89	31985339.93	0.0134	0.0133
Mars	82869-05-07 09:36 G	31988467.59	31988467.90	31988468.21	0.0136	0.0029
Moon	82884-04-18 22:48 G	31993928.30	31993928.45	31993928.63	0.0141	0.0109
Earth	82884-04-19 01:41 G	31993928.41	31993928.57	31993928.75	0.0141	0.0105 *
Earth	82885-04-23 20:10 G	31994298.12	31994298.34	31994298.59	0.0141	0.0049
Moon	82885-04-23 22:48 G	31994298.23	31994298.45	31994298.70	0.0141	0.0042 *
Moon	82886-04-28 14:10 G	31994667.83	31994668.09	31994668.36	0.0141	0.0003
Earth	82886-04-28 16:05 G	31994667.91	31994668.17	31994668.42	0.0141	0.0010 *
Earth	82887-05-03 11:46 G	31995037.78	31995037.99	31995038.22	0.0142	0.0069
Moon	82887-05-03 13:27 G	31995037.87	31995038.06	31995038.28	0.0142	0.0076 *
Moon	82888-05-07 07:27 G	31995407.71	31995407.81	31995407.96	0.0142	0.0125
Earth	82888-05-07 08:53 G	31995407.76	31995407.87	31995407.99	0.0142	0.0127 *
Venus	82890-12-04 23:46 G	31996349.43	31996349.49	31996349.59	0.0143	0.0132
Venus	82891-07-19 12:00 G	31996575.84	31996576.00	31996576.17	0.0143	0.0094
Venus	82892-03-02 00:29 G	31996802.31	31996802.52	31996802.72	0.0143	0.0056
Venus	82892-10-14 12:44 G	31997028.81	31997029.03	31997029.25	0.0143	0.0019
Venus	82893-05-29 00:44 G	31997255.32	31997255.53	31997255.76	0.0143	0.0021
Venus	82894-01-10 13:12 G	31997481.85	31997482.05	31997482.26	0.0143	0.0058
Venus	82894-08-25 01:41 G	31997708.42	31997708.57	31997708.74	0.0143	0.0097
Venus	82895-04-08 14:24 G	31997935.04	31997935.10	31997935.18	0.0144	0.0135

Mercury	82899-11-21 02:24 G	31999622.55	31999622.60	31999622.68	0.0144	0.0125
Mercury	82900-02-17 06:44 G	31999710.69	31999710.78	31999710.88	0.0144	0.0102
Mercury	82900-05-16 10:48 G	31999798.84	31999798.95	31999799.07	0.0144	0.0079
Mercury	82900-08-12 15:08 G	31999887.00	31999887.13	31999887.26	0.0144	0.0056
Mercury	82900-11-08 19:12 G	31999975.16	31999975.30	31999975.44	0.0144	0.0033
Mercury	82901-02-04 23:17 G	32000063.33	32000063.47	32000063.62	0.0144	0.0011
Mercury	82901-05-04 03:36 G	32000151.51	32000151.65	32000151.79	0.0144	0.0014
Mercury	82901-07-31 07:56 G	32000239.69	32000239.83	32000239.96	0.0144	0.0037
Mercury	82901-10-27 12:00 G	32000327.88	32000328.00	32000328.13	0.0144	0.0061
Mercury	82902-01-23 16:20 G	32000416.07	32000416.18	32000416.30	0.0144	0.0085
Mercury	82902-04-21 20:39 G	32000504.27	32000504.36	32000504.46	0.0144	0.0109
Mercury	82902-07-19 00:58 G	32000592.49	32000592.54	32000592.60	0.0144	0.0133
Mars	82909-11-24 01:27 G	32003277.27	32003277.56	32003277.87	0.0142	0.0020
Moon	82923-10-21 04:05 G	32008356.63	32008356.67	32008356.75	0.0138	0.0134
Moon	82924-10-24 16:34 G	32008726.01	32008726.19	32008726.40	0.0137	0.0091
Earth	82924-10-24 17:03 G	32008726.03	32008726.21	32008726.43	0.0137	0.0087 *
Earth	82925-10-29 06:15 G	32009095.52	32009095.76	32009096.01	0.0137	0.0033
Moon	82925-10-29 06:58 G	32009095.55	32009095.79	32009096.03	0.0137	0.0030 *
Earth	82926-11-02 18:29 G	32009465.02	32009465.27	32009465.52	0.0137	0.0020
Moon	82926-11-02 18:44 G	32009465.02	32009465.28	32009465.54	0.0137	0.0022 *
Moon	82927-11-07 05:46 G	32009834.54	32009834.74	32009834.97	0.0136	0.0068
Earth	82927-11-07 05:32 G	32009834.54	32009834.73	32009834.97	0.0136	0.0073 *
Earth	82928-11-10 16:05 G	32010204.09	32010204.17	32010204.30	0.0136	0.0124
Moon	82928-11-10 16:34 G	32010204.13	32010204.19	32010204.30	0.0136	0.0129 *
Venus	82931-11-04 17:03 G	32011293.10	32011293.21	32011293.33	0.0135	0.0113
Venus	82932-06-17 22:34 G	32011519.27	32011519.44	32011519.61	0.0135	0.0082
Venus	82933-01-30 03:51 G	32011745.46	32011745.66	32011745.86	0.0135	0.0051
Venus	82933-09-13 09:08 G	32011971.68	32011971.88	32011972.10	0.0135	0.0020
Venus	82934-04-27 14:24 G	32012197.89	32012198.10	32012198.32	0.0135	0.0012
Venus	82934-12-09 19:41 G	32012424.12	32012424.32	32012424.52	0.0135	0.0042

Venus	82935-07-24 00:29 G	32012650.35	32012650.52	32012650.71	0.0135	0.0073
Venus	82936-03-06 05:46 G	32012876.60	32012876.74	32012876.88	0.0135	0.0103
Venus	82936-10-18 10:34 G	32013102.93	32013102.94	32013102.98	0.0134	0.0134
Mercury	82942-03-09 00:00 G	32015070.43	32015070.50	32015070.58	0.0134	0.0120
Mercury	82942-06-05 06:00 G	32015158.63	32015158.75	32015158.88	0.0134	0.0096
Mercury	82942-09-01 12:00 G	32015246.86	32015247.00	32015247.16	0.0134	0.0072
Mercury	82942-11-28 18:15 G	32015335.09	32015335.26	32015335.43	0.0134	0.0047
Mercury	82943-02-25 00:15 G	32015423.33	32015423.51	32015423.68	0.0134	0.0024
Mercury	82943-05-24 06:00 G	32015511.58	32015511.75	32015511.93	0.0134	0.0003
Mercury	82943-08-20 11:46 G	32015599.82	32015599.99	32015600.17	0.0134	0.0025
Mercury	82943-11-16 17:46 G	32015688.08	32015688.24	32015688.40	0.0134	0.0047
Mercury	82944-02-12 23:32 G	32015776.33	32015776.48	32015776.63	0.0134	0.0071
Mercury	82944-05-11 05:17 G	32015864.60	32015864.72	32015864.85	0.0134	0.0094
Mercury	82944-08-07 10:48 G	32015952.88	32015952.95	32015953.04	0.0134	0.0117
Moon	82968-04-20 08:53 G	32024609.71	32024609.87	32024610.08	0.0141	0.0098
Earth	82968-04-20 12:15 G	32024609.85	32024610.01	32024610.20	0.0141	0.0100 *
Earth	82969-04-25 06:58 G	32024979.56	32024979.79	32024980.04	0.0141	0.0043
Moon	82969-04-25 09:51 G	32024979.68	32024979.91	32024980.14	0.0141	0.0049 *
Moon	82970-04-29 23:46 G	32025349.24	32025349.49	32025349.75	0.0141	0.0024
Earth	82970-04-30 02:39 G	32025349.36	32025349.61	32025349.87	0.0141	0.0016 *
Earth	82971-05-04 22:34 G	32025719.24	32025719.44	32025719.67	0.0142	0.0075
Moon	82971-05-05 00:29 G	32025719.31	32025719.52	32025719.74	0.0142	0.0069 *
Moon	82972-05-08 17:17 G	32026089.18	32026089.22	32026089.32	0.0142	0.0138
Earth	82972-05-08 19:27 G	32026089.24	32026089.31	32026089.41	0.0142	0.0134 *
Venus	82975-03-19 18:44 G	32027134.16	32027134.28	32027134.44	0.0143	0.0111
Venus	82975-11-01 06:58 G	32027360.61	32027360.79	32027360.99	0.0143	0.0073
Venus	82976-06-14 19:27 G	32027587.09	32027587.31	32027587.52	0.0143	0.0035
Venus	82977-01-27 07:41 G	32027813.60	32027813.82	32027814.04	0.0143	0.0003
Venus	82977-09-10 19:56 G	32028040.13	32028040.33	32028040.55	0.0143	0.0042
Venus	82978-04-25 08:39 G	32028266.68	32028266.86	32028267.05	0.0143	0.0080

Venus	82978-12-07 21:08 G	32028493.26	32028493.38	32028493.51	0.0144	0.0118
Mercury	82983-09-15 06:00 G	32030235.73	32030235.75	32030235.79	0.0144	0.0140
Mercury	82983-12-12 10:05 G	32030323.85	32030323.92	32030324.01	0.0144	0.0117
Mercury	82984-03-09 14:24 G	32030411.99	32030412.10	32030412.20	0.0144	0.0094
Mercury	82984-06-05 18:15 G	32030500.15	32030500.26	32030500.39	0.0144	0.0072
Mercury	82984-09-01 22:20 G	32030588.31	32030588.43	32030588.57	0.0144	0.0049
Mercury	82984-11-29 02:39 G	32030676.47	32030676.61	32030676.75	0.0144	0.0026
Mercury	82985-02-25 06:58 G	32030764.65	32030764.79	32030764.93	0.0144	0.0003
Mercury	82985-05-24 11:03 G	32030852.82	32030852.96	32030853.10	0.0144	0.0021
Mercury	82985-08-20 15:22 G	32030941.00	32030941.14	32030941.27	0.0144	0.0045
Mercury	82985-11-16 19:27 G	32031029.19	32031029.31	32031029.44	0.0144	0.0069
Mercury	82986-02-13 00:00 G	32031117.39	32031117.50	32031117.61	0.0144	0.0092
Mercury	82986-05-12 04:20 G	32031205.59	32031205.68	32031205.76	0.0144	0.0116
Mercury	82986-08-08 08:39 G	32031293.83	32031293.86	32031293.89	0.0144	0.0140

84TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 84th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	83007-10-22 14:39 G		32039038.07	32039038.11	32039038.18	0.0138	0.0134	
Moon	83008-10-26 02:53 G		32039407.41	32039407.62	32039407.85	0.0137	0.0075	
Earth	83008-10-26 04:34 G		32039407.49	32039407.69	32039407.90	0.0137	0.0080	*
Earth	83009-10-30 17:32 G		32039776.98	32039777.23	32039777.48	0.0137	0.0027	
Moon	83009-10-30 18:15 G		32039777.02	32039777.26	32039777.50	0.0137	0.0029	*

Moon	83010-11-04 04:20 G	32040146.43	32040146.68	32040146.95	0.0137	0.0026
Earth	83010-11-04 05:32 G	32040146.48	32040146.73	32040146.98	0.0137	0.0026 *
Earth	83011-11-08 17:03 G	32040516.00	32040516.21	32040516.42	0.0136	0.0078
Moon	83011-11-08 16:48 G	32040516.02	32040516.20	32040516.41	0.0136	0.0083 *
Moon	83012-11-12 02:53 G	32040885.52	32040885.62	32040885.75	0.0136	0.0122
Earth	83012-11-12 03:08 G	32040885.58	32040885.63	32040885.73	0.0136	0.0129 *
Venus	83015-07-06 03:08 G	32041851.58	32041851.63	32041851.73	0.0135	0.0127
Venus	83016-02-17 08:53 G	32042077.73	32042077.87	32042078.03	0.0135	0.0095
Venus	83016-09-30 14:24 G	32042303.92	32042304.10	32042304.30	0.0135	0.0064
Venus	83017-05-14 19:56 G	32042530.12	32042530.33	32042530.54	0.0135	0.0033
Venus	83017-12-27 01:12 G	32042756.34	32042756.55	32042756.77	0.0135	0.0002
Venus	83018-08-10 06:15 G	32042982.56	32042982.76	32042982.98	0.0135	0.0029
Venus	83019-03-24 11:17 G	32043208.79	32043208.97	32043209.18	0.0135	0.0060
Venus	83019-11-05 16:34 G	32043435.04	32043435.19	32043435.36	0.0135	0.0090
Venus	83020-06-18 21:22 G	32043661.31	32043661.39	32043661.50	0.0135	0.0120
Mercury	83026-03-30 06:58 G	32045771.71	32045771.79	32045771.90	0.0134	0.0113
Mercury	83026-06-26 13:27 G	32045859.93	32045860.06	32045860.19	0.0134	0.0088
Mercury	83026-09-22 19:27 G	32045948.16	32045948.31	32045948.47	0.0134	0.0064
Mercury	83026-12-20 01:27 G	32046036.39	32046036.56	32046036.73	0.0134	0.0040
Mercury	83027-03-18 07:27 G	32046124.63	32046124.81	32046124.99	0.0134	0.0016
Mercury	83027-06-14 13:27 G	32046212.88	32046213.06	32046213.23	0.0134	0.0008
Mercury	83027-09-10 19:12 G	32046301.13	32046301.30	32046301.47	0.0134	0.0032
Mercury	83027-12-08 00:58 G	32046389.38	32046389.54	32046389.70	0.0134	0.0055
Mercury	83028-03-05 06:44 G	32046477.64	32046477.78	32046477.93	0.0134	0.0078
Mercury	83028-06-01 12:29 G	32046565.91	32046566.02	32046566.14	0.0134	0.0101
Mercury	83028-08-28 18:00 G	32046654.20	32046654.25	32046654.33	0.0134	0.0125
Mars	83036-09-25 05:46 G	32049603.45	32049603.74	32049604.05	0.0136	0.0034
Moon	83052-04-21 20:24 G	32055291.18	32055291.35	32055291.55	0.0141	0.0097
Earth	83052-04-22 00:00 G	32055291.32	32055291.50	32055291.70	0.0141	0.0094 *
Earth	83053-04-26 18:44 G	32055661.04	32055661.28	32055661.54	0.0141	0.0036

Moon	83053-04-26 22:20 G	32055661.18	32055661.43	32055661.67	0.0141	0.0031	*
Moon	83054-05-01 11:46 G	32056030.73	32056030.99	32056031.25	0.0141	0.0014	
Earth	83054-05-01 14:24 G	32056030.85	32056031.10	32056031.36	0.0141	0.0022	*
Earth	83055-05-06 10:20 G	32056400.73	32056400.93	32056401.15	0.0142	0.0081	
Moon	83055-05-06 12:58 G	32056400.86	32056401.04	32056401.25	0.0142	0.0089	*
Moon	83056-05-10 05:17 G	32056770.66	32056770.72	32056770.81	0.0142	0.0136	
Earth	83056-05-10 07:27 G	32056770.79	32056770.81	32056770.86	0.0142	0.0140	*
Venus	83058-11-18 02:10 G	32057692.51	32057692.59	32057692.71	0.0143	0.0127	
Venus	83059-07-02 14:39 G	32057918.94	32057919.11	32057919.28	0.0143	0.0089	
Venus	83060-02-14 02:53 G	32058145.42	32058145.62	32058145.83	0.0143	0.0051	
Venus	83060-09-27 15:22 G	32058371.92	32058372.14	32058372.36	0.0143	0.0013	
Venus	83061-05-12 03:36 G	32058598.44	32058598.65	32058598.87	0.0143	0.0025	
Venus	83061-12-24 15:51 G	32058824.98	32058825.16	32058825.37	0.0143	0.0064	
Venus	83062-08-08 04:20 G	32059051.54	32059051.68	32059051.85	0.0144	0.0102	
Venus	83063-03-22 17:03 G	32059278.18	32059278.21	32059278.28	0.0144	0.0140	
Mercury	83067-10-06 13:56 G	32060937.03	32060937.08	32060937.14	0.0144	0.0131	
Mercury	83068-01-02 17:46 G	32061025.16	32061025.24	32061025.34	0.0144	0.0109	
Mercury	83068-03-30 21:51 G	32061113.31	32061113.41	32061113.53	0.0144	0.0086	
Mercury	83068-06-27 02:10 G	32061201.46	32061201.59	32061201.72	0.0144	0.0063	
Mercury	83068-09-23 06:15 G	32061289.63	32061289.76	32061289.90	0.0144	0.0040	
Mercury	83068-12-20 10:20 G	32061377.79	32061377.93	32061378.07	0.0144	0.0017	
Mercury	83069-03-18 14:39 G	32061465.97	32061466.11	32061466.25	0.0144	0.0007	
Mercury	83069-06-14 18:44 G	32061554.15	32061554.28	32061554.42	0.0144	0.0031	
Mercury	83069-09-10 23:03 G	32061642.33	32061642.46	32061642.59	0.0144	0.0054	
Mercury	83069-12-08 03:22 G	32061730.52	32061730.64	32061730.76	0.0144	0.0077	
Mercury	83070-03-06 07:41 G	32061818.72	32061818.82	32061818.92	0.0144	0.0101	
Mercury	83070-06-02 12:00 G	32061906.93	32061907.00	32061907.07	0.0144	0.0125	
Mars	83077-04-13 04:48 G	32064413.43	32064413.70	32064413.99	0.0143	0.0051	
Earth	83091-10-23 02:24 G	32069719.54	32069719.60	32069719.72	0.0138	0.0129	
Moon	83091-10-23 04:34 G	32069719.60	32069719.69	32069719.83	0.0138	0.0122	*

Moon	83092-10-26 14:39 G	32070088.91	32070089.11	32070089.33	0.0137	0.0080
Earth	83092-10-26 16:20 G	32070088.98	32070089.18	32070089.41	0.0137	0.0075 *
Earth	83093-10-31 05:03 G	32070458.47	32070458.71	32070458.97	0.0137	0.0021
Moon	83093-10-31 06:58 G	32070458.55	32070458.79	32070459.04	0.0137	0.0017 *
Moon	83094-11-04 16:05 G	32070827.92	32070828.17	32070828.43	0.0137	0.0033
Earth	83094-11-04 17:17 G	32070827.98	32070828.22	32070828.47	0.0137	0.0032 *
Earth	83095-11-09 04:20 G	32071197.50	32071197.68	32071197.89	0.0136	0.0084
Moon	83095-11-09 06:00 G	32071197.55	32071197.75	32071197.95	0.0136	0.0081 *
Earth	83096-11-12 14:39 G	32071567.10	32071567.11	32071567.17	0.0136	0.0135
Venus	83099-10-17 19:41 G	32072636.21	32072636.32	32072636.46	0.0135	0.0108
Venus	83100-06-01 01:12 G	32072862.39	32072862.55	32072862.74	0.0135	0.0077
Venus	83101-01-13 06:44 G	32073088.58	32073088.78	32073088.99	0.0135	0.0046
Venus	83101-08-27 12:15 G	32073314.80	32073315.01	32073315.22	0.0135	0.0015
Venus	83102-04-10 17:17 G	32073541.01	32073541.22	32073541.44	0.0135	0.0016
Venus	83102-11-22 22:20 G	32073767.24	32073767.43	32073767.64	0.0135	0.0047
Venus	83103-07-07 03:22 G	32073993.48	32073993.64	32073993.83	0.0135	0.0077
Venus	83104-02-18 08:39 G	32074219.73	32074219.86	32074219.99	0.0135	0.0107
Mercury	83110-01-22 07:56 G	32076384.80	32076384.83	32076384.89	0.0134	0.0130
Mercury	83110-04-20 14:24 G	32076472.99	32076473.10	32076473.21	0.0134	0.0105
Mercury	83110-07-17 20:24 G	32076561.22	32076561.35	32076561.50	0.0134	0.0081
Mercury	83110-10-14 02:39 G	32076649.45	32076649.61	32076649.77	0.0134	0.0056
Mercury	83111-01-10 08:39 G	32076737.69	32076737.86	32076738.03	0.0134	0.0032
Mercury	83111-04-08 14:39 G	32076825.93	32076826.11	32076826.28	0.0134	0.0009
Mercury	83111-07-05 20:24 G	32076914.18	32076914.35	32076914.53	0.0134	0.0015
Mercury	83111-10-02 02:24 G	32077002.43	32077002.60	32077002.77	0.0134	0.0039
Mercury	83111-12-29 07:56 G	32077090.69	32077090.83	32077091.00	0.0134	0.0063
Mercury	83112-03-26 13:41 G	32077178.95	32077179.07	32077179.22	0.0134	0.0086
Mercury	83112-06-22 19:27 G	32077267.22	32077267.31	32077267.42	0.0134	0.0109
Mercury	83112-09-19 01:12 G	32077355.53	32077355.55	32077355.59	0.0134	0.0131
Mars	83121-05-22 05:03 G	32080522.49	32080522.71	32080522.98	0.0136	0.0087

Moon	83136-04-23 06:15 G	32085972.57	32085972.76	32085972.97	0.0141	0.0088
Earth	83136-04-23 09:36 G	32085972.72	32085972.90	32085973.11	0.0141	0.0089 *
Earth	83137-04-28 04:34 G	32086342.44	32086342.69	32086342.94	0.0141	0.0031
Moon	83137-04-28 07:41 G	32086342.59	32086342.82	32086343.07	0.0141	0.0038 *
Moon	83138-05-02 20:39 G	32086712.11	32086712.36	32086712.61	0.0142	0.0035
Earth	83138-05-03 00:00 G	32086712.26	32086712.50	32086712.76	0.0142	0.0027 *
Earth	83139-05-07 20:10 G	32087082.15	32087082.34	32087082.55	0.0142	0.0087
Moon	83139-05-07 23:03 G	32087082.26	32087082.46	32087082.67	0.0142	0.0080 *
Venus	83143-03-02 20:53 G	32088477.24	32088477.37	32088477.53	0.0143	0.0106
Venus	83143-10-15 09:22 G	32088703.70	32088703.89	32088704.08	0.0143	0.0068
Venus	83144-05-28 21:36 G	32088930.19	32088930.40	32088930.62	0.0143	0.0031
Venus	83145-01-10 10:05 G	32089156.70	32089156.92	32089157.14	0.0143	0.0008
Venus	83145-08-24 22:34 G	32089383.23	32089383.44	32089383.65	0.0143	0.0046
Venus	83146-04-08 10:48 G	32089609.79	32089609.95	32089610.15	0.0144	0.0085
Venus	83146-11-20 23:32 G	32089836.38	32089836.48	32089836.61	0.0144	0.0123
Mercury	83151-10-27 21:36 G	32091638.33	32091638.40	32091638.47	0.0144	0.0124
Mercury	83152-01-24 01:27 G	32091726.47	32091726.56	32091726.66	0.0144	0.0101
Mercury	83152-04-21 05:32 G	32091814.62	32091814.73	32091814.85	0.0144	0.0078
Mercury	83152-07-18 09:36 G	32091902.78	32091902.90	32091903.04	0.0144	0.0056
Mercury	83152-10-14 13:56 G	32091990.94	32091991.08	32091991.22	0.0144	0.0032
Mercury	83153-01-10 18:00 G	32092079.11	32092079.25	32092079.39	0.0144	0.0009
Mercury	83153-04-08 22:20 G	32092167.29	32092167.43	32092167.57	0.0144	0.0015
Mercury	83153-07-06 02:24 G	32092255.47	32092255.60	32092255.74	0.0144	0.0039
Mercury	83153-10-02 06:44 G	32092343.65	32092343.78	32092343.91	0.0144	0.0062
Mercury	83153-12-29 11:03 G	32092431.85	32092431.96	32092432.07	0.0144	0.0086
Mercury	83154-03-27 15:08 G	32092520.05	32092520.13	32092520.23	0.0144	0.0110
Mercury	83154-06-23 19:27 G	32092608.27	32092608.31	32092608.37	0.0144	0.0134
Mars	83161-12-08 17:32 G	32095333.01	32095333.23	32095333.48	0.0143	0.0089
Earth	83175-10-24 15:36 G	32100401.05	32100401.15	32100401.28	0.0138	0.0122
Moon	83175-10-24 18:15 G	32100401.19	32100401.26	32100401.36	0.0138	0.0130 *

Moon	83176-10-28 02:39 G	32100770.39	32100770.61	32100770.85	0.0137	0.0061
Earth	83176-10-28 05:03 G	32100770.50	32100770.71	32100770.95	0.0137	0.0068 *
Earth	83177-11-01 18:00 G	32101140.00	32101140.25	32101140.50	0.0137	0.0014
Moon	83177-11-01 19:41 G	32101140.08	32101140.32	32101140.57	0.0137	0.0018 *
Moon	83178-11-06 03:51 G	32101509.41	32101509.66	32101509.91	0.0137	0.0040
Earth	83178-11-06 05:46 G	32101509.51	32101509.74	32101510.00	0.0137	0.0039 *
Earth	83179-11-10 17:03 G	32101879.03	32101879.21	32101879.41	0.0136	0.0090
Moon	83179-11-10 18:15 G	32101879.10	32101879.26	32101879.45	0.0136	0.0094 *
Moon	83180-11-14 01:56 G	32102248.57	32102248.58	32102248.62	0.0136	0.0135
Venus	83183-06-18 07:12 G	32103194.71	32103194.80	32103194.90	0.0135	0.0121
Venus	83184-01-30 12:29 G	32103420.87	32103421.02	32103421.19	0.0135	0.0090
Venus	83184-09-12 18:15 G	32103647.07	32103647.26	32103647.46	0.0135	0.0059
Venus	83185-04-26 23:32 G	32103873.28	32103873.48	32103873.70	0.0135	0.0028
Venus	83185-12-09 04:48 G	32104099.49	32104099.70	32104099.92	0.0135	0.0003
Venus	83186-07-23 09:51 G	32104325.71	32104325.91	32104326.12	0.0135	0.0033
Venus	83187-03-06 14:53 G	32104551.94	32104552.12	32104552.32	0.0135	0.0064
Venus	83187-10-18 19:41 G	32104778.19	32104778.32	32104778.49	0.0134	0.0095
Venus	83188-06-01 00:44 G	32105004.47	32105004.53	32105004.63	0.0134	0.0124
Mercury	83194-02-11 15:22 G	32107086.08	32107086.14	32107086.23	0.0134	0.0121
Mercury	83194-05-10 21:51 G	32107174.29	32107174.41	32107174.53	0.0134	0.0096
Mercury	83194-08-07 03:51 G	32107262.51	32107262.66	32107262.81	0.0134	0.0072
Mercury	83194-11-03 09:51 G	32107350.75	32107350.91	32107351.08	0.0134	0.0048
Mercury	83195-01-30 15:51 G	32107438.99	32107439.16	32107439.34	0.0134	0.0025
Mercury	83195-04-28 21:51 G	32107527.24	32107527.41	32107527.59	0.0134	0.0003
Mercury	83195-07-26 03:51 G	32107615.49	32107615.66	32107615.83	0.0134	0.0023
Mercury	83195-10-22 09:36 G	32107703.74	32107703.90	32107704.07	0.0134	0.0047
Mercury	83196-01-18 15:22 G	32107792.00	32107792.14	32107792.30	0.0134	0.0070
Mercury	83196-04-15 21:08 G	32107880.27	32107880.38	32107880.51	0.0134	0.0094
Mercury	83196-07-13 02:53 G	32107968.55	32107968.62	32107968.71	0.0134	0.0116
Mars	83204-02-13 03:36 G	32110739.45	32110739.65	32110739.89	0.0135	0.0096

Moon	83220-04-23 15:36 G	32116653.96	32116654.15	32116654.36	0.0141	0.0086
Earth	83220-04-23 19:27 G	32116654.11	32116654.31	32116654.52	0.0141	0.0084 *
Earth	83221-04-28 13:56 G	32117023.84	32117024.08	32117024.34	0.0141	0.0027
Moon	83221-04-28 17:46 G	32117023.99	32117024.24	32117024.49	0.0141	0.0022 *
Moon	83222-05-03 06:29 G	32117393.51	32117393.77	32117394.02	0.0142	0.0025
Earth	83222-05-03 09:36 G	32117393.66	32117393.90	32117394.15	0.0142	0.0033 *
Earth	83223-05-08 05:46 G	32117763.56	32117763.74	32117763.95	0.0142	0.0092
Moon	83223-05-08 09:22 G	32117763.72	32117763.89	32117764.07	0.0142	0.0100 *
Venus	83226-10-31 03:08 G	32119035.52	32119035.63	32119035.74	0.0143	0.0123
Venus	83227-06-14 14:53 G	32119261.96	32119262.12	32119262.31	0.0143	0.0086
Venus	83228-01-27 03:22 G	32119488.44	32119488.64	32119488.85	0.0143	0.0048
Venus	83228-09-09 15:51 G	32119714.94	32119715.16	32119715.38	0.0143	0.0010
Venus	83229-04-24 04:20 G	32119941.47	32119941.68	32119941.90	0.0143	0.0028
Venus	83229-12-06 16:34 G	32120168.01	32120168.19	32120168.40	0.0144	0.0067
Venus	83230-07-21 05:03 G	32120394.58	32120394.71	32120394.88	0.0144	0.0105
Venus	83231-03-04 17:46 G	32120621.23	32120621.24	32120621.28	0.0144	0.0143
Mercury	83235-08-21 00:29 G	32122251.50	32122251.52	32122251.56	0.0144	0.0140
Mercury	83235-11-17 04:34 G	32122339.62	32122339.69	32122339.78	0.0144	0.0118
Mercury	83236-02-13 08:53 G	32122427.77	32122427.87	32122427.97	0.0144	0.0094
Mercury	83236-05-11 12:58 G	32122515.92	32122516.04	32122516.16	0.0144	0.0071
Mercury	83236-08-07 17:03 G	32122604.08	32122604.21	32122604.34	0.0144	0.0048
Mercury	83236-11-03 21:08 G	32122692.25	32122692.38	32122692.52	0.0144	0.0026
Mercury	83237-01-31 01:27 G	32122780.42	32122780.56	32122780.70	0.0144	0.0002
Mercury	83237-04-29 05:32 G	32122868.59	32122868.73	32122868.87	0.0144	0.0022
Mercury	83237-07-26 09:51 G	32122956.78	32122956.91	32122957.04	0.0144	0.0045
Mercury	83237-10-22 14:10 G	32123044.96	32123045.09	32123045.21	0.0144	0.0069
Mercury	83238-01-18 18:15 G	32123133.16	32123133.26	32123133.38	0.0144	0.0093
Mercury	83238-04-16 22:34 G	32123221.37	32123221.44	32123221.53	0.0144	0.0117
Mercury	83238-07-14 03:08 G	32123309.61	32123309.63	32123309.65	0.0144	0.0141
Mars	83244-08-31 05:17 G	32125549.57	32125549.72	32125549.90	0.0143	0.0120

Earth	83259-10-25 04:05 G	32131082.54	32131082.67	32131082.82	0.0138	0.0116
Moon	83259-10-25 06:58 G	32131082.65	32131082.79	32131082.95	0.0138	0.0109 *
Moon	83260-10-28 14:53 G	32131451.90	32131452.12	32131452.35	0.0137	0.0069
Earth	83260-10-28 17:46 G	32131452.01	32131452.24	32131452.47	0.0137	0.0062 *
Earth	83261-11-02 06:15 G	32131821.51	32131821.76	32131822.02	0.0137	0.0009
Moon	83261-11-02 09:08 G	32131821.63	32131821.88	32131822.13	0.0137	0.0003 *
Moon	83262-11-06 16:05 G	32132190.93	32132191.17	32132191.43	0.0137	0.0044
Earth	83262-11-06 18:15 G	32132191.03	32132191.26	32132191.51	0.0137	0.0045 *
Earth	83263-11-11 05:03 G	32132560.56	32132560.71	32132560.91	0.0136	0.0098
Moon	83263-11-11 07:27 G	32132560.66	32132560.81	32132561.01	0.0136	0.0095 *
Venus	83267-02-15 18:15 G	32133753.24	32133753.26	32133753.31	0.0135	0.0134
Venus	83267-09-30 00:00 G	32133979.37	32133979.50	32133979.65	0.0135	0.0103
Venus	83268-05-13 05:17 G	32134205.55	32134205.72	32134205.92	0.0135	0.0072
Venus	83268-12-25 10:48 G	32134431.75	32134431.95	32134432.16	0.0135	0.0041
Venus	83269-08-08 16:05 G	32134657.96	32134658.17	32134658.39	0.0135	0.0011
Venus	83270-03-22 21:22 G	32134884.18	32134884.39	32134884.60	0.0135	0.0021
Venus	83270-11-04 02:10 G	32135110.41	32135110.59	32135110.80	0.0135	0.0052
Venus	83271-06-18 07:12 G	32135336.64	32135336.80	32135336.98	0.0134	0.0082
Venus	83272-01-30 12:00 G	32135562.90	32135563.00	32135563.13	0.0134	0.0112
Mercury	83278-03-03 22:48 G	32137787.37	32137787.45	32137787.56	0.0134	0.0113
Mercury	83278-05-31 05:03 G	32137875.58	32137875.71	32137875.85	0.0134	0.0088
Mercury	83278-08-27 11:17 G	32137963.81	32137963.97	32137964.13	0.0134	0.0064
Mercury	83278-11-23 17:17 G	32138052.05	32138052.22	32138052.39	0.0134	0.0040
Mercury	83279-02-19 23:17 G	32138140.29	32138140.47	32138140.65	0.0134	0.0016
Mercury	83279-05-19 05:17 G	32138228.54	32138228.72	32138228.89	0.0134	0.0008
Mercury	83279-08-15 11:03 G	32138316.79	32138316.96	32138317.14	0.0134	0.0031
Mercury	83279-11-11 17:03 G	32138405.05	32138405.21	32138405.37	0.0134	0.0054
Mercury	83280-02-07 22:34 G	32138493.31	32138493.44	32138493.59	0.0134	0.0078
Mercury	83280-05-06 04:20 G	32138581.58	32138581.68	32138581.81	0.0134	0.0101
Mercury	83280-08-02 10:05 G	32138669.87	32138669.92	32138670.00	0.0134	0.0124

Mars	83288-10-08 01:12 G	32141658.25	32141658.55	32141658.86	0.0135	0.0022
Earth	83303-04-21 08:24 G	32146965.82	32146965.85	32146965.92	0.0140	0.0138
Moon	83303-04-21 12:00 G	32146965.95	32146966.00	32146966.10	0.0140	0.0135
Moon	83304-04-24 23:17 G	32147335.27	32147335.47	32147335.68	0.0141	0.0081
Earth	83304-04-25 02:24 G	32147335.41	32147335.60	32147335.83	0.0141	0.0081 *
Earth	83305-04-29 21:22 G	32147705.14	32147705.39	32147705.64	0.0141	0.0023
Moon	83305-04-30 00:58 G	32147705.30	32147705.54	32147705.79	0.0141	0.0028 *
Moon	83306-05-04 12:58 G	32148074.81	32148075.04	32148075.29	0.0141	0.0044
Earth	83306-05-04 16:48 G	32148074.96	32148075.20	32148075.45	0.0141	0.0037 *
Earth	83307-05-09 13:12 G	32148444.87	32148445.05	32148445.24	0.0142	0.0096
Moon	83307-05-09 16:34 G	32148445.00	32148445.19	32148445.39	0.0142	0.0089 *
Venus	83310-07-01 07:12 G	32149593.79	32149593.80	32149593.84	0.0143	0.0142
Venus	83311-02-12 19:12 G	32149820.17	32149820.30	32149820.47	0.0143	0.0105
Venus	83311-09-27 07:41 G	32150046.63	32150046.82	32150047.02	0.0143	0.0067
Venus	83312-05-10 20:10 G	32150273.12	32150273.34	32150273.56	0.0143	0.0029
Venus	83312-12-23 08:24 G	32150499.63	32150499.85	32150500.08	0.0143	0.0010
Venus	83313-08-06 20:53 G	32150726.17	32150726.37	32150726.58	0.0144	0.0047
Venus	83314-03-21 09:22 G	32150952.73	32150952.89	32150953.08	0.0144	0.0086
Venus	83314-11-02 21:51 G	32151179.32	32151179.41	32151179.54	0.0144	0.0124
Mercury	83319-09-11 07:27 G	32152952.77	32152952.81	32152952.86	0.0144	0.0135
Mercury	83319-12-08 11:46 G	32153040.90	32153040.99	32153041.07	0.0144	0.0112
Mercury	83320-03-05 15:51 G	32153129.05	32153129.16	32153129.27	0.0144	0.0090
Mercury	83320-06-01 19:56 G	32153217.21	32153217.33	32153217.45	0.0144	0.0067
Mercury	83320-08-29 00:00 G	32153305.37	32153305.50	32153305.63	0.0144	0.0043
Mercury	83320-11-25 04:05 G	32153393.54	32153393.67	32153393.81	0.0144	0.0021
Mercury	83321-02-21 08:24 G	32153481.71	32153481.85	32153481.99	0.0144	0.0003
Mercury	83321-05-20 12:29 G	32153569.89	32153570.02	32153570.16	0.0144	0.0028
Mercury	83321-08-16 16:48 G	32153658.07	32153658.20	32153658.33	0.0144	0.0051
Mercury	83321-11-12 21:08 G	32153746.26	32153746.38	32153746.50	0.0144	0.0075
Mercury	83322-02-09 01:27 G	32153834.46	32153834.56	32153834.66	0.0144	0.0099

Mercury	83322-05-08 05:32 G	32153922.67	32153922.73	32153922.81	0.0144	0.0123
Mars	83329-04-27 13:41 G	32156468.77	32156469.07	32156469.38	0.0143	0.0015
Earth	83343-10-26 15:51 G	32161764.02	32161764.16	32161764.32	0.0138	0.0110
Moon	83343-10-26 19:12 G	32161764.18	32161764.30	32161764.44	0.0138	0.0118 *
Moon	83344-10-30 02:10 G	32162133.36	32162133.59	32162133.84	0.0137	0.0049
Earth	83344-10-30 05:17 G	32162133.50	32162133.72	32162133.96	0.0137	0.0056 *
Earth	83345-11-03 18:15 G	32162503.01	32162503.26	32162503.52	0.0137	0.0003
Moon	83345-11-03 21:08 G	32162503.13	32162503.38	32162503.62	0.0137	0.0006 *
Moon	83346-11-08 03:08 G	32162872.40	32162872.63	32162872.88	0.0137	0.0054
Earth	83346-11-08 06:29 G	32162872.54	32162872.77	32162873.01	0.0137	0.0051 *
Earth	83347-11-12 17:17 G	32163242.07	32163242.22	32163242.40	0.0136	0.0104
Moon	83347-11-12 19:27 G	32163242.18	32163242.31	32163242.49	0.0136	0.0107 *
Venus	83351-05-31 11:17 G	32164537.87	32164537.97	32164538.09	0.0135	0.0115
Venus	83352-01-12 16:48 G	32164764.04	32164764.20	32164764.38	0.0135	0.0085
Venus	83352-08-25 22:20 G	32164990.24	32164990.43	32164990.63	0.0135	0.0054
Venus	83353-04-09 03:36 G	32165216.45	32165216.65	32165216.87	0.0135	0.0023
Venus	83353-11-21 08:53 G	32165442.66	32165442.87	32165443.09	0.0135	0.0008
Venus	83354-07-05 13:41 G	32165668.88	32165669.07	32165669.29	0.0135	0.0039
Venus	83355-02-16 18:44 G	32165895.11	32165895.28	32165895.47	0.0135	0.0069
Venus	83355-10-01 00:00 G	32166121.36	32166121.50	32166121.65	0.0134	0.0099
Venus	83356-05-14 04:48 G	32166347.65	32166347.70	32166347.76	0.0134	0.0129
Mercury	83361-12-27 00:15 G	32168400.47	32168400.51	32168400.58	0.0134	0.0128
Mercury	83362-03-25 06:44 G	32168488.67	32168488.78	32168488.89	0.0134	0.0103
Mercury	83362-06-21 12:44 G	32168576.89	32168577.03	32168577.18	0.0134	0.0079
Mercury	83362-09-17 18:44 G	32168665.13	32168665.28	32168665.45	0.0134	0.0055
Mercury	83362-12-15 00:58 G	32168753.37	32168753.54	32168753.71	0.0134	0.0031
Mercury	83363-03-13 06:58 G	32168841.61	32168841.79	32168841.97	0.0134	0.0007
Mercury	83363-06-09 12:44 G	32168929.86	32168930.03	32168930.21	0.0134	0.0017
Mercury	83363-09-05 18:44 G	32169018.11	32169018.28	32169018.45	0.0134	0.0040
Mercury	83363-12-03 00:29 G	32169106.37	32169106.52	32169106.68	0.0134	0.0064

Mercury	83364-02-29 06:15 G	32169194.64	32169194.76	32169194.90	0.0134	0.0087
Mercury	83364-05-27 12:00 G	32169282.91	32169283.00	32169283.11	0.0134	0.0110
Mercury	83364-08-23 17:46 G	32169371.23	32169371.24	32169371.27	0.0134	0.0133
Earth	83387-04-21 18:58 G	32177647.22	32177647.29	32177647.38	0.0140	0.0133
Moon	83387-04-21 21:51 G	32177647.37	32177647.41	32177647.49	0.0140	0.0137 *
Moon	83388-04-25 09:36 G	32178016.69	32178016.90	32178017.11	0.0141	0.0076
Earth	83388-04-25 12:44 G	32178016.83	32178017.03	32178017.26	0.0141	0.0076 *
Earth	83389-04-30 07:27 G	32178386.56	32178386.81	32178387.06	0.0141	0.0017
Moon	83389-04-30 10:48 G	32178386.70	32178386.95	32178387.21	0.0141	0.0014 *
Moon	83390-05-04 23:32 G	32178756.23	32178756.48	32178756.73	0.0141	0.0035
Earth	83390-05-05 02:53 G	32178756.38	32178756.62	32178756.87	0.0141	0.0042 *
Earth	83391-05-09 23:03 G	32179126.30	32179126.46	32179126.65	0.0142	0.0102
Moon	83391-05-10 02:53 G	32179126.47	32179126.62	32179126.79	0.0142	0.0110 *
Venus	83394-10-13 00:58 G	32180378.44	32180378.54	32180378.67	0.0143	0.0122
Venus	83395-05-27 12:58 G	32180604.88	32180605.04	32180605.23	0.0143	0.0085
Venus	83396-01-09 01:27 G	32180831.36	32180831.56	32180831.77	0.0143	0.0047
Venus	83396-08-22 13:56 G	32181057.86	32181058.08	32181058.30	0.0143	0.0009
Venus	83397-04-06 02:24 G	32181284.38	32181284.60	32181284.82	0.0143	0.0029
Venus	83397-11-18 14:53 G	32181510.92	32181511.12	32181511.31	0.0144	0.0067
Venus	83398-07-03 03:22 G	32181737.49	32181737.64	32181737.79	0.0144	0.0105
Venus	83399-02-14 15:51 G	32181964.15	32181964.16	32181964.18	0.0144	0.0143
Mercury	83403-10-02 14:39 G	32183654.06	32183654.11	32183654.17	0.0144	0.0130
Mercury	83403-12-29 18:29 G	32183742.19	32183742.27	32183742.38	0.0144	0.0108
Mercury	83404-03-26 22:48 G	32183830.34	32183830.45	32183830.57	0.0144	0.0084
Mercury	83404-06-23 02:53 G	32183918.50	32183918.62	32183918.75	0.0144	0.0061
Mercury	83404-09-19 07:12 G	32184006.66	32184006.80	32184006.93	0.0144	0.0038
Mercury	83404-12-16 11:17 G	32184094.83	32184094.97	32184095.11	0.0144	0.0014
Mercury	83405-03-14 15:36 G	32184183.01	32184183.15	32184183.29	0.0144	0.0010
Mercury	83405-06-10 19:41 G	32184271.18	32184271.32	32184271.46	0.0144	0.0033
Mercury	83405-09-06 23:46 G	32184359.37	32184359.49	32184359.63	0.0144	0.0057

Mercury	83405-12-04 04:05 G	32184447.56	32184447.67	32184447.79	0.0144	0.0081
Mercury	83406-03-02 08:24 G	32184535.76	32184535.85	32184535.95	0.0144	0.0105
Mercury	83406-05-29 12:44 G	32184623.98	32184624.03	32184624.10	0.0144	0.0129
Earth	83427-10-28 02:39 G	32192445.45	32192445.61	32192445.78	0.0138	0.0105
Moon	83427-10-28 06:00 G	32192445.58	32192445.75	32192445.93	0.0138	0.0098 *
Moon	83428-10-31 12:44 G	32192814.81	32192815.03	32192815.28	0.0137	0.0059
Earth	83428-10-31 16:20 G	32192814.95	32192815.18	32192815.43	0.0137	0.0051 *
Earth	83429-11-05 05:32 G	32193184.47	32193184.73	32193184.98	0.0137	0.0004
Moon	83429-11-05 08:53 G	32193184.62	32193184.87	32193185.12	0.0137	0.0009 *
Moon	83430-11-09 14:24 G	32193553.88	32193554.10	32193554.35	0.0137	0.0056
Earth	83430-11-09 17:32 G	32193554.01	32193554.23	32193554.47	0.0137	0.0057 *
Earth	83431-11-14 04:48 G	32193923.57	32193923.70	32193923.87	0.0136	0.0110
Moon	83431-11-14 07:56 G	32193923.70	32193923.83	32193924.00	0.0136	0.0109 *
Venus	83435-01-29 21:51 G	32195096.37	32195096.41	32195096.50	0.0135	0.0129
Venus	83435-09-13 03:51 G	32195322.52	32195322.66	32195322.82	0.0135	0.0098
Venus	83436-04-26 09:36 G	32195548.71	32195548.90	32195549.09	0.0135	0.0067
Venus	83436-12-08 14:39 G	32195774.91	32195775.11	32195775.33	0.0135	0.0036
Venus	83437-07-22 19:56 G	32196001.12	32196001.33	32196001.55	0.0135	0.0006
Venus	83438-03-06 00:58 G	32196227.34	32196227.54	32196227.76	0.0135	0.0026
Venus	83438-10-18 06:15 G	32196453.57	32196453.76	32196453.96	0.0135	0.0056
Venus	83439-06-01 10:48 G	32196679.80	32196679.95	32196680.13	0.0135	0.0087
Venus	83440-01-13 15:36 G	32196906.06	32196906.15	32196906.28	0.0134	0.0117
Mercury	83446-01-17 07:56 G	32199101.76	32199101.83	32199101.92	0.0134	0.0119
Mercury	83446-04-15 13:56 G	32199189.97	32199190.08	32199190.22	0.0134	0.0095
Mercury	83446-07-12 20:24 G	32199278.20	32199278.35	32199278.50	0.0134	0.0070
Mercury	83446-10-09 02:24 G	32199366.44	32199366.60	32199366.77	0.0134	0.0046
Mercury	83447-01-05 08:39 G	32199454.68	32199454.86	32199455.03	0.0134	0.0022
Mercury	83447-04-03 14:24 G	32199542.93	32199543.10	32199543.28	0.0134	0.0004
Mercury	83447-06-30 20:24 G	32199631.18	32199631.35	32199631.53	0.0134	0.0025
Mercury	83447-09-27 02:10 G	32199719.43	32199719.59	32199719.76	0.0134	0.0049

Mercury	83447-12-24 08:10 G	32199807.70	32199807.84	32199807.99	0.0134	0.0072
Mercury	83448-03-21 13:41 G	32199895.96	32199896.07	32199896.21	0.0134	0.0096
Mercury	83448-06-17 19:27 G	32199984.25	32199984.31	32199984.40	0.0134	0.0119
Mars	83456-02-27 04:48 G	32202794.41	32202794.70	32202795.01	0.0135	0.0036
Earth	83471-04-23 05:32 G	32208328.65	32208328.73	32208328.85	0.0140	0.0128
Moon	83471-04-23 08:24 G	32208328.75	32208328.85	32208329.00	0.0140	0.0124 *
Moon	83472-04-26 20:53 G	32208698.16	32208698.37	32208698.59	0.0141	0.0072
Earth	83472-04-26 23:32 G	32208698.27	32208698.48	32208698.71	0.0141	0.0070 *
Earth	83473-05-01 18:15 G	32209068.01	32209068.26	32209068.51	0.0141	0.0012
Moon	83473-05-01 21:36 G	32209068.15	32209068.40	32209068.66	0.0141	0.0016 *
Moon	83474-05-06 10:05 G	32209437.70	32209437.92	32209438.16	0.0141	0.0054
Earth	83474-05-06 13:41 G	32209437.83	32209438.07	32209438.31	0.0141	0.0048 *
Earth	83475-05-11 09:51 G	32209807.76	32209807.91	32209808.08	0.0142	0.0108
Moon	83475-05-11 13:12 G	32209807.89	32209808.05	32209808.25	0.0142	0.0101 *
Venus	83478-06-13 07:12 G	32210936.77	32210936.80	32210936.87	0.0143	0.0139
Venus	83479-01-25 19:12 G	32211163.16	32211163.30	32211163.47	0.0143	0.0102
Venus	83479-09-09 07:27 G	32211389.62	32211389.81	32211390.02	0.0143	0.0065
Venus	83480-04-22 19:56 G	32211616.11	32211616.33	32211616.55	0.0143	0.0027
Venus	83480-12-05 08:10 G	32211842.62	32211842.84	32211843.06	0.0143	0.0011
Venus	83481-07-19 20:24 G	32212069.15	32212069.35	32212069.56	0.0144	0.0050
Venus	83482-03-03 08:53 G	32212295.70	32212295.87	32212296.05	0.0144	0.0088
Venus	83482-10-15 21:22 G	32212522.30	32212522.39	32212522.51	0.0144	0.0126
Mercury	83487-10-22 21:51 G	32214355.35	32214355.41	32214355.49	0.0144	0.0123
Mercury	83488-01-19 01:56 G	32214443.49	32214443.58	32214443.69	0.0144	0.0101
Mercury	83488-04-16 06:15 G	32214531.64	32214531.76	32214531.88	0.0144	0.0077
Mercury	83488-07-13 10:20 G	32214619.80	32214619.93	32214620.06	0.0144	0.0054
Mercury	83488-10-09 14:24 G	32214707.97	32214708.10	32214708.24	0.0144	0.0031
Mercury	83489-01-05 18:44 G	32214796.14	32214796.28	32214796.42	0.0144	0.0008
Mercury	83489-04-03 22:48 G	32214884.31	32214884.45	32214884.59	0.0144	0.0016
Mercury	83489-07-01 02:53 G	32214972.49	32214972.62	32214972.76	0.0144	0.0040

Mercury	83489-09-27 07:12 G	32215060.68	32215060.80	32215060.93	0.0144	0.0064
Mercury	83489-12-24 11:32 G	32215148.87	32215148.98	32215149.09	0.0144	0.0087
Mercury	83490-03-22 15:51 G	32215237.07	32215237.16	32215237.25	0.0144	0.0111
Mercury	83490-06-18 20:10 G	32215325.30	32215325.34	32215325.39	0.0144	0.0136
Mars	83496-09-14 03:36 G	32217604.39	32217604.65	32217604.94	0.0143	0.0064
Earth	83511-10-29 14:39 G	32223126.93	32223127.11	32223127.28	0.0138	0.0099
Moon	83511-10-29 18:15 G	32223127.11	32223127.26	32223127.42	0.0138	0.0107 *
Moon	83512-11-02 00:44 G	32223496.29	32223496.53	32223496.79	0.0137	0.0038
Earth	83512-11-02 04:20 G	32223496.45	32223496.68	32223496.93	0.0137	0.0045 *
Earth	83513-11-06 17:32 G	32223865.98	32223866.23	32223866.48	0.0137	0.0010
Moon	83513-11-06 20:53 G	32223866.12	32223866.37	32223866.62	0.0137	0.0005 *
Moon	83514-11-11 02:24 G	32224235.38	32224235.60	32224235.82	0.0137	0.0067
Earth	83514-11-11 05:32 G	32224235.52	32224235.73	32224235.97	0.0137	0.0064 *
Earth	83515-11-15 17:03 G	32224605.09	32224605.21	32224605.36	0.0136	0.0116
Moon	83515-11-15 20:24 G	32224605.23	32224605.35	32224605.47	0.0136	0.0118 *
Venus	83519-05-14 15:08 G	32225881.02	32225881.13	32225881.27	0.0135	0.0110
Venus	83519-12-26 20:39 G	32226107.20	32226107.36	32226107.55	0.0135	0.0080
Venus	83520-08-09 02:10 G	32226333.40	32226333.59	32226333.80	0.0135	0.0049
Venus	83521-03-23 07:27 G	32226559.60	32226559.81	32226560.03	0.0135	0.0018
Venus	83521-11-04 12:44 G	32226785.82	32226786.03	32226786.25	0.0135	0.0013
Venus	83522-06-18 17:32 G	32227012.04	32227012.23	32227012.45	0.0135	0.0044
Venus	83523-01-30 22:34 G	32227238.27	32227238.44	32227238.63	0.0135	0.0074
Venus	83523-09-14 03:36 G	32227464.53	32227464.65	32227464.80	0.0135	0.0104
Venus	83524-04-27 08:24 G	32227690.84	32227690.85	32227690.88	0.0135	0.0134
Mercury	83529-11-11 09:51 G	32229714.90	32229714.91	32229714.92	0.0134	0.0133
Mercury	83530-02-07 15:51 G	32229803.06	32229803.16	32229803.27	0.0134	0.0109
Mercury	83530-05-06 21:51 G	32229891.29	32229891.41	32229891.56	0.0134	0.0085
Mercury	83530-08-03 04:20 G	32229979.52	32229979.68	32229979.84	0.0134	0.0060
Mercury	83530-10-30 10:20 G	32230067.76	32230067.93	32230068.10	0.0134	0.0036
Mercury	83531-01-26 16:20 G	32230156.01	32230156.18	32230156.36	0.0134	0.0012

Mercury	83531-04-24 22:20 G	32230244.26	32230244.43	32230244.61	0.0134	0.0012
Mercury	83531-07-22 04:20 G	32230332.51	32230332.68	32230332.85	0.0134	0.0035
Mercury	83531-10-18 10:05 G	32230420.77	32230420.92	32230421.08	0.0134	0.0059
Mercury	83532-01-14 15:51 G	32230509.03	32230509.16	32230509.31	0.0134	0.0082
Mercury	83532-04-11 21:51 G	32230597.31	32230597.41	32230597.52	0.0134	0.0105
Mercury	83532-07-09 03:36 G	32230685.61	32230685.65	32230685.70	0.0134	0.0128
Mars	83540-10-23 07:27 G	32233713.58	32233713.81	32233714.05	0.0135	0.0087
Earth	83555-04-24 19:27 G	32239010.20	32239010.31	32239010.45	0.0140	0.0121
Moon	83555-04-24 21:36 G	32239010.30	32239010.40	32239010.53	0.0140	0.0125 *
Moon	83556-04-28 10:20 G	32239379.72	32239379.93	32239380.17	0.0141	0.0063
Earth	83556-04-28 13:27 G	32239379.84	32239380.06	32239380.29	0.0141	0.0063 *
Earth	83557-05-03 08:10 G	32239749.59	32239749.84	32239750.09	0.0141	0.0004
Moon	83557-05-03 11:03 G	32239749.70	32239749.96	32239750.22	0.0141	0.0002 *
Moon	83558-05-08 00:15 G	32240119.29	32240119.51	32240119.76	0.0141	0.0049
Earth	83558-05-08 03:36 G	32240119.43	32240119.65	32240119.89	0.0141	0.0056 *
Earth	83559-05-12 23:46 G	32240489.36	32240489.49	32240489.65	0.0142	0.0116
Moon	83559-05-13 03:22 G	32240489.53	32240489.64	32240489.78	0.0142	0.0124 *
Venus	83562-09-26 03:36 G	32241721.55	32241721.65	32241721.80	0.0143	0.0117
Venus	83563-05-10 16:05 G	32241947.99	32241948.17	32241948.35	0.0143	0.0079
Venus	83563-12-23 04:05 G	32242174.46	32242174.67	32242174.89	0.0143	0.0042
Venus	83564-08-05 16:20 G	32242400.96	32242401.18	32242401.40	0.0143	0.0005
Venus	83565-03-20 04:48 G	32242627.49	32242627.70	32242627.92	0.0143	0.0034
Venus	83565-11-01 17:17 G	32242854.03	32242854.22	32242854.41	0.0144	0.0072
Venus	83566-06-16 05:32 G	32243080.60	32243080.73	32243080.88	0.0144	0.0110
Mercury	83571-08-17 01:56 G	32244968.54	32244968.58	32244968.63	0.0144	0.0136
Mercury	83571-11-13 06:00 G	32245056.67	32245056.75	32245056.83	0.0144	0.0113
Mercury	83572-02-09 10:05 G	32245144.81	32245144.92	32245145.03	0.0144	0.0091
Mercury	83572-05-07 14:10 G	32245232.97	32245233.09	32245233.21	0.0144	0.0068
Mercury	83572-08-03 18:15 G	32245321.13	32245321.26	32245321.39	0.0144	0.0045
Mercury	83572-10-30 22:20 G	32245409.29	32245409.43	32245409.57	0.0144	0.0021

Mercury	83573-01-27 02:39 G	32245497.47	32245497.61	32245497.75	0.0144	0.0004
Mercury	83573-04-25 06:44 G	32245585.64	32245585.78	32245585.92	0.0144	0.0026
Mercury	83573-07-22 11:03 G	32245673.82	32245673.96	32245674.09	0.0144	0.0050
Mercury	83573-10-18 15:08 G	32245762.01	32245762.13	32245762.26	0.0144	0.0073
Mercury	83574-01-14 19:27 G	32245850.21	32245850.31	32245850.42	0.0144	0.0097
Mercury	83574-04-12 23:46 G	32245938.42	32245938.49	32245938.57	0.0144	0.0121
Mars	83581-05-11 20:39 G	32248524.12	32248524.36	32248524.63	0.0143	0.0077
Earth	83595-10-30 03:22 G	32253808.45	32253808.64	32253808.82	0.0138	0.0093
Moon	83595-10-30 06:44 G	32253808.58	32253808.78	32253808.98	0.0138	0.0086 *
Moon	83596-11-02 13:41 G	32254177.83	32254178.07	32254178.31	0.0137	0.0046
Earth	83596-11-02 17:03 G	32254177.98	32254178.21	32254178.47	0.0137	0.0038 *
Earth	83597-11-07 06:29 G	32254547.52	32254547.77	32254548.02	0.0137	0.0016
Moon	83597-11-07 09:51 G	32254547.67	32254547.91	32254548.17	0.0137	0.0023 *
Moon	83598-11-11 15:08 G	32254916.92	32254917.13	32254917.36	0.0137	0.0068
Earth	83598-11-11 18:29 G	32254917.07	32254917.27	32254917.50	0.0137	0.0071 *
Earth	83599-11-16 06:00 G	32255286.67	32255286.75	32255286.88	0.0136	0.0124
Moon	83599-11-16 09:36 G	32255286.82	32255286.90	32255287.03	0.0136	0.0124 *
Venus	83603-01-12 02:39 G	32256439.54	32256439.61	32256439.72	0.0136	0.0123
Venus	83603-08-26 08:24 G	32256665.70	32256665.85	32256666.02	0.0135	0.0092
Venus	83604-04-08 13:56 G	32256891.90	32256892.08	32256892.28	0.0135	0.0061
Venus	83604-11-20 19:12 G	32257118.10	32257118.30	32257118.52	0.0135	0.0030
Venus	83605-07-05 00:29 G	32257344.31	32257344.52	32257344.74	0.0135	0.0001
Venus	83606-02-16 05:32 G	32257570.53	32257570.73	32257570.94	0.0135	0.0031
Venus	83606-09-30 10:34 G	32257796.76	32257796.94	32257797.14	0.0135	0.0062
Venus	83607-05-14 15:36 G	32258023.00	32258023.15	32258023.31	0.0135	0.0092
Venus	83607-12-26 20:24 G	32258249.27	32258249.35	32258249.45	0.0135	0.0122
Mercury	83613-12-01 17:46 G	32260416.17	32260416.24	32260416.30	0.0134	0.0123
Mercury	83614-02-27 23:46 G	32260504.38	32260504.49	32260504.62	0.0134	0.0099
Mercury	83614-05-27 05:46 G	32260592.60	32260592.74	32260592.90	0.0134	0.0075
Mercury	83614-08-23 12:00 G	32260680.84	32260681.00	32260681.17	0.0134	0.0051

Mercury	83614-11-19 18:15 G	32260769.08	32260769.26	32260769.43	0.0134	0.0026
Mercury	83615-02-16 00:15 G	32260857.33	32260857.51	32260857.69	0.0134	0.0002
Mercury	83615-05-15 06:15 G	32260945.58	32260945.76	32260945.93	0.0134	0.0021
Mercury	83615-08-11 12:00 G	32261033.84	32261034.00	32261034.17	0.0134	0.0045
Mercury	83615-11-07 18:00 G	32261122.10	32261122.25	32261122.40	0.0134	0.0068
Mercury	83616-02-03 23:32 G	32261210.37	32261210.48	32261210.62	0.0134	0.0092
Mercury	83616-05-02 05:17 G	32261298.65	32261298.72	32261298.83	0.0134	0.0116
Mars	83623-07-17 13:56 G	32263930.87	32263931.08	32263931.34	0.0135	0.0088
Earth	83639-04-25 07:41 G	32269691.68	32269691.82	32269691.97	0.0140	0.0115
Moon	83639-04-25 09:36 G	32269691.76	32269691.90	32269692.08	0.0140	0.0110 *
Moon	83640-04-28 23:32 G	32270061.27	32270061.48	32270061.71	0.0141	0.0059
Earth	83640-04-29 01:27 G	32270061.34	32270061.56	32270061.80	0.0141	0.0057 *
Earth	83641-05-03 20:24 G	32270431.09	32270431.35	32270431.60	0.0141	0.0003
Moon	83641-05-03 23:17 G	32270431.21	32270431.47	32270431.73	0.0141	0.0001 *
Moon	83642-05-08 12:58 G	32270800.83	32270801.04	32270801.27	0.0141	0.0068
Earth	83642-05-08 15:51 G	32270800.94	32270801.16	32270801.39	0.0141	0.0062 *
Earth	83643-05-13 12:00 G	32271170.88	32271171.00	32271171.13	0.0142	0.0123
Moon	83643-05-13 14:53 G	32271171.00	32271171.12	32271171.29	0.0142	0.0116 *
Venus	83646-05-26 11:32 G	32272279.90	32272279.98	32272280.06	0.0143	0.0132
Venus	83647-01-07 23:17 G	32272506.31	32272506.47	32272506.64	0.0143	0.0095
Venus	83647-08-22 11:17 G	32272732.78	32272732.97	32272733.18	0.0143	0.0058
Venus	83648-04-04 23:46 G	32272959.28	32272959.49	32272959.71	0.0143	0.0021
Venus	83648-11-17 12:15 G	32273185.79	32273186.01	32273186.23	0.0143	0.0018
Venus	83649-07-02 00:15 G	32273412.32	32273412.51	32273412.72	0.0144	0.0056
Venus	83650-02-13 12:44 G	32273638.88	32273639.03	32273639.21	0.0144	0.0094
Venus	83650-09-28 01:12 G	32273865.48	32273865.55	32273865.66	0.0144	0.0132
Mercury	83655-09-06 09:36 G	32275669.85	32275669.90	32275669.97	0.0144	0.0128
Mercury	83655-12-03 13:56 G	32275757.98	32275758.08	32275758.17	0.0144	0.0104
Mercury	83656-02-29 18:00 G	32275846.13	32275846.25	32275846.36	0.0144	0.0081
Mercury	83656-05-27 22:05 G	32275934.29	32275934.42	32275934.55	0.0144	0.0058

Mercury	83656-08-24 02:10 G	32276022.45	32276022.59	32276022.73	0.0144	0.0035
Mercury	83656-11-20 06:15 G	32276110.62	32276110.76	32276110.90	0.0144	0.0012
Mercury	83657-02-16 10:34 G	32276198.80	32276198.94	32276199.08	0.0144	0.0012
Mercury	83657-05-15 14:39 G	32276286.97	32276287.11	32276287.25	0.0144	0.0035
Mercury	83657-08-11 18:44 G	32276375.16	32276375.28	32276375.42	0.0144	0.0059
Mercury	83657-11-07 23:03 G	32276463.35	32276463.46	32276463.58	0.0144	0.0083
Mercury	83658-02-04 03:08 G	32276551.55	32276551.63	32276551.74	0.0144	0.0107
Mercury	83658-05-03 07:27 G	32276639.76	32276639.81	32276639.88	0.0144	0.0131
Mars	83664-02-02 05:46 G	32278740.63	32278740.74	32278740.89	0.0143	0.0130
Moon	83678-10-25 23:17 G	32284120.46	32284120.47	32284120.51	0.0138	0.0137
Earth	83679-10-30 17:17 G	32284490.03	32284490.22	32284490.43	0.0138	0.0086
Moon	83679-10-30 20:53 G	32284490.20	32284490.37	32284490.58	0.0138	0.0094 *
Moon	83680-11-03 04:05 G	32284859.43	32284859.67	32284859.92	0.0137	0.0023
Earth	83680-11-03 07:41 G	32284859.57	32284859.82	32284860.07	0.0137	0.0031 *
Earth	83681-11-07 20:39 G	32285229.11	32285229.36	32285229.62	0.0137	0.0024
Moon	83681-11-08 00:15 G	32285229.26	32285229.51	32285229.77	0.0137	0.0019 *
Moon	83682-11-12 05:17 G	32285598.53	32285598.72	32285598.93	0.0137	0.0083
Earth	83682-11-12 09:08 G	32285598.68	32285598.88	32285599.09	0.0137	0.0078 *
Earth	83683-11-16 20:24 G	32285968.30	32285968.35	32285968.44	0.0136	0.0131
Moon	83683-11-16 23:46 G	32285968.45	32285968.49	32285968.57	0.0136	0.0132
Venus	83686-09-11 14:53 G	32286998.12	32286998.12	32286998.17	0.0136	0.0135
Venus	83687-04-25 20:39 G	32287224.24	32287224.36	32287224.51	0.0135	0.0104
Venus	83687-12-08 01:56 G	32287450.42	32287450.58	32287450.78	0.0135	0.0074
Venus	83688-07-21 07:27 G	32287676.61	32287676.81	32287677.02	0.0135	0.0042
Venus	83689-03-04 12:44 G	32287902.82	32287903.03	32287903.25	0.0135	0.0012
Venus	83689-10-16 18:00 G	32288129.04	32288129.25	32288129.47	0.0135	0.0019
Venus	83690-05-30 23:03 G	32288355.26	32288355.46	32288355.66	0.0135	0.0050
Venus	83691-01-12 03:51 G	32288581.50	32288581.66	32288581.84	0.0135	0.0080
Venus	83691-08-26 08:53 G	32288807.76	32288807.87	32288808.00	0.0135	0.0110
Mercury	83697-12-22 01:27 G	32291117.48	32291117.56	32291117.67	0.0134	0.0113

Mercury	83698-03-20 07:56 G	32291205.70	32291205.83	32291205.97	0.0134	0.0088
Mercury	83698-06-16 13:56 G	32291293.93	32291294.08	32291294.24	0.0134	0.0064
Mercury	83698-09-12 20:10 G	32291382.17	32291382.34	32291382.51	0.0134	0.0040
Mercury	83698-12-10 02:10 G	32291470.42	32291470.59	32291470.77	0.0134	0.0016
Mercury	83699-03-08 08:10 G	32291558.67	32291558.84	32291559.02	0.0134	0.0009
Mercury	83699-06-04 14:10 G	32291646.92	32291647.09	32291647.26	0.0134	0.0032
Mercury	83699-08-31 20:10 G	32291735.18	32291735.34	32291735.50	0.0134	0.0055
Mercury	83699-11-28 01:41 G	32291823.44	32291823.57	32291823.73	0.0134	0.0079
Mercury	83700-02-24 07:41 G	32291911.72	32291911.82	32291911.94	0.0134	0.0102
Mercury	83700-05-23 13:27 G	32292000.01	32292000.06	32292000.13	0.0134	0.0125
Mars	83708-03-12 16:34 G	32294849.89	32294850.19	32294850.49	0.0135	0.0034
Earth	83723-04-26 20:24 G	32300373.21	32300373.35	32300373.53	0.0140	0.0109
Moon	83723-04-26 21:51 G	32300373.27	32300373.41	32300373.58	0.0140	0.0113 *
Moon	83724-04-30 12:29 G	32300742.80	32300743.02	32300743.27	0.0141	0.0049
Earth	83724-04-30 14:39 G	32300742.88	32300743.11	32300743.36	0.0141	0.0050 *
Earth	83725-05-05 09:22 G	32301112.64	32301112.89	32301113.15	0.0141	0.0010
Moon	83725-05-05 11:32 G	32301112.72	32301112.98	32301113.24	0.0141	0.0011 *
Moon	83726-05-10 02:10 G	32301482.38	32301482.59	32301482.82	0.0141	0.0064
Earth	83726-05-10 04:48 G	32301482.49	32301482.70	32301482.93	0.0141	0.0070 *
Earth	83727-05-15 01:12 G	32301852.46	32301852.55	32301852.65	0.0142	0.0130
Moon	83727-05-15 04:05 G	32301852.63	32301852.67	32301852.74	0.0142	0.0138 *
Venus	83730-09-08 07:12 G	32303064.67	32303064.80	32303064.95	0.0143	0.0111
Venus	83731-04-22 19:12 G	32303291.13	32303291.30	32303291.50	0.0143	0.0074
Venus	83731-12-05 07:27 G	32303517.61	32303517.81	32303518.03	0.0143	0.0037
Venus	83732-07-18 19:56 G	32303744.11	32303744.33	32303744.55	0.0143	0.0002
Venus	83733-03-02 08:24 G	32303970.64	32303970.85	32303971.06	0.0143	0.0040
Venus	83733-10-14 20:39 G	32304197.19	32304197.36	32304197.56	0.0144	0.0078
Venus	83734-05-29 09:22 G	32304423.77	32304423.89	32304424.03	0.0144	0.0116
Jupiter	83737-07-01 11:17 G	32305552.48	32305552.97	32305553.50	0.0144	0.0029
Mercury	83739-07-01 13:41 G	32306283.05	32306283.07	32306283.10	0.0144	0.0140

Mercury	83739-09-27 17:46 G	32306371.16	32306371.24	32306371.32	0.0144	0.0117
Mercury	83739-12-24 21:51 G	32306459.31	32306459.41	32306459.51	0.0144	0.0095
Mercury	83740-03-22 01:56 G	32306547.46	32306547.58	32306547.70	0.0144	0.0072
Mercury	83740-06-18 06:00 G	32306635.62	32306635.75	32306635.88	0.0144	0.0049
Mercury	83740-09-14 10:05 G	32306723.79	32306723.92	32306724.06	0.0144	0.0025
Mercury	83740-12-11 14:24 G	32306811.96	32306812.10	32306812.24	0.0144	0.0004
Mercury	83741-03-09 18:29 G	32306900.13	32306900.27	32306900.41	0.0144	0.0022
Mercury	83741-06-05 22:34 G	32306988.31	32306988.44	32306988.58	0.0144	0.0046
Mercury	83741-09-02 02:53 G	32307076.50	32307076.62	32307076.74	0.0144	0.0069
Mercury	83741-11-29 06:58 G	32307164.69	32307164.79	32307164.91	0.0144	0.0093
Mercury	83742-02-25 11:17 G	32307252.90	32307252.97	32307253.06	0.0144	0.0117
Mercury	83742-05-24 15:36 G	32307341.13	32307341.15	32307341.18	0.0144	0.0141
Mars	83748-09-29 02:10 G	32309660.29	32309660.59	32309660.90	0.0143	0.0015
Earth	83762-10-27 17:17 G	32314802.17	32314802.22	32314802.29	0.0138	0.0134
Earth	83763-11-01 07:56 G	32315171.63	32315171.83	32315172.05	0.0138	0.0079
Moon	83763-11-01 11:17 G	32315171.76	32315171.97	32315172.20	0.0138	0.0072 *
Moon	83764-11-04 18:15 G	32315541.03	32315541.26	32315541.52	0.0137	0.0032
Earth	83764-11-04 22:05 G	32315541.18	32315541.42	32315541.68	0.0137	0.0023 *
Earth	83765-11-09 11:17 G	32315910.73	32315910.97	32315911.22	0.0137	0.0032
Moon	83765-11-09 14:39 G	32315910.87	32315911.11	32315911.37	0.0137	0.0039 *
Moon	83766-11-13 19:56 G	32316280.14	32316280.33	32316280.54	0.0137	0.0083
Earth	83766-11-13 23:32 G	32316280.29	32316280.48	32316280.68	0.0137	0.0086 *
Venus	83770-12-25 08:53 G	32317782.77	32317782.87	32317782.99	0.0135	0.0116
Venus	83771-08-08 14:39 G	32318008.94	32318009.11	32318009.28	0.0135	0.0085
Venus	83772-03-21 19:41 G	32318235.14	32318235.32	32318235.53	0.0135	0.0055
Venus	83772-11-03 01:12 G	32318461.34	32318461.55	32318461.77	0.0135	0.0023
Venus	83773-06-17 06:29 G	32318687.55	32318687.77	32318687.98	0.0135	0.0007
Venus	83774-01-29 11:17 G	32318913.77	32318913.97	32318914.19	0.0135	0.0038
Venus	83774-09-12 16:34 G	32319140.01	32319140.19	32319140.38	0.0135	0.0068
Venus	83775-04-26 21:36 G	32319366.25	32319366.40	32319366.55	0.0134	0.0098

Venus	83775-12-09 02:24 G	32319592.54	32319592.60	32319592.67	0.0134	0.0128
Jupiter	83779-05-31 17:17 G	32320861.95	32320862.22	32320862.53	0.0134	0.0111
Mercury	83781-10-16 03:22 G	32321730.59	32321730.64	32321730.71	0.0134	0.0127
Mercury	83782-01-12 09:51 G	32321818.79	32321818.91	32321819.02	0.0134	0.0102
Mercury	83782-04-10 15:51 G	32321907.02	32321907.16	32321907.31	0.0134	0.0078
Mercury	83782-07-07 21:51 G	32321995.26	32321995.41	32321995.58	0.0134	0.0054
Mercury	83782-10-04 04:05 G	32322083.50	32322083.67	32322083.85	0.0134	0.0030
Mercury	83782-12-31 10:05 G	32322171.75	32322171.92	32322172.10	0.0134	0.0007
Mercury	83783-03-29 16:05 G	32322260.00	32322260.17	32322260.35	0.0134	0.0018
Mercury	83783-06-25 22:05 G	32322348.25	32322348.42	32322348.59	0.0134	0.0042
Mercury	83783-09-22 03:51 G	32322436.51	32322436.66	32322436.82	0.0134	0.0065
Mercury	83783-12-19 09:51 G	32322524.78	32322524.91	32322525.04	0.0134	0.0088
Mercury	83784-03-16 15:22 G	32322613.06	32322613.14	32322613.25	0.0134	0.0112
Earth	83807-04-28 06:44 G	32331054.63	32331054.78	32331054.97	0.0140	0.0103
Moon	83807-04-28 07:56 G	32331054.65	32331054.83	32331055.03	0.0140	0.0097 *
Moon	83808-05-01 23:46 G	32331424.26	32331424.49	32331424.73	0.0141	0.0048
Earth	83808-05-02 00:29 G	32331424.29	32331424.52	32331424.77	0.0141	0.0045 *
Earth	83809-05-06 19:12 G	32331794.05	32331794.30	32331794.56	0.0141	0.0015
Moon	83809-05-06 21:08 G	32331794.12	32331794.38	32331794.65	0.0141	0.0013 *
Moon	83810-05-11 12:29 G	32332163.83	32332164.02	32332164.24	0.0141	0.0081
Earth	83810-05-11 14:24 G	32332163.90	32332164.10	32332164.33	0.0141	0.0076 *
Earth	83811-05-16 10:34 G	32332533.88	32332533.94	32332534.01	0.0142	0.0136
Moon	83811-05-16 12:58 G	32332533.95	32332534.04	32332534.16	0.0142	0.0129 *
Venus	83814-05-09 12:58 G	32333622.95	32333623.04	32333623.14	0.0143	0.0128
Venus	83814-12-22 00:44 G	32333849.37	32333849.53	32333849.71	0.0143	0.0091
Venus	83815-08-05 12:58 G	32334075.84	32334076.04	32334076.25	0.0143	0.0054
Venus	83816-03-19 01:27 G	32334302.34	32334302.56	32334302.78	0.0143	0.0016
Venus	83816-10-31 13:56 G	32334528.86	32334529.08	32334529.30	0.0143	0.0022
Venus	83817-06-15 02:10 G	32334755.39	32334755.59	32334755.80	0.0144	0.0060
Venus	83818-01-27 14:39 G	32334981.96	32334982.11	32334982.28	0.0144	0.0098

Venus	83818-09-11 03:08 G	32335208.58	32335208.63	32335208.72	0.0144	0.0136
Mercury	83823-07-22 20:53 G	32336984.33	32336984.37	32336984.42	0.0144	0.0134
Mercury	83823-10-19 00:58 G	32337072.46	32337072.54	32337072.63	0.0144	0.0111
Mercury	83824-01-15 05:03 G	32337160.60	32337160.71	32337160.82	0.0144	0.0088
Mercury	83824-04-12 09:08 G	32337248.76	32337248.88	32337249.01	0.0144	0.0065
Mercury	83824-07-09 13:12 G	32337336.92	32337337.05	32337337.19	0.0144	0.0042
Mercury	83824-10-05 17:17 G	32337425.09	32337425.22	32337425.36	0.0144	0.0020
Mercury	83825-01-01 21:36 G	32337513.26	32337513.40	32337513.54	0.0144	0.0005
Mercury	83825-03-31 01:41 G	32337601.44	32337601.57	32337601.71	0.0144	0.0028
Mercury	83825-06-27 05:46 G	32337689.62	32337689.74	32337689.88	0.0144	0.0053
Mercury	83825-09-23 10:05 G	32337777.81	32337777.92	32337778.04	0.0144	0.0076
Mercury	83825-12-20 14:24 G	32337866.00	32337866.10	32337866.20	0.0144	0.0100
Mercury	83826-03-18 18:44 G	32337954.21	32337954.28	32337954.35	0.0144	0.0124
Moon	83846-10-29 04:34 G	32345483.58	32345483.69	32345483.80	0.0138	0.0124
Earth	83846-10-29 07:12 G	32345483.71	32345483.80	32345483.91	0.0138	0.0128 *
Earth	83847-11-02 22:05 G	32345853.21	32345853.42	32345853.65	0.0138	0.0071
Moon	83847-11-03 01:12 G	32345853.36	32345853.55	32345853.78	0.0138	0.0079 *
Moon	83848-11-06 09:22 G	32346222.64	32346222.89	32346223.14	0.0137	0.0008
Earth	83848-11-06 12:29 G	32346222.77	32346223.02	32346223.27	0.0137	0.0016 *
Earth	83849-11-11 01:12 G	32346592.32	32346592.55	32346592.81	0.0137	0.0040
Moon	83849-11-11 04:48 G	32346592.47	32346592.70	32346592.96	0.0137	0.0034 *
Moon	83850-11-15 10:20 G	32346961.77	32346961.93	32346962.11	0.0137	0.0099
Earth	83850-11-15 13:41 G	32346961.90	32346962.07	32346962.27	0.0137	0.0094 *
Venus	83854-08-25 21:36 G	32348341.33	32348341.40	32348341.47	0.0136	0.0127
Venus	83855-04-09 02:53 G	32348567.48	32348567.62	32348567.78	0.0135	0.0097
Venus	83855-11-21 08:24 G	32348793.67	32348793.85	32348794.04	0.0135	0.0066
Venus	83856-07-04 13:41 G	32349019.86	32349020.07	32349020.28	0.0135	0.0035
Venus	83857-02-15 18:58 G	32349246.07	32349246.29	32349246.50	0.0135	0.0004
Venus	83857-09-30 00:15 G	32349472.30	32349472.51	32349472.72	0.0135	0.0026
Venus	83858-05-14 05:03 G	32349698.53	32349698.71	32349698.92	0.0135	0.0057

Venus	83858-12-26 09:51 G	32349924.76	32349924.91	32349925.09	0.0135	0.0087
Venus	83859-08-09 14:39 G	32350151.03	32350151.11	32350151.24	0.0134	0.0117
Mercury	83865-11-06 11:32 G	32352431.90	32352431.98	32352432.08	0.0134	0.0116
Mercury	83866-02-02 17:32 G	32352520.12	32352520.23	32352520.38	0.0134	0.0092
Mercury	83866-05-02 00:00 G	32352608.35	32352608.50	32352608.66	0.0134	0.0067
Mercury	83866-07-29 06:00 G	32352696.59	32352696.75	32352696.93	0.0134	0.0043
Mercury	83866-10-25 12:15 G	32352784.83	32352785.01	32352785.19	0.0134	0.0019
Mercury	83867-01-21 18:15 G	32352873.08	32352873.26	32352873.44	0.0134	0.0005
Mercury	83867-04-20 00:00 G	32352961.33	32352961.50	32352961.68	0.0134	0.0029
Mercury	83867-07-17 06:00 G	32353049.59	32353049.75	32353049.92	0.0134	0.0052
Mercury	83867-10-13 12:00 G	32353137.86	32353138.00	32353138.15	0.0134	0.0075
Mercury	83868-01-09 17:32 G	32353226.13	32353226.23	32353226.36	0.0134	0.0099
Mercury	83868-04-06 23:17 G	32353314.42	32353314.47	32353314.56	0.0134	0.0122
Mars	83875-08-01 03:36 G	32355986.35	32355986.65	32355986.96	0.0135	0.0018
Moon	83891-04-28 18:00 G	32361736.08	32361736.25	32361736.44	0.0140	0.0103
Earth	83891-04-28 18:00 G	32361736.08	32361736.25	32361736.45	0.0140	0.0097 *
Moon	83892-05-02 11:03 G	32362105.72	32362105.96	32362106.20	0.0141	0.0036
Earth	83892-05-02 11:46 G	32362105.75	32362105.99	32362106.24	0.0141	0.0039 *
Earth	83893-05-07 06:15 G	32362475.51	32362475.76	32362476.01	0.0141	0.0021
Moon	83893-05-07 06:58 G	32362475.53	32362475.79	32362476.05	0.0141	0.0021 *
Moon	83894-05-11 23:32 G	32362845.28	32362845.48	32362845.70	0.0141	0.0077
Earth	83894-05-12 01:12 G	32362845.35	32362845.55	32362845.77	0.0141	0.0082 *
Venus	83898-08-21 06:58 G	32364407.66	32364407.79	32364407.95	0.0143	0.0108
Venus	83899-04-04 19:12 G	32364634.12	32364634.30	32364634.50	0.0143	0.0071
Venus	83899-11-17 07:41 G	32364860.60	32364860.82	32364861.03	0.0143	0.0033
Venus	83900-07-01 19:56 G	32365087.11	32365087.33	32365087.55	0.0143	0.0004
Venus	83901-02-13 08:10 G	32365313.64	32365313.84	32365314.06	0.0143	0.0043
Venus	83901-09-27 20:39 G	32365540.19	32365540.36	32365540.56	0.0144	0.0081
Venus	83902-05-12 09:22 G	32365766.78	32365766.89	32365767.03	0.0144	0.0119
Mercury	83907-08-13 04:05 G	32367685.62	32367685.67	32367685.74	0.0144	0.0128

Mercury	83907-11-09 08:24 G	32367773.76	32367773.85	32367773.94	0.0144	0.0105
Mercury	83908-02-05 12:29 G	32367861.90	32367862.02	32367862.13	0.0144	0.0082
Mercury	83908-05-03 16:34 G	32367950.06	32367950.19	32367950.32	0.0144	0.0059
Mercury	83908-07-30 20:39 G	32368038.22	32368038.36	32368038.49	0.0144	0.0035
Mercury	83908-10-27 00:44 G	32368126.39	32368126.53	32368126.67	0.0144	0.0012
Mercury	83909-01-23 04:48 G	32368214.56	32368214.70	32368214.84	0.0144	0.0012
Mercury	83909-04-21 09:08 G	32368302.74	32368302.88	32368303.01	0.0144	0.0035
Mercury	83909-07-18 13:12 G	32368390.93	32368391.05	32368391.18	0.0144	0.0059
Mercury	83909-10-14 17:32 G	32368479.12	32368479.23	32368479.35	0.0144	0.0083
Mercury	83910-01-10 21:36 G	32368567.31	32368567.40	32368567.50	0.0144	0.0107
Mercury	83910-04-09 01:56 G	32368655.53	32368655.58	32368655.64	0.0144	0.0131
Mars	83916-02-17 17:46 G	32370795.97	32370796.24	32370796.53	0.0143	0.0058
Moon	83930-10-30 17:03 G	32376165.13	32376165.21	32376165.34	0.0138	0.0126
Earth	83930-10-30 19:56 G	32376165.23	32376165.33	32376165.47	0.0138	0.0122 *
Earth	83931-11-04 11:03 G	32376534.75	32376534.96	32376535.20	0.0138	0.0065
Moon	83931-11-04 13:41 G	32376534.85	32376535.07	32376535.32	0.0138	0.0059 *
Moon	83932-11-07 22:05 G	32376904.18	32376904.42	32376904.68	0.0138	0.0017
Earth	83932-11-08 01:27 G	32376904.31	32376904.56	32376904.82	0.0138	0.0009 *
Earth	83933-11-12 14:24 G	32377273.88	32377274.10	32377274.35	0.0137	0.0047
Moon	83933-11-12 17:32 G	32377274.01	32377274.23	32377274.48	0.0137	0.0054 *
Moon	83934-11-16 23:32 G	32377643.32	32377643.48	32377643.67	0.0137	0.0098
Earth	83934-11-17 03:08 G	32377643.47	32377643.63	32377643.81	0.0137	0.0101 *
Venus	83938-12-08 14:39 G	32379126.00	32379126.11	32379126.25	0.0136	0.0109
Venus	83939-07-22 20:24 G	32379352.18	32379352.35	32379352.53	0.0135	0.0078
Venus	83940-03-05 01:41 G	32379578.37	32379578.57	32379578.78	0.0135	0.0047
Venus	83940-10-17 07:12 G	32379804.59	32379804.80	32379805.01	0.0135	0.0016
Venus	83941-05-31 12:29 G	32380030.80	32380031.02	32380031.23	0.0135	0.0014
Venus	83942-01-12 17:17 G	32380257.03	32380257.22	32380257.43	0.0135	0.0045
Venus	83942-08-26 22:20 G	32380483.27	32380483.43	32380483.62	0.0135	0.0075
Venus	83943-04-10 03:22 G	32380709.52	32380709.64	32380709.79	0.0135	0.0105

Venus	83943-11-22 08:24 G	32380935.85	32380935.85	32380935.87	0.0134	0.0134
Mercury	83949-08-31 13:12 G	32383045.03	32383045.05	32383045.11	0.0134	0.0130
Mercury	83949-11-27 19:41 G	32383133.22	32383133.32	32383133.44	0.0134	0.0105
Mercury	83950-02-24 01:56 G	32383221.44	32383221.58	32383221.73	0.0134	0.0081
Mercury	83950-05-23 07:56 G	32383309.68	32383309.83	32383310.00	0.0134	0.0057
Mercury	83950-08-19 14:10 G	32383397.92	32383398.09	32383398.27	0.0134	0.0033
Mercury	83950-11-15 20:24 G	32383486.17	32383486.35	32383486.52	0.0134	0.0009
Mercury	83951-02-12 02:10 G	32383574.42	32383574.59	32383574.77	0.0134	0.0016
Mercury	83951-05-11 08:10 G	32383662.67	32383662.84	32383663.01	0.0134	0.0039
Mercury	83951-08-07 13:56 G	32383750.94	32383751.08	32383751.25	0.0134	0.0063
Mercury	83951-11-03 19:56 G	32383839.20	32383839.33	32383839.47	0.0134	0.0086
Mercury	83952-01-31 01:41 G	32383927.48	32383927.57	32383927.68	0.0134	0.0109
Mercury	83952-04-28 07:27 G	32384015.79	32384015.81	32384015.85	0.0134	0.0132
Mars	83960-03-27 05:32 G	32386905.55	32386905.73	32386905.95	0.0135	0.0102
Moon	83975-04-30 05:03 G	32392417.52	32392417.71	32392417.93	0.0140	0.0085
Earth	83975-04-30 05:17 G	32392417.54	32392417.72	32392417.93	0.0140	0.0092 *
Earth	83976-05-03 22:34 G	32392787.20	32392787.44	32392787.70	0.0140	0.0033
Moon	83976-05-03 22:48 G	32392787.23	32392787.45	32392787.70	0.0140	0.0038 *
Earth	83977-05-08 16:48 G	32393156.95	32393157.20	32393157.45	0.0141	0.0027
Moon	83977-05-08 17:32 G	32393156.98	32393157.23	32393157.49	0.0141	0.0027 *
Moon	83978-05-13 10:48 G	32393526.77	32393526.95	32393527.15	0.0141	0.0091
Earth	83978-05-13 11:32 G	32393526.79	32393526.98	32393527.19	0.0141	0.0088 *
Moon	83979-05-18 08:39 G	32393896.85	32393896.86	32393896.89	0.0142	0.0141
Venus	83982-04-21 12:58 G	32394965.95	32394966.04	32394966.16	0.0143	0.0125
Venus	83982-12-04 00:58 G	32395192.38	32395192.54	32395192.72	0.0143	0.0088
Venus	83983-07-18 12:58 G	32395418.84	32395419.04	32395419.26	0.0143	0.0051
Venus	83984-03-01 01:27 G	32395645.34	32395645.56	32395645.78	0.0143	0.0013
Venus	83984-10-13 13:41 G	32395871.86	32395872.07	32395872.29	0.0143	0.0025
Venus	83985-05-28 01:56 G	32396098.40	32396098.58	32396098.79	0.0143	0.0063
Venus	83986-01-09 14:53 G	32396324.96	32396325.12	32396325.28	0.0144	0.0100

Venus	83986-08-24 03:08 G	32396551.59	32396551.63	32396551.71	0.0144	0.0138
Mercury	83991-09-02 11:17 G	32398386.90	32398386.97	32398387.05	0.0144	0.0122
Mercury	83991-11-29 15:22 G	32398475.04	32398475.14	32398475.24	0.0144	0.0099
Mercury	83992-02-25 19:27 G	32398563.19	32398563.31	32398563.43	0.0144	0.0076
Mercury	83992-05-23 23:32 G	32398651.35	32398651.48	32398651.61	0.0144	0.0053
Mercury	83992-08-20 03:36 G	32398739.52	32398739.65	32398739.79	0.0144	0.0030
Mercury	83992-11-16 07:41 G	32398827.68	32398827.82	32398827.96	0.0144	0.0008
Mercury	83993-02-12 11:46 G	32398915.86	32398915.99	32398916.14	0.0144	0.0018
Mercury	83993-05-11 16:05 G	32399004.03	32399004.17	32399004.30	0.0144	0.0040
Mercury	83993-08-07 20:10 G	32399092.22	32399092.34	32399092.47	0.0144	0.0064
Mercury	83993-11-04 00:29 G	32399180.41	32399180.52	32399180.63	0.0144	0.0088
Mercury	83994-01-31 04:48 G	32399268.61	32399268.70	32399268.79	0.0144	0.0112
Mercury	83994-04-29 09:08 G	32399356.83	32399356.88	32399356.92	0.0144	0.0136
Mars	84000-10-13 05:17 G	32401715.48	32401715.72	32401715.99	0.0143	0.0078

85TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 85th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	84014-10-31 05:46 G	32406846.61	32406846.74	32406846.89	0.0138	0.0113		
Earth	84014-10-31 07:56 G	32406846.70	32406846.83	32406846.98	0.0138	0.0116	*	
Earth	84015-11-04 23:17 G	32407216.24	32407216.47	32407216.70	0.0138	0.0058		
Moon	84015-11-05 01:56 G	32407216.36	32407216.58	32407216.82	0.0138	0.0065	*	
Moon	84016-11-08 11:17 G	32407585.72	32407585.97	32407586.22	0.0138	0.0005		

Earth	84016-11-08 13:41 G	32407585.82	32407586.07	32407586.33	0.0138	0.0003	*
Earth	84017-11-13 02:53 G	32407955.39	32407955.62	32407955.86	0.0137	0.0054	
Moon	84017-11-13 06:00 G	32407955.52	32407955.75	32407956.00	0.0137	0.0047	*
Moon	84018-11-17 12:15 G	32408324.89	32408325.01	32408325.17	0.0137	0.0114	
Earth	84018-11-17 15:22 G	32408325.00	32408325.14	32408325.31	0.0137	0.0108	*
Venus	84022-08-08 02:24 G	32409684.51	32409684.60	32409684.70	0.0136	0.0121	
Venus	84023-03-22 07:41 G	32409910.68	32409910.82	32409911.00	0.0136	0.0091	
Venus	84023-11-03 13:27 G	32410136.88	32410137.06	32410137.26	0.0135	0.0060	
Venus	84024-06-16 18:58 G	32410363.08	32410363.29	32410363.50	0.0135	0.0029	
Venus	84025-01-29 00:29 G	32410589.30	32410589.52	32410589.73	0.0135	0.0003	
Venus	84025-09-12 05:46 G	32410815.53	32410815.74	32410815.95	0.0135	0.0032	
Venus	84026-04-26 10:48 G	32411041.77	32411041.95	32411042.15	0.0135	0.0063	
Venus	84026-12-08 15:51 G	32411268.01	32411268.16	32411268.32	0.0135	0.0093	
Venus	84027-07-22 20:39 G	32411494.29	32411494.36	32411494.46	0.0135	0.0123	
Mercury	84033-09-20 21:22 G	32413746.33	32413746.39	32413746.49	0.0134	0.0119	
Mercury	84033-12-18 03:51 G	32413834.54	32413834.66	32413834.79	0.0134	0.0094	
Mercury	84034-03-16 10:05 G	32413922.77	32413922.92	32413923.08	0.0134	0.0070	
Mercury	84034-06-12 16:05 G	32414011.01	32414011.17	32414011.35	0.0134	0.0046	
Mercury	84034-09-08 22:20 G	32414099.26	32414099.43	32414099.61	0.0134	0.0022	
Mercury	84034-12-06 04:20 G	32414187.51	32414187.68	32414187.86	0.0134	0.0004	
Mercury	84035-03-04 10:20 G	32414275.76	32414275.93	32414276.11	0.0134	0.0026	
Mercury	84035-05-31 16:20 G	32414364.02	32414364.18	32414364.35	0.0134	0.0050	
Mercury	84035-08-27 22:05 G	32414452.28	32414452.42	32414452.58	0.0134	0.0073	
Mercury	84035-11-24 04:05 G	32414540.55	32414540.67	32414540.80	0.0134	0.0096	
Mercury	84036-02-20 10:05 G	32414628.84	32414628.92	32414629.00	0.0134	0.0119	
Mars	84042-12-19 21:51 G	32417123.16	32417123.41	32417123.70	0.0135	0.0064	
Moon	84058-04-26 05:03 G	32422729.65	32422729.71	32422729.78	0.0140	0.0134	
Moon	84059-04-30 18:44 G	32423099.09	32423099.28	32423099.49	0.0140	0.0090	
Earth	84059-04-30 19:41 G	32423099.14	32423099.32	32423099.54	0.0140	0.0084	*
Earth	84060-05-04 12:58 G	32423468.80	32423469.04	32423469.30	0.0140	0.0026	

Moon	84060-05-04 13:27 G	32423468.82	32423469.06	32423469.31	0.0140	0.0021	*
Moon	84061-05-09 06:44 G	32423838.53	32423838.78	32423839.04	0.0141	0.0034	
Earth	84061-05-09 07:12 G	32423838.56	32423838.80	32423839.05	0.0141	0.0035	*
Moon	84062-05-14 00:58 G	32424208.38	32424208.54	32424208.75	0.0141	0.0093	
Earth	84062-05-14 01:41 G	32424208.40	32424208.57	32424208.77	0.0141	0.0096	*
Venus	84065-12-19 21:51 G	32425524.37	32425524.41	32425524.46	0.0142	0.0139	
Venus	84066-08-03 09:36 G	32425750.76	32425750.90	32425751.06	0.0143	0.0103	
Venus	84067-03-17 21:36 G	32425977.22	32425977.40	32425977.61	0.0143	0.0066	
Venus	84067-10-30 10:05 G	32426203.70	32426203.92	32426204.13	0.0143	0.0028	
Venus	84068-06-12 22:20 G	32426430.21	32426430.43	32426430.65	0.0143	0.0009	
Venus	84069-01-25 10:34 G	32426656.73	32426656.94	32426657.15	0.0143	0.0047	
Venus	84069-09-08 22:48 G	32426883.28	32426883.45	32426883.64	0.0143	0.0085	
Venus	84070-04-23 11:46 G	32427109.88	32427109.99	32427110.11	0.0144	0.0122	
Mercury	84075-06-26 14:53 G	32429000.09	32429000.12	32429000.18	0.0144	0.0137	
Mercury	84075-09-22 19:12 G	32429088.22	32429088.30	32429088.39	0.0144	0.0113	
Mercury	84075-12-19 23:17 G	32429176.36	32429176.47	32429176.58	0.0144	0.0091	
Mercury	84076-03-17 03:22 G	32429264.52	32429264.64	32429264.76	0.0144	0.0068	
Mercury	84076-06-13 07:27 G	32429352.67	32429352.81	32429352.94	0.0144	0.0045	
Mercury	84076-09-09 11:32 G	32429440.84	32429440.98	32429441.11	0.0144	0.0022	
Mercury	84076-12-06 15:36 G	32429529.01	32429529.15	32429529.29	0.0144	0.0003	
Mercury	84077-03-04 19:41 G	32429617.18	32429617.32	32429617.46	0.0144	0.0026	
Mercury	84077-05-31 23:46 G	32429705.36	32429705.49	32429705.63	0.0144	0.0049	
Mercury	84077-08-28 03:51 G	32429793.55	32429793.66	32429793.79	0.0144	0.0073	
Mercury	84077-11-24 08:10 G	32429881.74	32429881.84	32429881.95	0.0144	0.0097	
Mercury	84078-02-20 12:29 G	32429969.95	32429970.02	32429970.10	0.0144	0.0121	
Mars	84083-07-06 06:58 G	32431931.67	32431931.79	32431931.91	0.0144	0.0132	
Moon	84098-10-31 19:12 G	32437528.16	32437528.30	32437528.45	0.0138	0.0112	
Earth	84098-10-31 20:39 G	32437528.22	32437528.36	32437528.53	0.0138	0.0109	*
Earth	84099-11-05 12:00 G	32437897.78	32437898.00	32437898.25	0.0138	0.0052	
Moon	84099-11-05 14:10 G	32437897.85	32437898.09	32437898.34	0.0138	0.0047	*

Moon	84100-11-10 00:00 G	32438267.25	32438267.50	32438267.75	0.0138	0.0003
Earth	84100-11-10 02:24 G	32438267.35	32438267.60	32438267.86	0.0138	0.0006 *
Earth	84101-11-14 15:51 G	32438636.94	32438637.16	32438637.39	0.0137	0.0060
Moon	84101-11-14 18:15 G	32438637.04	32438637.26	32438637.49	0.0137	0.0068 *
Moon	84102-11-19 01:27 G	32439006.43	32439006.56	32439006.72	0.0137	0.0111
Earth	84102-11-19 04:20 G	32439006.56	32439006.68	32439006.83	0.0137	0.0115 *
Venus	84106-04-08 14:10 G	32440243.06	32440243.09	32440243.13	0.0136	0.0133
Venus	84106-11-20 19:41 G	32440469.19	32440469.32	32440469.47	0.0136	0.0103
Venus	84107-07-05 01:27 G	32440695.38	32440695.56	32440695.75	0.0136	0.0072
Venus	84108-02-16 06:58 G	32440921.59	32440921.79	32440922.00	0.0135	0.0041
Venus	84108-09-29 12:44 G	32441147.81	32441148.03	32441148.24	0.0135	0.0010
Venus	84109-05-13 18:00 G	32441374.04	32441374.25	32441374.46	0.0135	0.0020
Venus	84109-12-25 23:03 G	32441600.27	32441600.46	32441600.67	0.0135	0.0051
Venus	84110-08-09 04:05 G	32441826.51	32441826.67	32441826.85	0.0135	0.0081
Venus	84111-03-23 09:08 G	32442052.77	32442052.88	32442053.02	0.0135	0.0111
Mercury	84117-07-15 23:32 G	32444359.46	32444359.48	32444359.51	0.0134	0.0132
Mercury	84117-10-12 05:32 G	32444447.64	32444447.73	32444447.85	0.0134	0.0108
Mercury	84118-01-08 12:00 G	32444535.86	32444536.00	32444536.14	0.0134	0.0083
Mercury	84118-04-06 18:15 G	32444624.10	32444624.26	32444624.42	0.0134	0.0059
Mercury	84118-07-04 00:15 G	32444712.34	32444712.51	32444712.69	0.0134	0.0035
Mercury	84118-09-30 06:29 G	32444800.59	32444800.77	32444800.95	0.0134	0.0011
Mercury	84118-12-27 12:29 G	32444888.85	32444889.02	32444889.20	0.0134	0.0013
Mercury	84119-03-25 18:29 G	32444977.10	32444977.27	32444977.44	0.0134	0.0037
Mercury	84119-06-22 00:29 G	32445065.36	32445065.52	32445065.68	0.0134	0.0060
Mercury	84119-09-18 06:15 G	32445153.63	32445153.76	32445153.91	0.0134	0.0084
Mercury	84119-12-15 12:15 G	32445241.91	32445242.01	32445242.12	0.0134	0.0107
Mercury	84120-03-12 18:00 G	32445330.22	32445330.25	32445330.30	0.0134	0.0130
Mars	84127-08-15 23:32 G	32448042.22	32448042.48	32448042.78	0.0135	0.0057
Earth	84142-04-27 17:46 G	32453411.18	32453411.24	32453411.32	0.0140	0.0134
Moon	84143-05-02 08:39 G	32453780.65	32453780.86	32453781.10	0.0140	0.0069

Earth	84143-05-02 10:20 G	32453780.72	32453780.93	32453781.14	0.0140	0.0076	*
Earth	84144-05-06 03:08 G	32454150.39	32454150.63	32454150.89	0.0140	0.0018	
Moon	84144-05-06 04:34 G	32454150.45	32454150.69	32454150.94	0.0140	0.0023	*
Moon	84145-05-10 20:39 G	32454520.12	32454520.36	32454520.62	0.0141	0.0043	
Earth	84145-05-10 20:53 G	32454520.14	32454520.37	32454520.63	0.0141	0.0043	*
Earth	84146-05-15 15:36 G	32454889.99	32454890.15	32454890.34	0.0141	0.0103	
Moon	84146-05-15 15:51 G	32454890.02	32454890.16	32454890.34	0.0141	0.0106	*
Venus	84150-04-03 18:00 G	32456309.15	32456309.25	32456309.40	0.0142	0.0118	
Venus	84150-11-16 06:15 G	32456535.59	32456535.76	32456535.95	0.0143	0.0081	
Venus	84151-06-30 18:15 G	32456762.06	32456762.26	32456762.48	0.0143	0.0044	
Venus	84152-02-12 06:29 G	32456988.55	32456988.77	32456989.00	0.0143	0.0007	
Venus	84152-09-25 18:58 G	32457215.07	32457215.29	32457215.50	0.0143	0.0031	
Venus	84153-05-10 07:12 G	32457441.62	32457441.80	32457442.00	0.0143	0.0069	
Venus	84153-12-22 19:41 G	32457668.18	32457668.32	32457668.47	0.0143	0.0107	
Mercury	84159-07-17 22:48 G	32459701.40	32459701.45	32459701.52	0.0144	0.0128	
Mercury	84159-10-14 02:53 G	32459789.53	32459789.62	32459789.72	0.0144	0.0105	
Mercury	84160-01-10 06:58 G	32459877.68	32459877.79	32459877.91	0.0144	0.0082	
Mercury	84160-04-07 11:03 G	32459965.84	32459965.96	32459966.09	0.0144	0.0059	
Mercury	84160-07-04 15:08 G	32460054.00	32460054.13	32460054.27	0.0144	0.0036	
Mercury	84160-09-30 19:12 G	32460142.16	32460142.30	32460142.44	0.0144	0.0013	
Mercury	84160-12-27 23:17 G	32460230.33	32460230.47	32460230.61	0.0144	0.0012	
Mercury	84161-03-26 03:36 G	32460318.51	32460318.65	32460318.78	0.0144	0.0035	
Mercury	84161-06-22 07:41 G	32460406.69	32460406.82	32460406.95	0.0144	0.0058	
Mercury	84161-09-18 11:46 G	32460494.88	32460494.99	32460495.11	0.0144	0.0082	
Mercury	84161-12-15 15:51 G	32460583.08	32460583.16	32460583.27	0.0144	0.0106	
Mercury	84162-03-13 20:10 G	32460671.29	32460671.34	32460671.41	0.0144	0.0130	
Mars	84168-03-02 03:22 G	32462851.34	32462851.64	32462851.95	0.0144	0.0011	
Moon	84182-11-02 09:08 G	32468209.72	32468209.88	32468210.06	0.0138	0.0101	
Earth	84182-11-02 10:05 G	32468209.77	32468209.92	32468210.11	0.0138	0.0103	*
Earth	84183-11-07 01:27 G	32468579.33	32468579.56	32468579.81	0.0138	0.0045	

Moon	84183-11-07 03:22 G	32468579.40	32468579.64	32468579.89	0.0138	0.0051 *
Moon	84184-11-10 14:24 G	32468948.86	32468949.10	32468949.35	0.0138	0.0019
Earth	84184-11-10 16:05 G	32468948.91	32468949.17	32468949.42	0.0138	0.0012 *
Earth	84185-11-15 05:03 G	32469318.50	32469318.71	32469318.94	0.0137	0.0068
Moon	84185-11-15 07:27 G	32469318.59	32469318.81	32469319.06	0.0137	0.0062 *
Moon	84186-11-19 15:36 G	32469688.08	32469688.15	32469688.25	0.0137	0.0129
Earth	84186-11-19 17:32 G	32469688.14	32469688.23	32469688.37	0.0137	0.0123 *
Venus	84190-07-21 07:27 G	32471027.72	32471027.81	32471027.95	0.0136	0.0115
Venus	84191-03-04 13:27 G	32471253.90	32471254.06	32471254.24	0.0136	0.0084
Venus	84191-10-16 19:27 G	32471480.11	32471480.31	32471480.51	0.0135	0.0053
Venus	84192-05-30 00:58 G	32471706.33	32471706.54	32471706.75	0.0135	0.0022
Venus	84193-01-11 06:15 G	32471932.55	32471932.76	32471932.98	0.0135	0.0010
Venus	84193-08-25 11:46 G	32472158.79	32472158.99	32472159.20	0.0135	0.0039
Venus	84194-04-08 17:03 G	32472385.03	32472385.21	32472385.39	0.0135	0.0069
Venus	84194-11-20 22:20 G	32472611.28	32472611.43	32472611.57	0.0135	0.0099
Venus	84195-07-05 03:08 G	32472837.58	32472837.63	32472837.70	0.0135	0.0129
Mercury	84201-08-06 07:41 G	32475060.75	32475060.82	32475060.90	0.0134	0.0121
Mercury	84201-11-02 13:56 G	32475148.97	32475149.08	32475149.21	0.0134	0.0097
Mercury	84202-01-29 20:10 G	32475237.20	32475237.34	32475237.50	0.0134	0.0072
Mercury	84202-04-28 02:24 G	32475325.44	32475325.60	32475325.77	0.0134	0.0048
Mercury	84202-07-25 08:39 G	32475413.68	32475413.86	32475414.04	0.0134	0.0024
Mercury	84202-10-21 14:39 G	32475501.93	32475502.11	32475502.29	0.0134	0.0003
Mercury	84203-01-17 20:53 G	32475590.19	32475590.37	32475590.54	0.0134	0.0024
Mercury	84203-04-16 02:39 G	32475678.45	32475678.61	32475678.78	0.0134	0.0048
Mercury	84203-07-13 08:24 G	32475766.72	32475766.85	32475767.01	0.0134	0.0072
Mercury	84203-10-09 14:24 G	32475854.99	32475855.10	32475855.24	0.0134	0.0095
Mercury	84204-01-05 20:24 G	32475943.28	32475943.35	32475943.44	0.0134	0.0118
Mars	84210-05-10 18:44 G	32478260.12	32478260.28	32478260.49	0.0135	0.0107
Earth	84226-04-29 08:39 G	32484092.77	32484092.86	32484092.97	0.0140	0.0127
Moon	84226-04-29 10:34 G	32484092.84	32484092.94	32484093.09	0.0140	0.0120 *

Moon	84227-05-03 22:34 G	32484462.23	32484462.44	32484462.67	0.0140	0.0076
Earth	84227-05-04 00:44 G	32484462.33	32484462.53	32484462.77	0.0140	0.0069 *
Earth	84228-05-07 18:15 G	32484832.00	32484832.26	32484832.51	0.0140	0.0010
Moon	84228-05-07 19:27 G	32484832.06	32484832.31	32484832.55	0.0140	0.0005 *
Moon	84229-05-12 10:34 G	32485201.70	32485201.94	32485202.19	0.0141	0.0048
Earth	84229-05-12 12:00 G	32485201.77	32485202.00	32485202.24	0.0141	0.0051 *
Earth	84230-05-17 06:29 G	32485571.63	32485571.77	32485571.94	0.0141	0.0111
Moon	84230-05-17 07:12 G	32485571.65	32485571.80	32485571.96	0.0141	0.0109 *
Venus	84233-12-03 03:51 G	32486867.59	32486867.66	32486867.76	0.0142	0.0131
Venus	84234-07-17 15:36 G	32487094.00	32487094.15	32487094.33	0.0143	0.0095
Venus	84235-03-01 03:51 G	32487320.47	32487320.66	32487320.87	0.0143	0.0058
Venus	84235-10-13 16:05 G	32487546.95	32487547.17	32487547.39	0.0143	0.0021
Venus	84236-05-27 04:20 G	32487773.46	32487773.68	32487773.90	0.0143	0.0017
Venus	84237-01-08 16:34 G	32487999.99	32488000.19	32488000.40	0.0143	0.0054
Venus	84237-08-23 04:48 G	32488226.55	32488226.70	32488226.88	0.0143	0.0092
Venus	84238-04-06 17:32 G	32488453.15	32488453.23	32488453.34	0.0144	0.0130
Mercury	84243-05-12 03:08 G	32490314.60	32490314.63	32490314.67	0.0144	0.0139
Mercury	84243-08-08 07:12 G	32490402.72	32490402.80	32490402.88	0.0144	0.0116
Mercury	84243-11-04 11:17 G	32490490.87	32490490.97	32490491.08	0.0144	0.0094
Mercury	84244-01-31 15:22 G	32490579.02	32490579.14	32490579.26	0.0144	0.0071
Mercury	84244-04-28 19:27 G	32490667.18	32490667.31	32490667.44	0.0144	0.0048
Mercury	84244-07-25 23:32 G	32490755.34	32490755.48	32490755.61	0.0144	0.0025
Mercury	84244-10-22 03:36 G	32490843.51	32490843.65	32490843.79	0.0144	0.0002
Mercury	84245-01-18 07:41 G	32490931.68	32490931.82	32490931.96	0.0144	0.0022
Mercury	84245-04-16 11:46 G	32491019.86	32491019.99	32491020.13	0.0144	0.0046
Mercury	84245-07-13 15:51 G	32491108.05	32491108.16	32491108.29	0.0144	0.0070
Mercury	84245-10-09 20:10 G	32491196.24	32491196.34	32491196.45	0.0144	0.0094
Mercury	84246-01-06 00:29 G	32491284.44	32491284.52	32491284.60	0.0144	0.0118
Mercury	84246-04-04 04:48 G	32491372.68	32491372.70	32491372.72	0.0144	0.0142
Moon	84266-11-04 00:29 G	32498891.35	32498891.52	32498891.71	0.0138	0.0097

Earth	84266-11-04 01:12 G	32498891.38	32498891.55	32498891.75	0.0138	0.0095	*
Earth	84267-11-08 16:20 G	32499260.95	32499261.18	32499261.44	0.0138	0.0037	
Moon	84267-11-08 17:32 G	32499260.98	32499261.23	32499261.49	0.0138	0.0032	*
Moon	84268-11-12 05:03 G	32499630.46	32499630.71	32499630.96	0.0138	0.0013	
Earth	84268-11-12 06:44 G	32499630.53	32499630.78	32499631.03	0.0138	0.0020	*
Earth	84269-11-16 19:56 G	32500000.13	32500000.33	32500000.55	0.0137	0.0076	
Moon	84269-11-16 21:36 G	32500000.19	32500000.40	32500000.61	0.0137	0.0083	*
Moon	84270-11-21 06:15 G	32500369.68	32500369.76	32500369.87	0.0137	0.0126	
Earth	84270-11-21 08:53 G	32500369.80	32500369.87	32500369.94	0.0137	0.0130	*
Venus	84274-03-21 20:10 G	32501586.28	32501586.34	32501586.44	0.0136	0.0126	
Venus	84274-11-03 02:10 G	32501812.45	32501812.59	32501812.75	0.0136	0.0095	
Venus	84275-06-17 07:41 G	32502038.65	32502038.82	32502039.03	0.0136	0.0065	
Venus	84276-01-29 13:41 G	32502264.86	32502265.07	32502265.28	0.0135	0.0034	
Venus	84276-09-11 19:12 G	32502491.09	32502491.30	32502491.52	0.0135	0.0003	
Venus	84277-04-26 00:29 G	32502717.32	32502717.52	32502717.74	0.0135	0.0028	
Venus	84277-12-08 05:46 G	32502943.55	32502943.74	32502943.94	0.0135	0.0058	
Venus	84278-07-22 10:48 G	32503169.80	32503169.95	32503170.12	0.0135	0.0088	
Venus	84279-03-05 15:51 G	32503396.07	32503396.16	32503396.27	0.0135	0.0118	
Mercury	84285-08-26 15:51 G	32505762.07	32505762.16	32505762.28	0.0134	0.0110	
Mercury	84285-11-22 22:20 G	32505850.30	32505850.43	32505850.57	0.0134	0.0085	
Mercury	84286-02-19 04:34 G	32505938.53	32505938.69	32505938.85	0.0134	0.0061	
Mercury	84286-05-18 10:34 G	32506026.78	32506026.94	32506027.12	0.0134	0.0037	
Mercury	84286-08-14 16:48 G	32506115.03	32506115.20	32506115.38	0.0134	0.0013	
Mercury	84286-11-10 23:03 G	32506203.28	32506203.46	32506203.64	0.0134	0.0012	
Mercury	84287-02-07 05:03 G	32506291.54	32506291.71	32506291.88	0.0134	0.0035	
Mercury	84287-05-06 11:03 G	32506379.80	32506379.96	32506380.12	0.0134	0.0059	
Mercury	84287-08-02 16:48 G	32506468.07	32506468.20	32506468.35	0.0134	0.0083	
Mercury	84287-10-29 22:48 G	32506556.35	32506556.45	32506556.56	0.0134	0.0106	
Mercury	84288-01-26 04:34 G	32506644.66	32506644.69	32506644.74	0.0134	0.0129	
Mars	84295-01-03 20:24 G	32509179.05	32509179.35	32509179.66	0.0135	0.0012	

Earth	84310-04-30 21:08 G	32514774.28	32514774.38	32514774.53	0.0140	0.0121
Moon	84310-05-01 00:15 G	32514774.42	32514774.51	32514774.61	0.0140	0.0127 *
Moon	84311-05-05 11:17 G	32515143.74	32515143.97	32515144.22	0.0140	0.0055
Earth	84311-05-05 13:41 G	32515143.85	32515144.07	32515144.31	0.0140	0.0062 *
Earth	84312-05-09 06:44 G	32515513.53	32515513.78	32515514.04	0.0140	0.0004
Moon	84312-05-09 09:08 G	32515513.63	32515513.88	32515514.13	0.0140	0.0009 *
Moon	84313-05-13 23:03 G	32515883.23	32515883.46	32515883.71	0.0141	0.0059
Earth	84313-05-14 00:15 G	32515883.30	32515883.51	32515883.76	0.0141	0.0058 *
Earth	84314-05-18 18:58 G	32516253.17	32516253.29	32516253.45	0.0141	0.0119
Moon	84314-05-18 20:24 G	32516253.24	32516253.35	32516253.49	0.0141	0.0121 *
Venus	84318-03-17 23:32 G	32517652.35	32517652.48	32517652.63	0.0142	0.0110
Venus	84318-10-30 11:17 G	32517878.80	32517878.97	32517879.17	0.0143	0.0074
Venus	84319-06-13 23:32 G	32518105.27	32518105.48	32518105.70	0.0143	0.0036
Venus	84320-01-26 11:46 G	32518331.77	32518331.99	32518332.21	0.0143	0.0002
Venus	84320-09-08 23:46 G	32518558.28	32518558.49	32518558.71	0.0143	0.0038
Venus	84321-04-23 12:15 G	32518784.83	32518785.01	32518785.21	0.0143	0.0076
Venus	84321-12-06 00:58 G	32519011.40	32519011.54	32519011.67	0.0143	0.0113
Mercury	84327-06-02 10:34 G	32521015.90	32521015.94	32521016.01	0.0144	0.0132
Mercury	84327-08-29 14:39 G	32521104.03	32521104.11	32521104.21	0.0144	0.0109
Mercury	84327-11-25 18:58 G	32521192.18	32521192.29	32521192.40	0.0144	0.0085
Mercury	84328-02-21 22:48 G	32521280.33	32521280.45	32521280.58	0.0144	0.0063
Mercury	84328-05-20 02:53 G	32521368.49	32521368.62	32521368.76	0.0144	0.0040
Mercury	84328-08-16 07:12 G	32521456.66	32521456.80	32521456.93	0.0144	0.0017
Mercury	84328-11-12 11:17 G	32521544.83	32521544.97	32521545.11	0.0144	0.0008
Mercury	84329-02-08 15:22 G	32521633.00	32521633.14	32521633.28	0.0144	0.0031
Mercury	84329-05-07 19:27 G	32521721.18	32521721.31	32521721.44	0.0144	0.0055
Mercury	84329-08-03 23:46 G	32521809.37	32521809.49	32521809.61	0.0144	0.0078
Mercury	84329-10-31 03:51 G	32521897.57	32521897.66	32521897.76	0.0144	0.0102
Mercury	84330-01-27 08:10 G	32521985.78	32521985.84	32521985.91	0.0144	0.0126
Mars	84335-07-22 04:05 G	32523987.39	32523987.67	32523987.97	0.0144	0.0052

Moon	84350-11-05 14:53 G	32529572.93	32529573.12	32529573.32	0.0139	0.0087
Earth	84350-11-05 14:53 G	32529572.94	32529573.12	32529573.33	0.0139	0.0088 *
Earth	84351-11-10 06:00 G	32529942.51	32529942.75	32529943.01	0.0138	0.0030
Moon	84351-11-10 06:44 G	32529942.53	32529942.78	32529943.04	0.0138	0.0035 *
Moon	84352-11-13 19:41 G	32530312.09	32530312.32	32530312.56	0.0138	0.0034
Earth	84352-11-13 20:24 G	32530312.10	32530312.35	32530312.60	0.0138	0.0027 *
Earth	84353-11-18 09:36 G	32530681.71	32530681.90	32530682.11	0.0137	0.0083
Moon	84353-11-18 11:03 G	32530681.76	32530681.96	32530682.20	0.0137	0.0077 *
Venus	84358-07-04 14:24 G	32532370.98	32532371.10	32532371.24	0.0136	0.0107
Venus	84359-02-15 20:24 G	32532597.17	32532597.35	32532597.53	0.0136	0.0076
Venus	84359-09-30 01:56 G	32532823.39	32532823.58	32532823.79	0.0135	0.0046
Venus	84360-05-13 07:41 G	32533049.61	32533049.82	32533050.04	0.0135	0.0015
Venus	84360-12-25 12:58 G	32533275.83	32533276.04	32533276.26	0.0135	0.0016
Venus	84361-08-08 18:15 G	32533502.06	32533502.26	32533502.47	0.0135	0.0046
Venus	84362-03-22 23:32 G	32533728.31	32533728.48	32533728.66	0.0135	0.0076
Venus	84362-11-04 04:34 G	32533954.57	32533954.69	32533954.83	0.0135	0.0106
Saturn	84364-05-01 00:00 G	32534497.90	32534498.50	32534499.09	0.0134	0.0024
Mercury	84369-06-20 17:46 G	32536375.18	32536375.24	32536375.32	0.0134	0.0124
Mercury	84369-09-17 00:00 G	32536463.39	32536463.50	32536463.63	0.0134	0.0099
Mercury	84369-12-14 06:15 G	32536551.62	32536551.76	32536551.92	0.0134	0.0075
Mercury	84370-03-12 12:44 G	32536639.87	32536640.03	32536640.20	0.0134	0.0050
Mercury	84370-06-08 18:58 G	32536728.11	32536728.29	32536728.47	0.0134	0.0026
Mercury	84370-09-05 00:58 G	32536816.36	32536816.54	32536816.72	0.0134	0.0003
Mercury	84370-12-02 06:58 G	32536904.62	32536904.79	32536904.97	0.0134	0.0023
Mercury	84371-02-28 13:12 G	32536992.88	32536993.05	32536993.22	0.0134	0.0046
Mercury	84371-05-27 18:58 G	32537081.15	32537081.29	32537081.45	0.0134	0.0070
Mercury	84371-08-24 00:44 G	32537169.42	32537169.53	32537169.67	0.0134	0.0094
Mercury	84371-11-20 06:44 G	32537257.71	32537257.78	32537257.88	0.0134	0.0117
Mars	84379-08-30 20:10 G	32540098.27	32540098.34	32540098.45	0.0135	0.0128
Earth	84394-05-01 09:22 G	32545455.76	32545455.89	32545456.04	0.0140	0.0115

Moon	84394-05-01 12:15 G	32545455.87	32545456.01	32545456.18	0.0140	0.0108	*
Moon	84395-05-05 22:20 G	32545825.21	32545825.43	32545825.67	0.0140	0.0064	
Earth	84395-05-06 01:27 G	32545825.34	32545825.56	32545825.80	0.0140	0.0056	*
Earth	84396-05-09 18:29 G	32546195.02	32546195.27	32546195.53	0.0140	0.0004	
Moon	84396-05-09 20:39 G	32546195.12	32546195.36	32546195.61	0.0140	0.0009	*
Moon	84397-05-14 09:51 G	32546564.68	32546564.91	32546565.15	0.0141	0.0060	
Earth	84397-05-14 12:15 G	32546564.79	32546565.01	32546565.25	0.0141	0.0064	*
Earth	84398-05-19 06:44 G	32546934.68	32546934.78	32546934.92	0.0141	0.0125	
Moon	84398-05-19 08:39 G	32546934.75	32546934.86	32546934.98	0.0141	0.0123	*
Venus	84401-11-15 06:44 G	32548210.69	32548210.78	32548210.90	0.0142	0.0126	
Venus	84402-06-29 18:29 G	32548437.11	32548437.27	32548437.46	0.0142	0.0090	
Venus	84403-02-11 06:29 G	32548663.58	32548663.77	32548663.99	0.0143	0.0053	
Venus	84403-09-25 18:44 G	32548890.06	32548890.28	32548890.50	0.0143	0.0016	
Venus	84404-05-09 06:58 G	32549116.58	32549116.79	32549117.01	0.0143	0.0022	
Venus	84404-12-21 18:58 G	32549343.10	32549343.29	32549343.50	0.0143	0.0060	
Venus	84405-08-05 07:27 G	32549569.66	32549569.81	32549569.98	0.0143	0.0096	
Venus	84406-03-19 19:56 G	32549796.26	32549796.33	32549796.42	0.0144	0.0134	
Saturn	84408-05-08 23:32 G	32550577.27	32550577.48	32550577.79	0.0144	0.0133	
Mercury	84411-06-22 18:15 G	32551717.20	32551717.26	32551717.34	0.0144	0.0124	
Mercury	84411-09-18 22:20 G	32551805.34	32551805.43	32551805.53	0.0144	0.0101	
Mercury	84411-12-16 02:24 G	32551893.49	32551893.60	32551893.72	0.0144	0.0078	
Mercury	84412-03-13 06:29 G	32551981.64	32551981.77	32551981.90	0.0144	0.0055	
Mercury	84412-06-09 10:34 G	32552069.81	32552069.94	32552070.08	0.0144	0.0031	
Mercury	84412-09-05 14:39 G	32552157.97	32552158.11	32552158.25	0.0144	0.0008	
Mercury	84412-12-02 18:44 G	32552246.14	32552246.28	32552246.42	0.0144	0.0016	
Mercury	84413-02-28 22:48 G	32552334.32	32552334.45	32552334.59	0.0144	0.0040	
Mercury	84413-05-28 03:08 G	32552422.51	32552422.63	32552422.76	0.0144	0.0063	
Mercury	84413-08-24 07:27 G	32552510.70	32552510.81	32552510.92	0.0144	0.0087	
Mercury	84413-11-20 11:32 G	32552598.89	32552598.98	32552599.07	0.0144	0.0111	
Mercury	84414-02-16 15:51 G	32552687.11	32552687.16	32552687.21	0.0144	0.0135	

Mars	84420-03-16 23:03 G	32554907.24	32554907.46	32554907.72	0.0144	0.0089
Earth	84433-11-01 12:44 G	32559885.03	32559885.03	32559885.03	0.0139	0.0139
Earth	84434-11-06 04:20 G	32560254.49	32560254.68	32560254.90	0.0139	0.0081
Moon	84434-11-06 04:48 G	32560254.51	32560254.70	32560254.91	0.0139	0.0082 *
Moon	84435-11-10 19:41 G	32560624.06	32560624.32	32560624.58	0.0138	0.0019
Earth	84435-11-10 19:41 G	32560624.08	32560624.32	32560624.58	0.0138	0.0023 *
Moon	84436-11-14 09:22 G	32560993.65	32560993.89	32560994.14	0.0138	0.0028
Earth	84436-11-14 09:51 G	32560993.68	32560993.91	32560994.17	0.0138	0.0035 *
Earth	84437-11-18 23:32 G	32561363.30	32561363.48	32561363.68	0.0137	0.0091
Moon	84437-11-19 00:00 G	32561363.32	32561363.50	32561363.69	0.0137	0.0098 *
Venus	84442-03-04 02:24 G	32562929.51	32562929.60	32562929.72	0.0136	0.0119
Venus	84442-10-16 08:39 G	32563155.70	32563155.86	32563156.03	0.0136	0.0088
Venus	84443-05-30 14:10 G	32563381.91	32563382.09	32563382.30	0.0136	0.0058
Venus	84444-01-11 19:56 G	32563608.12	32563608.33	32563608.55	0.0135	0.0027
Venus	84444-08-25 01:27 G	32563834.35	32563834.56	32563834.78	0.0135	0.0005
Venus	84445-04-08 06:44 G	32564060.58	32564060.78	32564061.00	0.0135	0.0035
Venus	84445-11-20 11:46 G	32564286.82	32564286.99	32564287.19	0.0135	0.0065
Venus	84446-07-04 17:17 G	32564513.07	32564513.22	32564513.37	0.0135	0.0094
Venus	84447-02-15 22:05 G	32564739.35	32564739.42	32564739.51	0.0135	0.0124
Mercury	84453-07-11 01:56 G	32567076.50	32567076.58	32567076.69	0.0134	0.0113
Mercury	84453-10-07 08:24 G	32567164.72	32567164.85	32567164.99	0.0134	0.0088
Mercury	84454-01-03 14:24 G	32567252.96	32567253.10	32567253.27	0.0134	0.0064
Mercury	84454-04-01 20:53 G	32567341.20	32567341.37	32567341.54	0.0134	0.0039
Mercury	84454-06-29 03:08 G	32567429.45	32567429.63	32567429.81	0.0134	0.0015
Mercury	84454-09-25 09:08 G	32567517.71	32567517.88	32567518.06	0.0134	0.0010
Mercury	84454-12-22 15:08 G	32567605.96	32567606.13	32567606.31	0.0134	0.0034
Mercury	84455-03-20 21:22 G	32567694.23	32567694.39	32567694.55	0.0134	0.0057
Mercury	84455-06-17 03:08 G	32567782.50	32567782.63	32567782.78	0.0134	0.0081
Mercury	84455-09-13 09:08 G	32567870.78	32567870.88	32567871.00	0.0134	0.0104
Mercury	84455-12-10 14:53 G	32567959.08	32567959.12	32567959.18	0.0134	0.0128

Mars	84462-05-24 15:36 G	32570315.85	32570316.15	32570316.44	0.0134	0.0035
Earth	84478-05-01 20:10 G	32576137.21	32576137.34	32576137.52	0.0139	0.0110
Moon	84478-05-01 23:46 G	32576137.36	32576137.49	32576137.64	0.0139	0.0116 *
Moon	84479-05-06 09:22 G	32576506.66	32576506.89	32576507.15	0.0140	0.0043
Earth	84479-05-06 12:29 G	32576506.80	32576507.02	32576507.27	0.0140	0.0051 *
Earth	84480-05-10 05:32 G	32576876.48	32576876.73	32576876.98	0.0140	0.0009
Moon	84480-05-10 08:39 G	32576876.61	32576876.86	32576877.11	0.0140	0.0002 *
Moon	84481-05-14 20:24 G	32577246.14	32577246.35	32577246.59	0.0141	0.0073
Earth	84481-05-14 22:48 G	32577246.25	32577246.45	32577246.69	0.0141	0.0070 *
Earth	84482-05-19 17:17 G	32577616.15	32577616.22	32577616.34	0.0141	0.0131
Moon	84482-05-19 20:10 G	32577616.26	32577616.34	32577616.43	0.0141	0.0131 *
Venus	84485-07-15 13:12 G	32578769.04	32578769.05	32578769.07	0.0142	0.0142
Venus	84486-02-27 00:58 G	32578995.39	32578995.54	32578995.68	0.0142	0.0106
Venus	84486-10-11 12:29 G	32579221.83	32579222.02	32579222.22	0.0142	0.0070
Venus	84487-05-26 00:29 G	32579448.31	32579448.52	32579448.74	0.0143	0.0033
Venus	84488-01-07 12:29 G	32579674.80	32579675.02	32579675.24	0.0143	0.0004
Venus	84488-08-21 00:29 G	32579901.31	32579901.52	32579901.74	0.0143	0.0041
Venus	84489-04-04 12:44 G	32580127.86	32580128.03	32580128.22	0.0143	0.0079
Venus	84489-11-17 01:12 G	32580354.42	32580354.55	32580354.68	0.0143	0.0116
Mercury	84495-04-15 21:36 G	32582330.37	32582330.40	32582330.42	0.0144	0.0141
Mercury	84495-07-13 01:27 G	32582418.49	32582418.56	32582418.64	0.0144	0.0118
Mercury	84495-10-09 05:32 G	32582506.63	32582506.73	32582506.83	0.0144	0.0095
Mercury	84496-01-05 09:22 G	32582594.78	32582594.89	32582595.02	0.0144	0.0073
Mercury	84496-04-02 13:27 G	32582682.93	32582683.06	32582683.19	0.0144	0.0050
Mercury	84496-06-29 17:32 G	32582771.10	32582771.23	32582771.37	0.0144	0.0026
Mercury	84496-09-25 21:36 G	32582859.27	32582859.40	32582859.54	0.0144	0.0006
Mercury	84496-12-23 01:41 G	32582947.44	32582947.57	32582947.71	0.0144	0.0022
Mercury	84497-03-21 06:00 G	32583035.62	32583035.75	32583035.88	0.0144	0.0044
Mercury	84497-06-17 10:05 G	32583123.80	32583123.92	32583124.05	0.0144	0.0068
Mercury	84497-09-13 14:10 G	32583211.99	32583212.09	32583212.21	0.0144	0.0092

Mercury	84497-12-10 18:15 G	32583300.19	32583300.26	32583300.36	0.0144	0.0117
Mercury	84498-03-08 22:34 G	32583388.42	32583388.44	32583388.48	0.0144	0.0140
Mars	84502-12-08 09:51 G	32585122.79	32585122.91	32585123.06	0.0144	0.0129
Moon	84517-11-02 20:39 G	32590566.30	32590566.36	32590566.48	0.0139	0.0130
Earth	84517-11-02 22:34 G	32590566.39	32590566.44	32590566.52	0.0139	0.0135 *
Earth	84518-11-07 14:53 G	32590935.92	32590936.12	32590936.34	0.0139	0.0076
Moon	84518-11-07 16:05 G	32590935.97	32590936.17	32590936.38	0.0139	0.0076 *
Moon	84519-11-12 06:00 G	32591305.49	32591305.75	32591306.01	0.0138	0.0022
Earth	84519-11-12 06:29 G	32591305.51	32591305.77	32591306.02	0.0138	0.0018 *
Earth	84520-11-15 20:53 G	32591675.13	32591675.37	32591675.62	0.0138	0.0040
Moon	84520-11-15 21:22 G	32591675.17	32591675.39	32591675.63	0.0138	0.0046 *
Moon	84521-11-20 10:48 G	32592044.77	32592044.95	32592045.17	0.0138	0.0090
Earth	84521-11-20 10:34 G	32592044.78	32592044.94	32592045.13	0.0138	0.0097 *
Venus	84525-11-02 13:41 G	32593488.02	32593488.07	32593488.12	0.0136	0.0132
Venus	84526-06-16 19:27 G	32593714.18	32593714.31	32593714.46	0.0136	0.0101
Venus	84527-01-29 01:27 G	32593940.38	32593940.56	32593940.75	0.0136	0.0070
Venus	84527-09-12 07:12 G	32594166.60	32594166.80	32594167.01	0.0136	0.0039
Venus	84528-04-25 12:58 G	32594392.82	32594393.04	32594393.25	0.0135	0.0009
Venus	84528-12-07 18:15 G	32594619.05	32594619.26	32594619.48	0.0135	0.0022
Venus	84529-07-21 23:17 G	32594845.28	32594845.47	32594845.68	0.0135	0.0053
Venus	84530-03-05 04:34 G	32595071.53	32595071.69	32595071.87	0.0135	0.0082
Venus	84530-10-17 09:51 G	32595297.80	32595297.91	32595298.04	0.0135	0.0112
Mercury	84537-05-05 03:36 G	32597689.61	32597689.65	32597689.72	0.0134	0.0127
Mercury	84537-08-01 10:05 G	32597777.81	32597777.92	32597778.04	0.0134	0.0102
Mercury	84537-10-28 16:05 G	32597866.04	32597866.17	32597866.33	0.0134	0.0078
Mercury	84538-01-24 22:34 G	32597954.28	32597954.44	32597954.61	0.0134	0.0053
Mercury	84538-04-23 04:48 G	32598042.53	32598042.70	32598042.88	0.0134	0.0029
Mercury	84538-07-20 11:03 G	32598130.78	32598130.96	32598131.14	0.0134	0.0005
Mercury	84538-10-16 17:17 G	32598219.04	32598219.22	32598219.40	0.0134	0.0020
Mercury	84539-01-12 23:17 G	32598307.30	32598307.47	32598307.64	0.0134	0.0044

Mercury	84539-04-11 05:03 G	32598395.57	32598395.71	32598395.88	0.0134	0.0068
Mercury	84539-07-08 11:17 G	32598483.84	32598483.97	32598484.10	0.0134	0.0091
Mercury	84539-10-04 17:03 G	32598572.13	32598572.21	32598572.31	0.0134	0.0115
Mars	84547-01-18 14:10 G	32601234.86	32601235.09	32601235.35	0.0135	0.0081
Earth	84562-05-03 09:08 G	32606818.73	32606818.88	32606819.07	0.0139	0.0103
Moon	84562-05-03 12:44 G	32606818.87	32606819.03	32606819.23	0.0139	0.0096 *
Moon	84563-05-07 21:51 G	32607188.18	32607188.41	32607188.65	0.0140	0.0052
Earth	84563-05-08 01:27 G	32607188.32	32607188.56	32607188.80	0.0140	0.0044 *
Earth	84564-05-11 18:00 G	32607558.00	32607558.25	32607558.50	0.0140	0.0016
Moon	84564-05-11 20:53 G	32607558.13	32607558.37	32607558.62	0.0140	0.0022 *
Moon	84565-05-16 08:10 G	32607927.63	32607927.84	32607928.08	0.0140	0.0072
Earth	84565-05-16 11:32 G	32607927.78	32607927.98	32607928.20	0.0140	0.0077 *
Earth	84566-05-21 05:46 G	32608297.71	32608297.74	32608297.81	0.0141	0.0138
Moon	84566-05-21 08:39 G	32608297.81	32608297.86	32608297.92	0.0141	0.0137 *
Venus	84569-10-28 07:56 G	32609553.73	32609553.83	32609553.96	0.0142	0.0122
Venus	84570-06-11 19:41 G	32609780.15	32609780.32	32609780.50	0.0142	0.0085
Venus	84571-01-24 07:27 G	32610006.61	32610006.81	32610007.02	0.0143	0.0049
Venus	84571-09-07 19:12 G	32610233.09	32610233.30	32610233.53	0.0143	0.0013
Venus	84572-04-21 07:27 G	32610459.59	32610459.81	32610460.03	0.0143	0.0025
Venus	84572-12-03 19:12 G	32610686.12	32610686.30	32610686.51	0.0143	0.0062
Venus	84573-07-18 07:27 G	32610912.66	32610912.81	32610912.98	0.0143	0.0099
Venus	84574-03-01 19:41 G	32611139.27	32611139.32	32611139.40	0.0143	0.0136
Mercury	84579-05-07 04:48 G	32613031.66	32613031.70	32613031.76	0.0144	0.0134
Mercury	84579-08-03 08:53 G	32613119.79	32613119.87	32613119.96	0.0144	0.0111
Mercury	84579-10-30 12:58 G	32613207.93	32613208.04	32613208.15	0.0144	0.0088
Mercury	84580-01-26 16:48 G	32613296.08	32613296.20	32613296.33	0.0144	0.0066
Mercury	84580-04-23 20:53 G	32613384.24	32613384.37	32613384.51	0.0144	0.0042
Mercury	84580-07-21 00:58 G	32613472.41	32613472.54	32613472.68	0.0144	0.0019
Mercury	84580-10-17 05:03 G	32613560.57	32613560.71	32613560.85	0.0144	0.0005
Mercury	84581-01-13 09:08 G	32613648.75	32613648.88	32613649.02	0.0144	0.0028

Mercury	84581-04-11 13:27 G	32613736.93	32613737.06	32613737.19	0.0144	0.0051
Mercury	84581-07-08 17:32 G	32613825.11	32613825.23	32613825.35	0.0144	0.0075
Mercury	84581-10-04 21:36 G	32613913.30	32613913.40	32613913.51	0.0144	0.0099
Mercury	84582-01-01 01:41 G	32614001.51	32614001.57	32614001.65	0.0144	0.0124
Mars	84587-08-04 03:22 G	32616042.34	32616042.64	32616042.96	0.0144	0.0010
Moon	84601-11-04 07:41 G	32621247.76	32621247.82	32621247.90	0.0139	0.0133
Earth	84601-11-04 09:36 G	32621247.82	32621247.90	32621248.00	0.0139	0.0129 *
Earth	84602-11-09 01:41 G	32621617.37	32621617.57	32621617.80	0.0139	0.0071
Moon	84602-11-09 03:36 G	32621617.44	32621617.65	32621617.86	0.0139	0.0070 *
Moon	84603-11-13 16:05 G	32621986.91	32621987.17	32621987.44	0.0138	0.0010
Earth	84603-11-13 17:32 G	32621986.98	32621987.23	32621987.49	0.0138	0.0012 *
Earth	84604-11-17 08:10 G	32622356.61	32622356.84	32622357.09	0.0138	0.0046
Moon	84604-11-17 08:39 G	32622356.64	32622356.86	32622357.11	0.0138	0.0040 *
Moon	84605-11-21 21:08 G	32622726.24	32622726.38	32622726.56	0.0138	0.0110
Earth	84605-11-21 22:05 G	32622726.27	32622726.42	32622726.60	0.0138	0.0103 *
Venus	84610-02-15 06:00 G	32624272.66	32624272.75	32624272.89	0.0136	0.0115
Venus	84610-09-29 12:29 G	32624498.86	32624499.02	32624499.20	0.0136	0.0083
Venus	84611-05-13 18:29 G	32624725.07	32624725.27	32624725.47	0.0136	0.0052
Venus	84611-12-26 00:00 G	32624951.29	32624951.50	32624951.71	0.0136	0.0022
Venus	84612-08-08 05:32 G	32625177.52	32625177.73	32625177.95	0.0136	0.0009
Venus	84613-03-22 10:48 G	32625403.75	32625403.95	32625404.16	0.0135	0.0040
Venus	84613-11-03 16:20 G	32625630.00	32625630.18	32625630.36	0.0135	0.0070
Venus	84614-06-17 21:22 G	32625856.25	32625856.39	32625856.54	0.0135	0.0100
Venus	84615-01-30 02:24 G	32626082.55	32626082.60	32626082.67	0.0135	0.0129
Mercury	84621-05-26 11:32 G	32628390.91	32628390.98	32628391.08	0.0134	0.0117
Mercury	84621-08-22 18:00 G	32628479.13	32628479.25	32628479.39	0.0134	0.0092
Mercury	84621-11-19 00:15 G	32628567.36	32628567.51	32628567.68	0.0134	0.0067
Mercury	84622-02-15 06:29 G	32628655.61	32628655.77	32628655.95	0.0134	0.0043
Mercury	84622-05-14 12:58 G	32628743.86	32628744.04	32628744.22	0.0134	0.0018
Mercury	84622-08-10 18:58 G	32628832.12	32628832.29	32628832.47	0.0134	0.0007

Mercury	84622-11-07 01:12 G	32628920.38	32628920.55	32628920.72	0.0134	0.0030
Mercury	84623-02-03 07:12 G	32629008.64	32629008.80	32629008.97	0.0134	0.0054
Mercury	84623-05-02 13:12 G	32629096.91	32629097.05	32629097.20	0.0134	0.0078
Mercury	84623-07-29 19:12 G	32629185.19	32629185.30	32629185.42	0.0134	0.0101
Mercury	84623-10-26 00:58 G	32629273.49	32629273.54	32629273.61	0.0134	0.0125
Mars	84629-10-13 12:58 G	32631452.81	32631453.04	32631453.30	0.0134	0.0079
Earth	84646-05-04 23:17 G	32637500.30	32637500.47	32637500.67	0.0139	0.0096
Moon	84646-05-05 02:39 G	32637500.46	32637500.61	32637500.80	0.0139	0.0102 *
Moon	84647-05-09 12:00 G	32637869.75	32637870.00	32637870.25	0.0140	0.0029
Earth	84647-05-09 15:36 G	32637869.90	32637870.15	32637870.39	0.0140	0.0037 *
Earth	84648-05-13 08:10 G	32638239.59	32638239.84	32638240.09	0.0140	0.0023
Moon	84648-05-13 11:46 G	32638239.74	32638239.99	32638240.24	0.0140	0.0016 *
Moon	84649-05-17 22:34 G	32638609.25	32638609.44	32638609.65	0.0140	0.0088
Earth	84649-05-18 01:27 G	32638609.37	32638609.56	32638609.78	0.0140	0.0084 *
Venus	84653-06-28 16:05 G	32640112.13	32640112.17	32640112.26	0.0142	0.0136
Venus	84654-02-10 03:51 G	32640338.52	32640338.66	32640338.83	0.0142	0.0100
Venus	84654-09-24 15:22 G	32640564.96	32640565.14	32640565.35	0.0142	0.0064
Venus	84655-05-09 03:22 G	32640791.43	32640791.64	32640791.86	0.0143	0.0028
Venus	84655-12-21 15:08 G	32641017.91	32641018.13	32641018.36	0.0143	0.0010
Venus	84656-08-04 03:08 G	32641244.42	32641244.63	32641244.84	0.0143	0.0046
Venus	84657-03-18 15:08 G	32641470.96	32641471.13	32641471.32	0.0143	0.0083
Venus	84657-10-31 03:08 G	32641697.53	32641697.63	32641697.77	0.0143	0.0121
Mercury	84663-05-28 12:29 G	32643732.96	32643733.02	32643733.09	0.0144	0.0126
Mercury	84663-08-24 16:34 G	32643821.09	32643821.19	32643821.28	0.0144	0.0104
Mercury	84663-11-20 20:24 G	32643909.24	32643909.35	32643909.47	0.0144	0.0081
Mercury	84664-02-17 00:29 G	32643997.39	32643997.52	32643997.65	0.0144	0.0058
Mercury	84664-05-15 04:34 G	32644085.55	32644085.69	32644085.82	0.0144	0.0035
Mercury	84664-08-11 08:39 G	32644173.72	32644173.86	32644174.00	0.0144	0.0012
Mercury	84664-11-07 12:44 G	32644261.89	32644262.03	32644262.17	0.0144	0.0012
Mercury	84665-02-03 16:48 G	32644350.06	32644350.20	32644350.33	0.0144	0.0035

Mercury	84665-05-02 20:39 G	32644438.24	32644438.36	32644438.50	0.0144	0.0060
Mercury	84665-07-30 00:58 G	32644526.43	32644526.54	32644526.66	0.0144	0.0083
Mercury	84665-10-26 05:03 G	32644614.62	32644614.71	32644614.81	0.0144	0.0106
Mercury	84666-01-22 09:22 G	32644702.83	32644702.89	32644702.95	0.0144	0.0130
Moon	84685-11-04 16:34 G	32651929.07	32651929.19	32651929.34	0.0139	0.0119
Earth	84685-11-04 19:12 G	32651929.21	32651929.30	32651929.43	0.0139	0.0125 *
Earth	84686-11-09 11:46 G	32652298.78	32652298.99	32652299.23	0.0139	0.0066
Moon	84686-11-09 13:56 G	32652298.88	32652299.08	32652299.31	0.0139	0.0068 *
Moon	84687-11-14 02:10 G	32652668.32	32652668.59	32652668.85	0.0138	0.0010
Earth	84687-11-14 03:51 G	32652668.40	32652668.66	32652668.91	0.0138	0.0007 *
Earth	84688-11-17 18:44 G	32653038.05	32653038.28	32653038.52	0.0138	0.0051
Moon	84688-11-17 20:24 G	32653038.13	32653038.35	32653038.58	0.0138	0.0056 *
Moon	84689-11-22 07:41 G	32653407.66	32653407.82	32653408.02	0.0138	0.0102
Earth	84689-11-22 08:39 G	32653407.72	32653407.86	32653408.03	0.0138	0.0109 *
Venus	84693-10-15 16:34 G	32654831.13	32654831.19	32654831.28	0.0136	0.0127
Venus	84694-05-29 22:48 G	32655057.31	32655057.45	32655057.61	0.0136	0.0096
Venus	84695-01-11 04:48 G	32655283.51	32655283.70	32655283.89	0.0136	0.0065
Venus	84695-08-25 10:34 G	32655509.74	32655509.94	32655510.15	0.0136	0.0035
Venus	84696-04-07 16:20 G	32655735.96	32655736.18	32655736.39	0.0136	0.0004
Venus	84696-11-19 21:36 G	32655962.20	32655962.40	32655962.62	0.0136	0.0027
Venus	84697-07-04 03:08 G	32656188.44	32656188.63	32656188.83	0.0135	0.0057
Venus	84698-02-15 08:10 G	32656414.69	32656414.84	32656415.01	0.0135	0.0087
Venus	84698-09-29 13:12 G	32656640.97	32656641.05	32656641.18	0.0135	0.0117
Mercury	84705-03-20 12:58 G	32659004.02	32659004.04	32659004.08	0.0134	0.0132
Mercury	84705-06-16 19:27 G	32659092.21	32659092.31	32659092.43	0.0134	0.0107
Mercury	84705-09-13 01:56 G	32659180.44	32659180.58	32659180.73	0.0134	0.0082
Mercury	84705-12-10 08:10 G	32659268.68	32659268.84	32659269.01	0.0134	0.0057
Mercury	84706-03-08 14:24 G	32659356.93	32659357.10	32659357.28	0.0134	0.0033
Mercury	84706-06-04 20:39 G	32659445.18	32659445.36	32659445.54	0.0134	0.0009
Mercury	84706-09-01 02:53 G	32659533.44	32659533.62	32659533.80	0.0134	0.0016

Mercury	84706-11-28 08:53 G	32659621.70	32659621.87	32659622.05	0.0134	0.0040
Mercury	84707-02-24 14:53 G	32659709.97	32659710.12	32659710.29	0.0134	0.0064
Mercury	84707-05-23 21:08 G	32659798.25	32659798.38	32659798.51	0.0134	0.0087
Mercury	84707-08-20 02:53 G	32659886.53	32659886.62	32659886.73	0.0134	0.0111
Mars	84714-06-09 09:36 G	32662371.62	32662371.90	32662372.20	0.0135	0.0035
Earth	84730-05-06 13:41 G	32668181.89	32668182.07	32668182.28	0.0139	0.0089
Moon	84730-05-06 17:17 G	32668182.04	32668182.22	32668182.44	0.0139	0.0083 *
Moon	84731-05-11 02:24 G	32668551.36	32668551.60	32668551.85	0.0140	0.0037
Earth	84731-05-11 06:00 G	32668551.51	32668551.75	32668552.00	0.0140	0.0029 *
Earth	84732-05-14 22:34 G	32668921.20	32668921.44	32668921.69	0.0140	0.0031
Moon	84732-05-15 01:56 G	32668921.35	32668921.58	32668921.83	0.0140	0.0038 *
Moon	84733-05-19 12:29 G	32669290.83	32669291.02	32669291.23	0.0140	0.0087
Earth	84733-05-19 16:05 G	32669290.99	32669291.17	32669291.37	0.0140	0.0092 *
Venus	84737-10-11 12:58 G	32670896.92	32670897.04	32670897.18	0.0142	0.0114
Venus	84738-05-26 00:29 G	32671123.35	32671123.52	32671123.71	0.0142	0.0078
Venus	84739-01-07 12:15 G	32671349.80	32671350.01	32671350.22	0.0142	0.0042
Venus	84739-08-22 00:00 G	32671576.28	32671576.50	32671576.72	0.0143	0.0006
Venus	84740-04-04 12:00 G	32671802.79	32671803.00	32671803.22	0.0143	0.0031
Venus	84740-11-17 00:00 G	32672029.31	32672029.50	32672029.70	0.0143	0.0068
Venus	84741-07-01 12:00 G	32672255.86	32672256.00	32672256.16	0.0143	0.0105
Venus	84742-02-13 00:00 G	32672482.49	32672482.50	32672482.54	0.0143	0.0143
Mercury	84747-03-22 16:20 G	32674346.16	32674346.18	32674346.23	0.0144	0.0139
Mercury	84747-06-18 20:24 G	32674434.28	32674434.35	32674434.44	0.0144	0.0116
Mercury	84747-09-15 00:29 G	32674522.42	32674522.52	32674522.63	0.0144	0.0093
Mercury	84747-12-12 04:20 G	32674610.57	32674610.68	32674610.81	0.0144	0.0071
Mercury	84748-03-09 08:24 G	32674698.72	32674698.85	32674698.99	0.0144	0.0048
Mercury	84748-06-05 12:29 G	32674786.89	32674787.02	32674787.16	0.0144	0.0025
Mercury	84748-09-01 16:34 G	32674875.05	32674875.19	32674875.33	0.0144	0.0003
Mercury	84748-11-28 20:39 G	32674963.22	32674963.36	32674963.50	0.0144	0.0022
Mercury	84749-02-25 00:44 G	32675051.40	32675051.53	32675051.67	0.0144	0.0045

Mercury	84749-05-24 04:48 G	32675139.58	32675139.70	32675139.83	0.0144	0.0069
Mercury	84749-08-20 09:08 G	32675227.77	32675227.88	32675227.99	0.0144	0.0093
Mercury	84749-11-16 13:12 G	32675315.97	32675316.05	32675316.13	0.0144	0.0116
Mercury	84750-02-12 17:17 G	32675404.20	32675404.22	32675404.26	0.0144	0.0141
Mars	84754-12-22 15:51 G	32677177.89	32677178.16	32677178.46	0.0144	0.0062
Moon	84769-11-06 05:03 G	32682610.62	32682610.71	32682610.85	0.0139	0.0125
Earth	84769-11-06 08:24 G	32682610.72	32682610.85	32682610.98	0.0139	0.0119 *
Earth	84770-11-11 00:44 G	32682980.30	32682980.53	32682980.76	0.0139	0.0059
Moon	84770-11-11 03:08 G	32682980.41	32682980.63	32682980.87	0.0139	0.0058 *
Moon	84771-11-15 14:10 G	32683349.83	32683350.09	32683350.35	0.0138	0.0001
Earth	84771-11-15 16:34 G	32683349.94	32683350.19	32683350.45	0.0138	0.0002 *
Earth	84772-11-19 07:41 G	32683719.59	32683719.82	32683720.05	0.0138	0.0058
Moon	84772-11-19 09:08 G	32683719.66	32683719.88	32683720.12	0.0138	0.0053 *
Moon	84773-11-23 19:41 G	32684089.21	32684089.32	32684089.44	0.0138	0.0122
Earth	84773-11-23 21:22 G	32684089.27	32684089.39	32684089.55	0.0138	0.0116 *
Venus	84778-01-28 09:36 G	32685615.80	32685615.90	32685616.05	0.0136	0.0110
Venus	84778-09-11 15:51 G	32685842.00	32685842.16	32685842.35	0.0136	0.0079
Venus	84779-04-25 21:51 G	32686068.22	32686068.41	32686068.62	0.0136	0.0047
Venus	84779-12-08 03:36 G	32686294.44	32686294.65	32686294.87	0.0136	0.0017
Venus	84780-07-21 09:08 G	32686520.67	32686520.88	32686521.10	0.0136	0.0014
Venus	84781-03-04 14:24 G	32686746.91	32686747.10	32686747.31	0.0135	0.0045
Venus	84781-10-16 19:56 G	32686973.16	32686973.33	32686973.52	0.0135	0.0075
Venus	84782-05-31 01:12 G	32687199.42	32687199.55	32687199.69	0.0135	0.0104
Venus	84783-01-12 06:15 G	32687425.75	32687425.76	32687425.80	0.0135	0.0134
Mercury	84789-04-09 21:08 G	32689705.31	32689705.38	32689705.46	0.0134	0.0122
Mercury	84789-07-07 03:22 G	32689793.53	32689793.64	32689793.78	0.0134	0.0097
Mercury	84789-10-03 09:36 G	32689881.76	32689881.90	32689882.07	0.0134	0.0073
Mercury	84789-12-30 16:05 G	32689970.01	32689970.17	32689970.35	0.0134	0.0047
Mercury	84790-03-28 22:20 G	32690058.26	32690058.43	32690058.61	0.0134	0.0023
Mercury	84790-06-25 04:34 G	32690146.51	32690146.69	32690146.87	0.0134	0.0003

Mercury	84790-09-21 10:48 G	32690234.77	32690234.95	32690235.13	0.0134	0.0026
Mercury	84790-12-18 16:48 G	32690323.04	32690323.20	32690323.37	0.0134	0.0050
Mercury	84791-03-16 22:48 G	32690411.31	32690411.45	32690411.61	0.0134	0.0074
Mercury	84791-06-13 04:48 G	32690499.59	32690499.70	32690499.83	0.0134	0.0098
Mercury	84791-09-09 10:34 G	32690587.88	32690587.94	32690588.03	0.0134	0.0121
Mars	84797-03-03 10:05 G	32692589.83	32692589.92	32692590.06	0.0134	0.0124
Moon	84813-05-02 08:53 G	32698493.86	32698493.87	32698493.92	0.0139	0.0138
Earth	84814-05-07 03:36 G	32698863.46	32698863.65	32698863.87	0.0139	0.0082
Moon	84814-05-07 07:12 G	32698863.61	32698863.80	32698864.01	0.0139	0.0087 *
Moon	84815-05-11 16:05 G	32699232.93	32699233.17	32699233.43	0.0140	0.0015
Earth	84815-05-11 19:56 G	32699233.08	32699233.33	32699233.58	0.0140	0.0022 *
Earth	84816-05-15 12:29 G	32699602.78	32699603.02	32699603.27	0.0140	0.0039
Moon	84816-05-15 16:05 G	32699602.93	32699603.17	32699603.43	0.0140	0.0031 *
Moon	84817-05-20 02:10 G	32699972.44	32699972.59	32699972.78	0.0140	0.0105
Earth	84817-05-20 06:00 G	32699972.58	32699972.75	32699972.94	0.0140	0.0100 *
Venus	84821-06-10 21:36 G	32701455.32	32701455.40	32701455.50	0.0142	0.0128
Venus	84822-01-23 09:08 G	32701681.71	32701681.88	32701682.05	0.0142	0.0092
Venus	84822-09-06 20:39 G	32701908.16	32701908.36	32701908.56	0.0142	0.0057
Venus	84823-04-21 08:24 G	32702134.64	32702134.85	32702135.07	0.0142	0.0020
Venus	84823-12-03 20:10 G	32702361.13	32702361.34	32702361.57	0.0143	0.0017
Venus	84824-07-17 08:10 G	32702587.64	32702587.84	32702588.05	0.0143	0.0053
Venus	84825-02-28 20:10 G	32702814.18	32702814.34	32702814.52	0.0143	0.0090
Venus	84825-10-13 08:10 G	32703040.76	32703040.84	32703040.96	0.0143	0.0127
Mercury	84831-04-12 00:15 G	32705047.46	32705047.51	32705047.58	0.0144	0.0130
Mercury	84831-07-09 04:20 G	32705135.59	32705135.68	32705135.77	0.0144	0.0107
Mercury	84831-10-05 08:24 G	32705223.74	32705223.85	32705223.96	0.0144	0.0084
Mercury	84832-01-01 12:15 G	32705311.89	32705312.01	32705312.14	0.0144	0.0062
Mercury	84832-03-29 16:20 G	32705400.05	32705400.18	32705400.31	0.0144	0.0039
Mercury	84832-06-25 20:24 G	32705488.21	32705488.35	32705488.49	0.0144	0.0016
Mercury	84832-09-22 00:29 G	32705576.38	32705576.52	32705576.66	0.0144	0.0008

Mercury	84832-12-19 04:34 G	32705664.55	32705664.69	32705664.82	0.0144	0.0031
Mercury	84833-03-17 08:39 G	32705752.73	32705752.86	32705752.99	0.0144	0.0054
Mercury	84833-06-13 12:44 G	32705840.91	32705841.03	32705841.15	0.0144	0.0078
Mercury	84833-09-09 16:48 G	32705929.11	32705929.20	32705929.30	0.0144	0.0102
Mercury	84833-12-06 21:08 G	32706017.31	32706017.38	32706017.45	0.0144	0.0125
Mars	84839-08-18 14:39 G	32708097.86	32708098.11	32708098.38	0.0144	0.0081
Moon	84853-11-06 16:34 G	32713292.03	32713292.19	32713292.36	0.0139	0.0107
Earth	84853-11-06 19:41 G	32713292.19	32713292.32	32713292.48	0.0139	0.0113 *
Earth	84854-11-11 12:15 G	32713661.79	32713662.01	32713662.26	0.0139	0.0054
Moon	84854-11-11 15:22 G	32713661.92	32713662.14	32713662.37	0.0139	0.0056 *
Moon	84855-11-16 01:41 G	32714031.31	32714031.57	32714031.84	0.0138	0.0005
Earth	84855-11-16 04:34 G	32714031.43	32714031.69	32714031.94	0.0138	0.0006 *
Earth	84856-11-19 18:58 G	32714401.09	32714401.29	32714401.54	0.0138	0.0065
Moon	84856-11-19 21:51 G	32714401.21	32714401.41	32714401.63	0.0138	0.0069 *
Moon	84857-11-24 07:27 G	32714770.68	32714770.81	32714770.97	0.0138	0.0115
Earth	84857-11-24 09:36 G	32714770.79	32714770.90	32714771.02	0.0138	0.0122 *
Venus	84861-09-27 20:39 G	32716174.27	32716174.36	32716174.46	0.0136	0.0122
Venus	84862-05-12 02:24 G	32716400.46	32716400.60	32716400.78	0.0136	0.0092
Venus	84862-12-24 08:39 G	32716626.67	32716626.86	32716627.05	0.0136	0.0060
Venus	84863-08-07 14:10 G	32716852.89	32716853.09	32716853.31	0.0136	0.0030
Venus	84864-03-20 19:56 G	32717079.12	32717079.33	32717079.55	0.0136	0.0003
Venus	84864-11-02 01:27 G	32717305.36	32717305.56	32717305.78	0.0136	0.0032
Venus	84865-06-16 06:58 G	32717531.60	32717531.79	32717531.98	0.0135	0.0062
Venus	84866-01-28 12:00 G	32717757.86	32717758.00	32717758.17	0.0135	0.0092
Venus	84866-09-11 17:32 G	32717984.14	32717984.23	32717984.33	0.0135	0.0121
Jupiter	84870-08-20 05:17 G	32719422.31	32719422.72	32719423.20	0.0134	0.0070
Mercury	84873-04-30 04:48 G	32720406.61	32720406.70	32720406.80	0.0134	0.0113
Mercury	84873-07-27 10:48 G	32720494.83	32720494.95	32720495.11	0.0134	0.0089
Mercury	84873-10-23 17:17 G	32720583.07	32720583.22	32720583.39	0.0134	0.0063
Mercury	84874-01-19 23:46 G	32720671.32	32720671.49	32720671.67	0.0134	0.0038

Mercury	84874-04-18 06:00 G	32720759.57	32720759.75	32720759.93	0.0134	0.0014
Mercury	84874-07-15 12:15 G	32720847.83	32720848.01	32720848.19	0.0134	0.0011
Mercury	84874-10-11 18:15 G	32720936.09	32720936.26	32720936.44	0.0134	0.0035
Mercury	84875-01-08 00:15 G	32721024.36	32721024.51	32721024.68	0.0134	0.0059
Mercury	84875-04-06 06:29 G	32721112.63	32721112.77	32721112.91	0.0134	0.0082
Mercury	84875-07-03 12:15 G	32721200.92	32721201.01	32721201.13	0.0134	0.0107
Mercury	84875-09-29 18:29 G	32721289.23	32721289.27	32721289.32	0.0134	0.0129
Mars	84881-10-27 04:20 G	32723508.38	32723508.68	32723508.98	0.0134	0.0012
Moon	84897-05-02 21:51 G	32729175.37	32729175.41	32729175.46	0.0139	0.0136
Earth	84897-05-03 00:58 G	32729175.48	32729175.54	32729175.60	0.0139	0.0134
Earth	84898-05-07 15:36 G	32729544.95	32729545.15	32729545.38	0.0139	0.0076
Moon	84898-05-07 19:27 G	32729545.09	32729545.31	32729545.54	0.0139	0.0069 *
Moon	84899-05-12 04:34 G	32729914.45	32729914.69	32729914.94	0.0140	0.0023
Earth	84899-05-12 07:56 G	32729914.58	32729914.83	32729915.08	0.0140	0.0016 *
Earth	84900-05-17 00:15 G	32730284.28	32730284.51	32730284.76	0.0140	0.0045
Moon	84900-05-17 03:51 G	32730284.43	32730284.66	32730284.90	0.0140	0.0052 *
Moon	84901-05-21 13:56 G	32730653.92	32730654.08	32730654.27	0.0140	0.0101
Earth	84901-05-21 17:46 G	32730654.09	32730654.24	32730654.41	0.0140	0.0107 *
Venus	84905-09-23 16:20 G	32732240.05	32732240.18	32732240.33	0.0142	0.0108
Venus	84906-05-08 03:51 G	32732466.48	32732466.66	32732466.86	0.0142	0.0072
Venus	84906-12-20 15:36 G	32732692.94	32732693.15	32732693.37	0.0142	0.0036
Venus	84907-08-04 03:22 G	32732919.42	32732919.64	32732919.86	0.0142	0.0001
Venus	84908-03-17 15:22 G	32733145.93	32733146.14	32733146.35	0.0143	0.0037
Venus	84908-10-30 03:22 G	32733372.46	32733372.64	32733372.83	0.0143	0.0074
Venus	84909-06-13 15:22 G	32733599.01	32733599.14	32733599.29	0.0143	0.0111
Mercury	84915-05-03 07:56 G	32735748.77	32735748.83	32735748.91	0.0144	0.0122
Mercury	84915-07-30 12:00 G	32735836.90	32735837.00	32735837.10	0.0144	0.0099
Mercury	84915-10-26 15:51 G	32735925.05	32735925.16	32735925.28	0.0144	0.0077
Mercury	84916-01-22 19:56 G	32736013.20	32736013.33	32736013.46	0.0144	0.0054
Mercury	84916-04-20 00:00 G	32736101.36	32736101.50	32736101.63	0.0144	0.0031

Mercury	84916-07-17 04:05 G	32736189.53	32736189.67	32736189.81	0.0144	0.0008
Mercury	84916-10-13 07:56 G	32736277.70	32736277.83	32736277.97	0.0144	0.0017
Mercury	84917-01-09 12:00 G	32736365.87	32736366.00	32736366.14	0.0144	0.0039
Mercury	84917-04-07 16:20 G	32736454.05	32736454.18	32736454.30	0.0144	0.0063
Mercury	84917-07-04 20:24 G	32736542.24	32736542.35	32736542.46	0.0144	0.0086
Mercury	84917-10-01 00:15 G	32736630.43	32736630.51	32736630.61	0.0144	0.0111
Mercury	84917-12-28 04:34 G	32736718.65	32736718.69	32736718.75	0.0144	0.0134
Mars	84922-05-11 05:17 G	32738313.59	32738313.72	32738313.86	0.0144	0.0129
Moon	84937-11-08 05:03 G	32743973.58	32743973.71	32743973.88	0.0139	0.0113
Earth	84937-11-08 08:53 G	32743973.71	32743973.87	32743974.03	0.0139	0.0107 *
Earth	84938-11-13 01:12 G	32744343.32	32744343.55	32744343.80	0.0139	0.0047
Moon	84938-11-13 04:34 G	32744343.46	32744343.69	32744343.94	0.0139	0.0044 *
Moon	84939-11-17 14:10 G	32744712.83	32744713.09	32744713.35	0.0138	0.0013
Earth	84939-11-17 17:17 G	32744712.97	32744713.22	32744713.48	0.0138	0.0013 *
Earth	84940-11-21 08:10 G	32745082.63	32745082.84	32745083.07	0.0138	0.0072
Moon	84940-11-21 10:34 G	32745082.74	32745082.94	32745083.18	0.0138	0.0067 *
Moon	84941-11-25 18:58 G	32745452.27	32745452.29	32745452.36	0.0138	0.0136
Earth	84941-11-25 22:34 G	32745452.35	32745452.44	32745452.52	0.0138	0.0129 *
Venus	84945-05-29 07:27 G	32746732.79	32746732.81	32746732.86	0.0136	0.0135
Venus	84946-01-10 13:41 G	32746958.94	32746959.07	32746959.22	0.0136	0.0104
Venus	84946-08-24 19:27 G	32747185.15	32747185.31	32747185.51	0.0136	0.0074
Venus	84947-04-08 01:41 G	32747411.37	32747411.57	32747411.77	0.0136	0.0042
Venus	84947-11-20 07:12 G	32747637.59	32747637.80	32747638.02	0.0136	0.0012
Venus	84948-07-03 12:44 G	32747863.83	32747864.03	32747864.25	0.0136	0.0020
Venus	84949-02-14 18:15 G	32748090.07	32748090.26	32748090.47	0.0135	0.0049
Venus	84949-09-28 23:46 G	32748316.32	32748316.49	32748316.67	0.0135	0.0079
Venus	84950-05-13 05:03 G	32748542.59	32748542.71	32748542.84	0.0135	0.0109
Mercury	84957-02-22 06:00 G	32751019.70	32751019.75	32751019.81	0.0134	0.0128
Mercury	84957-05-21 12:29 G	32751107.91	32751108.02	32751108.14	0.0134	0.0103
Mercury	84957-08-17 18:58 G	32751196.14	32751196.29	32751196.43	0.0134	0.0079

Mercury	84957-11-14 00:58 G	32751284.38	32751284.54	32751284.72	0.0134	0.0054
Mercury	84958-02-10 07:27 G	32751372.63	32751372.81	32751372.99	0.0134	0.0029
Mercury	84958-05-09 13:41 G	32751460.89	32751461.07	32751461.25	0.0134	0.0005
Mercury	84958-08-05 19:56 G	32751549.15	32751549.33	32751549.51	0.0134	0.0019
Mercury	84958-11-02 01:56 G	32751637.41	32751637.58	32751637.75	0.0134	0.0043
Mercury	84959-01-29 07:56 G	32751725.68	32751725.83	32751725.99	0.0134	0.0067
Mercury	84959-04-27 13:56 G	32751813.96	32751814.08	32751814.22	0.0134	0.0091
Mercury	84959-07-24 19:41 G	32751902.25	32751902.32	32751902.43	0.0134	0.0115
Mars	84966-06-22 22:48 G	32754427.25	32754427.45	32754427.66	0.0135	0.0100
Moon	84981-05-04 08:39 G	32759856.78	32759856.86	32759856.97	0.0139	0.0128
Earth	84981-05-04 11:46 G	32759856.91	32759856.99	32759857.09	0.0139	0.0129 *
Earth	84982-05-09 02:39 G	32760226.40	32760226.61	32760226.83	0.0139	0.0070
Moon	84982-05-09 05:17 G	32760226.52	32760226.72	32760226.95	0.0139	0.0076 *
Moon	84983-05-13 15:08 G	32760595.88	32760596.13	32760596.38	0.0140	0.0003
Earth	84983-05-13 18:29 G	32760596.02	32760596.27	32760596.52	0.0140	0.0010 *
Earth	84984-05-17 10:34 G	32760965.72	32760965.94	32760966.19	0.0140	0.0051
Moon	84984-05-17 13:56 G	32760965.85	32760966.08	32760966.34	0.0140	0.0043 *
Moon	84985-05-22 00:29 G	32761335.40	32761335.52	32761335.67	0.0140	0.0117
Earth	84985-05-22 03:51 G	32761335.53	32761335.66	32761335.83	0.0140	0.0112 *
Venus	84989-05-23 22:34 G	32762798.35	32762798.44	32762798.56	0.0142	0.0124
Venus	84990-01-05 10:05 G	32763024.75	32763024.92	32763025.10	0.0142	0.0088
Venus	84990-08-19 21:36 G	32763251.20	32763251.40	32763251.61	0.0142	0.0053
Venus	84991-04-03 09:22 G	32763477.68	32763477.89	32763478.11	0.0142	0.0017
Venus	84991-11-15 21:08 G	32763704.17	32763704.38	32763704.61	0.0142	0.0021
Venus	84992-06-29 09:08 G	32763930.68	32763930.88	32763931.09	0.0143	0.0057
Venus	84993-02-10 20:53 G	32764157.22	32764157.37	32764157.56	0.0143	0.0094
Venus	84993-09-25 09:22 G	32764383.81	32764383.89	32764383.99	0.0143	0.0130
Mercury	84999-02-24 11:03 G	32766361.94	32766361.96	32766362.00	0.0144	0.0139
Mercury	84999-05-23 15:08 G	32766450.05	32766450.13	32766450.21	0.0144	0.0116
Mercury	84999-08-19 18:58 G	32766538.19	32766538.29	32766538.40	0.0144	0.0094

Mercury	84999-11-15 23:03 G	32766626.34	32766626.46	32766626.58	0.0144	0.0071
Mercury	85000-02-12 02:53 G	32766714.50	32766714.62	32766714.76	0.0144	0.0049
Mercury	85000-05-11 06:58 G	32766802.66	32766802.79	32766802.93	0.0144	0.0026
Mercury	85000-08-07 11:03 G	32766890.82	32766890.96	32766891.10	0.0144	0.0002
Mercury	85000-11-03 15:08 G	32766978.99	32766979.13	32766979.27	0.0144	0.0021

86TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 86th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	85001-01-30 19:12 G		32767067.17	32767067.30	32767067.43	0.0144	0.0044	
Mercury	85001-04-28 23:03 G		32767155.35	32767155.46	32767155.59	0.0144	0.0068	
Mercury	85001-07-26 03:22 G		32767243.53	32767243.64	32767243.75	0.0144	0.0091	
Mercury	85001-10-22 07:27 G		32767331.73	32767331.81	32767331.90	0.0144	0.0115	
Mercury	85002-01-18 11:32 G		32767419.96	32767419.98	32767420.02	0.0144	0.0139	
Mars	85007-01-05 20:53 G		32769233.06	32769233.37	32769233.69	0.0144	0.0008	
Moon	85021-11-09 14:24 G		32774654.93	32774655.10	32774655.31	0.0139	0.0095	
Earth	85021-11-09 18:15 G		32774655.11	32774655.26	32774655.45	0.0139	0.0102	*
Earth	85022-11-14 11:17 G		32775024.73	32775024.97	32775025.22	0.0139	0.0042	
Moon	85022-11-14 14:39 G		32775024.88	32775025.11	32775025.36	0.0139	0.0046	*
Moon	85023-11-19 00:00 G		32775394.25	32775394.50	32775394.76	0.0138	0.0018	
Earth	85023-11-19 03:22 G		32775394.40	32775394.64	32775394.90	0.0138	0.0019	*
Earth	85024-11-22 18:15 G		32775764.06	32775764.26	32775764.48	0.0138	0.0077	
Moon	85024-11-22 21:51 G		32775764.20	32775764.41	32775764.61	0.0138	0.0080	*

Moon	85025-11-27 05:32 G	32776133.65	32776133.73	32776133.84	0.0138	0.0128
Earth	85025-11-27 08:24 G	32776133.82	32776133.85	32776133.91	0.0138	0.0135 *
Venus	85029-09-10 23:17 G	32777517.38	32777517.47	32777517.60	0.0136	0.0118
Venus	85030-04-25 05:32 G	32777743.58	32777743.73	32777743.91	0.0136	0.0087
Venus	85030-12-07 11:17 G	32777969.79	32777969.97	32777970.18	0.0136	0.0056
Venus	85031-07-21 17:17 G	32778196.01	32778196.22	32778196.44	0.0136	0.0025
Venus	85032-03-03 23:03 G	32778422.25	32778422.46	32778422.68	0.0136	0.0006
Venus	85032-10-16 04:48 G	32778648.49	32778648.70	32778648.91	0.0136	0.0036
Venus	85033-05-30 10:05 G	32778874.74	32778874.92	32778875.12	0.0135	0.0066
Venus	85034-01-11 15:22 G	32779101.00	32779101.14	32779101.30	0.0135	0.0096
Venus	85034-08-25 20:24 G	32779327.30	32779327.35	32779327.45	0.0135	0.0126
Mercury	85041-03-15 13:12 G	32781720.98	32781721.05	32781721.14	0.0134	0.0121
Mercury	85041-06-11 19:41 G	32781809.20	32781809.32	32781809.45	0.0134	0.0096
Mercury	85041-09-08 01:56 G	32781897.44	32781897.58	32781897.74	0.0134	0.0071
Mercury	85041-12-05 08:24 G	32781985.68	32781985.85	32781986.02	0.0134	0.0046
Mercury	85042-03-03 14:39 G	32782073.94	32782074.11	32782074.29	0.0134	0.0022
Mercury	85042-05-30 20:53 G	32782162.19	32782162.37	32782162.55	0.0134	0.0004
Mercury	85042-08-27 03:08 G	32782250.45	32782250.63	32782250.81	0.0134	0.0027
Mercury	85042-11-23 09:08 G	32782338.72	32782338.88	32782339.05	0.0134	0.0051
Mercury	85043-02-19 15:08 G	32782426.99	32782427.13	32782427.29	0.0134	0.0075
Mercury	85043-05-18 21:08 G	32782515.27	32782515.38	32782515.51	0.0134	0.0099
Mercury	85043-08-15 03:22 G	32782603.57	32782603.64	32782603.71	0.0134	0.0122
Mars	85049-03-17 21:08 G	32784645.11	32784645.38	32784645.65	0.0134	0.0061
Moon	85065-05-05 19:56 G	32790538.23	32790538.33	32790538.44	0.0139	0.0125
Earth	85065-05-05 22:20 G	32790538.32	32790538.43	32790538.54	0.0139	0.0124 *
Earth	85066-05-10 12:44 G	32790907.81	32790908.03	32790908.26	0.0139	0.0065
Moon	85066-05-10 15:36 G	32790907.93	32790908.15	32790908.39	0.0139	0.0060 *
Moon	85067-05-15 01:41 G	32791277.32	32791277.57	32791277.82	0.0140	0.0012
Earth	85067-05-15 04:20 G	32791277.43	32791277.68	32791277.94	0.0140	0.0005 *
Earth	85068-05-18 20:10 G	32791647.12	32791647.34	32791647.59	0.0140	0.0056

Moon	85068-05-18 23:46 G	32791647.26	32791647.49	32791647.72	0.0140	0.0063 *
Moon	85069-05-23 10:05 G	32792016.78	32792016.92	32792017.08	0.0140	0.0111
Earth	85069-05-23 13:27 G	32792016.93	32792017.06	32792017.20	0.0140	0.0118 *
Venus	85073-01-22 04:05 G	32793356.66	32793356.67	32793356.72	0.0142	0.0141
Venus	85073-09-05 15:36 G	32793583.01	32793583.15	32793583.30	0.0142	0.0105
Venus	85074-04-20 02:53 G	32793809.45	32793809.62	32793809.83	0.0142	0.0070
Venus	85074-12-02 14:39 G	32794035.90	32794036.11	32794036.33	0.0142	0.0034
Venus	85075-07-17 02:39 G	32794262.38	32794262.61	32794262.83	0.0142	0.0004
Venus	85076-02-28 14:24 G	32794488.89	32794489.10	32794489.31	0.0143	0.0039
Venus	85076-10-12 02:10 G	32794715.42	32794715.59	32794715.79	0.0143	0.0076
Venus	85077-05-26 14:39 G	32794941.98	32794942.11	32794942.25	0.0143	0.0112
Mercury	85083-03-17 18:15 G	32797063.21	32797063.26	32797063.30	0.0144	0.0134
Mercury	85083-06-13 22:05 G	32797151.34	32797151.42	32797151.51	0.0144	0.0112
Mercury	85083-09-10 01:56 G	32797239.48	32797239.58	32797239.69	0.0144	0.0090
Mercury	85083-12-07 05:46 G	32797327.63	32797327.74	32797327.87	0.0144	0.0067
Mercury	85084-03-04 09:51 G	32797415.78	32797415.91	32797416.05	0.0144	0.0044
Mercury	85084-05-31 13:56 G	32797503.94	32797504.08	32797504.22	0.0144	0.0021
Mercury	85084-08-27 18:00 G	32797592.11	32797592.25	32797592.39	0.0144	0.0003
Mercury	85084-11-23 22:05 G	32797680.28	32797680.42	32797680.55	0.0144	0.0026
Mercury	85085-02-20 01:56 G	32797768.46	32797768.58	32797768.72	0.0144	0.0049
Mercury	85085-05-19 06:00 G	32797856.64	32797856.75	32797856.88	0.0144	0.0072
Mercury	85085-08-15 10:05 G	32797944.82	32797944.92	32797945.03	0.0144	0.0096
Mercury	85085-11-11 14:24 G	32798033.03	32798033.10	32798033.18	0.0144	0.0119
Mercury	85086-02-07 18:29 G	32798121.27	32798121.27	32798121.29	0.0144	0.0143
Mars	85091-09-01 10:34 G	32800152.90	32800152.94	32800153.01	0.0144	0.0141
Moon	85105-11-11 00:15 G	32805336.36	32805336.51	32805336.70	0.0139	0.0105
Earth	85105-11-11 03:51 G	32805336.49	32805336.66	32805336.85	0.0139	0.0098 *
Earth	85106-11-15 20:53 G	32805706.13	32805706.37	32805706.62	0.0139	0.0037
Moon	85106-11-16 00:44 G	32805706.29	32805706.53	32805706.78	0.0139	0.0033 *
Moon	85107-11-20 09:36 G	32806075.65	32806075.90	32806076.15	0.0139	0.0022

Earth	85107-11-20 12:58 G	32806075.80	32806076.04	32806076.30	0.0139	0.0024 *
Earth	85108-11-24 04:20 G	32806445.47	32806445.68	32806445.88	0.0138	0.0083
Moon	85108-11-24 07:27 G	32806445.61	32806445.81	32806446.02	0.0138	0.0078 *
Venus	85113-05-12 09:08 G	32808075.83	32808075.88	32808075.95	0.0137	0.0131
Venus	85113-12-24 15:08 G	32808302.00	32808302.13	32808302.29	0.0136	0.0101
Venus	85114-08-07 21:22 G	32808528.21	32808528.39	32808528.58	0.0136	0.0069
Venus	85115-03-22 03:22 G	32808754.43	32808754.64	32808754.85	0.0136	0.0039
Venus	85115-11-03 09:22 G	32808980.67	32808980.89	32808981.10	0.0136	0.0008
Venus	85116-06-16 14:53 G	32809206.91	32809207.12	32809207.33	0.0136	0.0023
Venus	85117-01-28 20:24 G	32809433.16	32809433.35	32809433.55	0.0136	0.0053
Venus	85117-09-12 01:41 G	32809659.42	32809659.57	32809659.76	0.0135	0.0084
Venus	85118-04-26 07:27 G	32809885.70	32809885.81	32809885.93	0.0135	0.0113
Mercury	85125-04-05 20:39 G	32812422.27	32812422.36	32812422.46	0.0134	0.0112
Mercury	85125-07-03 03:08 G	32812510.49	32812510.63	32812510.77	0.0134	0.0087
Mercury	85125-09-29 09:08 G	32812598.73	32812598.88	32812599.06	0.0134	0.0064
Mercury	85125-12-26 15:36 G	32812686.98	32812687.15	32812687.33	0.0134	0.0038
Mercury	85126-03-24 22:05 G	32812775.24	32812775.42	32812775.60	0.0134	0.0013
Mercury	85126-06-21 04:20 G	32812863.50	32812863.68	32812863.86	0.0134	0.0011
Mercury	85126-09-17 10:20 G	32812951.76	32812951.93	32812952.11	0.0134	0.0035
Mercury	85126-12-14 16:34 G	32813040.03	32813040.19	32813040.35	0.0134	0.0059
Mercury	85127-03-12 22:34 G	32813128.31	32813128.44	32813128.59	0.0134	0.0083
Mercury	85127-06-09 04:34 G	32813216.59	32813216.69	32813216.81	0.0134	0.0107
Mercury	85127-09-05 10:34 G	32813304.91	32813304.94	32813304.99	0.0134	0.0131
Mars	85133-11-11 14:10 G	32815563.82	32815564.09	32815564.38	0.0134	0.0050
Moon	85149-05-07 07:41 G	32821219.71	32821219.82	32821219.96	0.0139	0.0119
Earth	85149-05-07 09:36 G	32821219.79	32821219.90	32821220.05	0.0139	0.0119 *
Earth	85150-05-12 00:29 G	32821589.30	32821589.52	32821589.75	0.0139	0.0059
Moon	85150-05-12 02:24 G	32821589.38	32821589.60	32821589.84	0.0139	0.0063 *
Moon	85151-05-16 12:58 G	32821958.80	32821959.04	32821959.29	0.0139	0.0009
Earth	85151-05-16 15:51 G	32821958.91	32821959.16	32821959.41	0.0139	0.0001 *

Earth	85152-05-20 07:41 G	32822328.60	32822328.82	32822329.06	0.0140	0.0062
Moon	85152-05-20 10:34 G	32822328.70	32822328.94	32822329.18	0.0140	0.0054 *
Moon	85153-05-24 21:36 G	32822698.32	32822698.40	32822698.50	0.0140	0.0129
Earth	85153-05-25 00:29 G	32822698.42	32822698.52	32822698.66	0.0140	0.0124 *
Venus	85157-05-06 22:34 G	32824141.34	32824141.44	32824141.57	0.0142	0.0121
Venus	85157-12-19 10:05 G	32824367.74	32824367.92	32824368.10	0.0142	0.0085
Venus	85158-08-02 21:22 G	32824594.19	32824594.39	32824594.60	0.0142	0.0050
Venus	85159-03-17 09:08 G	32824820.66	32824820.88	32824821.10	0.0142	0.0014
Venus	85159-10-29 20:53 G	32825047.15	32825047.37	32825047.59	0.0142	0.0022
Venus	85160-06-12 08:39 G	32825273.67	32825273.86	32825274.07	0.0142	0.0059
Venus	85161-01-24 20:39 G	32825500.20	32825500.36	32825500.53	0.0143	0.0095
Venus	85161-09-08 08:24 G	32825726.79	32825726.85	32825726.95	0.0143	0.0132
Mercury	85167-04-08 01:12 G	32827764.50	32827764.55	32827764.61	0.0144	0.0129
Mercury	85167-07-05 05:03 G	32827852.63	32827852.71	32827852.80	0.0144	0.0107
Mercury	85167-10-01 08:53 G	32827940.77	32827940.87	32827940.99	0.0144	0.0085
Mercury	85167-12-28 12:58 G	32828028.92	32828029.04	32828029.17	0.0144	0.0062
Mercury	85168-03-25 17:03 G	32828117.07	32828117.21	32828117.34	0.0144	0.0039
Mercury	85168-06-21 20:53 G	32828205.24	32828205.37	32828205.51	0.0144	0.0016
Mercury	85168-09-18 00:58 G	32828293.40	32828293.54	32828293.68	0.0144	0.0007
Mercury	85168-12-15 05:03 G	32828381.57	32828381.71	32828381.84	0.0144	0.0030
Mercury	85169-03-13 08:53 G	32828469.75	32828469.87	32828470.01	0.0144	0.0054
Mercury	85169-06-09 12:58 G	32828557.93	32828558.04	32828558.17	0.0144	0.0077
Mercury	85169-09-05 17:03 G	32828646.12	32828646.21	32828646.32	0.0144	0.0101
Mercury	85169-12-02 21:22 G	32828734.32	32828734.39	32828734.46	0.0144	0.0124
Mars	85174-05-24 13:41 G	32830367.82	32830368.07	32830368.35	0.0144	0.0076
Moon	85189-11-11 07:41 G	32836017.63	32836017.82	32836018.02	0.0139	0.0087
Earth	85189-11-11 11:17 G	32836017.79	32836017.97	32836018.17	0.0139	0.0094 *
Earth	85190-11-16 04:20 G	32836387.44	32836387.68	32836387.94	0.0139	0.0033
Moon	85190-11-16 07:56 G	32836387.59	32836387.83	32836388.08	0.0139	0.0038 *
Moon	85191-11-20 16:48 G	32836756.96	32836757.20	32836757.46	0.0139	0.0028

Earth	85191-11-20 20:24 G	32836757.11	32836757.35	32836757.61	0.0139	0.0028	*
Earth	85192-11-24 11:46 G	32837126.79	32837126.99	32837127.18	0.0138	0.0087	
Moon	85192-11-24 15:22 G	32837126.94	32837127.14	32837127.33	0.0138	0.0089	*
Venus	85197-08-23 23:46 G	32838860.38	32838860.49	32838860.61	0.0137	0.0115	
Venus	85198-04-07 06:00 G	32839086.59	32839086.75	32839086.92	0.0136	0.0084	
Venus	85198-11-19 12:00 G	32839312.81	32839313.00	32839313.21	0.0136	0.0053	
Venus	85199-07-03 18:00 G	32839539.04	32839539.25	32839539.47	0.0136	0.0022	
Venus	85200-02-14 23:46 G	32839765.28	32839765.49	32839765.71	0.0136	0.0009	
Venus	85200-09-28 05:46 G	32839991.54	32839991.74	32839991.95	0.0136	0.0039	
Venus	85201-05-12 11:17 G	32840217.79	32840217.97	32840218.16	0.0136	0.0069	
Venus	85201-12-24 16:48 G	32840444.06	32840444.20	32840444.35	0.0135	0.0099	
Venus	85202-08-07 22:05 G	32840670.37	32840670.42	32840670.50	0.0135	0.0128	
Mercury	85209-01-27 20:53 G	32843035.35	32843035.37	32843035.42	0.0134	0.0131	
Mercury	85209-04-26 03:22 G	32843123.54	32843123.64	32843123.76	0.0134	0.0106	
Mercury	85209-07-23 09:51 G	32843211.78	32843211.91	32843212.06	0.0134	0.0081	
Mercury	85209-10-19 16:20 G	32843300.02	32843300.18	32843300.35	0.0134	0.0056	
Mercury	85210-01-15 22:48 G	32843388.27	32843388.45	32843388.62	0.0134	0.0031	
Mercury	85210-04-14 05:03 G	32843476.53	32843476.71	32843476.89	0.0134	0.0007	
Mercury	85210-07-11 11:17 G	32843564.79	32843564.97	32843565.15	0.0134	0.0018	
Mercury	85210-10-07 17:17 G	32843653.06	32843653.22	32843653.40	0.0134	0.0042	
Mercury	85211-01-03 23:32 G	32843741.33	32843741.48	32843741.64	0.0134	0.0066	
Mercury	85211-04-02 05:32 G	32843829.61	32843829.73	32843829.87	0.0134	0.0090	
Mercury	85211-06-29 11:32 G	32843917.90	32843917.98	32843918.09	0.0134	0.0114	
Mars	85216-08-05 13:56 G	32845781.93	32845782.08	32845782.27	0.0134	0.0110	
Moon	85233-05-07 21:08 G	32851901.24	32851901.38	32851901.53	0.0139	0.0112	
Earth	85233-05-07 22:05 G	32851901.29	32851901.42	32851901.58	0.0139	0.0113	*
Earth	85234-05-12 12:44 G	32852270.80	32852271.03	32852271.27	0.0139	0.0053	
Moon	85234-05-12 14:39 G	32852270.88	32852271.11	32852271.37	0.0139	0.0049	*
Moon	85235-05-17 02:24 G	32852640.36	32852640.60	32852640.85	0.0139	0.0002	
Earth	85235-05-17 04:20 G	32852640.42	32852640.68	32852640.93	0.0139	0.0008	*

Earth	85236-05-20 19:56 G	32853010.12	32853010.33	32853010.56	0.0140	0.0069
Moon	85236-05-20 22:34 G	32853010.24	32853010.44	32853010.67	0.0140	0.0076 *
Moon	85237-05-25 10:05 G	32853379.82	32853379.92	32853380.05	0.0140	0.0123
Earth	85237-05-25 12:44 G	32853379.95	32853380.03	32853380.14	0.0140	0.0130 *
Venus	85241-01-04 06:44 G	32854699.72	32854699.78	32854699.84	0.0141	0.0135
Venus	85241-08-18 18:00 G	32854926.09	32854926.25	32854926.40	0.0142	0.0100
Venus	85242-04-02 05:17 G	32855152.53	32855152.72	32855152.92	0.0142	0.0065
Venus	85242-11-14 16:48 G	32855378.99	32855379.20	32855379.42	0.0142	0.0029
Venus	85243-06-29 04:34 G	32855605.47	32855605.69	32855605.91	0.0142	0.0007
Venus	85244-02-10 16:05 G	32855831.97	32855832.17	32855832.39	0.0142	0.0043
Venus	85244-09-24 03:51 G	32856058.49	32856058.66	32856058.86	0.0143	0.0080
Venus	85245-05-08 15:51 G	32856285.05	32856285.16	32856285.31	0.0143	0.0116
Mercury	85251-04-28 08:24 G	32858465.79	32858465.85	32858465.93	0.0144	0.0123
Mercury	85251-07-25 12:29 G	32858553.93	32858554.02	32858554.12	0.0144	0.0100
Mercury	85251-10-21 16:20 G	32858642.07	32858642.18	32858642.30	0.0144	0.0078
Mercury	85252-01-17 20:24 G	32858730.22	32858730.35	32858730.48	0.0144	0.0055
Mercury	85252-04-15 00:29 G	32858818.38	32858818.52	32858818.65	0.0144	0.0032
Mercury	85252-07-12 04:20 G	32858906.55	32858906.68	32858906.82	0.0144	0.0010
Mercury	85252-10-08 08:24 G	32858994.71	32858994.85	32858994.99	0.0144	0.0014
Mercury	85253-01-04 12:29 G	32859082.88	32859083.02	32859083.15	0.0144	0.0037
Mercury	85253-04-02 16:20 G	32859171.06	32859171.18	32859171.31	0.0144	0.0061
Mercury	85253-06-29 20:24 G	32859259.25	32859259.35	32859259.47	0.0144	0.0084
Mercury	85253-09-26 00:29 G	32859347.44	32859347.52	32859347.62	0.0144	0.0108
Mercury	85253-12-23 04:48 G	32859435.65	32859435.70	32859435.76	0.0144	0.0131
Mars	85259-01-18 10:05 G	32861287.64	32861287.92	32861288.21	0.0144	0.0063
Moon	85273-11-11 18:00 G	32866699.08	32866699.25	32866699.44	0.0139	0.0097
Earth	85273-11-11 20:53 G	32866699.19	32866699.37	32866699.58	0.0139	0.0090 *
Earth	85274-11-16 14:10 G	32867068.84	32867069.09	32867069.34	0.0139	0.0028
Moon	85274-11-16 17:46 G	32867068.99	32867069.24	32867069.50	0.0139	0.0023 *
Moon	85275-11-21 02:39 G	32867438.37	32867438.61	32867438.86	0.0139	0.0030

Earth	85275-11-21 06:00 G	32867438.51	32867438.75	32867439.01	0.0139	0.0033 *
Earth	85276-11-24 20:53 G	32867808.20	32867808.37	32867808.58	0.0138	0.0092
Moon	85276-11-25 00:29 G	32867808.35	32867808.52	32867808.74	0.0138	0.0090 *
Venus	85281-04-23 09:08 G	32869418.82	32869418.88	32869418.96	0.0137	0.0129
Venus	85281-12-05 15:22 G	32869645.00	32869645.14	32869645.30	0.0137	0.0098
Venus	85282-07-19 21:22 G	32869871.22	32869871.39	32869871.59	0.0136	0.0068
Venus	85283-03-03 03:36 G	32870097.45	32870097.65	32870097.87	0.0136	0.0037
Venus	85283-10-15 09:51 G	32870323.70	32870323.91	32870324.13	0.0136	0.0006
Venus	85284-05-28 15:36 G	32870549.94	32870550.15	32870550.37	0.0136	0.0025
Venus	85285-01-09 21:08 G	32870776.20	32870776.38	32870776.59	0.0136	0.0056
Venus	85285-08-24 02:39 G	32871002.46	32871002.61	32871002.79	0.0136	0.0086
Venus	85286-04-07 08:10 G	32871228.74	32871228.84	32871228.97	0.0135	0.0115
Mercury	85293-02-17 04:20 G	32873736.61	32873736.68	32873736.75	0.0134	0.0124
Mercury	85293-05-16 10:48 G	32873824.83	32873824.95	32873825.08	0.0134	0.0099
Mercury	85293-08-12 17:03 G	32873913.07	32873913.21	32873913.37	0.0134	0.0074
Mercury	85293-11-08 23:32 G	32874001.32	32874001.48	32874001.65	0.0134	0.0049
Mercury	85294-02-05 06:00 G	32874089.57	32874089.75	32874089.93	0.0134	0.0024
Mercury	85294-05-04 12:15 G	32874177.83	32874178.01	32874178.19	0.0134	0.0001
Mercury	85294-07-31 18:29 G	32874266.09	32874266.27	32874266.45	0.0134	0.0025
Mercury	85294-10-28 00:44 G	32874354.36	32874354.53	32874354.70	0.0134	0.0050
Mercury	85295-01-24 06:29 G	32874442.64	32874442.77	32874442.94	0.0134	0.0075
Mercury	85295-04-22 12:58 G	32874530.92	32874531.04	32874531.16	0.0134	0.0098
Mercury	85295-07-19 18:58 G	32874619.22	32874619.29	32874619.37	0.0134	0.0122
Mars	85301-04-01 05:17 G	32876700.42	32876700.72	32876701.02	0.0135	0.0002
Moon	85317-05-09 09:36 G	32882582.77	32882582.90	32882583.07	0.0139	0.0108
Earth	85317-05-09 11:03 G	32882582.80	32882582.96	32882583.12	0.0139	0.0106 *
Earth	85318-05-14 01:12 G	32882952.33	32882952.55	32882952.80	0.0139	0.0047
Moon	85318-05-14 02:24 G	32882952.36	32882952.60	32882952.85	0.0139	0.0049 *
Moon	85319-05-18 14:53 G	32883321.88	32883322.12	32883322.37	0.0139	0.0021
Earth	85319-05-18 16:48 G	32883321.95	32883322.20	32883322.46	0.0139	0.0014 *

Earth	85320-05-22 08:39 G	32883691.66	32883691.86	32883692.09	0.0140	0.0076
Moon	85320-05-22 10:20 G	32883691.72	32883691.93	32883692.18	0.0140	0.0068 *
Earth	85321-05-27 01:27 G	32884061.53	32884061.56	32884061.63	0.0140	0.0137
Venus	85325-04-19 02:10 G	32885484.48	32885484.59	32885484.74	0.0141	0.0115
Venus	85325-12-01 13:27 G	32885710.89	32885711.06	32885711.26	0.0142	0.0080
Venus	85326-07-16 00:58 G	32885937.34	32885937.54	32885937.76	0.0142	0.0044
Venus	85327-02-27 12:44 G	32886163.81	32886164.03	32886164.25	0.0142	0.0008
Venus	85327-10-12 00:29 G	32886390.31	32886390.52	32886390.74	0.0142	0.0028
Venus	85328-05-25 12:15 G	32886616.82	32886617.01	32886617.21	0.0142	0.0064
Venus	85329-01-07 00:00 G	32886843.36	32886843.50	32886843.67	0.0143	0.0101
Venus	85329-08-21 12:00 G	32887069.95	32887070.00	32887070.08	0.0143	0.0137
Mercury	85335-02-20 12:15 G	32889078.98	32889079.01	32889079.06	0.0144	0.0137
Mercury	85335-05-19 16:20 G	32889167.10	32889167.18	32889167.26	0.0144	0.0114
Mercury	85335-08-15 20:10 G	32889255.24	32889255.34	32889255.45	0.0144	0.0092
Mercury	85335-11-12 00:15 G	32889343.39	32889343.51	32889343.63	0.0144	0.0069
Mercury	85336-02-08 04:05 G	32889431.54	32889431.67	32889431.80	0.0144	0.0047
Mercury	85336-05-06 08:10 G	32889519.70	32889519.84	32889519.97	0.0144	0.0024
Mercury	85336-08-02 12:00 G	32889607.87	32889608.00	32889608.14	0.0144	0.0005
Mercury	85336-10-29 16:05 G	32889696.04	32889696.17	32889696.31	0.0144	0.0023
Mercury	85337-01-25 20:10 G	32889784.21	32889784.34	32889784.47	0.0144	0.0046
Mercury	85337-04-24 00:15 G	32889872.39	32889872.51	32889872.63	0.0144	0.0069
Mercury	85337-07-21 04:05 G	32889960.57	32889960.67	32889960.79	0.0144	0.0093
Mercury	85337-10-17 08:24 G	32890048.77	32890048.85	32890048.93	0.0144	0.0116
Mercury	85338-01-13 12:29 G	32890137.00	32890137.02	32890137.05	0.0144	0.0140
Moon	85357-11-13 04:05 G	32897380.46	32897380.67	32897380.88	0.0139	0.0077
Earth	85357-11-13 06:58 G	32897380.59	32897380.79	32897381.00	0.0139	0.0085 *
Earth	85358-11-17 23:46 G	32897750.24	32897750.49	32897750.74	0.0139	0.0023
Moon	85358-11-18 02:39 G	32897750.37	32897750.61	32897750.88	0.0139	0.0029 *
Moon	85359-11-22 12:15 G	32898119.77	32898120.01	32898120.25	0.0139	0.0040
Earth	85359-11-22 15:36 G	32898119.92	32898120.15	32898120.41	0.0139	0.0038 *

Earth	85360-11-26 06:29 G	32898489.60	32898489.77	32898489.96	0.0138	0.0097
Moon	85360-11-26 10:05 G	32898489.75	32898489.92	32898490.11	0.0138	0.0098 *
Venus	85365-08-06 00:29 G	32900203.41	32900203.52	32900203.66	0.0137	0.0112
Venus	85366-03-20 06:44 G	32900429.62	32900429.78	32900429.97	0.0136	0.0081
Venus	85366-11-01 13:12 G	32900655.85	32900656.05	32900656.25	0.0136	0.0050
Venus	85367-06-15 19:12 G	32900882.09	32900882.30	32900882.52	0.0136	0.0020
Venus	85368-01-28 01:12 G	32901108.34	32901108.55	32901108.76	0.0136	0.0011
Venus	85368-09-10 06:58 G	32901334.59	32901334.79	32901335.00	0.0136	0.0042
Venus	85369-04-24 12:29 G	32901560.85	32901561.02	32901561.21	0.0136	0.0072
Venus	85369-12-06 18:00 G	32901787.12	32901787.25	32901787.40	0.0135	0.0102
Venus	85370-07-20 23:17 G	32902013.44	32902013.47	32902013.54	0.0135	0.0131
Mercury	85377-03-10 11:03 G	32904437.89	32904437.96	32904438.06	0.0134	0.0117
Mercury	85377-06-06 17:46 G	32904526.11	32904526.24	32904526.38	0.0134	0.0092
Mercury	85377-09-03 00:15 G	32904614.35	32904614.51	32904614.67	0.0134	0.0067
Mercury	85377-11-30 06:44 G	32904702.60	32904702.78	32904702.95	0.0134	0.0042
Mercury	85378-02-26 12:58 G	32904790.86	32904791.04	32904791.22	0.0134	0.0017
Mercury	85378-05-25 19:12 G	32904879.12	32904879.30	32904879.48	0.0134	0.0008
Mercury	85378-08-22 01:27 G	32904967.39	32904967.56	32904967.74	0.0134	0.0032
Mercury	85378-11-18 07:41 G	32905055.66	32905055.82	32905055.99	0.0134	0.0057
Mercury	85379-02-14 13:56 G	32905143.94	32905144.08	32905144.22	0.0134	0.0081
Mercury	85379-05-13 19:56 G	32905232.23	32905232.33	32905232.45	0.0134	0.0105
Mercury	85379-08-10 01:56 G	32905320.54	32905320.58	32905320.64	0.0134	0.0129
Mars	85385-11-24 18:58 G	32907619.13	32907619.29	32907619.49	0.0135	0.0108
Moon	85401-05-10 22:20 G	32913264.26	32913264.43	32913264.60	0.0139	0.0099
Earth	85401-05-10 22:05 G	32913264.27	32913264.42	32913264.61	0.0139	0.0101 *
Earth	85402-05-15 12:44 G	32913633.80	32913634.03	32913634.28	0.0139	0.0041
Moon	85402-05-15 13:41 G	32913633.83	32913634.07	32913634.33	0.0139	0.0038 *
Moon	85403-05-20 03:36 G	32914003.41	32914003.65	32914003.90	0.0139	0.0015
Earth	85403-05-20 04:05 G	32914003.43	32914003.67	32914003.93	0.0139	0.0021 *
Earth	85404-05-23 20:24 G	32914373.15	32914373.35	32914373.56	0.0140	0.0081

Moon	85404-05-23 21:51 G	32914373.22	32914373.41	32914373.63	0.0140	0.0089 *
Moon	85405-05-28 11:17 G	32914742.94	32914742.97	32914743.05	0.0140	0.0137
Venus	85408-12-18 09:51 G	32916042.84	32916042.91	32916043.01	0.0141	0.0129
Venus	85409-08-01 21:08 G	32916269.23	32916269.38	32916269.56	0.0142	0.0095
Venus	85410-03-16 08:39 G	32916495.67	32916495.86	32916496.07	0.0142	0.0059
Venus	85410-10-28 20:10 G	32916722.13	32916722.34	32916722.57	0.0142	0.0024
Venus	85411-06-12 07:56 G	32916948.61	32916948.83	32916949.05	0.0142	0.0012
Venus	85412-01-24 19:27 G	32917175.11	32917175.31	32917175.53	0.0142	0.0049
Venus	85412-09-07 07:12 G	32917401.64	32917401.80	32917401.99	0.0142	0.0085
Venus	85413-04-21 19:12 G	32917628.20	32917628.30	32917628.43	0.0143	0.0121
Mercury	85419-03-13 19:56 G	32919780.28	32919780.33	32919780.40	0.0144	0.0129
Mercury	85419-06-10 00:00 G	32919868.41	32919868.50	32919868.59	0.0144	0.0106
Mercury	85419-09-06 03:51 G	32919956.55	32919956.66	32919956.77	0.0144	0.0084
Mercury	85419-12-03 07:56 G	32920044.70	32920044.83	32920044.95	0.0144	0.0061
Mercury	85420-02-29 11:46 G	32920132.86	32920132.99	32920133.12	0.0144	0.0038
Mercury	85420-05-27 15:51 G	32920221.02	32920221.16	32920221.29	0.0144	0.0016
Mercury	85420-08-23 19:41 G	32920309.18	32920309.32	32920309.46	0.0144	0.0008
Mercury	85420-11-19 23:46 G	32920397.36	32920397.49	32920397.63	0.0144	0.0031
Mercury	85421-02-16 03:51 G	32920485.53	32920485.66	32920485.79	0.0144	0.0054
Mercury	85421-05-15 07:41 G	32920573.71	32920573.82	32920573.95	0.0144	0.0078
Mercury	85421-08-11 12:00 G	32920661.90	32920662.00	32920662.10	0.0144	0.0101
Mercury	85421-11-07 15:51 G	32920750.11	32920750.16	32920750.24	0.0144	0.0125
Mars	85426-06-07 18:44 G	32922422.97	32922423.28	32922423.60	0.0144	0.0007
Moon	85440-11-10 02:24 G	32927692.55	32927692.60	32927692.70	0.0140	0.0134
Moon	85441-11-14 15:36 G	32928061.97	32928062.15	32928062.36	0.0139	0.0086
Earth	85441-11-14 18:15 G	32928062.05	32928062.26	32928062.48	0.0139	0.0078 *
Earth	85442-11-19 11:03 G	32928431.71	32928431.96	32928432.21	0.0139	0.0017
Moon	85442-11-19 14:10 G	32928431.83	32928432.09	32928432.35	0.0139	0.0011 *
Moon	85443-11-23 23:46 G	32928801.26	32928801.49	32928801.74	0.0139	0.0040
Earth	85443-11-24 02:39 G	32928801.38	32928801.61	32928801.86	0.0139	0.0044 *

Earth	85444-11-27 17:32 G	32929171.08	32929171.23	32929171.41	0.0138	0.0103
Moon	85444-11-27 20:53 G	32929171.22	32929171.37	32929171.57	0.0138	0.0101 *
Venus	85449-04-06 10:48 G	32930761.87	32930761.95	32930762.04	0.0137	0.0125
Venus	85449-11-18 17:03 G	32930988.07	32930988.21	32930988.38	0.0136	0.0094
Venus	85450-07-02 23:17 G	32931214.29	32931214.47	32931214.67	0.0136	0.0064
Venus	85451-02-14 05:17 G	32931440.52	32931440.72	32931440.94	0.0136	0.0033
Venus	85451-09-28 11:32 G	32931666.77	32931666.98	32931667.20	0.0136	0.0003
Venus	85452-05-11 17:32 G	32931893.02	32931893.23	32931893.44	0.0136	0.0028
Venus	85452-12-23 22:48 G	32932119.27	32932119.45	32932119.66	0.0136	0.0059
Venus	85453-08-07 04:20 G	32932345.53	32932345.68	32932345.86	0.0136	0.0089
Venus	85454-03-21 10:05 G	32932571.82	32932571.92	32932572.03	0.0135	0.0118
Mercury	85461-03-31 18:15 G	32935139.17	32935139.26	32935139.38	0.0134	0.0110
Mercury	85461-06-28 00:44 G	32935227.40	32935227.53	32935227.68	0.0134	0.0085
Mercury	85461-09-24 07:12 G	32935315.64	32935315.80	32935315.97	0.0134	0.0060
Mercury	85461-12-21 13:41 G	32935403.90	32935404.07	32935404.25	0.0134	0.0034
Mercury	85462-03-19 20:10 G	32935492.16	32935492.34	32935492.52	0.0134	0.0009
Mercury	85462-06-16 02:24 G	32935580.42	32935580.60	32935580.78	0.0134	0.0015
Mercury	85462-09-12 08:39 G	32935668.69	32935668.86	32935669.04	0.0134	0.0040
Mercury	85462-12-09 14:39 G	32935756.96	32935757.11	32935757.28	0.0134	0.0065
Mercury	85463-03-07 20:53 G	32935845.25	32935845.37	32935845.51	0.0134	0.0088
Mercury	85463-06-04 02:53 G	32935933.54	32935933.62	32935933.73	0.0134	0.0113
Mars	85468-08-19 18:29 G	32937837.01	32937837.27	32937837.56	0.0135	0.0052
Earth	85485-05-11 08:10 G	32943945.67	32943945.84	32943946.03	0.0139	0.0096
Moon	85485-05-11 08:10 G	32943945.69	32943945.84	32943946.03	0.0139	0.0099 *
Moon	85486-05-15 22:34 G	32944315.19	32944315.44	32944315.70	0.0139	0.0037
Earth	85486-05-15 22:48 G	32944315.22	32944315.45	32944315.70	0.0139	0.0036 *
Moon	85487-05-20 13:41 G	32944684.83	32944685.07	32944685.31	0.0140	0.0030
Earth	85487-05-20 14:24 G	32944684.85	32944685.10	32944685.35	0.0140	0.0025 *
Earth	85488-05-24 06:15 G	32945054.58	32945054.76	32945054.97	0.0140	0.0087
Moon	85488-05-24 06:44 G	32945054.58	32945054.78	32945055.01	0.0140	0.0080 *

Venus	85493-04-01 04:05 G	32946827.54	32946827.67	32946827.81	0.0141	0.0110
Venus	85493-11-13 15:22 G	32947053.96	32947054.14	32947054.33	0.0142	0.0075
Venus	85494-06-28 02:39 G	32947280.41	32947280.61	32947280.83	0.0142	0.0040
Venus	85495-02-09 14:24 G	32947506.88	32947507.10	32947507.32	0.0142	0.0004
Venus	85495-09-24 01:56 G	32947733.37	32947733.58	32947733.80	0.0142	0.0032
Venus	85496-05-07 13:41 G	32947959.89	32947960.07	32947960.27	0.0142	0.0068
Venus	85496-12-20 01:41 G	32948186.42	32948186.57	32948186.72	0.0143	0.0104
Venus	85497-08-03 13:27 G	32948413.03	32948413.06	32948413.11	0.0143	0.0140
Mercury	85503-04-04 03:36 G	32950481.58	32950481.65	32950481.72	0.0144	0.0122
Mercury	85503-07-01 07:12 G	32950569.71	32950569.80	32950569.90	0.0144	0.0100
Mercury	85503-09-27 11:17 G	32950657.85	32950657.97	32950658.08	0.0144	0.0077
Mercury	85503-12-24 15:08 G	32950746.01	32950746.13	32950746.26	0.0144	0.0055
Mercury	85504-03-21 19:12 G	32950834.16	32950834.30	32950834.43	0.0144	0.0032
Mercury	85504-06-17 23:03 G	32950922.33	32950922.46	32950922.60	0.0144	0.0009
Mercury	85504-09-14 03:08 G	32951010.49	32951010.63	32951010.77	0.0144	0.0014
Mercury	85504-12-11 06:58 G	32951098.66	32951098.79	32951098.93	0.0144	0.0038
Mercury	85505-03-09 11:03 G	32951186.84	32951186.96	32951187.09	0.0144	0.0061
Mercury	85505-06-05 15:08 G	32951275.02	32951275.13	32951275.25	0.0144	0.0084
Mercury	85505-09-01 19:12 G	32951363.22	32951363.30	32951363.40	0.0144	0.0108
Mercury	85505-11-28 23:17 G	32951451.43	32951451.47	32951451.53	0.0144	0.0132
Mars	85511-02-02 14:10 G	32953342.98	32953343.09	32953343.23	0.0144	0.0131
Earth	85524-11-11 10:05 G	32958373.89	32958373.92	32958374.00	0.0140	0.0136
Moon	85525-11-16 01:41 G	32958743.37	32958743.57	32958743.81	0.0139	0.0067
Earth	85525-11-16 04:20 G	32958743.46	32958743.68	32958743.89	0.0139	0.0074 *
Earth	85526-11-20 20:53 G	32959113.11	32959113.37	32959113.62	0.0139	0.0012
Moon	85526-11-20 22:48 G	32959113.20	32959113.45	32959113.72	0.0139	0.0019 *
Moon	85527-11-25 09:36 G	32959482.68	32959482.90	32959483.14	0.0139	0.0052
Earth	85527-11-25 12:29 G	32959482.79	32959483.02	32959483.27	0.0139	0.0049 *
Earth	85528-11-29 03:22 G	32959852.50	32959852.64	32959852.81	0.0138	0.0108
Moon	85528-11-29 06:15 G	32959852.61	32959852.76	32959852.94	0.0138	0.0107 *

Venus	85533-07-20 02:39 G	32961546.48	32961546.61	32961546.74	0.0137	0.0108
Venus	85534-03-03 08:39 G	32961772.69	32961772.86	32961773.05	0.0136	0.0078
Venus	85534-10-15 14:53 G	32961998.93	32961999.12	32961999.33	0.0136	0.0047
Venus	85535-05-29 21:08 G	32962225.17	32962225.38	32962225.60	0.0136	0.0016
Venus	85536-01-11 02:53 G	32962451.41	32962451.62	32962451.84	0.0136	0.0014
Venus	85536-08-24 08:24 G	32962677.66	32962677.85	32962678.07	0.0136	0.0045
Venus	85537-04-07 13:56 G	32962903.92	32962904.08	32962904.28	0.0136	0.0075
Venus	85537-11-19 19:27 G	32963130.19	32963130.31	32963130.46	0.0135	0.0105
Venus	85538-07-04 00:58 G	32963356.52	32963356.54	32963356.58	0.0135	0.0134
Mercury	85545-01-23 18:29 G	32965752.23	32965752.27	32965752.33	0.0134	0.0129
Mercury	85545-04-22 00:58 G	32965840.44	32965840.54	32965840.67	0.0134	0.0104
Mercury	85545-07-19 07:27 G	32965928.68	32965928.81	32965928.97	0.0134	0.0079
Mercury	85545-10-15 13:56 G	32966016.93	32966017.08	32966017.26	0.0134	0.0054
Mercury	85546-01-11 20:39 G	32966105.18	32966105.36	32966105.54	0.0134	0.0028
Mercury	85546-04-10 02:53 G	32966193.44	32966193.62	32966193.81	0.0134	0.0004
Mercury	85546-07-07 09:22 G	32966281.71	32966281.89	32966282.07	0.0134	0.0022
Mercury	85546-10-03 15:22 G	32966369.98	32966370.14	32966370.32	0.0134	0.0046
Mercury	85546-12-30 21:36 G	32966458.26	32966458.40	32966458.56	0.0134	0.0071
Mercury	85547-03-29 03:51 G	32966546.54	32966546.66	32966546.79	0.0134	0.0094
Mercury	85547-06-25 09:51 G	32966634.84	32966634.91	32966635.00	0.0134	0.0119
Mars	85553-04-15 06:15 G	32968755.50	32968755.76	32968756.05	0.0135	0.0053
Earth	85569-05-12 17:03 G	32974627.03	32974627.21	32974627.40	0.0139	0.0092
Moon	85569-05-12 18:00 G	32974627.08	32974627.25	32974627.45	0.0139	0.0089 *
Moon	85570-05-17 07:12 G	32974996.54	32974996.80	32974997.05	0.0139	0.0031
Earth	85570-05-17 07:27 G	32974996.57	32974996.81	32974997.06	0.0139	0.0032 *
Earth	85571-05-21 22:48 G	32975366.21	32975366.45	32975366.70	0.0139	0.0030
Moon	85571-05-21 23:32 G	32975366.24	32975366.48	32975366.72	0.0139	0.0026 *
Earth	85572-05-25 14:39 G	32975735.94	32975736.11	32975736.32	0.0140	0.0092
Moon	85572-05-25 15:08 G	32975735.96	32975736.13	32975736.33	0.0140	0.0098 *
Venus	85576-11-30 09:22 G	32977385.81	32977385.89	32977386.00	0.0141	0.0127

Venus	85577-07-14 20:39 G	32977612.20	32977612.36	32977612.53	0.0142	0.0092
Venus	85578-02-26 07:56 G	32977838.63	32977838.83	32977839.03	0.0142	0.0057
Venus	85578-10-10 19:12 G	32978065.09	32978065.30	32978065.53	0.0142	0.0022
Venus	85579-05-25 06:58 G	32978291.57	32978291.79	32978292.01	0.0142	0.0014
Venus	85580-01-06 18:29 G	32978518.07	32978518.27	32978518.48	0.0142	0.0050
Venus	85580-08-20 06:00 G	32978744.59	32978744.75	32978744.94	0.0142	0.0087
Venus	85581-04-03 18:29 G	32978971.16	32978971.27	32978971.38	0.0143	0.0122
Mercury	85587-01-26 06:29 G	32981094.75	32981094.77	32981094.80	0.0144	0.0140
Mercury	85587-04-24 10:20 G	32981182.86	32981182.93	32981183.01	0.0144	0.0118
Mercury	85587-07-21 14:10 G	32981271.00	32981271.09	32981271.20	0.0144	0.0095
Mercury	85587-10-17 18:15 G	32981359.14	32981359.26	32981359.38	0.0144	0.0073
Mercury	85588-01-13 22:05 G	32981447.29	32981447.42	32981447.55	0.0144	0.0050
Mercury	85588-04-11 01:56 G	32981535.45	32981535.58	32981535.72	0.0144	0.0028
Mercury	85588-07-08 06:00 G	32981623.61	32981623.75	32981623.89	0.0144	0.0005
Mercury	85588-10-04 10:05 G	32981711.78	32981711.92	32981712.06	0.0144	0.0019
Mercury	85588-12-31 13:56 G	32981799.95	32981800.08	32981800.22	0.0144	0.0042
Mercury	85589-03-29 18:00 G	32981888.13	32981888.25	32981888.38	0.0144	0.0066
Mercury	85589-06-25 22:05 G	32981976.31	32981976.42	32981976.53	0.0144	0.0089
Mercury	85589-09-22 02:10 G	32982064.51	32982064.59	32982064.68	0.0144	0.0112
Mercury	85589-12-19 06:15 G	32982152.72	32982152.76	32982152.81	0.0144	0.0136
Mars	85593-10-24 11:32 G	32983557.74	32983557.98	32983558.26	0.0144	0.0086
Earth	85608-11-11 19:12 G	32989055.24	32989055.30	32989055.41	0.0140	0.0132
Moon	85608-11-11 20:39 G	32989055.25	32989055.36	32989055.48	0.0140	0.0125 *
Moon	85609-11-16 11:46 G	32989424.80	32989424.99	32989425.21	0.0139	0.0076
Earth	85609-11-16 12:58 G	32989424.84	32989425.04	32989425.28	0.0139	0.0070 *
Earth	85610-11-21 06:00 G	32989794.50	32989794.75	32989795.01	0.0139	0.0008
Moon	85610-11-21 08:10 G	32989794.58	32989794.84	32989795.11	0.0139	0.0002 *
Moon	85611-11-25 19:56 G	32990164.11	32990164.33	32990164.57	0.0139	0.0049
Earth	85611-11-25 21:51 G	32990164.18	32990164.41	32990164.65	0.0139	0.0054 *
Earth	85612-11-29 12:58 G	32990533.91	32990534.04	32990534.20	0.0138	0.0114

Moon	85612-11-29 15:36 G	32990534.02	32990534.15	32990534.32	0.0138	0.0113 *
Venus	85617-03-19 12:00 G	32992104.91	32992105.00	32992105.10	0.0137	0.0122
Venus	85617-10-31 18:15 G	32992331.11	32992331.26	32992331.43	0.0137	0.0092
Venus	85618-06-15 00:44 G	32992557.34	32992557.53	32992557.72	0.0136	0.0061
Venus	85619-01-27 06:44 G	32992783.57	32992783.78	32992783.99	0.0136	0.0030
Venus	85619-09-10 12:44 G	32993009.81	32993010.03	32993010.24	0.0136	0.0001
Venus	85620-04-23 18:15 G	32993236.06	32993236.26	32993236.48	0.0136	0.0031
Venus	85620-12-06 00:00 G	32993462.31	32993462.50	32993462.70	0.0136	0.0061
Venus	85621-07-20 05:17 G	32993688.58	32993688.72	32993688.89	0.0136	0.0091
Venus	85622-03-03 11:03 G	32993914.86	32993914.96	32993915.06	0.0135	0.0120
Mercury	85629-02-13 01:41 G	32996453.50	32996453.57	32996453.65	0.0134	0.0121
Mercury	85629-05-12 08:10 G	32996541.72	32996541.84	32996541.97	0.0134	0.0096
Mercury	85629-08-08 14:39 G	32996629.96	32996630.11	32996630.27	0.0134	0.0071
Mercury	85629-11-04 21:08 G	32996718.21	32996718.38	32996718.56	0.0134	0.0046
Mercury	85630-02-01 03:36 G	32996806.47	32996806.65	32996806.83	0.0134	0.0021
Mercury	85630-04-30 10:05 G	32996894.74	32996894.92	32996895.10	0.0134	0.0004
Mercury	85630-07-27 16:20 G	32996983.00	32996983.18	32996983.36	0.0134	0.0029
Mercury	85630-10-23 22:20 G	32997071.28	32997071.43	32997071.61	0.0134	0.0054
Mercury	85631-01-20 04:48 G	32997159.55	32997159.70	32997159.85	0.0134	0.0077
Mercury	85631-04-18 10:48 G	32997247.84	32997247.95	32997248.08	0.0134	0.0102
Mercury	85631-07-15 17:03 G	32997336.15	32997336.21	32997336.28	0.0134	0.0125
Saturn	85633-07-09 18:44 G	32998060.70	32998061.28	32998061.89	0.0134	0.0012
Mars	85636-01-08 07:56 G	32998973.67	32998973.83	32998974.04	0.0134	0.0106
Earth	85653-05-13 01:56 G	33005308.39	33005308.58	33005308.78	0.0139	0.0088
Moon	85653-05-13 03:22 G	33005308.47	33005308.64	33005308.83	0.0139	0.0092 *
Moon	85654-05-17 14:53 G	33005677.86	33005678.12	33005678.37	0.0139	0.0026
Earth	85654-05-17 16:34 G	33005677.94	33005678.19	33005678.44	0.0139	0.0028 *
Earth	85655-05-22 07:41 G	33006047.58	33006047.82	33006048.07	0.0139	0.0034
Moon	85655-05-22 08:24 G	33006047.62	33006047.85	33006048.09	0.0139	0.0038 *
Moon	85656-05-25 22:34 G	33006417.26	33006417.44	33006417.66	0.0140	0.0090

Earth	85656-05-25 23:46 G	33006417.31	33006417.49	33006417.68	0.0140	0.0096 *
Venus	85661-03-14 01:56 G	33008170.45	33008170.58	33008170.73	0.0141	0.0109
Venus	85661-10-26 13:12 G	33008396.86	33008397.05	33008397.24	0.0142	0.0074
Venus	85662-06-10 00:15 G	33008623.31	33008623.51	33008623.73	0.0142	0.0039
Venus	85663-01-22 11:46 G	33008849.77	33008849.99	33008850.21	0.0142	0.0004
Venus	85663-09-05 23:17 G	33009076.26	33009076.47	33009076.69	0.0142	0.0032
Venus	85664-04-19 10:48 G	33009302.77	33009302.95	33009303.16	0.0142	0.0069
Venus	85664-12-01 22:34 G	33009529.31	33009529.44	33009529.61	0.0143	0.0105
Venus	85665-07-16 10:34 G	33009755.91	33009755.94	33009755.99	0.0143	0.0140
Mercury	85671-02-15 13:27 G	33011796.02	33011796.06	33011796.10	0.0144	0.0136
Mercury	85671-05-14 17:03 G	33011884.14	33011884.21	33011884.30	0.0144	0.0114
Mercury	85671-08-10 20:53 G	33011972.28	33011972.37	33011972.49	0.0144	0.0092
Mercury	85671-11-07 00:58 G	33012060.42	33012060.54	33012060.66	0.0144	0.0069
Mercury	85672-02-03 05:03 G	33012148.58	33012148.71	33012148.84	0.0144	0.0046
Mercury	85672-05-01 08:53 G	33012236.74	33012236.87	33012237.01	0.0144	0.0023
Mercury	85672-07-28 12:58 G	33012324.90	33012325.04	33012325.17	0.0144	0.0003
Mercury	85672-10-24 16:48 G	33012413.07	33012413.20	33012413.34	0.0144	0.0023
Mercury	85673-01-20 20:53 G	33012501.24	33012501.37	33012501.50	0.0144	0.0046
Mercury	85673-04-19 00:44 G	33012589.42	33012589.53	33012589.66	0.0144	0.0070
Mercury	85673-07-16 04:48 G	33012677.60	33012677.70	33012677.81	0.0144	0.0093
Mercury	85673-10-12 08:53 G	33012765.80	33012765.87	33012765.96	0.0144	0.0116
Mercury	85674-01-08 12:58 G	33012854.02	33012854.04	33012854.08	0.0144	0.0140
Mars	85678-06-20 02:10 G	33014477.30	33014477.59	33014477.91	0.0144	0.0047
Earth	85692-11-12 01:56 G	33019736.50	33019736.58	33019736.70	0.0140	0.0129
Moon	85692-11-12 02:24 G	33019736.53	33019736.60	33019736.69	0.0140	0.0133 *
Moon	85693-11-16 18:58 G	33020106.08	33020106.29	33020106.53	0.0139	0.0059
Earth	85693-11-16 19:56 G	33020106.11	33020106.33	33020106.56	0.0139	0.0066 *
Earth	85694-11-21 12:44 G	33020475.78	33020476.03	33020476.29	0.0139	0.0005
Moon	85694-11-21 13:41 G	33020475.81	33020476.07	33020476.34	0.0139	0.0011 *
Moon	85695-11-26 03:08 G	33020845.41	33020845.63	33020845.86	0.0139	0.0062

Earth	85695-11-26 05:03 G	33020845.48	33020845.71	33020845.94	0.0139	0.0057 *
Earth	85696-11-29 20:10 G	33021215.22	33021215.34	33021215.49	0.0138	0.0117
Moon	85696-11-29 22:05 G	33021215.28	33021215.42	33021215.57	0.0138	0.0115 *
Venus	85701-07-02 02:10 G	33022889.47	33022889.59	33022889.74	0.0137	0.0107
Venus	85702-02-13 08:39 G	33023115.69	33023115.86	33023116.05	0.0137	0.0076
Venus	85702-09-27 14:53 G	33023341.93	33023342.12	33023342.33	0.0136	0.0045
Venus	85703-05-11 21:08 G	33023568.17	33023568.38	33023568.59	0.0136	0.0015
Venus	85703-12-24 02:53 G	33023794.41	33023794.62	33023794.84	0.0136	0.0016
Venus	85704-08-06 08:24 G	33024020.66	33024020.85	33024021.06	0.0136	0.0046
Venus	85705-03-20 14:10 G	33024246.91	33024247.09	33024247.27	0.0136	0.0076
Venus	85705-11-01 19:41 G	33024473.19	33024473.32	33024473.46	0.0136	0.0106
Venus	85706-06-16 01:12 G	33024699.54	33024699.55	33024699.57	0.0135	0.0135
Mercury	85713-03-06 08:24 G	33027154.76	33027154.85	33027154.95	0.0134	0.0116
Mercury	85713-06-02 14:53 G	33027242.99	33027243.12	33027243.26	0.0134	0.0090
Mercury	85713-08-29 21:22 G	33027331.24	33027331.39	33027331.56	0.0134	0.0065
Mercury	85713-11-26 03:51 G	33027419.49	33027419.66	33027419.84	0.0134	0.0040
Mercury	85714-02-22 10:20 G	33027507.75	33027507.93	33027508.11	0.0134	0.0015
Mercury	85714-05-21 16:34 G	33027596.01	33027596.19	33027596.38	0.0134	0.0011
Mercury	85714-08-17 23:03 G	33027684.28	33027684.46	33027684.63	0.0134	0.0034
Mercury	85714-11-14 05:03 G	33027772.56	33027772.71	33027772.88	0.0134	0.0059
Mercury	85715-02-10 11:17 G	33027860.84	33027860.97	33027861.12	0.0134	0.0083
Mercury	85715-05-09 17:32 G	33027949.13	33027949.23	33027949.34	0.0134	0.0107
Mercury	85715-08-05 23:32 G	33028037.46	33028037.48	33028037.53	0.0134	0.0132
Mars	85720-09-02 18:29 G	33029891.97	33029892.27	33029892.57	0.0135	0.0002
Earth	85737-05-14 11:46 G	33035989.81	33035989.99	33035990.21	0.0139	0.0084
Moon	85737-05-14 14:10 G	33035989.90	33035990.09	33035990.31	0.0139	0.0079 *
Moon	85738-05-19 00:58 G	33036359.29	33036359.54	33036359.80	0.0139	0.0023
Earth	85738-05-19 02:39 G	33036359.37	33036359.61	33036359.87	0.0139	0.0023 *
Earth	85739-05-23 17:46 G	33036729.01	33036729.24	33036729.49	0.0139	0.0040
Moon	85739-05-23 19:41 G	33036729.09	33036729.32	33036729.56	0.0139	0.0037 *

Moon	85740-05-27 08:39 G	33037098.71	33037098.86	33037099.05	0.0140	0.0108
Earth	85740-05-27 09:51 G	33037098.75	33037098.91	33037099.10	0.0140	0.0102 *
Venus	85744-11-12 08:24 G	33038728.75	33038728.85	33038728.95	0.0141	0.0125
Venus	85745-06-26 18:58 G	33038955.14	33038955.29	33038955.48	0.0141	0.0091
Venus	85746-02-08 06:15 G	33039181.57	33039181.76	33039181.97	0.0142	0.0056
Venus	85746-09-22 17:46 G	33039408.02	33039408.24	33039408.46	0.0142	0.0020
Venus	85747-05-07 05:17 G	33039634.50	33039634.72	33039634.94	0.0142	0.0015
Venus	85747-12-19 16:34 G	33039860.99	33039861.19	33039861.40	0.0142	0.0051
Venus	85748-08-02 04:20 G	33040087.51	33040087.68	33040087.86	0.0142	0.0087
Venus	85749-03-16 15:51 G	33040314.07	33040314.16	33040314.29	0.0143	0.0123
Mercury	85755-03-08 20:10 G	33042497.30	33042497.34	33042497.40	0.0144	0.0131
Mercury	85755-06-05 00:15 G	33042585.42	33042585.51	33042585.60	0.0144	0.0109
Mercury	85755-09-01 04:05 G	33042673.56	33042673.67	33042673.78	0.0144	0.0086
Mercury	85755-11-28 07:56 G	33042761.71	33042761.83	33042761.96	0.0144	0.0064
Mercury	85756-02-24 11:46 G	33042849.87	33042849.99	33042850.13	0.0144	0.0042
Mercury	85756-05-22 15:51 G	33042938.03	33042938.16	33042938.30	0.0144	0.0019
Mercury	85756-08-18 19:56 G	33043026.19	33043026.33	33043026.46	0.0144	0.0006
Mercury	85756-11-14 23:46 G	33043114.36	33043114.49	33043114.63	0.0144	0.0028
Mercury	85757-02-11 03:51 G	33043202.53	33043202.66	33043202.79	0.0144	0.0051
Mercury	85757-05-10 07:56 G	33043290.71	33043290.83	33043290.95	0.0144	0.0074
Mercury	85757-08-06 11:46 G	33043378.89	33043378.99	33043379.10	0.0144	0.0098
Mercury	85757-11-02 15:51 G	33043467.09	33043467.16	33043467.24	0.0144	0.0121
Moon	85776-11-13 08:53 G	33050417.75	33050417.87	33050418.01	0.0140	0.0121
Earth	85776-11-13 09:08 G	33050417.79	33050417.88	33050418.01	0.0140	0.0126 *
Earth	85777-11-18 02:53 G	33050787.41	33050787.62	33050787.86	0.0139	0.0064
Moon	85777-11-18 03:08 G	33050787.43	33050787.63	33050787.86	0.0139	0.0070 *
Earth	85778-11-22 20:24 G	33051157.09	33051157.35	33051157.60	0.0139	0.0002
Moon	85778-11-22 21:08 G	33051157.11	33051157.38	33051157.64	0.0139	0.0007 *
Moon	85779-11-27 12:15 G	33051526.78	33051527.01	33051527.23	0.0139	0.0055
Earth	85779-11-27 12:44 G	33051526.80	33051527.03	33051527.26	0.0139	0.0061 *

Earth	85780-12-01 04:05 G	33051896.56	33051896.67	33051896.80	0.0138	0.0121
Moon	85780-12-01 05:46 G	33051896.62	33051896.74	33051896.86	0.0138	0.0123 *
Venus	85785-03-01 10:34 G	33053447.85	33053447.94	33053448.05	0.0137	0.0121
Venus	85785-10-13 17:03 G	33053674.06	33053674.21	33053674.38	0.0137	0.0091
Venus	85786-05-27 23:32 G	33053900.29	33053900.48	33053900.68	0.0137	0.0060
Venus	85787-01-09 05:32 G	33054126.52	33054126.73	33054126.94	0.0136	0.0029
Venus	85787-08-23 11:32 G	33054352.77	33054352.98	33054353.20	0.0136	0.0001
Venus	85788-04-05 17:17 G	33054579.01	33054579.22	33054579.43	0.0136	0.0032
Venus	85788-11-17 22:48 G	33054805.27	33054805.45	33054805.66	0.0136	0.0062
Venus	85789-07-02 04:20 G	33055031.54	33055031.68	33055031.86	0.0136	0.0092
Venus	85790-02-13 10:05 G	33055257.83	33055257.92	33055258.02	0.0136	0.0121
Mercury	85797-03-26 15:08 G	33057856.03	33057856.13	33057856.24	0.0134	0.0110
Mercury	85797-06-22 21:36 G	33057944.27	33057944.40	33057944.55	0.0134	0.0084
Mercury	85797-09-19 04:20 G	33058032.52	33058032.68	33058032.84	0.0134	0.0059
Mercury	85797-12-16 10:48 G	33058120.77	33058120.95	33058121.13	0.0134	0.0034
Mercury	85798-03-14 17:03 G	33058209.03	33058209.21	33058209.40	0.0134	0.0009
Mercury	85798-06-10 23:32 G	33058297.30	33058297.48	33058297.66	0.0134	0.0016
Mercury	85798-09-07 05:46 G	33058385.57	33058385.74	33058385.92	0.0134	0.0041
Mercury	85798-12-04 12:00 G	33058473.85	33058474.00	33058474.16	0.0134	0.0065
Mercury	85799-03-02 18:15 G	33058562.13	33058562.26	33058562.40	0.0134	0.0090
Mercury	85799-05-30 00:29 G	33058650.43	33058650.52	33058650.62	0.0134	0.0114
Mars	85805-04-29 05:17 G	33060810.54	33060810.72	33060810.92	0.0135	0.0103
Moon	85820-05-11 06:29 G	33066301.71	33066301.77	33066301.87	0.0138	0.0131
Earth	85820-05-11 09:36 G	33066301.89	33066301.90	33066301.93	0.0138	0.0138
Earth	85821-05-15 23:17 G	33066671.27	33066671.47	33066671.69	0.0139	0.0078
Moon	85821-05-16 01:41 G	33066671.39	33066671.57	33066671.78	0.0139	0.0083 *
Moon	85822-05-20 11:17 G	33067040.72	33067040.97	33067041.23	0.0139	0.0014
Earth	85822-05-20 13:56 G	33067040.84	33067041.08	33067041.34	0.0139	0.0017 *
Earth	85823-05-25 05:17 G	33067410.49	33067410.72	33067410.97	0.0139	0.0046
Moon	85823-05-25 07:12 G	33067410.58	33067410.80	33067411.04	0.0139	0.0049 *

Moon	85824-05-28 19:12 G	33067780.14	33067780.30	33067780.49	0.0140	0.0103
Earth	85824-05-28 21:36 G	33067780.24	33067780.40	33067780.56	0.0140	0.0108 *
Venus	85828-07-13 15:36 G	33069287.13	33069287.15	33069287.19	0.0141	0.0139
Venus	85829-02-25 02:24 G	33069513.47	33069513.60	33069513.76	0.0141	0.0106
Venus	85829-10-09 13:41 G	33069739.88	33069740.07	33069740.27	0.0142	0.0071
Venus	85830-05-24 00:58 G	33069966.33	33069966.54	33069966.76	0.0142	0.0035
Venus	85831-01-05 12:15 G	33070192.79	33070193.01	33070193.23	0.0142	0.0002
Venus	85831-08-19 23:46 G	33070419.28	33070419.49	33070419.70	0.0142	0.0035
Venus	85832-04-02 11:17 G	33070645.79	33070645.97	33070646.17	0.0142	0.0071
Venus	85832-11-14 23:03 G	33070872.32	33070872.46	33070872.61	0.0142	0.0107
Venus	85833-06-29 10:48 G	33071098.95	33071098.95	33071098.97	0.0143	0.0143
Jupiter	85836-12-22 06:29 G	33072370.27	33072370.77	33072371.28	0.0143	0.0026
Mercury	85839-03-30 03:36 G	33073198.59	33073198.65	33073198.72	0.0144	0.0124
Mercury	85839-06-26 07:41 G	33073286.73	33073286.82	33073286.91	0.0144	0.0102
Mercury	85839-09-22 11:32 G	33073374.87	33073374.98	33073375.09	0.0144	0.0080
Mercury	85839-12-19 15:22 G	33073463.02	33073463.14	33073463.27	0.0144	0.0057
Mercury	85840-03-16 19:12 G	33073551.17	33073551.30	33073551.44	0.0144	0.0035
Mercury	85840-06-12 23:17 G	33073639.33	33073639.47	33073639.61	0.0144	0.0012
Mercury	85840-09-09 03:08 G	33073727.50	33073727.63	33073727.77	0.0144	0.0012
Mercury	85840-12-06 07:12 G	33073815.67	33073815.80	33073815.93	0.0144	0.0034
Mercury	85841-03-04 11:03 G	33073903.84	33073903.96	33073904.09	0.0144	0.0058
Mercury	85841-05-31 15:08 G	33073992.02	33073992.13	33073992.25	0.0144	0.0081
Mercury	85841-08-27 19:12 G	33074080.21	33074080.30	33074080.40	0.0144	0.0104
Mercury	85841-11-23 23:17 G	33074168.41	33074168.47	33074168.54	0.0144	0.0128
Mars	85845-11-06 18:00 G	33075611.94	33075612.25	33075612.56	0.0144	0.0034
Moon	85860-11-14 16:05 G	33081099.07	33081099.17	33081099.31	0.0140	0.0125
Earth	85860-11-14 17:32 G	33081099.12	33081099.23	33081099.37	0.0140	0.0122 *
Earth	85861-11-19 11:17 G	33081468.75	33081468.97	33081469.21	0.0139	0.0059
Moon	85861-11-19 12:00 G	33081468.78	33081469.00	33081469.24	0.0139	0.0052 *
Moon	85862-11-24 04:05 G	33081838.40	33081838.67	33081838.93	0.0139	0.0004

Earth	85862-11-24 04:34 G	33081838.44	33081838.69	33081838.95	0.0139	0.0004	*
Moon	85863-11-28 20:10 G	33082208.15	33082208.34	33082208.57	0.0139	0.0072	
Earth	85863-11-28 20:39 G	33082208.15	33082208.36	33082208.60	0.0139	0.0066	*
Moon	85864-12-02 12:15 G	33082577.91	33082578.01	33082578.16	0.0138	0.0122	
Earth	85864-12-02 12:00 G	33082577.92	33082578.00	33082578.13	0.0138	0.0127	*
Venus	85868-10-30 18:44 G	33084006.27	33084006.28	33084006.32	0.0137	0.0136	
Venus	85869-06-14 01:27 G	33084232.43	33084232.56	33084232.70	0.0137	0.0105	
Venus	85870-01-26 07:41 G	33084458.65	33084458.82	33084459.01	0.0137	0.0075	
Venus	85870-09-09 13:56 G	33084684.88	33084685.08	33084685.29	0.0136	0.0044	
Venus	85871-04-23 19:56 G	33084911.12	33084911.33	33084911.55	0.0136	0.0014	
Venus	85871-12-06 01:56 G	33085137.37	33085137.58	33085137.79	0.0136	0.0017	
Venus	85872-07-19 07:27 G	33085363.62	33085363.81	33085364.02	0.0136	0.0047	
Venus	85873-03-02 13:12 G	33085589.88	33085590.05	33085590.23	0.0136	0.0077	
Venus	85873-10-14 18:44 G	33085816.16	33085816.28	33085816.43	0.0136	0.0107	
Mercury	85881-01-18 15:08 G	33088469.09	33088469.13	33088469.18	0.0135	0.0130	
Mercury	85881-04-16 21:36 G	33088557.30	33088557.40	33088557.53	0.0135	0.0104	
Mercury	85881-07-14 04:20 G	33088645.54	33088645.68	33088645.83	0.0135	0.0079	
Mercury	85881-10-10 10:48 G	33088733.79	33088733.95	33088734.12	0.0135	0.0054	
Mercury	85882-01-06 17:17 G	33088822.05	33088822.22	33088822.40	0.0135	0.0028	
Mercury	85882-04-04 23:46 G	33088910.31	33088910.49	33088910.67	0.0135	0.0003	
Mercury	85882-07-02 06:00 G	33088998.58	33088998.75	33088998.93	0.0135	0.0022	
Mercury	85882-09-28 12:15 G	33089086.85	33089087.01	33089087.19	0.0135	0.0047	
Mercury	85882-12-25 18:44 G	33089175.13	33089175.28	33089175.43	0.0134	0.0071	
Mercury	85883-03-24 00:58 G	33089263.41	33089263.54	33089263.67	0.0134	0.0095	
Mercury	85883-06-20 07:12 G	33089351.72	33089351.80	33089351.88	0.0134	0.0119	
Mars	85888-01-22 06:58 G	33091028.53	33091028.79	33091029.07	0.0135	0.0056	
Earth	85904-05-12 20:24 G	33096983.29	33096983.35	33096983.44	0.0138	0.0132	
Earth	85905-05-17 10:20 G	33097352.73	33097352.93	33097353.16	0.0139	0.0073	
Moon	85905-05-17 13:27 G	33097352.85	33097353.06	33097353.29	0.0139	0.0067	*
Moon	85906-05-21 22:34 G	33097722.19	33097722.44	33097722.71	0.0139	0.0013	

Earth	85906-05-22 01:27 G	33097722.31	33097722.56	33097722.81	0.0139	0.0011	*
Earth	85907-05-26 16:34 G	33098091.96	33098092.19	33098092.43	0.0139	0.0052	
Moon	85907-05-26 19:27 G	33098092.08	33098092.31	33098092.55	0.0139	0.0051	*
Moon	85908-05-30 06:44 G	33098461.65	33098461.78	33098461.92	0.0140	0.0119	
Earth	85908-05-30 08:24 G	33098461.73	33098461.85	33098462.02	0.0140	0.0115	*
Venus	85912-10-26 09:51 G	33100071.82	33100071.91	33100072.05	0.0141	0.0121	
Venus	85913-06-09 21:08 G	33100298.21	33100298.38	33100298.56	0.0141	0.0086	
Venus	85914-01-22 08:10 G	33100524.64	33100524.84	33100525.05	0.0142	0.0051	
Venus	85914-09-05 19:27 G	33100751.10	33100751.31	33100751.54	0.0142	0.0016	
Venus	85915-04-20 07:12 G	33100977.58	33100977.80	33100978.02	0.0142	0.0020	
Venus	85915-12-02 18:44 G	33101204.08	33101204.28	33101204.48	0.0142	0.0055	
Venus	85916-07-16 06:00 G	33101430.60	33101430.75	33101430.94	0.0142	0.0092	
Venus	85917-02-27 18:00 G	33101657.16	33101657.25	33101657.36	0.0142	0.0127	
Mercury	85923-01-22 07:27 G	33103811.79	33103811.81	33103811.85	0.0143	0.0139	
Mercury	85923-04-20 11:17 G	33103899.90	33103899.97	33103900.05	0.0144	0.0117	
Mercury	85923-07-17 15:08 G	33103988.03	33103988.13	33103988.24	0.0144	0.0094	
Mercury	85923-10-13 19:12 G	33104076.18	33104076.30	33104076.41	0.0144	0.0072	
Mercury	85924-01-09 23:03 G	33104164.33	33104164.46	33104164.59	0.0144	0.0049	
Mercury	85924-04-07 02:53 G	33104252.49	33104252.62	33104252.76	0.0144	0.0027	
Mercury	85924-07-04 06:44 G	33104340.65	33104340.78	33104340.92	0.0144	0.0006	
Mercury	85924-09-30 10:48 G	33104428.81	33104428.95	33104429.09	0.0144	0.0019	
Mercury	85924-12-27 14:39 G	33104516.98	33104517.11	33104517.25	0.0144	0.0042	
Mercury	85925-03-25 18:44 G	33104605.16	33104605.28	33104605.41	0.0144	0.0065	
Mercury	85925-06-21 22:34 G	33104693.34	33104693.44	33104693.56	0.0144	0.0089	
Mercury	85925-09-18 02:39 G	33104781.53	33104781.61	33104781.70	0.0144	0.0112	
Mercury	85925-12-15 06:44 G	33104869.74	33104869.78	33104869.83	0.0144	0.0135	
Mars	85930-07-04 18:58 G	33106532.10	33106532.29	33106532.53	0.0143	0.0107	
Moon	85944-11-16 01:41 G	33111780.43	33111780.57	33111780.73	0.0140	0.0114	
Earth	85944-11-16 03:22 G	33111780.53	33111780.64	33111780.80	0.0140	0.0118	*
Earth	85945-11-20 21:08 G	33112150.16	33112150.38	33112150.63	0.0139	0.0055	

Moon	85945-11-20 22:48 G	33112150.24	33112150.45	33112150.68	0.0139	0.0060 *
Moon	85946-11-25 13:56 G	33112519.82	33112520.08	33112520.34	0.0139	0.0016
Earth	85946-11-25 14:39 G	33112519.86	33112520.11	33112520.36	0.0139	0.0009 *
Earth	85947-11-30 06:44 G	33112889.57	33112889.78	33112890.01	0.0138	0.0071
Moon	85947-11-30 07:27 G	33112889.61	33112889.81	33112890.04	0.0138	0.0065 *
Earth	85948-12-03 22:05 G	33113259.36	33113259.42	33113259.51	0.0138	0.0132
Moon	85948-12-03 22:20 G	33113259.38	33113259.43	33113259.50	0.0138	0.0134 *
Venus	85953-02-12 10:20 G	33114790.84	33114790.93	33114791.05	0.0137	0.0119
Venus	85953-09-26 16:48 G	33115017.05	33115017.20	33115017.38	0.0137	0.0089
Venus	85954-05-10 23:17 G	33115243.28	33115243.47	33115243.67	0.0137	0.0058
Venus	85954-12-23 05:17 G	33115469.51	33115469.72	33115469.93	0.0136	0.0027
Venus	85955-08-06 11:17 G	33115695.75	33115695.97	33115696.18	0.0136	0.0003
Venus	85956-03-19 17:03 G	33115922.00	33115922.21	33115922.42	0.0136	0.0033
Venus	85956-10-31 22:48 G	33116148.27	33116148.45	33116148.65	0.0136	0.0063
Venus	85957-06-15 04:20 G	33116374.54	33116374.68	33116374.85	0.0136	0.0093
Venus	85958-01-27 09:36 G	33116600.83	33116600.90	33116601.01	0.0136	0.0123
Mercury	85965-02-08 21:51 G	33119170.35	33119170.41	33119170.49	0.0135	0.0124
Mercury	85965-05-08 04:34 G	33119258.57	33119258.69	33119258.82	0.0135	0.0098
Mercury	85965-08-04 11:03 G	33119346.81	33119346.96	33119347.12	0.0135	0.0073
Mercury	85965-10-31 17:32 G	33119435.07	33119435.23	33119435.41	0.0135	0.0048
Mercury	85966-01-28 00:00 G	33119523.33	33119523.50	33119523.69	0.0135	0.0023
Mercury	85966-04-26 06:29 G	33119611.59	33119611.77	33119611.96	0.0135	0.0004
Mercury	85966-07-23 12:58 G	33119699.86	33119700.04	33119700.22	0.0135	0.0028
Mercury	85966-10-19 19:12 G	33119788.14	33119788.30	33119788.47	0.0135	0.0052
Mercury	85967-01-16 01:27 G	33119876.42	33119876.56	33119876.71	0.0134	0.0077
Mercury	85967-04-14 07:27 G	33119964.71	33119964.81	33119964.94	0.0134	0.0101
Mercury	85967-07-11 13:41 G	33120053.02	33120053.07	33120053.15	0.0134	0.0125
Mars	85972-09-16 16:34 G	33121946.93	33121947.19	33121947.49	0.0135	0.0049
Moon	85988-05-13 03:08 G	33127664.52	33127664.63	33127664.77	0.0138	0.0121
Earth	85988-05-13 06:15 G	33127664.69	33127664.76	33127664.88	0.0138	0.0129 *

Earth	85989-05-17 20:53 G	33128034.15	33128034.37	33128034.59	0.0139	0.0067
Moon	85989-05-18 00:00 G	33128034.29	33128034.50	33128034.72	0.0139	0.0073 *
Moon	85990-05-22 08:10 G	33128403.59	33128403.84	33128404.10	0.0139	0.0002
Earth	85990-05-22 11:32 G	33128403.73	33128403.98	33128404.24	0.0139	0.0006 *
Earth	85991-05-27 02:39 G	33128773.39	33128773.61	33128773.86	0.0139	0.0058
Moon	85991-05-27 05:32 G	33128773.51	33128773.73	33128773.96	0.0139	0.0059 *
Moon	85992-05-30 15:36 G	33129143.03	33129143.15	33129143.31	0.0140	0.0116
Earth	85992-05-30 19:12 G	33129143.17	33129143.30	33129143.43	0.0140	0.0120 *
Venus	85996-06-25 16:48 G	33130630.15	33130630.20	33130630.27	0.0141	0.0135
Venus	85997-02-07 03:36 G	33130856.51	33130856.65	33130856.82	0.0141	0.0102
Venus	85997-09-21 14:53 G	33131082.93	33131083.12	33131083.32	0.0142	0.0067
Venus	85998-05-06 02:24 G	33131309.39	33131309.60	33131309.82	0.0142	0.0031
Venus	85998-12-18 13:41 G	33131535.86	33131536.07	33131536.30	0.0142	0.0005
Venus	85999-08-02 01:12 G	33131762.34	33131762.55	33131762.77	0.0142	0.0039
Venus	86000-03-15 12:44 G	33131988.86	33131989.03	33131989.23	0.0142	0.0076
Venus	86000-10-28 00:44 G	33132215.40	33132215.53	33132215.68	0.0142	0.0111

87TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 87th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	86007-02-11 14:53 G	33134513.08	33134513.12	33134513.18	0.0144	0.0132		
Mercury	86007-05-10 18:44 G	33134601.20	33134601.28	33134601.38	0.0144	0.0110		
Mercury	86007-08-06 22:34 G	33134689.34	33134689.44	33134689.56	0.0144	0.0088		

Mercury	86007-11-03 02:39 G	33134777.49	33134777.61	33134777.73	0.0144	0.0065
Mercury	86008-01-30 06:29 G	33134865.64	33134865.77	33134865.90	0.0144	0.0042
Mercury	86008-04-27 10:20 G	33134953.80	33134953.93	33134954.07	0.0144	0.0020
Mercury	86008-07-24 14:24 G	33135041.96	33135042.10	33135042.24	0.0144	0.0004
Mercury	86008-10-20 18:15 G	33135130.13	33135130.26	33135130.40	0.0144	0.0026
Mercury	86009-01-16 22:05 G	33135218.30	33135218.42	33135218.56	0.0144	0.0050
Mercury	86009-04-15 02:10 G	33135306.48	33135306.59	33135306.71	0.0144	0.0073
Mercury	86009-07-12 06:15 G	33135394.66	33135394.76	33135394.86	0.0144	0.0096
Mercury	86009-10-08 10:20 G	33135482.86	33135482.93	33135483.01	0.0144	0.0119
Mercury	86010-01-04 14:10 G	33135571.09	33135571.09	33135571.11	0.0144	0.0143
Mars	86013-03-25 19:12 G	33136747.09	33136747.30	33136747.53	0.0144	0.0104
Moon	86028-11-16 11:17 G	33142461.84	33142461.97	33142462.14	0.0139	0.0114
Earth	86028-11-16 13:56 G	33142461.94	33142462.08	33142462.24	0.0139	0.0112 *
Earth	86029-11-21 07:56 G	33142831.59	33142831.83	33142832.07	0.0139	0.0049
Moon	86029-11-21 09:36 G	33142831.67	33142831.90	33142832.14	0.0139	0.0043 *
Moon	86030-11-25 23:03 G	33143201.20	33143201.46	33143201.73	0.0139	0.0008
Earth	86030-11-26 00:58 G	33143201.29	33143201.54	33143201.80	0.0139	0.0014 *
Earth	86031-11-30 16:48 G	33143571.01	33143571.20	33143571.43	0.0138	0.0077
Moon	86031-11-30 17:32 G	33143571.06	33143571.23	33143571.45	0.0138	0.0084 *
Moon	86032-12-04 07:27 G	33143940.74	33143940.81	33143940.89	0.0138	0.0132
Earth	86032-12-04 08:10 G	33143940.83	33143940.84	33143940.89	0.0138	0.0138 *
Venus	86036-10-12 19:27 G	33145349.28	33145349.31	33145349.37	0.0137	0.0133
Venus	86037-05-27 01:41 G	33145575.45	33145575.57	33145575.73	0.0137	0.0103
Venus	86038-01-08 08:24 G	33145801.67	33145801.85	33145802.03	0.0137	0.0072
Venus	86038-08-22 14:24 G	33146027.90	33146028.10	33146028.31	0.0136	0.0041
Venus	86039-04-05 20:24 G	33146254.14	33146254.35	33146254.56	0.0136	0.0011
Venus	86039-11-18 02:24 G	33146480.39	33146480.60	33146480.81	0.0136	0.0019
Venus	86040-07-01 08:10 G	33146706.64	33146706.84	33146707.04	0.0136	0.0049
Venus	86041-02-12 13:41 G	33146932.90	33146933.07	33146933.25	0.0136	0.0079
Venus	86041-09-26 19:12 G	33147159.18	33147159.30	33147159.44	0.0136	0.0109

Mercury	86049-03-01 04:34 G	33149871.61	33149871.69	33149871.78	0.0135	0.0118
Mercury	86049-05-28 11:03 G	33149959.83	33149959.96	33149960.10	0.0134	0.0093
Mercury	86049-08-24 17:32 G	33150048.08	33150048.23	33150048.40	0.0134	0.0067
Mercury	86049-11-21 00:00 G	33150136.34	33150136.50	33150136.68	0.0134	0.0043
Mercury	86050-02-17 06:29 G	33150224.60	33150224.77	33150224.96	0.0134	0.0018
Mercury	86050-05-16 12:58 G	33150312.86	33150313.04	33150313.23	0.0134	0.0009
Mercury	86050-08-12 19:27 G	33150401.13	33150401.31	33150401.49	0.0134	0.0033
Mercury	86050-11-09 01:41 G	33150489.41	33150489.57	33150489.74	0.0134	0.0057
Mercury	86051-02-05 07:56 G	33150577.69	33150577.83	33150577.98	0.0134	0.0082
Mercury	86051-05-04 14:10 G	33150665.99	33150666.09	33150666.20	0.0134	0.0106
Mercury	86051-07-31 20:10 G	33150754.31	33150754.34	33150754.40	0.0134	0.0130
Mars	86055-06-11 18:58 G	33152165.15	33152165.29	33152165.49	0.0135	0.0110
Moon	86072-05-13 11:03 G	33158345.92	33158345.96	33158346.06	0.0138	0.0133
Earth	86072-05-13 15:22 G	33158346.04	33158346.14	33158346.26	0.0138	0.0124 *
Earth	86073-05-18 05:17 G	33158715.50	33158715.72	33158715.95	0.0139	0.0063
Moon	86073-05-18 08:39 G	33158715.64	33158715.86	33158716.10	0.0139	0.0057 *
Moon	86074-05-22 16:48 G	33159084.94	33159085.20	33159085.45	0.0139	0.0004
Earth	86074-05-22 20:10 G	33159085.09	33159085.34	33159085.59	0.0139	0.0001 *
Earth	86075-05-27 11:17 G	33159454.75	33159454.97	33159455.20	0.0140	0.0062
Moon	86075-05-27 14:24 G	33159454.89	33159455.10	33159455.34	0.0140	0.0063 *
Moon	86076-05-31 00:00 G	33159824.42	33159824.50	33159824.62	0.0140	0.0129
Earth	86076-05-31 03:08 G	33159824.54	33159824.63	33159824.76	0.0140	0.0125 *
Venus	86080-10-07 09:22 G	33161414.78	33161414.89	33161415.02	0.0141	0.0118
Venus	86081-05-21 20:39 G	33161641.19	33161641.36	33161641.54	0.0141	0.0083
Venus	86082-01-03 07:56 G	33161867.62	33161867.83	33161868.04	0.0142	0.0048
Venus	86082-08-17 19:12 G	33162094.08	33162094.30	33162094.52	0.0142	0.0013
Venus	86083-04-01 06:44 G	33162320.57	33162320.78	33162321.00	0.0142	0.0023
Venus	86083-11-13 18:15 G	33162547.07	33162547.26	33162547.47	0.0142	0.0058
Venus	86084-06-27 06:00 G	33162773.60	33162773.75	33162773.93	0.0142	0.0094
Venus	86085-02-08 18:00 G	33163000.17	33163000.25	33163000.35	0.0142	0.0129

Mercury	86091-03-03 22:05 G	33165214.36	33165214.42	33165214.49	0.0144	0.0127
Mercury	86091-05-31 01:56 G	33165302.49	33165302.58	33165302.68	0.0144	0.0104
Mercury	86091-08-27 05:46 G	33165390.63	33165390.74	33165390.85	0.0144	0.0082
Mercury	86091-11-23 09:36 G	33165478.78	33165478.90	33165479.03	0.0144	0.0060
Mercury	86092-02-19 13:27 G	33165566.93	33165567.06	33165567.20	0.0144	0.0038
Mercury	86092-05-17 17:32 G	33165655.09	33165655.23	33165655.37	0.0144	0.0014
Mercury	86092-08-13 21:22 G	33165743.25	33165743.39	33165743.53	0.0144	0.0009
Mercury	86092-11-10 01:12 G	33165831.42	33165831.55	33165831.69	0.0144	0.0032
Mercury	86093-02-06 05:17 G	33165919.59	33165919.72	33165919.85	0.0144	0.0055
Mercury	86093-05-05 09:08 G	33166007.77	33166007.88	33166008.00	0.0144	0.0078
Mercury	86093-08-01 13:12 G	33166095.96	33166096.05	33166096.15	0.0144	0.0101
Mercury	86093-10-28 17:17 G	33166184.16	33166184.22	33166184.29	0.0144	0.0124
Mars	86097-11-19 17:03 G	33167666.90	33167667.21	33167667.53	0.0143	0.0034
Moon	86112-11-17 20:53 G	33173143.22	33173143.37	33173143.56	0.0140	0.0106
Earth	86112-11-18 00:15 G	33173143.35	33173143.51	33173143.68	0.0140	0.0107 *
Earth	86113-11-22 18:00 G	33173513.01	33173513.25	33173513.49	0.0139	0.0043
Moon	86113-11-22 20:24 G	33173513.12	33173513.35	33173513.59	0.0139	0.0048 *
Moon	86114-11-27 09:08 G	33173882.63	33173882.88	33173883.14	0.0139	0.0027
Earth	86114-11-27 11:03 G	33173882.71	33173882.96	33173883.22	0.0139	0.0020 *
Earth	86115-12-02 02:53 G	33174252.43	33174252.62	33174252.84	0.0138	0.0083
Moon	86115-12-02 05:17 G	33174252.52	33174252.72	33174252.93	0.0138	0.0075 *
Venus	86121-01-25 11:17 G	33176133.86	33176133.97	33176134.08	0.0137	0.0116
Venus	86121-09-08 17:32 G	33176360.07	33176360.23	33176360.40	0.0137	0.0086
Venus	86122-04-22 23:46 G	33176586.30	33176586.49	33176586.69	0.0136	0.0055
Venus	86122-12-05 05:46 G	33176812.54	33176812.74	33176812.96	0.0136	0.0025
Venus	86123-07-19 11:46 G	33177038.78	33177038.99	33177039.21	0.0136	0.0006
Venus	86124-03-01 17:32 G	33177265.03	33177265.23	33177265.44	0.0136	0.0036
Venus	86124-10-13 23:32 G	33177491.29	33177491.48	33177491.67	0.0136	0.0065
Venus	86125-05-28 05:03 G	33177717.56	33177717.71	33177717.87	0.0136	0.0095
Venus	86126-01-09 10:20 G	33177943.86	33177943.93	33177944.03	0.0135	0.0124

Mercury	86133-03-22 11:03 G	33180572.87	33180572.96	33180573.07	0.0134	0.0112
Mercury	86133-06-18 17:46 G	33180661.11	33180661.24	33180661.39	0.0134	0.0087
Mercury	86133-09-15 00:15 G	33180749.35	33180749.51	33180749.68	0.0134	0.0062
Mercury	86133-12-12 06:44 G	33180837.61	33180837.78	33180837.96	0.0134	0.0037
Mercury	86134-03-10 13:27 G	33180925.87	33180926.06	33180926.24	0.0134	0.0012
Mercury	86134-06-06 19:41 G	33181014.14	33181014.32	33181014.50	0.0134	0.0014
Mercury	86134-09-03 01:56 G	33181102.41	33181102.58	33181102.76	0.0134	0.0039
Mercury	86134-11-30 08:10 G	33181190.69	33181190.84	33181191.01	0.0134	0.0063
Mercury	86135-02-26 14:24 G	33181278.98	33181279.10	33181279.25	0.0134	0.0088
Mercury	86135-05-25 20:39 G	33181367.27	33181367.36	33181367.47	0.0134	0.0112
Mars	86140-02-05 04:34 G	33183083.40	33183083.69	33183083.99	0.0134	0.0007
Moon	86156-05-14 19:27 G	33189027.18	33189027.31	33189027.47	0.0138	0.0114
Earth	86156-05-14 23:03 G	33189027.35	33189027.46	33189027.59	0.0138	0.0121 *
Earth	86157-05-19 12:44 G	33189396.81	33189397.03	33189397.27	0.0139	0.0060
Moon	86157-05-19 16:34 G	33189396.97	33189397.19	33189397.41	0.0139	0.0066 *
Moon	86158-05-23 23:46 G	33189766.24	33189766.49	33189766.74	0.0139	0.0008
Earth	86158-05-24 03:22 G	33189766.39	33189766.64	33189766.89	0.0139	0.0003 *
Earth	86159-05-28 18:15 G	33190136.05	33190136.26	33190136.50	0.0139	0.0066
Moon	86159-05-28 21:51 G	33190136.19	33190136.41	33190136.63	0.0139	0.0066 *
Moon	86160-06-01 06:29 G	33190505.68	33190505.77	33190505.90	0.0140	0.0126
Earth	86160-06-01 10:05 G	33190505.85	33190505.92	33190506.04	0.0140	0.0129 *
Venus	86164-06-07 13:56 G	33191973.03	33191973.08	33191973.16	0.0141	0.0135
Venus	86165-01-20 00:58 G	33192199.40	33192199.54	33192199.70	0.0141	0.0100
Venus	86165-09-03 12:15 G	33192425.82	33192426.01	33192426.21	0.0142	0.0066
Venus	86166-04-17 23:46 G	33192652.27	33192652.49	33192652.70	0.0142	0.0031
Venus	86166-11-30 11:03 G	33192878.74	33192878.96	33192879.19	0.0142	0.0005
Venus	86167-07-14 22:34 G	33193105.23	33193105.44	33193105.66	0.0142	0.0040
Venus	86168-02-26 10:05 G	33193331.75	33193331.92	33193332.12	0.0142	0.0076
Venus	86168-10-09 22:05 G	33193558.29	33193558.42	33193558.57	0.0142	0.0111
Mercury	86175-03-25 04:48 G	33195915.64	33195915.70	33195915.77	0.0144	0.0123

Mercury	86175-06-21 08:24 G	33196003.77	33196003.85	33196003.96	0.0144	0.0102
Mercury	86175-09-17 12:29 G	33196091.91	33196092.02	33196092.14	0.0144	0.0079
Mercury	86175-12-14 16:20 G	33196180.06	33196180.18	33196180.31	0.0144	0.0057
Mercury	86176-03-11 20:24 G	33196268.21	33196268.35	33196268.48	0.0144	0.0034
Mercury	86176-06-08 00:15 G	33196356.37	33196356.51	33196356.65	0.0144	0.0011
Mercury	86176-09-04 04:05 G	33196444.53	33196444.67	33196444.81	0.0144	0.0012
Mercury	86176-12-01 08:10 G	33196532.70	33196532.84	33196532.97	0.0144	0.0035
Mercury	86177-02-27 12:00 G	33196620.88	33196621.00	33196621.13	0.0144	0.0058
Mercury	86177-05-26 16:05 G	33196709.05	33196709.17	33196709.28	0.0144	0.0081
Mercury	86177-08-22 19:56 G	33196797.24	33196797.33	33196797.43	0.0144	0.0105
Mercury	86177-11-19 00:00 G	33196885.44	33196885.50	33196885.57	0.0144	0.0128
Moon	86196-11-18 05:17 G	33203824.54	33203824.72	33203824.89	0.0140	0.0103
Earth	86196-11-18 07:56 G	33203824.68	33203824.83	33203825.02	0.0140	0.0104 *
Earth	86197-11-23 02:10 G	33204194.35	33204194.59	33204194.84	0.0139	0.0039
Moon	86197-11-23 05:03 G	33204194.47	33204194.71	33204194.96	0.0139	0.0034 *
Moon	86198-11-27 16:20 G	33204563.93	33204564.18	33204564.45	0.0139	0.0018
Earth	86198-11-27 19:27 G	33204564.06	33204564.31	33204564.56	0.0139	0.0024 *
Earth	86199-12-02 11:03 G	33204933.78	33204933.96	33204934.18	0.0139	0.0087
Moon	86199-12-02 13:27 G	33204933.88	33204934.06	33204934.24	0.0139	0.0094 *
Venus	86204-09-25 19:27 G	33206692.26	33206692.31	33206692.38	0.0137	0.0131
Venus	86205-05-10 01:41 G	33206918.45	33206918.57	33206918.74	0.0137	0.0101
Venus	86205-12-22 08:24 G	33207144.67	33207144.85	33207145.03	0.0137	0.0070
Venus	86206-08-05 14:24 G	33207370.90	33207371.10	33207371.31	0.0136	0.0039
Venus	86207-03-19 20:24 G	33207597.14	33207597.35	33207597.57	0.0136	0.0010
Venus	86207-11-01 02:24 G	33207823.39	33207823.60	33207823.82	0.0136	0.0021
Venus	86208-06-14 08:10 G	33208049.65	33208049.84	33208050.05	0.0136	0.0051
Venus	86209-01-26 13:41 G	33208275.91	33208276.07	33208276.26	0.0136	0.0081
Venus	86209-09-09 19:27 G	33208502.20	33208502.31	33208502.44	0.0136	0.0110
Mercury	86217-01-14 11:03 G	33211185.94	33211185.96	33211185.99	0.0134	0.0133
Mercury	86217-04-12 17:32 G	33211274.13	33211274.23	33211274.35	0.0134	0.0107

Mercury	86217-07-10 00:15 G	33211362.37	33211362.51	33211362.66	0.0134	0.0082
Mercury	86217-10-06 06:44 G	33211450.62	33211450.78	33211450.95	0.0134	0.0057
Mercury	86218-01-02 13:12 G	33211538.88	33211539.05	33211539.23	0.0134	0.0032
Mercury	86218-03-31 19:41 G	33211627.14	33211627.32	33211627.51	0.0134	0.0007
Mercury	86218-06-28 02:10 G	33211715.41	33211715.59	33211715.77	0.0134	0.0019
Mercury	86218-09-24 08:24 G	33211803.68	33211803.85	33211804.03	0.0134	0.0043
Mercury	86218-12-21 14:53 G	33211891.96	33211892.12	33211892.28	0.0134	0.0068
Mercury	86219-03-19 20:53 G	33211980.25	33211980.37	33211980.51	0.0134	0.0093
Mercury	86219-06-16 03:08 G	33212068.55	33212068.63	33212068.73	0.0134	0.0117
Saturn	86223-05-02 17:17 G	33213484.99	33213485.22	33213485.54	0.0134	0.0120
Mars	86224-09-30 12:44 G	33214001.84	33214002.03	33214002.26	0.0134	0.0095
Moon	86240-05-16 03:08 G	33219708.55	33219708.63	33219708.76	0.0138	0.0126
Earth	86240-05-16 06:44 G	33219708.67	33219708.78	33219708.94	0.0138	0.0118 *
Earth	86241-05-20 20:39 G	33220078.13	33220078.36	33220078.60	0.0139	0.0056
Moon	86241-05-20 23:46 G	33220078.27	33220078.49	33220078.74	0.0139	0.0049 *
Moon	86242-05-25 07:27 G	33220447.56	33220447.81	33220448.07	0.0139	0.0004
Earth	86242-05-25 11:03 G	33220447.71	33220447.96	33220448.22	0.0139	0.0007 *
Earth	86243-05-30 01:56 G	33220817.37	33220817.58	33220817.81	0.0139	0.0070
Moon	86243-05-30 05:32 G	33220817.53	33220817.73	33220817.96	0.0139	0.0072 *
Moon	86244-06-02 14:39 G	33221187.05	33221187.11	33221187.17	0.0140	0.0135
Earth	86244-06-02 17:32 G	33221187.18	33221187.23	33221187.33	0.0140	0.0133
Venus	86248-09-20 05:46 G	33222757.63	33222757.74	33222757.87	0.0141	0.0117
Venus	86249-05-04 16:48 G	33222984.04	33222984.20	33222984.39	0.0141	0.0083
Venus	86249-12-17 04:05 G	33223210.47	33223210.67	33223210.89	0.0142	0.0049
Venus	86250-07-31 15:36 G	33223436.93	33223437.15	33223437.37	0.0142	0.0013
Venus	86251-03-15 03:08 G	33223663.41	33223663.63	33223663.85	0.0142	0.0022
Venus	86251-10-27 14:39 G	33223889.91	33223890.11	33223890.32	0.0142	0.0057
Venus	86252-06-10 02:24 G	33224116.44	33224116.60	33224116.78	0.0142	0.0093
Venus	86253-01-22 14:24 G	33224343.01	33224343.10	33224343.20	0.0142	0.0128
Mercury	86259-01-17 07:27 G	33226528.81	33226528.81	33226528.83	0.0144	0.0143

Mercury	86259-04-15 11:17 G	33226616.91	33226616.97	33226617.05	0.0144	0.0121
Mercury	86259-07-12 15:08 G	33226705.04	33226705.13	33226705.24	0.0144	0.0099
Mercury	86259-10-08 19:12 G	33226793.18	33226793.30	33226793.41	0.0144	0.0076
Mercury	86260-01-04 23:03 G	33226881.33	33226881.46	33226881.59	0.0144	0.0054
Mercury	86260-04-02 02:53 G	33226969.49	33226969.62	33226969.76	0.0144	0.0031
Mercury	86260-06-29 06:44 G	33227057.65	33227057.78	33227057.92	0.0144	0.0009
Mercury	86260-09-25 10:48 G	33227145.81	33227145.95	33227146.08	0.0144	0.0015
Mercury	86260-12-22 14:39 G	33227233.98	33227234.11	33227234.24	0.0144	0.0038
Mercury	86261-03-20 18:44 G	33227322.15	33227322.28	33227322.40	0.0144	0.0061
Mercury	86261-06-16 22:34 G	33227410.33	33227410.44	33227410.56	0.0144	0.0084
Mercury	86261-09-13 02:24 G	33227498.52	33227498.60	33227498.70	0.0144	0.0108
Mercury	86261-12-10 06:29 G	33227586.72	33227586.77	33227586.83	0.0144	0.0131
Mars	86265-04-07 20:24 G	33228801.06	33228801.35	33228801.66	0.0144	0.0053
Moon	86280-11-19 11:03 G	33234505.80	33234505.96	33234506.16	0.0140	0.0101
Earth	86280-11-19 14:53 G	33234505.96	33234506.12	33234506.31	0.0140	0.0101 *
Earth	86281-11-24 08:53 G	33234875.63	33234875.87	33234876.13	0.0139	0.0036
Moon	86281-11-24 12:15 G	33234875.78	33234876.01	33234876.26	0.0139	0.0040 *
Moon	86282-11-28 23:03 G	33235245.22	33235245.46	33235245.72	0.0139	0.0035
Earth	86282-11-29 02:10 G	33235245.35	33235245.59	33235245.85	0.0139	0.0028 *
Earth	86283-12-03 18:00 G	33235615.08	33235615.25	33235615.46	0.0139	0.0091
Moon	86283-12-03 21:22 G	33235615.20	33235615.39	33235615.60	0.0139	0.0083 *
Venus	86289-01-07 09:51 G	33237476.81	33237476.91	33237477.04	0.0137	0.0115
Venus	86289-08-21 16:05 G	33237703.02	33237703.17	33237703.35	0.0137	0.0085
Venus	86290-04-04 22:34 G	33237929.25	33237929.44	33237929.64	0.0137	0.0054
Venus	86290-11-17 04:48 G	33238155.50	33238155.70	33238155.92	0.0136	0.0024
Venus	86291-07-01 11:03 G	33238381.74	33238381.96	33238382.17	0.0136	0.0006
Venus	86292-02-12 16:48 G	33238608.00	33238608.20	33238608.41	0.0136	0.0036
Venus	86292-09-25 22:48 G	33238834.26	33238834.45	33238834.64	0.0136	0.0066
Venus	86293-05-10 04:20 G	33239060.54	33239060.68	33239060.84	0.0136	0.0096
Venus	86293-12-22 10:05 G	33239286.84	33239286.92	33239287.00	0.0136	0.0125

Mercury	86301-02-04 17:17 G	33241887.18	33241887.22	33241887.29	0.0135	0.0128
Mercury	86301-05-04 00:15 G	33241975.39	33241975.51	33241975.63	0.0135	0.0102
Mercury	86301-07-31 06:44 G	33242063.64	33242063.78	33242063.94	0.0135	0.0077
Mercury	86301-10-27 13:12 G	33242151.89	33242152.05	33242152.23	0.0134	0.0051
Mercury	86302-01-23 19:41 G	33242240.15	33242240.32	33242240.51	0.0134	0.0027
Mercury	86302-04-22 02:24 G	33242328.41	33242328.60	33242328.78	0.0134	0.0002
Mercury	86302-07-19 08:39 G	33242416.69	33242416.86	33242417.04	0.0134	0.0024
Mercury	86302-10-15 15:08 G	33242504.96	33242505.13	33242505.30	0.0134	0.0049
Mercury	86303-01-11 21:22 G	33242593.24	33242593.39	33242593.55	0.0134	0.0073
Mercury	86303-04-10 03:36 G	33242681.53	33242681.65	33242681.78	0.0134	0.0098
Mercury	86303-07-07 09:36 G	33242769.84	33242769.90	33242769.99	0.0134	0.0123
Mars	86307-06-26 17:46 G	33244220.00	33244220.24	33244220.52	0.0134	0.0062
Moon	86324-05-17 13:12 G	33250389.92	33250390.05	33250390.23	0.0138	0.0107
Earth	86324-05-17 16:34 G	33250390.05	33250390.19	33250390.34	0.0138	0.0113 *
Earth	86325-05-22 05:46 G	33250759.52	33250759.74	33250759.99	0.0139	0.0052
Moon	86325-05-22 09:22 G	33250759.67	33250759.89	33250760.13	0.0139	0.0059 *
Moon	86326-05-26 17:03 G	33251128.96	33251129.21	33251129.46	0.0139	0.0017
Earth	86326-05-26 20:24 G	33251129.10	33251129.35	33251129.60	0.0139	0.0011 *
Earth	86327-05-31 11:03 G	33251498.76	33251498.96	33251499.19	0.0139	0.0074
Moon	86327-05-31 14:24 G	33251498.90	33251499.10	33251499.33	0.0139	0.0074 *
Moon	86328-06-03 23:17 G	33251868.43	33251868.47	33251868.53	0.0140	0.0136
Earth	86328-06-04 02:39 G	33251868.59	33251868.61	33251868.68	0.0140	0.0138
Venus	86332-05-21 11:46 G	33253315.94	33253315.99	33253316.08	0.0141	0.0133
Venus	86333-01-02 22:48 G	33253542.31	33253542.45	33253542.62	0.0141	0.0099
Venus	86333-08-17 10:05 G	33253768.73	33253768.92	33253769.12	0.0141	0.0065
Venus	86334-03-31 21:36 G	33253995.18	33253995.40	33253995.61	0.0142	0.0030
Venus	86334-11-13 08:53 G	33254221.65	33254221.87	33254222.09	0.0142	0.0005
Venus	86335-06-27 20:10 G	33254448.14	33254448.34	33254448.56	0.0142	0.0040
Venus	86336-02-09 07:56 G	33254674.65	33254674.83	33254675.02	0.0142	0.0075
Venus	86336-09-22 19:41 G	33254901.19	33254901.32	33254901.46	0.0142	0.0111

Mercury	86343-02-07 14:24 G	33257230.08	33257230.10	33257230.14	0.0144	0.0139
Mercury	86343-05-06 18:15 G	33257318.19	33257318.26	33257318.34	0.0144	0.0116
Mercury	86343-08-02 22:05 G	33257406.32	33257406.42	33257406.53	0.0144	0.0094
Mercury	86343-10-30 01:56 G	33257494.47	33257494.58	33257494.70	0.0144	0.0072
Mercury	86344-01-26 05:46 G	33257582.62	33257582.74	33257582.87	0.0144	0.0050
Mercury	86344-04-23 09:51 G	33257670.77	33257670.91	33257671.04	0.0144	0.0027
Mercury	86344-07-20 13:41 G	33257758.93	33257759.07	33257759.21	0.0144	0.0004
Mercury	86344-10-16 17:32 G	33257847.10	33257847.23	33257847.37	0.0144	0.0020
Mercury	86345-01-12 21:22 G	33257935.27	33257935.39	33257935.53	0.0144	0.0043
Mercury	86345-04-11 01:27 G	33258023.44	33258023.56	33258023.69	0.0144	0.0065
Mercury	86345-07-08 05:32 G	33258111.62	33258111.73	33258111.84	0.0144	0.0088
Mercury	86345-10-04 09:36 G	33258199.81	33258199.90	33258199.98	0.0144	0.0112
Mercury	86345-12-31 13:27 G	33258288.02	33258288.06	33258288.11	0.0144	0.0135
Mars	86349-12-03 16:05 G	33259720.93	33259721.17	33259721.46	0.0143	0.0083
Moon	86364-11-20 18:29 G	33265187.10	33265187.27	33265187.47	0.0140	0.0096
Earth	86364-11-20 22:20 G	33265187.25	33265187.43	33265187.62	0.0140	0.0097 *
Earth	86365-11-25 16:20 G	33265556.93	33265557.18	33265557.43	0.0139	0.0033
Moon	86365-11-25 19:41 G	33265557.08	33265557.32	33265557.57	0.0139	0.0029 *
Moon	86366-11-30 05:46 G	33265926.49	33265926.74	33265927.00	0.0139	0.0026
Earth	86366-11-30 09:22 G	33265926.64	33265926.89	33265927.14	0.0139	0.0031 *
Earth	86367-12-05 01:12 G	33266296.37	33266296.55	33266296.74	0.0139	0.0094
Moon	86367-12-05 04:05 G	33266296.51	33266296.67	33266296.85	0.0139	0.0102 *
Venus	86372-09-07 17:32 G	33268035.18	33268035.23	33268035.31	0.0137	0.0130
Venus	86373-04-22 00:00 G	33268261.37	33268261.50	33268261.66	0.0137	0.0100
Venus	86373-12-04 06:44 G	33268487.60	33268487.78	33268487.97	0.0137	0.0069
Venus	86374-07-18 12:58 G	33268713.83	33268714.04	33268714.25	0.0136	0.0039
Venus	86375-03-01 18:58 G	33268940.08	33268940.29	33268940.51	0.0136	0.0009
Venus	86375-10-14 01:12 G	33269166.34	33269166.55	33269166.77	0.0136	0.0022
Venus	86376-05-27 06:58 G	33269392.60	33269392.79	33269393.00	0.0136	0.0052
Venus	86377-01-08 12:44 G	33269618.87	33269619.03	33269619.21	0.0136	0.0081

Venus	86377-08-22 18:15 G	33269845.15	33269845.26	33269845.40	0.0136	0.0111
Mercury	86385-02-24 23:32 G	33272588.43	33272588.48	33272588.57	0.0135	0.0124
Mercury	86385-05-24 06:15 G	33272676.65	33272676.76	33272676.90	0.0135	0.0098
Mercury	86385-08-20 13:12 G	33272764.89	33272765.05	33272765.20	0.0135	0.0072
Mercury	86385-11-16 19:41 G	33272853.15	33272853.32	33272853.50	0.0135	0.0047
Mercury	86386-02-13 02:10 G	33272941.41	33272941.59	33272941.77	0.0135	0.0022
Mercury	86386-05-12 08:39 G	33273029.68	33273029.86	33273030.05	0.0135	0.0004
Mercury	86386-08-08 15:08 G	33273117.95	33273118.13	33273118.31	0.0134	0.0029
Mercury	86386-11-04 21:22 G	33273206.23	33273206.39	33273206.56	0.0134	0.0054
Mercury	86387-02-01 03:36 G	33273294.51	33273294.65	33273294.81	0.0134	0.0079
Mercury	86387-04-30 10:05 G	33273382.81	33273382.92	33273383.04	0.0134	0.0103
Mercury	86387-07-27 16:20 G	33273471.13	33273471.18	33273471.24	0.0134	0.0127
Mars	86392-02-19 01:27 G	33275138.28	33275138.56	33275138.85	0.0135	0.0040
Moon	86408-05-17 23:32 G	33281071.35	33281071.48	33281071.62	0.0138	0.0116
Earth	86408-05-18 02:10 G	33281071.45	33281071.59	33281071.76	0.0138	0.0108 *
Earth	86409-05-22 15:51 G	33281440.93	33281441.16	33281441.40	0.0139	0.0047
Moon	86409-05-22 18:44 G	33281441.03	33281441.28	33281441.53	0.0139	0.0039 *
Moon	86410-05-27 03:08 G	33281810.38	33281810.63	33281810.88	0.0139	0.0011
Earth	86410-05-27 06:15 G	33281810.51	33281810.76	33281811.02	0.0139	0.0016 *
Earth	86411-05-31 21:08 G	33282180.18	33282180.38	33282180.60	0.0139	0.0079
Moon	86411-06-01 00:29 G	33282180.33	33282180.52	33282180.74	0.0139	0.0083 *
Venus	86416-09-02 05:46 G	33284100.63	33284100.74	33284100.89	0.0141	0.0114
Venus	86417-04-16 17:03 G	33284327.04	33284327.21	33284327.40	0.0141	0.0080
Venus	86417-11-29 04:20 G	33284553.48	33284553.68	33284553.90	0.0142	0.0046
Venus	86418-07-13 15:51 G	33284779.94	33284780.16	33284780.38	0.0142	0.0011
Venus	86419-02-25 03:08 G	33285006.41	33285006.63	33285006.85	0.0142	0.0024
Venus	86419-10-09 14:39 G	33285232.91	33285233.11	33285233.31	0.0142	0.0059
Venus	86420-05-23 02:24 G	33285459.44	33285459.60	33285459.77	0.0142	0.0095
Venus	86421-01-04 14:10 G	33285686.01	33285686.09	33285686.19	0.0142	0.0130
Mercury	86427-02-27 21:51 G	33287931.37	33287931.41	33287931.47	0.0143	0.0132

Mercury	86427-05-27 01:41 G	33288019.49	33288019.57	33288019.66	0.0144	0.0110
Mercury	86427-08-23 05:32 G	33288107.63	33288107.73	33288107.84	0.0144	0.0088
Mercury	86427-11-19 09:22 G	33288195.77	33288195.89	33288196.01	0.0144	0.0065
Mercury	86428-02-15 13:12 G	33288283.92	33288284.05	33288284.18	0.0144	0.0043
Mercury	86428-05-13 17:03 G	33288372.08	33288372.21	33288372.35	0.0144	0.0020
Mercury	86428-08-09 21:08 G	33288460.24	33288460.38	33288460.51	0.0144	0.0005
Mercury	86428-11-06 00:58 G	33288548.41	33288548.54	33288548.68	0.0144	0.0026
Mercury	86429-02-02 05:03 G	33288636.58	33288636.71	33288636.84	0.0144	0.0049
Mercury	86429-05-01 08:53 G	33288724.75	33288724.87	33288724.99	0.0144	0.0072
Mercury	86429-07-28 12:44 G	33288812.94	33288813.03	33288813.14	0.0144	0.0095
Mercury	86429-10-24 16:48 G	33288901.13	33288901.20	33288901.28	0.0144	0.0119
Mercury	86430-01-20 20:53 G	33288989.36	33288989.37	33288989.39	0.0144	0.0142
Mars	86432-08-24 06:29 G	33289935.66	33289935.77	33289935.91	0.0144	0.0132
Moon	86448-11-21 03:08 G	33295868.46	33295868.63	33295868.83	0.0140	0.0095
Earth	86448-11-21 06:58 G	33295868.61	33295868.79	33295868.99	0.0140	0.0093 *
Earth	86449-11-26 00:44 G	33296238.29	33296238.53	33296238.79	0.0139	0.0029
Moon	86449-11-26 04:20 G	33296238.44	33296238.68	33296238.94	0.0139	0.0030 *
Moon	86450-11-30 14:10 G	33296607.85	33296608.09	33296608.34	0.0139	0.0042
Earth	86450-11-30 17:46 G	33296608.00	33296608.24	33296608.49	0.0139	0.0036 *
Earth	86451-12-05 09:36 G	33296977.74	33296977.90	33296978.09	0.0139	0.0099
Moon	86451-12-05 13:27 G	33296977.88	33296978.06	33296978.26	0.0139	0.0091 *
Venus	86456-12-20 08:39 G	33298819.76	33298819.86	33298819.99	0.0137	0.0114
Venus	86457-08-03 15:08 G	33299045.97	33299046.13	33299046.31	0.0137	0.0083
Venus	86458-03-17 21:36 G	33299272.21	33299272.40	33299272.60	0.0137	0.0053
Venus	86458-10-30 04:05 G	33299498.46	33299498.67	33299498.88	0.0136	0.0023
Venus	86459-06-13 10:05 G	33299724.71	33299724.92	33299725.14	0.0136	0.0008
Venus	86460-01-25 16:05 G	33299950.97	33299951.17	33299951.38	0.0136	0.0037
Venus	86460-09-07 21:51 G	33300177.23	33300177.41	33300177.60	0.0136	0.0067
Venus	86461-04-22 03:22 G	33300403.51	33300403.64	33300403.81	0.0136	0.0097
Venus	86461-12-04 09:08 G	33300629.81	33300629.88	33300629.97	0.0136	0.0126

Mercury	86469-03-17 06:15 G	33303289.69	33303289.76	33303289.86	0.0135	0.0118
Mercury	86469-06-13 13:12 G	33303377.92	33303378.05	33303378.19	0.0135	0.0092
Mercury	86469-09-09 19:41 G	33303466.17	33303466.32	33303466.49	0.0135	0.0066
Mercury	86469-12-07 02:24 G	33303554.43	33303554.60	33303554.78	0.0135	0.0041
Mercury	86470-03-05 08:53 G	33303642.69	33303642.87	33303643.05	0.0135	0.0016
Mercury	86470-06-01 15:22 G	33303730.96	33303731.14	33303731.33	0.0135	0.0010
Mercury	86470-08-28 21:51 G	33303819.23	33303819.41	33303819.59	0.0134	0.0035
Mercury	86470-11-25 04:05 G	33303907.51	33303907.67	33303907.84	0.0134	0.0060
Mercury	86471-02-21 10:20 G	33303995.80	33303995.93	33303996.08	0.0134	0.0085
Mercury	86471-05-20 16:48 G	33304084.10	33304084.20	33304084.31	0.0134	0.0109
Mercury	86471-08-16 23:03 G	33304172.44	33304172.46	33304172.49	0.0134	0.0133
Mars	86474-11-13 09:08 G	33305356.73	33305356.88	33305357.04	0.0135	0.0114
Moon	86492-05-18 10:05 G	33311752.76	33311752.92	33311753.11	0.0138	0.0098
Earth	86492-05-18 12:15 G	33311752.85	33311753.01	33311753.18	0.0138	0.0104 *
Earth	86493-05-23 01:56 G	33312122.34	33312122.58	33312122.82	0.0139	0.0042
Moon	86493-05-23 04:48 G	33312122.46	33312122.70	33312122.95	0.0139	0.0049 *
Moon	86494-05-27 13:41 G	33312491.83	33312492.07	33312492.32	0.0139	0.0028
Earth	86494-05-27 16:20 G	33312491.93	33312492.18	33312492.43	0.0139	0.0021 *
Earth	86495-06-01 07:12 G	33312861.61	33312861.80	33312862.01	0.0139	0.0085
Moon	86495-06-01 10:20 G	33312861.74	33312861.93	33312862.15	0.0139	0.0083 *
Venus	86500-05-03 12:58 G	33314658.97	33314659.04	33314659.15	0.0141	0.0129
Venus	86500-12-16 00:00 G	33314885.35	33314885.50	33314885.68	0.0141	0.0096
Venus	86501-07-30 11:17 G	33315111.78	33315111.97	33315112.18	0.0141	0.0061
Venus	86502-03-13 22:34 G	33315338.23	33315338.44	33315338.66	0.0142	0.0026
Venus	86502-10-26 10:05 G	33315564.70	33315564.92	33315565.14	0.0142	0.0009
Venus	86503-06-09 21:22 G	33315791.19	33315791.39	33315791.61	0.0142	0.0044
Venus	86504-01-22 08:53 G	33316017.70	33316017.87	33316018.07	0.0142	0.0079
Venus	86504-09-04 20:39 G	33316244.24	33316244.36	33316244.50	0.0142	0.0114
Mercury	86511-03-21 05:32 G	33318632.66	33318632.73	33318632.79	0.0143	0.0125
Mercury	86511-06-17 09:08 G	33318720.79	33318720.88	33318720.98	0.0144	0.0103

Mercury	86511-09-13 12:58 G	33318808.93	33318809.04	33318809.16	0.0144	0.0080
Mercury	86511-12-10 17:03 G	33318897.08	33318897.21	33318897.33	0.0144	0.0058
Mercury	86512-03-07 20:39 G	33318985.23	33318985.36	33318985.50	0.0144	0.0036
Mercury	86512-06-04 00:44 G	33319073.39	33319073.53	33319073.67	0.0144	0.0012
Mercury	86512-08-31 04:34 G	33319161.55	33319161.69	33319161.83	0.0144	0.0011
Mercury	86512-11-27 08:24 G	33319249.72	33319249.85	33319249.99	0.0144	0.0034
Mercury	86513-02-23 12:29 G	33319337.89	33319338.02	33319338.15	0.0144	0.0056
Mercury	86513-05-22 16:20 G	33319426.07	33319426.18	33319426.30	0.0144	0.0080
Mercury	86513-08-18 20:24 G	33319514.26	33319514.35	33319514.45	0.0144	0.0103
Mercury	86513-11-15 00:15 G	33319602.46	33319602.51	33319602.58	0.0144	0.0127
Mars	86517-04-21 12:44 G	33320855.71	33320856.03	33320856.36	0.0143	0.0010
Moon	86532-11-22 13:56 G	33326549.89	33326550.08	33326550.29	0.0140	0.0085
Earth	86532-11-22 17:03 G	33326550.02	33326550.21	33326550.42	0.0140	0.0088 *
Earth	86533-11-27 10:48 G	33326919.70	33326919.95	33326920.21	0.0139	0.0023
Moon	86533-11-27 14:39 G	33326919.86	33326920.11	33326920.36	0.0139	0.0020 *
Moon	86534-12-02 00:00 G	33327289.26	33327289.50	33327289.75	0.0139	0.0037
Earth	86534-12-02 03:36 G	33327289.42	33327289.65	33327289.90	0.0139	0.0041 *
Earth	86535-12-06 19:27 G	33327659.15	33327659.31	33327659.49	0.0138	0.0104
Moon	86535-12-06 22:48 G	33327659.32	33327659.45	33327659.62	0.0138	0.0112 *
Venus	86540-08-20 18:00 G	33329378.17	33329378.25	33329378.33	0.0137	0.0127
Venus	86541-04-04 00:29 G	33329604.37	33329604.52	33329604.67	0.0137	0.0097
Venus	86541-11-16 06:58 G	33329830.60	33329830.79	33329830.98	0.0137	0.0067
Venus	86542-06-30 13:12 G	33330056.84	33330057.05	33330057.26	0.0136	0.0037
Venus	86543-02-11 19:27 G	33330283.09	33330283.31	33330283.52	0.0136	0.0007
Venus	86543-09-26 01:27 G	33330509.35	33330509.56	33330509.77	0.0136	0.0024
Venus	86544-05-09 07:12 G	33330735.61	33330735.80	33330736.00	0.0136	0.0053
Venus	86544-12-21 12:44 G	33330961.87	33330962.03	33330962.21	0.0136	0.0083
Venus	86545-08-04 18:29 G	33331188.16	33331188.27	33331188.39	0.0136	0.0112
Mercury	86553-04-07 13:12 G	33333990.95	33333991.05	33333991.15	0.0135	0.0112
Mercury	86553-07-04 19:27 G	33334079.18	33334079.31	33334079.47	0.0135	0.0087

Mercury	86553-10-01 02:24 G	33334167.44	33334167.60	33334167.76	0.0134	0.0061
Mercury	86553-12-28 08:53 G	33334255.70	33334255.87	33334256.05	0.0134	0.0035
Mercury	86554-03-26 15:22 G	33334343.96	33334344.14	33334344.33	0.0134	0.0011
Mercury	86554-06-22 21:51 G	33334432.23	33334432.41	33334432.60	0.0134	0.0016
Mercury	86554-09-19 04:20 G	33334520.51	33334520.68	33334520.86	0.0134	0.0040
Mercury	86554-12-16 10:48 G	33334608.79	33334608.95	33334609.11	0.0134	0.0065
Mercury	86555-03-14 17:03 G	33334697.08	33334697.21	33334697.35	0.0134	0.0090
Mercury	86555-06-10 23:32 G	33334785.39	33334785.48	33334785.57	0.0134	0.0114
Mars	86559-07-09 14:53 G	33336274.83	33336275.12	33336275.41	0.0135	0.0014
Moon	86576-05-19 18:58 G	33342434.15	33342434.29	33342434.46	0.0139	0.0107
Earth	86576-05-19 20:53 G	33342434.21	33342434.37	33342434.56	0.0139	0.0100 *
Earth	86577-05-24 10:34 G	33342803.70	33342803.94	33342804.19	0.0139	0.0038
Moon	86577-05-24 12:29 G	33342803.77	33342804.02	33342804.28	0.0139	0.0030 *
Moon	86578-05-28 22:48 G	33343173.21	33343173.45	33343173.70	0.0139	0.0019
Earth	86578-05-29 01:12 G	33343173.31	33343173.55	33343173.80	0.0139	0.0026 *
Earth	86579-06-02 16:05 G	33343543.00	33343543.17	33343543.38	0.0140	0.0090
Moon	86579-06-02 18:58 G	33343543.11	33343543.29	33343543.49	0.0140	0.0094 *
Venus	86584-08-15 06:44 G	33345443.65	33345443.78	33345443.92	0.0141	0.0111
Venus	86585-03-29 17:46 G	33345670.06	33345670.24	33345670.43	0.0141	0.0077
Venus	86585-11-11 04:48 G	33345896.50	33345896.70	33345896.92	0.0142	0.0043
Venus	86586-06-25 16:20 G	33346122.96	33346123.18	33346123.40	0.0142	0.0007
Venus	86587-02-07 03:36 G	33346349.44	33346349.65	33346349.87	0.0142	0.0028
Venus	86587-09-21 15:22 G	33346575.94	33346576.14	33346576.34	0.0142	0.0063
Venus	86588-05-05 03:08 G	33346802.47	33346802.63	33346802.79	0.0142	0.0098
Venus	86588-12-17 14:39 G	33347029.05	33347029.11	33347029.20	0.0143	0.0133
Mercury	86595-01-12 08:53 G	33349245.86	33349245.87	33349245.91	0.0143	0.0141
Mercury	86595-04-10 12:44 G	33349333.96	33349334.03	33349334.11	0.0144	0.0118
Mercury	86595-07-07 16:48 G	33349422.10	33349422.20	33349422.30	0.0144	0.0096
Mercury	86595-10-03 20:24 G	33349510.24	33349510.35	33349510.47	0.0144	0.0074
Mercury	86595-12-31 00:29 G	33349598.39	33349598.52	33349598.64	0.0144	0.0051

Mercury	86596-03-28 04:20 G	33349686.54	33349686.68	33349686.81	0.0144	0.0028
Mercury	86596-06-24 08:10 G	33349774.70	33349774.84	33349774.98	0.0144	0.0005
Mercury	86596-09-20 12:00 G	33349862.87	33349863.00	33349863.14	0.0144	0.0018
Mercury	86596-12-17 15:51 G	33349951.03	33349951.16	33349951.30	0.0144	0.0041
Mercury	86597-03-15 19:56 G	33350039.21	33350039.33	33350039.45	0.0144	0.0064
Mercury	86597-06-12 00:00 G	33350127.39	33350127.50	33350127.61	0.0144	0.0087
Mercury	86597-09-08 03:51 G	33350215.58	33350215.66	33350215.75	0.0144	0.0110
Mercury	86597-12-05 07:56 G	33350303.78	33350303.83	33350303.88	0.0144	0.0134
Moon	86616-11-24 00:44 G	33357231.33	33357231.53	33357231.73	0.0140	0.0085
Earth	86616-11-24 04:05 G	33357231.47	33357231.67	33357231.88	0.0140	0.0082 *
Earth	86617-11-28 21:36 G	33357601.15	33357601.40	33357601.66	0.0139	0.0017
Moon	86617-11-29 00:44 G	33357601.28	33357601.53	33357601.80	0.0139	0.0019 *
Moon	86618-12-03 10:34 G	33357970.71	33357970.94	33357971.18	0.0139	0.0052
Earth	86618-12-03 14:10 G	33357970.86	33357971.09	33357971.34	0.0139	0.0047 *
Earth	86619-12-08 06:00 G	33358340.61	33358340.75	33358340.92	0.0138	0.0110
Moon	86619-12-08 09:36 G	33358340.75	33358340.90	33358341.09	0.0138	0.0102 *
Venus	86624-12-03 09:51 G	33360162.80	33360162.91	33360163.05	0.0137	0.0111
Venus	86625-07-17 16:20 G	33360389.02	33360389.18	33360389.37	0.0137	0.0081
Venus	86626-02-28 22:34 G	33360615.26	33360615.44	33360615.66	0.0136	0.0051
Venus	86626-10-13 05:03 G	33360841.51	33360841.71	33360841.93	0.0136	0.0021
Venus	86627-05-27 11:17 G	33361067.75	33361067.97	33361068.18	0.0136	0.0010
Venus	86628-01-08 17:03 G	33361294.01	33361294.21	33361294.42	0.0136	0.0040
Venus	86628-08-21 22:48 G	33361520.27	33361520.45	33361520.63	0.0136	0.0069
Venus	86629-04-05 04:05 G	33361746.54	33361746.67	33361746.83	0.0136	0.0099
Venus	86629-11-17 09:36 G	33361972.85	33361972.90	33361972.99	0.0136	0.0128
Mercury	86637-01-30 12:58 G	33364604.02	33364604.04	33364604.09	0.0134	0.0132
Mercury	86637-04-28 19:41 G	33364692.22	33364692.32	33364692.44	0.0134	0.0106
Mercury	86637-07-26 02:39 G	33364780.46	33364780.61	33364780.76	0.0134	0.0080
Mercury	86637-10-22 09:08 G	33364868.72	33364868.88	33364869.05	0.0134	0.0054
Mercury	86638-01-18 15:36 G	33364956.98	33364957.15	33364957.34	0.0134	0.0029

Mercury	86638-04-16 22:20 G	33365045.25	33365045.43	33365045.61	0.0134	0.0004
Mercury	86638-07-14 04:48 G	33365133.52	33365133.70	33365133.88	0.0134	0.0021
Mercury	86638-10-10 11:03 G	33365221.80	33365221.96	33365222.14	0.0134	0.0047
Mercury	86639-01-06 17:17 G	33365310.08	33365310.22	33365310.39	0.0134	0.0072
Mercury	86639-04-04 23:46 G	33365398.37	33365398.49	33365398.63	0.0134	0.0096
Mercury	86639-07-02 06:00 G	33365486.68	33365486.75	33365486.84	0.0134	0.0120
Mars	86644-03-03 23:03 G	33367193.26	33367193.46	33367193.71	0.0135	0.0087
Moon	86660-05-21 03:51 G	33373115.49	33373115.66	33373115.85	0.0139	0.0092
Earth	86660-05-21 04:34 G	33373115.53	33373115.69	33373115.88	0.0139	0.0097 *
Earth	86661-05-25 18:29 G	33373485.03	33373485.27	33373485.52	0.0139	0.0034
Moon	86661-05-25 19:56 G	33373485.10	33373485.33	33373485.59	0.0139	0.0042 *
Moon	86662-05-30 07:41 G	33373854.58	33373854.82	33373855.06	0.0139	0.0037
Earth	86662-05-30 08:53 G	33373854.63	33373854.87	33373855.13	0.0139	0.0029 *
Earth	86663-06-04 00:00 G	33374224.33	33374224.50	33374224.70	0.0140	0.0094
Moon	86663-06-04 02:10 G	33374224.41	33374224.59	33374224.81	0.0140	0.0090 *
Venus	86668-04-15 11:46 G	33376001.91	33376001.99	33376002.10	0.0141	0.0127
Venus	86668-11-27 22:48 G	33376228.30	33376228.45	33376228.63	0.0141	0.0094
Venus	86669-07-12 09:51 G	33376454.72	33376454.91	33376455.12	0.0142	0.0060
Venus	86670-02-23 21:08 G	33376681.17	33376681.38	33376681.60	0.0142	0.0025
Venus	86670-10-08 08:39 G	33376907.64	33376907.86	33376908.08	0.0142	0.0010
Venus	86671-05-22 20:10 G	33377134.14	33377134.34	33377134.56	0.0142	0.0045
Venus	86672-01-04 07:41 G	33377360.65	33377360.82	33377361.01	0.0142	0.0080
Venus	86672-08-17 19:12 G	33377587.19	33377587.30	33377587.45	0.0142	0.0116
Mercury	86679-02-02 16:05 G	33379947.13	33379947.17	33379947.21	0.0144	0.0136
Mercury	86679-05-01 19:41 G	33380035.25	33380035.32	33380035.41	0.0144	0.0114
Mercury	86679-07-28 23:46 G	33380123.39	33380123.49	33380123.59	0.0144	0.0091
Mercury	86679-10-25 03:36 G	33380211.53	33380211.65	33380211.77	0.0144	0.0069
Mercury	86680-01-21 07:27 G	33380299.68	33380299.81	33380299.94	0.0144	0.0046
Mercury	86680-04-18 11:17 G	33380387.84	33380387.97	33380388.11	0.0144	0.0023
Mercury	86680-07-15 15:08 G	33380476.00	33380476.13	33380476.27	0.0144	0.0003

Mercury	86680-10-11 19:12 G	33380564.16	33380564.30	33380564.43	0.0144	0.0023
Mercury	86681-01-07 23:03 G	33380652.33	33380652.46	33380652.59	0.0144	0.0045
Mercury	86681-04-06 02:53 G	33380740.50	33380740.62	33380740.75	0.0144	0.0069
Mercury	86681-07-03 06:58 G	33380828.69	33380828.79	33380828.90	0.0144	0.0092
Mercury	86681-09-29 10:48 G	33380916.88	33380916.95	33380917.04	0.0144	0.0115
Mercury	86681-12-26 14:53 G	33381005.09	33381005.12	33381005.16	0.0144	0.0139
Mars	86684-09-07 01:41 G	33381990.30	33381990.57	33381990.88	0.0144	0.0066
Moon	86700-11-25 11:17 G	33387912.77	33387912.97	33387913.19	0.0140	0.0074
Earth	86700-11-25 13:56 G	33387912.88	33387913.08	33387913.30	0.0140	0.0077 *
Earth	86701-11-30 07:41 G	33388282.56	33388282.82	33388283.07	0.0139	0.0012
Moon	86701-11-30 11:03 G	33388282.70	33388282.96	33388283.22	0.0139	0.0011 *
Moon	86702-12-04 21:08 G	33388652.15	33388652.38	33388652.62	0.0139	0.0049
Earth	86702-12-05 00:15 G	33388652.28	33388652.51	33388652.76	0.0139	0.0052 *
Earth	86703-12-09 16:20 G	33389022.04	33389022.18	33389022.33	0.0138	0.0115
Moon	86703-12-09 19:56 G	33389022.21	33389022.33	33389022.45	0.0138	0.0122 *
Venus	86708-08-03 19:12 G	33390721.23	33390721.30	33390721.41	0.0137	0.0124
Venus	86709-03-18 01:56 G	33390947.43	33390947.58	33390947.74	0.0137	0.0094
Venus	86709-10-30 08:24 G	33391173.67	33391173.85	33391174.05	0.0136	0.0064
Venus	86710-06-13 14:39 G	33391399.91	33391400.11	33391400.32	0.0136	0.0034
Venus	86711-01-25 20:39 G	33391626.15	33391626.36	33391626.58	0.0136	0.0005
Venus	86711-09-09 02:39 G	33391852.40	33391852.61	33391852.82	0.0136	0.0026
Venus	86712-04-22 08:10 G	33392078.65	33392078.84	33392079.04	0.0136	0.0056
Venus	86712-12-04 13:56 G	33392304.92	33392305.08	33392305.25	0.0136	0.0085
Venus	86713-07-18 19:27 G	33392531.20	33392531.31	33392531.43	0.0136	0.0114
Mercury	86721-02-20 19:41 G	33395305.27	33395305.32	33395305.40	0.0134	0.0126
Mercury	86721-05-20 02:24 G	33395393.49	33395393.60	33395393.73	0.0134	0.0100
Mercury	86721-08-16 09:08 G	33395481.73	33395481.88	33395482.04	0.0134	0.0074
Mercury	86721-11-12 15:51 G	33395569.99	33395570.16	33395570.33	0.0134	0.0049
Mercury	86722-02-08 22:20 G	33395658.25	33395658.43	33395658.62	0.0134	0.0023
Mercury	86722-05-08 05:03 G	33395746.52	33395746.71	33395746.89	0.0134	0.0004

Mercury	86722-08-04 11:17 G	33395834.80	33395834.97	33395835.15	0.0134	0.0027
Mercury	86722-10-31 17:32 G	33395923.08	33395923.23	33395923.41	0.0134	0.0053
Mercury	86723-01-28 00:15 G	33396011.36	33396011.51	33396011.66	0.0134	0.0076
Mercury	86723-04-26 06:15 G	33396099.66	33396099.76	33396099.89	0.0134	0.0102
Mercury	86723-07-23 12:44 G	33396187.98	33396188.03	33396188.10	0.0134	0.0125
Mars	86726-11-28 06:29 G	33397411.54	33397411.77	33397412.04	0.0134	0.0068
Moon	86744-05-22 11:03 G	33403796.80	33403796.96	33403797.14	0.0138	0.0100
Earth	86744-05-22 11:46 G	33403796.81	33403796.99	33403797.18	0.0138	0.0094 *
Earth	86745-05-27 01:12 G	33404166.31	33404166.55	33404166.80	0.0139	0.0031
Moon	86745-05-27 01:27 G	33404166.31	33404166.56	33404166.83	0.0139	0.0025 *
Moon	86746-05-31 14:24 G	33404535.87	33404536.10	33404536.35	0.0139	0.0026
Earth	86746-05-31 15:51 G	33404535.91	33404536.16	33404536.41	0.0139	0.0033 *
Earth	86747-06-05 06:58 G	33404905.62	33404905.79	33404905.98	0.0140	0.0097
Moon	86747-06-05 08:10 G	33404905.68	33404905.84	33404906.03	0.0140	0.0103 *
Venus	86752-07-29 03:08 G	33406786.50	33406786.63	33406786.77	0.0141	0.0111
Venus	86753-03-12 14:10 G	33407012.91	33407013.09	33407013.28	0.0142	0.0077
Venus	86753-10-25 01:12 G	33407239.35	33407239.55	33407239.77	0.0142	0.0043
Venus	86754-06-08 12:44 G	33407465.81	33407466.03	33407466.25	0.0142	0.0008
Venus	86755-01-21 00:00 G	33407692.29	33407692.50	33407692.72	0.0142	0.0027
Venus	86755-09-04 11:32 G	33407918.79	33407918.98	33407919.18	0.0142	0.0062
Venus	86756-04-17 23:03 G	33408145.32	33408145.46	33408145.64	0.0142	0.0098
Venus	86756-11-30 10:48 G	33408371.89	33408371.95	33408372.05	0.0143	0.0133
Mercury	86763-02-23 22:34 G	33410648.40	33410648.44	33410648.50	0.0144	0.0133
Mercury	86763-05-23 02:39 G	33410736.53	33410736.61	33410736.70	0.0144	0.0110
Mercury	86763-08-19 06:29 G	33410824.66	33410824.77	33410824.88	0.0144	0.0088
Mercury	86763-11-15 10:20 G	33410912.81	33410912.93	33410913.05	0.0144	0.0065
Mercury	86764-02-11 14:10 G	33411000.96	33411001.09	33411001.22	0.0144	0.0042
Mercury	86764-05-09 18:00 G	33411089.12	33411089.25	33411089.39	0.0144	0.0020
Mercury	86764-08-05 21:51 G	33411177.28	33411177.41	33411177.55	0.0144	0.0006
Mercury	86764-11-02 01:56 G	33411265.44	33411265.58	33411265.71	0.0144	0.0026

Mercury	86765-01-29 05:46 G	33411353.61	33411353.74	33411353.87	0.0144	0.0049
Mercury	86765-04-27 09:36 G	33411441.79	33411441.90	33411442.03	0.0144	0.0073
Mercury	86765-07-24 13:41 G	33411529.97	33411530.07	33411530.18	0.0144	0.0096
Mercury	86765-10-20 17:46 G	33411618.16	33411618.24	33411618.32	0.0144	0.0119
Mercury	86766-01-16 21:36 G	33411706.39	33411706.40	33411706.42	0.0144	0.0142
Mars	86769-05-04 21:51 G	33412910.14	33412910.41	33412910.71	0.0144	0.0068
Earth	86783-11-22 03:36 G	33418224.64	33418224.65	33418224.69	0.0140	0.0139
Moon	86783-11-22 05:32 G	33418224.66	33418224.73	33418224.83	0.0140	0.0132 *
Moon	86784-11-25 19:41 G	33418594.12	33418594.32	33418594.54	0.0140	0.0078
Earth	86784-11-25 22:05 G	33418594.22	33418594.42	33418594.66	0.0140	0.0074 *
Earth	86785-11-30 16:05 G	33418963.92	33418964.17	33418964.43	0.0139	0.0008
Moon	86785-11-30 18:44 G	33418964.02	33418964.28	33418964.54	0.0139	0.0007 *
Moon	86786-12-05 05:32 G	33419333.52	33419333.73	33419333.97	0.0139	0.0061
Earth	86786-12-05 09:08 G	33419333.65	33419333.88	33419334.11	0.0139	0.0056 *
Earth	86787-12-10 01:12 G	33419703.43	33419703.55	33419703.68	0.0138	0.0120
Moon	86787-12-10 04:05 G	33419703.54	33419703.67	33419703.84	0.0138	0.0113 *
Venus	86792-11-15 10:48 G	33421505.83	33421505.95	33421506.10	0.0137	0.0108
Venus	86793-06-29 17:17 G	33421732.05	33421732.22	33421732.41	0.0137	0.0078
Venus	86794-02-10 23:46 G	33421958.29	33421958.49	33421958.69	0.0136	0.0047
Venus	86794-09-25 06:00 G	33422184.54	33422184.75	33422184.96	0.0136	0.0017
Venus	86795-05-09 12:00 G	33422410.78	33422411.00	33422411.21	0.0136	0.0012
Venus	86795-12-21 17:32 G	33422637.03	33422637.23	33422637.44	0.0136	0.0042
Venus	86796-08-03 23:03 G	33422863.29	33422863.46	33422863.66	0.0136	0.0072
Venus	86797-03-18 04:34 G	33423089.56	33423089.69	33423089.85	0.0136	0.0101
Venus	86797-10-30 10:05 G	33423315.88	33423315.92	33423316.00	0.0136	0.0130
Mercury	86805-03-13 02:39 G	33426006.53	33426006.61	33426006.70	0.0134	0.0119
Mercury	86805-06-09 09:08 G	33426094.76	33426094.88	33426095.03	0.0134	0.0094
Mercury	86805-09-05 16:05 G	33426183.01	33426183.17	33426183.33	0.0134	0.0067
Mercury	86805-12-02 22:34 G	33426271.27	33426271.44	33426271.62	0.0134	0.0042
Mercury	86806-03-01 05:17 G	33426359.54	33426359.72	33426359.90	0.0134	0.0017

Mercury	86806-05-28 11:46 G	33426447.81	33426447.99	33426448.18	0.0134	0.0009
Mercury	86806-08-24 18:15 G	33426536.09	33426536.26	33426536.44	0.0134	0.0033
Mercury	86806-11-21 00:29 G	33426624.37	33426624.52	33426624.69	0.0134	0.0059
Mercury	86807-02-17 06:44 G	33426712.65	33426712.78	33426712.94	0.0134	0.0084
Mercury	86807-05-16 13:12 G	33426800.95	33426801.05	33426801.17	0.0134	0.0108
Mercury	86807-08-12 19:41 G	33426889.29	33426889.32	33426889.36	0.0134	0.0132
Mars	86811-07-23 14:24 G	33428329.82	33428330.10	33428330.39	0.0134	0.0032
Earth	86828-05-22 19:41 G	33434478.15	33434478.32	33434478.53	0.0138	0.0091
Moon	86828-05-22 20:39 G	33434478.18	33434478.36	33434478.56	0.0138	0.0087 *
Earth	86829-05-27 09:36 G	33434847.66	33434847.90	33434848.16	0.0139	0.0028
Moon	86829-05-27 10:05 G	33434847.67	33434847.92	33434848.17	0.0139	0.0034 *
Earth	86830-06-01 00:15 G	33435217.27	33435217.51	33435217.76	0.0139	0.0036
Moon	86830-06-01 00:00 G	33435217.28	33435217.50	33435217.74	0.0139	0.0044 *
Earth	86831-06-05 14:53 G	33435586.97	33435587.12	33435587.32	0.0139	0.0102
Moon	86831-06-05 16:05 G	33435586.99	33435587.17	33435587.37	0.0139	0.0096 *
Venus	86836-03-28 08:10 G	33437344.76	33437344.84	33437344.95	0.0141	0.0127
Venus	86836-11-09 18:58 G	33437571.14	33437571.29	33437571.47	0.0141	0.0094
Venus	86837-06-24 06:00 G	33437797.56	33437797.75	33437797.96	0.0142	0.0060
Venus	86838-02-05 17:17 G	33438024.00	33438024.22	33438024.44	0.0142	0.0025
Venus	86838-09-20 04:34 G	33438250.47	33438250.69	33438250.91	0.0142	0.0010
Venus	86839-05-04 16:05 G	33438476.96	33438477.17	33438477.38	0.0142	0.0044
Venus	86839-12-17 03:22 G	33438703.47	33438703.64	33438703.84	0.0142	0.0080
Venus	86840-07-30 14:53 G	33438930.01	33438930.12	33438930.27	0.0142	0.0115
Jupiter	86845-03-27 18:44 G	33440630.95	33440631.28	33440631.70	0.0143	0.0099
Mercury	86847-03-16 05:32 G	33441349.68	33441349.73	33441349.79	0.0144	0.0129
Mercury	86847-06-12 09:22 G	33441437.80	33441437.89	33441437.98	0.0144	0.0107
Mercury	86847-09-08 12:58 G	33441525.94	33441526.04	33441526.16	0.0144	0.0085
Mercury	86847-12-05 17:03 G	33441614.09	33441614.21	33441614.33	0.0144	0.0062
Mercury	86848-03-02 20:53 G	33441702.24	33441702.37	33441702.50	0.0144	0.0039
Mercury	86848-05-30 00:44 G	33441790.40	33441790.53	33441790.67	0.0144	0.0017

Mercury	86848-08-26 04:34 G	33441878.56	33441878.69	33441878.83	0.0144	0.0007
Mercury	86848-11-22 08:24 G	33441966.72	33441966.85	33441966.99	0.0144	0.0030
Mercury	86849-02-18 12:15 G	33442054.89	33442055.01	33442055.15	0.0144	0.0053
Mercury	86849-05-17 16:20 G	33442143.07	33442143.18	33442143.30	0.0144	0.0076
Mercury	86849-08-13 20:24 G	33442231.25	33442231.35	33442231.45	0.0144	0.0099
Mercury	86849-11-10 00:15 G	33442319.45	33442319.51	33442319.59	0.0144	0.0122
Earth	86867-11-22 10:48 G	33448905.90	33448905.95	33448906.02	0.0140	0.0136
Moon	86868-11-26 04:05 G	33449275.46	33449275.67	33449275.90	0.0140	0.0066
Earth	86868-11-26 05:32 G	33449275.52	33449275.73	33449275.96	0.0140	0.0071 *
Earth	86869-11-30 23:32 G	33449645.22	33449645.48	33449645.74	0.0139	0.0005
Moon	86869-12-01 02:10 G	33449645.32	33449645.59	33449645.85	0.0139	0.0006 *
Moon	86870-12-05 14:24 G	33450014.88	33450015.10	33450015.33	0.0139	0.0058
Earth	86870-12-05 16:34 G	33450014.97	33450015.19	33450015.43	0.0139	0.0060 *
Earth	86871-12-10 08:53 G	33450384.77	33450384.87	33450385.00	0.0138	0.0124
Moon	86871-12-10 12:00 G	33450384.92	33450385.00	33450385.09	0.0138	0.0130 *
Venus	86876-07-15 18:58 G	33452064.21	33452064.29	33452064.40	0.0137	0.0122
Venus	86877-02-27 01:41 G	33452290.42	33452290.57	33452290.74	0.0137	0.0092
Venus	86877-10-11 08:10 G	33452516.66	33452516.84	33452517.04	0.0137	0.0062
Venus	86878-05-25 14:24 G	33452742.90	33452743.10	33452743.31	0.0136	0.0032
Venus	86879-01-06 20:24 G	33452969.14	33452969.35	33452969.57	0.0136	0.0004
Venus	86879-08-21 02:10 G	33453195.39	33453195.59	33453195.81	0.0136	0.0028
Venus	86880-04-03 08:10 G	33453421.65	33453421.84	33453422.03	0.0136	0.0057
Venus	86880-11-15 13:41 G	33453647.92	33453648.07	33453648.25	0.0136	0.0087
Venus	86881-06-29 19:12 G	33453874.20	33453874.30	33453874.42	0.0136	0.0116
Mercury	86889-04-02 09:08 G	33456707.80	33456707.88	33456707.99	0.0134	0.0114
Mercury	86889-06-29 16:05 G	33456796.03	33456796.17	33456796.31	0.0134	0.0087
Mercury	86889-09-25 22:34 G	33456884.29	33456884.44	33456884.61	0.0134	0.0062
Mercury	86889-12-23 05:17 G	33456972.55	33456972.72	33456972.90	0.0134	0.0037
Mercury	86890-03-21 12:00 G	33457060.81	33457061.00	33457061.18	0.0134	0.0011
Mercury	86890-06-17 18:29 G	33457149.09	33457149.27	33457149.45	0.0134	0.0014

Mercury	86890-09-14 00:44 G	33457237.36	33457237.53	33457237.71	0.0134	0.0039
Mercury	86890-12-11 07:27 G	33457325.65	33457325.81	33457325.97	0.0134	0.0064
Mercury	86891-03-09 13:27 G	33457413.94	33457414.06	33457414.21	0.0134	0.0089
Mercury	86891-06-05 20:10 G	33457502.24	33457502.34	33457502.43	0.0134	0.0113
Mars	86894-04-17 01:27 G	33458548.43	33458548.56	33458548.70	0.0134	0.0119
Mars	86896-03-16 20:24 G	33459248.31	33459248.35	33459248.43	0.0134	0.0132
Earth	86912-05-24 05:17 G	33465159.54	33465159.72	33465159.93	0.0138	0.0086
Moon	86912-05-24 06:15 G	33465159.58	33465159.76	33465159.95	0.0138	0.0091 *
Moon	86913-05-28 18:15 G	33465529.00	33465529.26	33465529.52	0.0139	0.0017
Earth	86913-05-28 19:12 G	33465529.06	33465529.30	33465529.56	0.0139	0.0023 *
Earth	86914-06-02 09:51 G	33465898.67	33465898.91	33465899.15	0.0139	0.0041
Moon	86914-06-02 09:51 G	33465898.68	33465898.91	33465899.15	0.0139	0.0035 *
Earth	86915-06-07 00:29 G	33466268.38	33466268.52	33466268.71	0.0139	0.0107
Moon	86915-06-07 00:44 G	33466268.39	33466268.53	33466268.69	0.0139	0.0113 *
Venus	86920-07-11 00:58 G	33468129.42	33468129.54	33468129.70	0.0141	0.0110
Venus	86921-02-22 12:00 G	33468355.83	33468356.00	33468356.20	0.0141	0.0076
Venus	86921-10-06 23:17 G	33468582.26	33468582.47	33468582.68	0.0142	0.0041
Venus	86922-05-21 10:34 G	33468808.72	33468808.94	33468809.16	0.0142	0.0007
Venus	86923-01-02 21:51 G	33469035.20	33469035.41	33469035.63	0.0142	0.0028
Venus	86923-08-17 09:08 G	33469261.69	33469261.88	33469262.09	0.0142	0.0063
Venus	86924-03-30 21:08 G	33469488.22	33469488.38	33469488.54	0.0142	0.0098
Venus	86924-11-12 08:39 G	33469714.79	33469714.86	33469714.95	0.0142	0.0133
Mercury	86931-04-06 12:29 G	33472050.96	33472051.02	33472051.10	0.0144	0.0124
Mercury	86931-07-03 16:20 G	33472139.09	33472139.18	33472139.28	0.0144	0.0102
Mercury	86931-09-29 20:24 G	33472227.23	33472227.35	33472227.46	0.0144	0.0079
Mercury	86931-12-27 00:00 G	33472315.38	33472315.50	33472315.63	0.0144	0.0057
Mercury	86932-03-24 03:51 G	33472403.53	33472403.66	33472403.80	0.0144	0.0034
Mercury	86932-06-20 07:56 G	33472491.69	33472491.83	33472491.96	0.0144	0.0012
Mercury	86932-09-16 11:46 G	33472579.85	33472579.99	33472580.12	0.0144	0.0012
Mercury	86932-12-13 15:36 G	33472668.02	33472668.15	33472668.28	0.0144	0.0034

Mercury	86933-03-11 19:27 G	33472756.19	33472756.31	33472756.44	0.0144	0.0058
Mercury	86933-06-07 23:17 G	33472844.37	33472844.47	33472844.59	0.0144	0.0081
Mercury	86933-09-04 03:22 G	33472932.55	33472932.64	33472932.74	0.0144	0.0104
Mercury	86933-12-01 07:27 G	33473020.75	33473020.81	33473020.87	0.0144	0.0127
Mars	86936-09-19 23:46 G	33474044.17	33474044.49	33474044.82	0.0144	0.0016
Moon	86951-11-23 19:56 G	33479587.22	33479587.33	33479587.45	0.0140	0.0125
Earth	86951-11-23 18:58 G	33479587.24	33479587.29	33479587.39	0.0140	0.0133 *
Moon	86952-11-27 12:44 G	33479956.82	33479957.03	33479957.25	0.0140	0.0072
Earth	86952-11-27 13:56 G	33479956.87	33479957.08	33479957.32	0.0140	0.0067 *
Earth	86953-12-02 08:10 G	33480326.58	33480326.84	33480327.10	0.0139	0.0001
Moon	86953-12-02 09:22 G	33480326.63	33480326.89	33480327.16	0.0139	0.0003 *
Moon	86954-12-06 23:17 G	33480696.25	33480696.47	33480696.69	0.0139	0.0067
Earth	86954-12-07 00:58 G	33480696.33	33480696.54	33480696.79	0.0139	0.0065 *
Earth	86955-12-11 17:32 G	33481066.15	33481066.23	33481066.34	0.0138	0.0129
Moon	86955-12-11 19:56 G	33481066.22	33481066.33	33481066.46	0.0138	0.0123 *
Venus	86960-03-16 03:36 G	33482622.64	33482622.65	33482622.69	0.0137	0.0136
Venus	86960-10-28 10:20 G	33482848.81	33482848.93	33482849.08	0.0137	0.0106
Venus	86961-06-11 16:48 G	33483075.03	33483075.20	33483075.39	0.0137	0.0076
Venus	86962-01-23 23:17 G	33483301.27	33483301.47	33483301.67	0.0137	0.0046
Venus	86962-09-07 05:17 G	33483527.51	33483527.72	33483527.94	0.0136	0.0016
Venus	86963-04-21 11:17 G	33483753.76	33483753.97	33483754.19	0.0136	0.0014
Venus	86963-12-03 17:03 G	33483980.02	33483980.21	33483980.43	0.0136	0.0044
Venus	86964-07-16 22:48 G	33484206.28	33484206.45	33484206.64	0.0136	0.0073
Venus	86965-02-28 04:34 G	33484432.56	33484432.69	33484432.84	0.0136	0.0102
Venus	86965-10-12 10:05 G	33484658.88	33484658.92	33484658.99	0.0136	0.0131
Jupiter	86969-12-31 01:56 G	33486199.24	33486199.58	33486199.97	0.0135	0.0096
Mercury	86973-01-25 09:22 G	33487320.87	33487320.89	33487320.93	0.0135	0.0133
Mercury	86973-04-23 16:05 G	33487409.07	33487409.17	33487409.29	0.0134	0.0107
Mercury	86973-07-20 22:48 G	33487497.31	33487497.45	33487497.61	0.0134	0.0081
Mercury	86973-10-17 05:32 G	33487585.57	33487585.73	33487585.90	0.0134	0.0056

Mercury	86974-01-13 12:00 G	33487673.83	33487674.00	33487674.19	0.0134	0.0031
Mercury	86974-04-11 18:44 G	33487762.10	33487762.28	33487762.47	0.0134	0.0005
Mercury	86974-07-09 01:12 G	33487850.37	33487850.55	33487850.74	0.0134	0.0021
Mercury	86974-10-05 07:41 G	33487938.65	33487938.82	33487939.00	0.0134	0.0045
Mercury	86975-01-01 13:56 G	33488026.94	33488027.08	33488027.25	0.0134	0.0071
Mercury	86975-03-30 20:24 G	33488115.23	33488115.35	33488115.49	0.0134	0.0095
Mercury	86975-06-27 02:39 G	33488203.54	33488203.61	33488203.70	0.0134	0.0119
Mars	86978-12-11 08:24 G	33489466.56	33489466.85	33489467.14	0.0134	0.0020
Earth	86996-05-24 16:34 G	33495840.99	33495841.19	33495841.40	0.0138	0.0081
Moon	86996-05-24 18:15 G	33495841.07	33495841.26	33495841.47	0.0138	0.0079 *
Moon	86997-05-29 05:17 G	33496210.47	33496210.72	33496210.99	0.0139	0.0024
Earth	86997-05-29 06:29 G	33496210.52	33496210.77	33496211.02	0.0139	0.0017 *
Earth	86998-06-02 20:53 G	33496580.14	33496580.37	33496580.62	0.0139	0.0047
Moon	86998-06-02 22:05 G	33496580.20	33496580.42	33496580.65	0.0139	0.0055 *
Moon	86999-06-07 11:32 G	33496949.82	33496949.98	33496950.16	0.0139	0.0106
Earth	86999-06-07 11:46 G	33496949.86	33496949.99	33496950.16	0.0139	0.0113 *

88TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 88th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	87004-03-11 08:39 G	33498687.77	33498687.86	33498687.98	0.0141	0.0123		
Venus	87004-10-23 19:41 G	33498914.15	33498914.32	33498914.49	0.0141	0.0090		
Venus	87005-06-07 06:44 G	33499140.58	33499140.78	33499140.98	0.0142	0.0056		

Venus	87006-01-19 17:46 G	33499367.02	33499367.24	33499367.46	0.0142	0.0022
Venus	87006-09-03 05:03 G	33499593.49	33499593.71	33499593.93	0.0142	0.0013
Venus	87007-04-17 16:20 G	33499819.98	33499820.18	33499820.40	0.0142	0.0048
Venus	87007-11-30 04:05 G	33500046.50	33500046.67	33500046.86	0.0142	0.0083
Venus	87008-07-13 15:36 G	33500273.04	33500273.15	33500273.29	0.0142	0.0118
Mercury	87015-01-29 16:20 G	33502664.16	33502664.18	33502664.22	0.0144	0.0139
Mercury	87015-04-27 20:10 G	33502752.27	33502752.34	33502752.42	0.0144	0.0116
Mercury	87015-07-24 23:46 G	33502840.40	33502840.49	33502840.60	0.0144	0.0095
Mercury	87015-10-21 03:51 G	33502928.54	33502928.66	33502928.78	0.0144	0.0072
Mercury	87016-01-17 07:27 G	33503016.69	33503016.81	33503016.95	0.0144	0.0050
Mercury	87016-04-14 11:32 G	33503104.84	33503104.98	33503105.11	0.0144	0.0027
Mercury	87016-07-11 15:22 G	33503193.00	33503193.14	33503193.27	0.0144	0.0004
Mercury	87016-10-07 19:12 G	33503281.16	33503281.30	33503281.44	0.0144	0.0019
Mercury	87017-01-03 23:03 G	33503369.33	33503369.46	33503369.59	0.0144	0.0042
Mercury	87017-04-02 02:53 G	33503457.50	33503457.62	33503457.75	0.0144	0.0065
Mercury	87017-06-29 06:58 G	33503545.68	33503545.79	33503545.90	0.0144	0.0088
Mercury	87017-09-25 10:48 G	33503633.87	33503633.95	33503634.04	0.0144	0.0111
Mercury	87017-12-22 14:39 G	33503722.08	33503722.11	33503722.17	0.0144	0.0135
Mars	87021-05-18 06:00 G	33504964.61	33504964.75	33504964.93	0.0144	0.0125
Earth	87035-11-25 05:17 G	33510268.64	33510268.72	33510268.85	0.0140	0.0128
Moon	87035-11-25 05:32 G	33510268.68	33510268.73	33510268.82	0.0140	0.0135 *
Moon	87036-11-29 00:15 G	33510638.29	33510638.51	33510638.74	0.0140	0.0055
Earth	87036-11-29 00:15 G	33510638.30	33510638.51	33510638.76	0.0140	0.0062 *
Earth	87037-12-03 18:29 G	33511008.02	33511008.27	33511008.53	0.0139	0.0005
Moon	87037-12-03 19:41 G	33511008.06	33511008.32	33511008.59	0.0139	0.0004 *
Moon	87038-12-08 10:34 G	33511377.74	33511377.94	33511378.16	0.0139	0.0070
Earth	87038-12-08 11:46 G	33511377.77	33511377.99	33511378.21	0.0139	0.0070 *
Earth	87039-12-13 04:20 G	33511747.62	33511747.68	33511747.74	0.0138	0.0134
Venus	87044-06-28 19:41 G	33513407.22	33513407.32	33513407.43	0.0137	0.0119
Venus	87045-02-10 02:10 G	33513633.44	33513633.59	33513633.76	0.0137	0.0089

Venus	87045-09-24 08:24 G	33513859.67	33513859.85	33513860.06	0.0137	0.0060
Venus	87046-05-08 14:53 G	33514085.91	33514086.12	33514086.33	0.0136	0.0029
Venus	87046-12-20 20:53 G	33514312.16	33514312.37	33514312.59	0.0136	0.0003
Venus	87047-08-04 02:53 G	33514538.41	33514538.62	33514538.83	0.0136	0.0030
Venus	87048-03-17 08:24 G	33514764.67	33514764.85	33514765.05	0.0136	0.0060
Venus	87048-10-29 14:24 G	33514990.95	33514991.10	33514991.27	0.0136	0.0089
Venus	87049-06-12 19:56 G	33515217.24	33515217.33	33515217.45	0.0136	0.0118
Mercury	87057-02-15 16:05 G	33518022.12	33518022.17	33518022.25	0.0134	0.0127
Mercury	87057-05-14 22:48 G	33518110.34	33518110.45	33518110.59	0.0134	0.0101
Mercury	87057-08-11 05:46 G	33518198.59	33518198.74	33518198.90	0.0134	0.0075
Mercury	87057-11-07 12:15 G	33518286.85	33518287.01	33518287.19	0.0134	0.0050
Mercury	87058-02-03 18:58 G	33518375.11	33518375.29	33518375.48	0.0134	0.0024
Mercury	87058-05-03 01:41 G	33518463.38	33518463.57	33518463.75	0.0134	0.0003
Mercury	87058-07-30 08:10 G	33518551.66	33518551.84	33518552.02	0.0134	0.0026
Mercury	87058-10-26 14:24 G	33518639.94	33518640.10	33518640.28	0.0134	0.0052
Mercury	87059-01-22 20:53 G	33518728.23	33518728.37	33518728.53	0.0134	0.0076
Mercury	87059-04-21 03:22 G	33518816.52	33518816.64	33518816.76	0.0134	0.0101
Mercury	87059-07-18 09:22 G	33518904.84	33518904.89	33518904.97	0.0134	0.0126
Mars	87063-08-06 14:24 G	33520384.88	33520385.10	33520385.35	0.0134	0.0081
Earth	87080-05-26 02:53 G	33526522.41	33526522.62	33526522.83	0.0138	0.0076
Moon	87080-05-26 04:34 G	33526522.50	33526522.69	33526522.90	0.0138	0.0080 *
Moon	87081-05-30 14:39 G	33526891.85	33526892.11	33526892.37	0.0139	0.0007
Earth	87081-05-30 16:48 G	33526891.95	33526892.20	33526892.46	0.0139	0.0013 *
Earth	87082-06-04 06:58 G	33527261.57	33527261.79	33527262.04	0.0139	0.0053
Moon	87082-06-04 08:24 G	33527261.63	33527261.85	33527262.09	0.0139	0.0046 *
Moon	87083-06-08 21:08 G	33527631.27	33527631.38	33527631.50	0.0140	0.0125
Earth	87083-06-08 22:20 G	33527631.31	33527631.43	33527631.58	0.0140	0.0118 *
Venus	87087-11-09 15:36 G	33529246.13	33529246.15	33529246.22	0.0141	0.0138
Venus	87088-06-23 02:39 G	33529472.47	33529472.61	33529472.77	0.0141	0.0105
Venus	87089-02-04 13:41 G	33529698.88	33529699.07	33529699.26	0.0141	0.0071

Venus	87089-09-19 00:44 G	33529925.32	33529925.53	33529925.75	0.0142	0.0037
Venus	87090-05-03 12:15 G	33530151.79	33530152.01	33530152.23	0.0142	0.0002
Venus	87090-12-15 23:46 G	33530378.27	33530378.49	33530378.70	0.0142	0.0032
Venus	87091-07-30 11:03 G	33530604.78	33530604.96	33530605.16	0.0142	0.0067
Venus	87092-03-12 22:34 G	33530831.31	33530831.44	33530831.61	0.0142	0.0103
Venus	87092-10-25 10:48 G	33531057.90	33531057.95	33531058.02	0.0143	0.0137
Mercury	87099-02-19 00:00 G	33533365.45	33533365.50	33533365.56	0.0144	0.0131
Mercury	87099-05-18 03:51 G	33533453.58	33533453.66	33533453.75	0.0144	0.0109
Mercury	87099-08-14 07:27 G	33533541.71	33533541.81	33533541.93	0.0144	0.0087
Mercury	87099-11-10 11:32 G	33533629.86	33533629.98	33533630.10	0.0144	0.0064
Mercury	87100-02-06 15:22 G	33533718.01	33533718.14	33533718.27	0.0144	0.0042
Mercury	87100-05-05 19:12 G	33533806.16	33533806.30	33533806.43	0.0144	0.0019
Mercury	87100-08-01 23:03 G	33533894.32	33533894.46	33533894.60	0.0144	0.0004
Mercury	87100-10-29 02:53 G	33533982.49	33533982.62	33533982.76	0.0144	0.0027
Mercury	87101-01-25 06:44 G	33534070.65	33534070.78	33534070.91	0.0144	0.0050
Mercury	87101-04-23 10:34 G	33534158.83	33534158.94	33534159.07	0.0144	0.0073
Mercury	87101-07-20 14:39 G	33534247.01	33534247.11	33534247.21	0.0144	0.0096
Mercury	87101-10-16 18:29 G	33534335.20	33534335.27	33534335.35	0.0144	0.0120
Mercury	87102-01-12 22:20 G	33534423.43	33534423.43	33534423.46	0.0144	0.0143
Mars	87104-02-07 18:29 G	33535179.01	33535179.27	33535179.54	0.0144	0.0085
Moon	87119-11-26 17:17 G	33540950.07	33540950.22	33540950.38	0.0140	0.0114
Earth	87119-11-26 17:46 G	33540950.14	33540950.24	33540950.38	0.0140	0.0122 *
Earth	87120-11-30 12:44 G	33541319.80	33541320.03	33541320.27	0.0139	0.0055
Moon	87120-11-30 12:44 G	33541319.81	33541320.03	33541320.25	0.0139	0.0061 *
Moon	87121-12-05 06:58 G	33541689.52	33541689.79	33541690.05	0.0139	0.0015
Earth	87121-12-05 06:44 G	33541689.53	33541689.78	33541690.04	0.0139	0.0012 *
Moon	87122-12-09 23:03 G	33542059.26	33542059.46	33542059.66	0.0139	0.0078
Earth	87122-12-09 23:46 G	33542059.29	33542059.49	33542059.72	0.0139	0.0077 *
Moon	87123-12-14 17:03 G	33542429.19	33542429.21	33542429.27	0.0138	0.0137
Venus	87128-02-28 05:32 G	33543965.69	33543965.73	33543965.81	0.0137	0.0132

Venus	87128-10-11 12:29 G	33544191.89	33544192.02	33544192.17	0.0137	0.0102
Venus	87129-05-25 18:58 G	33544418.11	33544418.29	33544418.48	0.0137	0.0072
Venus	87130-01-07 01:12 G	33544644.35	33544644.55	33544644.76	0.0136	0.0042
Venus	87130-08-21 07:12 G	33544870.59	33544870.80	33544871.02	0.0136	0.0013
Venus	87131-04-04 13:12 G	33545096.84	33545097.05	33545097.27	0.0136	0.0018
Venus	87131-11-16 19:12 G	33545323.10	33545323.30	33545323.51	0.0136	0.0047
Venus	87132-06-30 00:58 G	33545549.37	33545549.54	33545549.72	0.0136	0.0076
Venus	87133-02-11 06:44 G	33545775.65	33545775.78	33545775.92	0.0136	0.0105
Venus	87133-09-25 12:00 G	33546001.98	33546002.00	33546002.04	0.0135	0.0134
Mercury	87141-03-08 23:32 G	33548723.40	33548723.48	33548723.57	0.0134	0.0119
Mercury	87141-06-05 06:15 G	33548811.63	33548811.76	33548811.90	0.0134	0.0093
Mercury	87141-09-01 12:44 G	33548899.88	33548900.03	33548900.20	0.0134	0.0068
Mercury	87141-11-28 19:41 G	33548988.14	33548988.32	33548988.49	0.0134	0.0042
Mercury	87142-02-25 02:10 G	33549076.41	33549076.59	33549076.77	0.0134	0.0017
Mercury	87142-05-24 08:39 G	33549164.68	33549164.86	33549165.05	0.0134	0.0009
Mercury	87142-08-20 15:08 G	33549252.96	33549253.13	33549253.31	0.0134	0.0034
Mercury	87142-11-16 21:36 G	33549341.24	33549341.40	33549341.57	0.0134	0.0059
Mercury	87143-02-13 03:51 G	33549429.53	33549429.66	33549429.81	0.0134	0.0084
Mercury	87143-05-12 10:05 G	33549517.83	33549517.92	33549518.05	0.0134	0.0109
Mercury	87143-08-08 16:34 G	33549606.18	33549606.19	33549606.23	0.0134	0.0133
Mars	87146-05-02 05:17 G	33550603.48	33550603.72	33550603.98	0.0134	0.0068
Moon	87163-05-23 21:08 G	33556834.32	33556834.38	33556834.46	0.0138	0.0132
Earth	87163-05-23 23:46 G	33556834.45	33556834.49	33556834.57	0.0138	0.0134 *
Earth	87164-05-27 12:58 G	33557203.84	33557204.04	33557204.27	0.0138	0.0071
Moon	87164-05-27 16:05 G	33557203.96	33557204.17	33557204.39	0.0138	0.0070 *
Moon	87165-06-01 00:44 G	33557573.28	33557573.53	33557573.80	0.0139	0.0013
Earth	87165-06-01 03:08 G	33557573.38	33557573.63	33557573.88	0.0139	0.0007 *
Earth	87166-06-05 17:17 G	33557943.00	33557943.22	33557943.46	0.0139	0.0058
Moon	87166-06-05 19:56 G	33557943.11	33557943.33	33557943.55	0.0139	0.0066 *
Moon	87167-06-10 06:29 G	33558312.65	33558312.77	33558312.93	0.0140	0.0117

Earth	87167-06-10 08:24 G	33558312.75	33558312.85	33558312.98	0.0140	0.0124	*
Venus	87172-02-22 09:22 G	33560030.79	33560030.89	33560031.02	0.0141	0.0120	
Venus	87172-10-05 20:39 G	33560257.18	33560257.36	33560257.53	0.0141	0.0086	
Venus	87173-05-20 07:41 G	33560483.62	33560483.82	33560484.03	0.0142	0.0052	
Venus	87174-01-01 18:58 G	33560710.07	33560710.29	33560710.51	0.0142	0.0018	
Venus	87174-08-16 06:15 G	33560936.54	33560936.76	33560936.98	0.0142	0.0017	
Venus	87175-03-30 18:00 G	33561163.04	33561163.25	33561163.45	0.0142	0.0051	
Venus	87175-11-12 05:32 G	33561389.56	33561389.73	33561389.91	0.0142	0.0086	
Venus	87176-06-25 17:03 G	33561616.12	33561616.21	33561616.35	0.0142	0.0122	
Mercury	87183-03-12 07:41 G	33564066.75	33564066.82	33564066.88	0.0144	0.0124	
Mercury	87183-06-08 11:17 G	33564154.88	33564154.97	33564155.07	0.0144	0.0102	
Mercury	87183-09-04 15:08 G	33564243.02	33564243.13	33564243.24	0.0144	0.0080	
Mercury	87183-12-01 18:58 G	33564331.17	33564331.29	33564331.42	0.0144	0.0057	
Mercury	87184-02-27 22:48 G	33564419.32	33564419.45	33564419.58	0.0144	0.0035	
Mercury	87184-05-26 02:39 G	33564507.47	33564507.61	33564507.75	0.0144	0.0012	
Mercury	87184-08-22 06:29 G	33564595.64	33564595.77	33564595.91	0.0144	0.0011	
Mercury	87184-11-18 10:20 G	33564683.80	33564683.93	33564684.07	0.0144	0.0034	
Mercury	87185-02-14 14:10 G	33564771.97	33564772.09	33564772.22	0.0144	0.0057	
Mercury	87185-05-13 18:15 G	33564860.15	33564860.26	33564860.37	0.0144	0.0080	
Mercury	87185-08-09 22:05 G	33564948.33	33564948.42	33564948.52	0.0144	0.0103	
Mercury	87185-11-06 01:56 G	33565036.53	33565036.58	33565036.65	0.0144	0.0127	
Mars	87188-10-04 02:39 G	33566099.33	33566099.61	33566099.93	0.0144	0.0059	
Moon	87203-11-27 05:46 G	33571631.61	33571631.74	33571631.86	0.0140	0.0122	
Earth	87203-11-27 06:29 G	33571631.64	33571631.77	33571631.93	0.0140	0.0115	*
Earth	87204-12-01 01:12 G	33572001.32	33572001.55	33572001.80	0.0139	0.0049	
Moon	87204-12-01 02:24 G	33572001.37	33572001.60	33572001.84	0.0139	0.0042	*
Moon	87205-12-05 19:27 G	33572371.05	33572371.31	33572371.58	0.0139	0.0015	
Earth	87205-12-05 19:27 G	33572371.06	33572371.31	33572371.57	0.0139	0.0018	*
Earth	87206-12-10 12:15 G	33572740.82	33572741.01	33572741.23	0.0139	0.0084	
Moon	87206-12-10 12:15 G	33572740.83	33572741.01	33572741.22	0.0139	0.0085	*

Venus	87212-06-10 23:03 G	33574750.35	33574750.46	33574750.58	0.0137	0.0114
Venus	87213-01-23 05:03 G	33574976.56	33574976.71	33574976.90	0.0137	0.0085
Venus	87213-09-06 11:32 G	33575202.79	33575202.98	33575203.19	0.0137	0.0055
Venus	87214-04-20 18:00 G	33575429.04	33575429.25	33575429.46	0.0136	0.0025
Venus	87214-12-03 00:00 G	33575655.29	33575655.50	33575655.72	0.0136	0.0005
Venus	87215-07-17 05:46 G	33575881.54	33575881.74	33575881.96	0.0136	0.0035
Venus	87216-02-28 11:32 G	33576107.80	33576107.98	33576108.18	0.0136	0.0064
Venus	87216-10-11 17:17 G	33576334.08	33576334.22	33576334.39	0.0136	0.0093
Venus	87217-05-25 22:48 G	33576560.37	33576560.45	33576560.56	0.0135	0.0122
Mercury	87225-03-29 06:29 G	33579424.68	33579424.77	33579424.88	0.0134	0.0112
Mercury	87225-06-25 12:58 G	33579512.91	33579513.04	33579513.20	0.0134	0.0087
Mercury	87225-09-21 19:56 G	33579601.17	33579601.33	33579601.50	0.0134	0.0060
Mercury	87225-12-19 02:24 G	33579689.43	33579689.60	33579689.79	0.0134	0.0036
Mercury	87226-03-17 09:08 G	33579777.70	33579777.88	33579778.07	0.0134	0.0010
Mercury	87226-06-13 15:36 G	33579865.97	33579866.15	33579866.34	0.0134	0.0016
Mercury	87226-09-09 22:05 G	33579954.25	33579954.42	33579954.60	0.0134	0.0041
Mercury	87226-12-07 04:34 G	33580042.54	33580042.69	33580042.86	0.0134	0.0065
Mercury	87227-03-05 10:48 G	33580130.83	33580130.95	33580131.10	0.0134	0.0090
Mercury	87227-06-01 17:17 G	33580219.14	33580219.22	33580219.32	0.0134	0.0115
Mars	87230-12-25 12:15 G	33581521.73	33581522.01	33581522.30	0.0134	0.0031
Moon	87247-05-24 04:34 G	33587515.66	33587515.69	33587515.78	0.0138	0.0134
Earth	87247-05-24 08:10 G	33587515.77	33587515.84	33587515.93	0.0138	0.0130 *
Earth	87248-05-27 21:08 G	33587885.17	33587885.38	33587885.61	0.0138	0.0067
Moon	87248-05-28 00:00 G	33587885.30	33587885.50	33587885.72	0.0138	0.0070 *
Moon	87249-06-01 07:56 G	33588254.57	33588254.83	33588255.09	0.0139	0.0001
Earth	87249-06-01 11:03 G	33588254.71	33588254.96	33588255.22	0.0139	0.0004 *
Earth	87250-06-06 01:12 G	33588624.33	33588624.55	33588624.78	0.0139	0.0062
Moon	87250-06-06 03:36 G	33588624.43	33588624.65	33588624.88	0.0139	0.0056 *
Moon	87251-06-10 13:27 G	33588994.02	33588994.06	33588994.14	0.0140	0.0136
Earth	87251-06-10 16:05 G	33588994.09	33588994.17	33588994.29	0.0140	0.0128 *

Venus	87255-10-22 14:53 G	33590589.07	33590589.12	33590589.19	0.0141	0.0135
Venus	87256-06-05 01:27 G	33590815.43	33590815.56	33590815.73	0.0141	0.0103
Venus	87257-01-17 12:44 G	33591041.84	33591042.03	33591042.23	0.0142	0.0068
Venus	87257-08-31 23:46 G	33591268.29	33591268.49	33591268.72	0.0142	0.0035
Venus	87258-04-15 11:32 G	33591494.76	33591494.98	33591495.20	0.0142	0.0000
Venus	87258-11-27 23:03 G	33591721.25	33591721.46	33591721.68	0.0142	0.0035
Venus	87259-07-12 10:34 G	33591947.75	33591947.94	33591948.14	0.0142	0.0069
Venus	87260-02-23 22:05 G	33592174.29	33592174.42	33592174.59	0.0142	0.0105
Venus	87260-10-07 10:20 G	33592400.89	33592400.93	33592400.99	0.0143	0.0139
Mercury	87267-01-03 10:48 G	33594679.93	33594679.95	33594679.97	0.0144	0.0142
Mercury	87267-04-01 14:24 G	33594768.04	33594768.10	33594768.18	0.0144	0.0120
Mercury	87267-06-28 18:29 G	33594856.17	33594856.27	33594856.37	0.0144	0.0097
Mercury	87267-09-24 22:05 G	33594944.31	33594944.42	33594944.54	0.0144	0.0075
Mercury	87267-12-22 01:56 G	33595032.46	33595032.58	33595032.71	0.0144	0.0053
Mercury	87268-03-19 05:46 G	33595120.61	33595120.74	33595120.88	0.0144	0.0030
Mercury	87268-06-15 09:51 G	33595208.77	33595208.91	33595209.04	0.0144	0.0008
Mercury	87268-09-11 13:41 G	33595296.93	33595297.07	33595297.20	0.0144	0.0016
Mercury	87268-12-08 17:32 G	33595385.10	33595385.23	33595385.36	0.0144	0.0039
Mercury	87269-03-06 21:22 G	33595473.27	33595473.39	33595473.52	0.0144	0.0062
Mercury	87269-06-03 01:12 G	33595561.45	33595561.55	33595561.67	0.0144	0.0086
Mercury	87269-08-30 05:17 G	33595649.63	33595649.72	33595649.81	0.0144	0.0109
Mercury	87269-11-26 09:08 G	33595737.84	33595737.88	33595737.94	0.0144	0.0132
Moon	87287-11-27 16:34 G	33602313.02	33602313.19	33602313.38	0.0140	0.0102
Earth	87287-11-27 18:29 G	33602313.13	33602313.27	33602313.45	0.0140	0.0109 *
Earth	87288-12-01 13:12 G	33602682.82	33602683.05	33602683.31	0.0140	0.0042
Moon	87288-12-01 14:10 G	33602682.87	33602683.09	33602683.34	0.0140	0.0049 *
Moon	87289-12-06 06:15 G	33603052.51	33603052.76	33603053.02	0.0139	0.0030
Earth	87289-12-06 07:27 G	33603052.56	33603052.81	33603053.07	0.0139	0.0025 *
Earth	87290-12-11 00:15 G	33603422.33	33603422.51	33603422.72	0.0139	0.0091
Moon	87290-12-11 00:29 G	33603422.35	33603422.52	33603422.72	0.0139	0.0091 *

Venus	87296-02-09 09:08 G	33605308.82	33605308.88	33605308.98	0.0137	0.0127
Venus	87296-09-22 15:51 G	33605535.02	33605535.16	33605535.32	0.0137	0.0097
Venus	87297-05-06 22:20 G	33605761.25	33605761.43	33605761.62	0.0137	0.0067
Venus	87297-12-19 04:34 G	33605987.49	33605987.69	33605987.90	0.0136	0.0037
Venus	87298-08-02 10:48 G	33606213.73	33606213.95	33606214.16	0.0136	0.0007
Venus	87299-03-16 16:48 G	33606439.99	33606440.20	33606440.41	0.0136	0.0022
Venus	87299-10-28 22:34 G	33606666.25	33606666.44	33606666.65	0.0136	0.0052
Venus	87300-06-12 04:20 G	33606892.52	33606892.68	33606892.86	0.0136	0.0081
Venus	87301-01-24 09:51 G	33607118.80	33607118.91	33607119.05	0.0136	0.0109
Mercury	87309-01-21 06:58 G	33610037.76	33610037.79	33610037.85	0.0134	0.0129
Mercury	87309-04-19 13:56 G	33610125.97	33610126.08	33610126.20	0.0134	0.0103
Mercury	87309-07-16 20:24 G	33610214.21	33610214.35	33610214.51	0.0134	0.0078
Mercury	87309-10-13 03:22 G	33610302.47	33610302.64	33610302.81	0.0134	0.0052
Mercury	87310-01-09 09:51 G	33610390.73	33610390.91	33610391.10	0.0134	0.0027
Mercury	87310-04-07 16:34 G	33610479.00	33610479.19	33610479.37	0.0134	0.0002
Mercury	87310-07-04 23:03 G	33610567.28	33610567.46	33610567.64	0.0134	0.0023
Mercury	87310-10-01 05:32 G	33610655.56	33610655.73	33610655.90	0.0134	0.0048
Mercury	87310-12-28 11:46 G	33610743.85	33610743.99	33610744.15	0.0134	0.0073
Mercury	87311-03-26 18:00 G	33610832.14	33610832.25	33610832.39	0.0134	0.0098
Mercury	87311-06-23 00:29 G	33610920.46	33610920.52	33610920.61	0.0134	0.0123
Mars	87313-09-20 05:32 G	33611740.60	33611740.73	33611740.90	0.0134	0.0115
Mars	87315-08-20 20:53 G	33612440.35	33612440.37	33612440.45	0.0134	0.0133
Moon	87331-05-25 13:56 G	33618196.98	33618197.08	33618197.20	0.0138	0.0123
Earth	87331-05-25 17:32 G	33618197.14	33618197.23	33618197.34	0.0138	0.0126 *
Earth	87332-05-29 06:29 G	33618566.54	33618566.77	33618566.99	0.0138	0.0063
Moon	87332-05-29 09:36 G	33618566.69	33618566.90	33618567.14	0.0138	0.0064 *
Moon	87333-06-02 16:48 G	33618935.94	33618936.20	33618936.46	0.0139	0.0003
Earth	87333-06-02 19:56 G	33618936.08	33618936.33	33618936.58	0.0139	0.0002 *
Earth	87334-06-07 09:51 G	33619305.70	33619305.91	33619306.14	0.0139	0.0067
Moon	87334-06-07 13:12 G	33619305.84	33619306.05	33619306.26	0.0139	0.0073 *

Moon	87335-06-11 21:51 G	33619675.31	33619675.41	33619675.54	0.0140	0.0125
Earth	87335-06-12 00:29 G	33619675.47	33619675.52	33619675.62	0.0140	0.0133 *
Venus	87340-02-04 06:58 G	33621373.68	33621373.79	33621373.92	0.0141	0.0118
Venus	87340-09-17 18:00 G	33621600.08	33621600.25	33621600.43	0.0141	0.0085
Venus	87341-05-02 05:17 G	33621826.52	33621826.72	33621826.93	0.0142	0.0051
Venus	87341-12-14 16:34 G	33622052.97	33622053.19	33622053.41	0.0142	0.0017
Venus	87342-07-29 03:51 G	33622279.45	33622279.66	33622279.88	0.0142	0.0018
Venus	87343-03-12 15:22 G	33622505.94	33622506.14	33622506.35	0.0142	0.0052
Venus	87343-10-25 03:08 G	33622732.46	33622732.63	33622732.81	0.0142	0.0087
Venus	87344-06-07 14:53 G	33622959.02	33622959.12	33622959.25	0.0143	0.0122
Mercury	87351-01-24 17:32 G	33625381.20	33625381.23	33625381.27	0.0144	0.0138
Mercury	87351-04-22 21:22 G	33625469.32	33625469.39	33625469.47	0.0144	0.0116
Mercury	87351-07-20 00:58 G	33625557.45	33625557.54	33625557.65	0.0144	0.0094
Mercury	87351-10-16 05:03 G	33625645.59	33625645.71	33625645.83	0.0144	0.0071
Mercury	87352-01-12 08:53 G	33625733.74	33625733.87	33625734.00	0.0144	0.0048
Mercury	87352-04-09 12:44 G	33625821.90	33625822.03	33625822.16	0.0144	0.0026
Mercury	87352-07-06 16:34 G	33625910.06	33625910.19	33625910.33	0.0144	0.0003
Mercury	87352-10-02 20:24 G	33625998.22	33625998.35	33625998.49	0.0144	0.0020
Mercury	87352-12-30 00:15 G	33626086.38	33626086.51	33626086.65	0.0144	0.0044
Mercury	87353-03-28 04:20 G	33626174.56	33626174.68	33626174.80	0.0144	0.0066
Mercury	87353-06-24 08:10 G	33626262.74	33626262.84	33626262.95	0.0144	0.0090
Mercury	87353-09-20 12:00 G	33626350.93	33626351.00	33626351.09	0.0144	0.0113
Mercury	87353-12-17 15:51 G	33626439.14	33626439.16	33626439.22	0.0144	0.0137
Mars	87356-02-20 05:46 G	33627233.43	33627233.74	33627234.08	0.0144	0.0022
Moon	87371-11-29 01:41 G	33632994.43	33632994.57	33632994.75	0.0140	0.0112
Earth	87371-11-29 04:05 G	33632994.52	33632994.67	33632994.86	0.0140	0.0104 *
Earth	87372-12-02 23:17 G	33633364.23	33633364.47	33633364.72	0.0140	0.0037
Moon	87372-12-03 01:27 G	33633364.32	33633364.56	33633364.80	0.0140	0.0030 *
Moon	87373-12-07 16:05 G	33633733.92	33633734.17	33633734.44	0.0139	0.0026
Earth	87373-12-07 17:32 G	33633733.98	33633734.23	33633734.48	0.0139	0.0030 *

Earth	87374-12-12 10:34 G	33634103.76	33634103.94	33634104.12	0.0139	0.0096
Moon	87374-12-12 11:46 G	33634103.82	33634103.99	33634104.17	0.0139	0.0098 *
Venus	87380-05-24 01:27 G	33636093.45	33636093.56	33636093.70	0.0137	0.0110
Venus	87381-01-05 08:10 G	33636319.67	33636319.84	33636320.02	0.0137	0.0080
Venus	87381-08-19 14:39 G	33636545.91	33636546.11	33636546.31	0.0137	0.0050
Venus	87382-04-02 20:39 G	33636772.15	33636772.36	33636772.58	0.0136	0.0021
Venus	87382-11-15 03:08 G	33636998.41	33636998.63	33636998.84	0.0136	0.0009
Venus	87383-06-29 08:53 G	33637224.67	33637224.87	33637225.08	0.0136	0.0039
Venus	87384-02-10 14:39 G	33637450.93	33637451.11	33637451.31	0.0136	0.0068
Venus	87384-09-23 20:24 G	33637677.21	33637677.35	33637677.51	0.0136	0.0097
Venus	87385-05-08 02:10 G	33637903.51	33637903.59	33637903.67	0.0136	0.0125
Mercury	87393-02-10 14:24 G	33640739.03	33640739.10	33640739.18	0.0134	0.0122
Mercury	87393-05-09 20:53 G	33640827.25	33640827.37	33640827.51	0.0134	0.0096
Mercury	87393-08-06 03:51 G	33640915.50	33640915.66	33640915.82	0.0134	0.0070
Mercury	87393-11-02 10:20 G	33641003.76	33641003.93	33641004.11	0.0134	0.0045
Mercury	87394-01-29 17:03 G	33641092.03	33641092.21	33641092.40	0.0134	0.0020
Mercury	87394-04-27 23:46 G	33641180.30	33641180.49	33641180.67	0.0134	0.0006
Mercury	87394-07-25 06:15 G	33641268.58	33641268.76	33641268.94	0.0134	0.0031
Mercury	87394-10-21 12:29 G	33641356.86	33641357.02	33641357.20	0.0134	0.0056
Mercury	87395-01-17 19:12 G	33641445.15	33641445.30	33641445.45	0.0134	0.0081
Mercury	87395-04-16 01:27 G	33641533.46	33641533.56	33641533.68	0.0134	0.0105
Mercury	87395-07-13 07:56 G	33641621.79	33641621.83	33641621.88	0.0134	0.0130
Mars	87398-05-15 13:27 G	33642658.77	33642659.06	33642659.35	0.0134	0.0015
Moon	87415-05-26 22:48 G	33648878.38	33648878.45	33648878.57	0.0138	0.0127
Earth	87415-05-27 02:24 G	33648878.51	33648878.60	33648878.74	0.0138	0.0122 *
Earth	87416-05-30 15:08 G	33649247.91	33649248.13	33649248.37	0.0138	0.0059
Moon	87416-05-30 18:44 G	33649248.06	33649248.28	33649248.51	0.0138	0.0059 *
Moon	87417-06-04 00:58 G	33649617.29	33649617.54	33649617.80	0.0139	0.0008
Earth	87417-06-04 04:48 G	33649617.44	33649617.70	33649617.95	0.0139	0.0006 *
Earth	87418-06-08 18:15 G	33649987.06	33649987.26	33649987.49	0.0139	0.0071

Moon	87418-06-08 21:51 G	33649987.19	33649987.41	33649987.63	0.0139	0.0065 *
Earth	87419-06-13 09:08 G	33650356.85	33650356.88	33650356.95	0.0139	0.0137
Venus	87423-10-05 12:29 G	33651931.97	33651932.02	33651932.11	0.0141	0.0134
Venus	87424-05-18 23:46 G	33652158.34	33652158.49	33652158.65	0.0141	0.0101
Venus	87424-12-31 10:34 G	33652384.76	33652384.94	33652385.14	0.0141	0.0067
Venus	87425-08-14 21:36 G	33652611.20	33652611.40	33652611.62	0.0142	0.0034
Venus	87426-03-29 09:08 G	33652837.66	33652837.88	33652838.10	0.0142	0.0002
Venus	87426-11-10 20:39 G	33653064.15	33653064.36	33653064.58	0.0142	0.0035
Venus	87427-06-25 08:10 G	33653290.65	33653290.84	33653291.04	0.0142	0.0070
Venus	87428-02-06 19:41 G	33653517.18	33653517.32	33653517.48	0.0142	0.0104
Venus	87428-09-20 07:27 G	33653743.78	33653743.81	33653743.88	0.0143	0.0139
Mercury	87435-02-15 00:29 G	33656082.48	33656082.52	33656082.57	0.0144	0.0134
Mercury	87435-05-14 04:20 G	33656170.60	33656170.68	33656170.77	0.0144	0.0112
Mercury	87435-08-10 07:56 G	33656258.73	33656258.83	33656258.94	0.0144	0.0090
Mercury	87435-11-06 11:46 G	33656346.88	33656346.99	33656347.12	0.0144	0.0067
Mercury	87436-02-02 15:36 G	33656435.03	33656435.15	33656435.29	0.0144	0.0045
Mercury	87436-04-30 19:27 G	33656523.18	33656523.31	33656523.45	0.0144	0.0022
Mercury	87436-07-27 23:32 G	33656611.34	33656611.48	33656611.61	0.0144	0.0003
Mercury	87436-10-24 03:22 G	33656699.51	33656699.64	33656699.77	0.0144	0.0024
Mercury	87437-01-20 07:12 G	33656787.67	33656787.80	33656787.93	0.0144	0.0047
Mercury	87437-04-18 11:03 G	33656875.85	33656875.96	33656876.09	0.0144	0.0071
Mercury	87437-07-15 15:08 G	33656964.03	33656964.13	33656964.23	0.0144	0.0094
Mercury	87437-10-11 19:12 G	33657052.22	33657052.30	33657052.38	0.0144	0.0117
Mercury	87438-01-07 23:03 G	33657140.44	33657140.46	33657140.49	0.0144	0.0141
Mars	87440-10-17 07:27 G	33658153.64	33658153.81	33658154.03	0.0144	0.0115
Moon	87455-11-30 10:48 G	33663675.76	33663675.95	33663676.15	0.0140	0.0093
Earth	87455-11-30 13:27 G	33663675.90	33663676.06	33663676.26	0.0140	0.0100 *
Earth	87456-12-04 08:39 G	33664045.62	33664045.86	33664046.12	0.0140	0.0032
Moon	87456-12-04 11:03 G	33664045.72	33664045.96	33664046.20	0.0140	0.0039 *
Moon	87457-12-09 00:29 G	33664415.28	33664415.52	33664415.78	0.0139	0.0042

Earth	87457-12-09 02:53 G	33664415.38	33664415.62	33664415.87	0.0139	0.0036 *
Earth	87458-12-13 19:41 G	33664785.17	33664785.32	33664785.51	0.0139	0.0102
Moon	87458-12-13 21:22 G	33664785.23	33664785.39	33664785.57	0.0139	0.0100 *
Venus	87464-01-23 10:48 G	33666651.88	33666651.95	33666652.06	0.0137	0.0123
Venus	87464-09-05 17:32 G	33666878.09	33666878.23	33666878.40	0.0137	0.0093
Venus	87465-04-20 00:15 G	33667104.33	33667104.51	33667104.71	0.0137	0.0063
Venus	87465-12-02 06:44 G	33667330.57	33667330.78	33667330.99	0.0137	0.0033
Venus	87466-07-16 12:58 G	33667556.83	33667557.04	33667557.26	0.0136	0.0004
Venus	87467-02-27 18:58 G	33667783.08	33667783.29	33667783.51	0.0136	0.0026
Venus	87467-10-12 00:58 G	33668009.35	33668009.54	33668009.74	0.0136	0.0055
Venus	87468-05-25 06:44 G	33668235.62	33668235.78	33668235.96	0.0136	0.0084
Venus	87469-01-06 12:15 G	33668461.91	33668462.01	33668462.15	0.0136	0.0113
Mercury	87477-03-03 21:36 G	33671440.31	33671440.40	33671440.51	0.0134	0.0114
Mercury	87477-05-31 04:34 G	33671528.55	33671528.69	33671528.83	0.0134	0.0088
Mercury	87477-08-27 11:03 G	33671616.80	33671616.96	33671617.13	0.0134	0.0062
Mercury	87477-11-23 18:00 G	33671705.07	33671705.25	33671705.43	0.0134	0.0037
Mercury	87478-02-20 00:29 G	33671793.34	33671793.52	33671793.71	0.0134	0.0011
Mercury	87478-05-19 07:12 G	33671881.61	33671881.80	33671881.98	0.0134	0.0014
Mercury	87478-08-15 13:27 G	33671969.89	33671970.06	33671970.25	0.0134	0.0040
Mercury	87478-11-11 19:56 G	33672058.18	33672058.33	33672058.50	0.0134	0.0065
Mercury	87479-02-08 02:24 G	33672146.47	33672146.60	33672146.75	0.0134	0.0089
Mercury	87479-05-07 08:53 G	33672234.78	33672234.87	33672234.97	0.0134	0.0114
Mars	87483-01-08 22:20 G	33673577.23	33673577.43	33673577.67	0.0134	0.0086
Moon	87499-05-27 10:48 G	33679559.82	33679559.95	33679560.11	0.0138	0.0112
Earth	87499-05-27 14:39 G	33679559.98	33679560.11	33679560.25	0.0138	0.0116 *
Earth	87500-06-01 03:08 G	33679929.40	33679929.63	33679929.87	0.0138	0.0053
Moon	87500-06-01 06:44 G	33679929.55	33679929.78	33679930.02	0.0138	0.0054 *
Moon	87501-06-05 12:58 G	33680298.79	33680299.04	33680299.29	0.0139	0.0008
Earth	87501-06-05 16:34 G	33680298.93	33680299.19	33680299.44	0.0139	0.0012 *
Earth	87502-06-10 06:00 G	33680668.56	33680668.75	33680668.98	0.0139	0.0077

Moon	87502-06-10 09:51 G	33680668.72	33680668.91	33680669.12	0.0139	0.0083 *
Moon	87503-06-14 17:32 G	33681038.19	33681038.23	33681038.31	0.0139	0.0136
Venus	87508-01-18 07:41 G	33682716.69	33682716.82	33682716.95	0.0141	0.0114
Venus	87508-08-31 18:15 G	33682943.09	33682943.26	33682943.45	0.0141	0.0082
Venus	87509-04-15 05:32 G	33683169.53	33683169.73	33683169.94	0.0141	0.0048
Venus	87509-11-27 16:48 G	33683395.98	33683396.20	33683396.42	0.0142	0.0014
Venus	87510-07-12 04:05 G	33683622.45	33683622.67	33683622.89	0.0142	0.0020
Venus	87511-02-23 15:22 G	33683848.94	33683849.14	33683849.35	0.0142	0.0055
Venus	87511-10-08 02:39 G	33684075.46	33684075.61	33684075.80	0.0142	0.0090
Venus	87512-05-21 14:39 G	33684302.02	33684302.11	33684302.24	0.0142	0.0124
Mercury	87519-03-08 07:41 G	33686783.78	33686783.82	33686783.90	0.0144	0.0128
Mercury	87519-06-04 11:46 G	33686871.90	33686871.99	33686872.08	0.0144	0.0105
Mercury	87519-08-31 15:22 G	33686960.04	33686960.14	33686960.26	0.0144	0.0083
Mercury	87519-11-27 19:27 G	33687048.19	33687048.31	33687048.43	0.0144	0.0060
Mercury	87520-02-23 23:03 G	33687136.34	33687136.46	33687136.60	0.0144	0.0038
Mercury	87520-05-22 03:08 G	33687224.49	33687224.63	33687224.76	0.0144	0.0015
Mercury	87520-08-18 06:58 G	33687312.65	33687312.79	33687312.92	0.0144	0.0009
Mercury	87520-11-14 10:48 G	33687400.82	33687400.95	33687401.08	0.0144	0.0031
Mercury	87521-02-10 14:39 G	33687488.99	33687489.11	33687489.24	0.0144	0.0054
Mercury	87521-05-09 18:29 G	33687577.16	33687577.27	33687577.39	0.0144	0.0078
Mercury	87521-08-05 22:20 G	33687665.34	33687665.43	33687665.54	0.0144	0.0101
Mercury	87521-11-02 02:24 G	33687753.54	33687753.60	33687753.67	0.0144	0.0124
Mars	87523-07-09 08:10 G	33688367.63	33688367.84	33688368.10	0.0144	0.0101
Moon	87539-12-01 20:39 G	33694357.20	33694357.36	33694357.55	0.0140	0.0102
Earth	87539-12-02 00:00 G	33694357.32	33694357.50	33694357.70	0.0140	0.0095 *
Earth	87540-12-05 18:58 G	33694727.05	33694727.29	33694727.55	0.0140	0.0027
Moon	87540-12-05 22:05 G	33694727.17	33694727.42	33694727.67	0.0140	0.0019 *
Moon	87541-12-10 10:48 G	33695096.70	33695096.95	33695097.21	0.0139	0.0035
Earth	87541-12-10 12:58 G	33695096.81	33695097.04	33695097.30	0.0139	0.0042 *
Earth	87542-12-15 06:00 G	33695466.60	33695466.75	33695466.92	0.0139	0.0107

Moon	87542-12-15 08:10 G	33695466.72	33695466.84	33695467.01	0.0139	0.0111	*
Venus	87547-09-23 20:53 G	33697210.34	33697210.37	33697210.40	0.0137	0.0136	
Venus	87548-05-07 03:22 G	33697436.52	33697436.64	33697436.79	0.0137	0.0106	
Venus	87548-12-19 10:05 G	33697662.75	33697662.92	33697663.11	0.0137	0.0076	
Venus	87549-08-02 16:48 G	33697889.00	33697889.20	33697889.40	0.0137	0.0046	
Venus	87550-03-16 23:03 G	33698115.25	33698115.46	33698115.68	0.0136	0.0016	
Venus	87550-10-29 05:17 G	33698341.51	33698341.72	33698341.94	0.0136	0.0014	
Venus	87551-06-12 11:32 G	33698567.77	33698567.98	33698568.18	0.0136	0.0042	
Venus	87552-01-24 17:17 G	33698794.04	33698794.22	33698794.41	0.0136	0.0071	
Venus	87552-09-06 23:03 G	33699020.32	33699020.46	33699020.61	0.0136	0.0100	
Venus	87553-04-21 04:20 G	33699246.63	33699246.68	33699246.76	0.0136	0.0129	
Mercury	87560-12-26 22:05 G	33702053.40	33702053.42	33702053.47	0.0134	0.0132	
Mercury	87561-03-25 05:03 G	33702141.60	33702141.71	33702141.83	0.0134	0.0105	
Mercury	87561-06-21 11:46 G	33702229.85	33702229.99	33702230.15	0.0134	0.0080	
Mercury	87561-09-17 18:29 G	33702318.11	33702318.27	33702318.45	0.0134	0.0054	
Mercury	87561-12-15 01:12 G	33702406.37	33702406.55	33702406.74	0.0134	0.0029	
Mercury	87562-03-13 07:56 G	33702494.64	33702494.83	33702495.02	0.0134	0.0003	
Mercury	87562-06-09 14:24 G	33702582.92	33702583.10	33702583.29	0.0134	0.0022	
Mercury	87562-09-05 20:53 G	33702671.20	33702671.37	33702671.55	0.0134	0.0048	
Mercury	87562-12-03 03:22 G	33702759.49	33702759.64	33702759.80	0.0134	0.0072	
Mercury	87563-03-01 09:51 G	33702847.79	33702847.91	33702848.04	0.0134	0.0097	
Mercury	87563-05-28 16:34 G	33702936.11	33702936.19	33702936.26	0.0134	0.0122	
Mars	87565-10-04 18:00 G	33703796.01	33703796.25	33703796.52	0.0134	0.0059	
Moon	87583-05-28 22:48 G	33710241.32	33710241.45	33710241.58	0.0138	0.0116	
Earth	87583-05-29 01:41 G	33710241.44	33710241.57	33710241.73	0.0138	0.0111	*
Earth	87584-06-01 14:10 G	33710610.86	33710611.09	33710611.34	0.0138	0.0047	
Moon	87584-06-01 17:46 G	33710611.01	33710611.24	33710611.49	0.0138	0.0047	*
Moon	87585-06-06 00:00 G	33710980.26	33710980.50	33710980.75	0.0139	0.0019	
Earth	87585-06-06 03:36 G	33710980.41	33710980.65	33710980.91	0.0139	0.0018	*
Earth	87586-06-10 17:17 G	33711350.04	33711350.22	33711350.44	0.0139	0.0083	

Moon	87586-06-10 20:53 G	33711350.17	33711350.37	33711350.59	0.0139	0.0077 *
Venus	87591-09-17 15:22 G	33713275.06	33713275.14	33713275.23	0.0141	0.0128
Venus	87592-05-01 02:24 G	33713501.44	33713501.60	33713501.76	0.0141	0.0095
Venus	87592-12-13 13:12 G	33713727.86	33713728.05	33713728.25	0.0141	0.0062
Venus	87593-07-28 00:15 G	33713954.30	33713954.51	33713954.73	0.0142	0.0029
Venus	87594-03-11 11:32 G	33714180.76	33714180.98	33714181.20	0.0142	0.0006
Venus	87594-10-23 22:48 G	33714407.25	33714407.45	33714407.67	0.0142	0.0040
Venus	87595-06-07 10:20 G	33714633.76	33714633.93	33714634.13	0.0142	0.0075
Venus	87596-01-19 22:05 G	33714860.29	33714860.42	33714860.57	0.0142	0.0109
Mercury	87602-12-30 11:46 G	33717396.98	33717396.99	33717397.02	0.0144	0.0142
Mercury	87603-03-28 15:51 G	33717485.08	33717485.16	33717485.23	0.0144	0.0119
Mercury	87603-06-24 19:27 G	33717573.22	33717573.31	33717573.41	0.0144	0.0097
Mercury	87603-09-20 23:17 G	33717661.36	33717661.47	33717661.59	0.0144	0.0075
Mercury	87603-12-18 03:08 G	33717749.50	33717749.63	33717749.76	0.0144	0.0052
Mercury	87604-03-15 06:58 G	33717837.66	33717837.79	33717837.92	0.0144	0.0029
Mercury	87604-06-11 10:48 G	33717925.81	33717925.95	33717926.09	0.0144	0.0006
Mercury	87604-09-07 14:39 G	33718013.98	33718014.11	33718014.25	0.0144	0.0017
Mercury	87604-12-04 18:29 G	33718102.14	33718102.27	33718102.40	0.0144	0.0040
Mercury	87605-03-02 22:20 G	33718190.31	33718190.43	33718190.56	0.0144	0.0063
Mercury	87605-05-30 02:24 G	33718278.49	33718278.60	33718278.71	0.0144	0.0086
Mercury	87605-08-26 06:00 G	33718366.68	33718366.75	33718366.85	0.0144	0.0110
Mercury	87605-11-22 10:05 G	33718454.88	33718454.92	33718454.98	0.0144	0.0133
Mars	87608-03-04 22:20 G	33719288.12	33719288.43	33719288.75	0.0144	0.0044
Moon	87623-12-02 09:08 G	33725038.69	33725038.88	33725039.11	0.0140	0.0082
Earth	87623-12-02 12:29 G	33725038.84	33725039.02	33725039.24	0.0140	0.0088 *
Earth	87624-12-06 07:41 G	33725408.57	33725408.82	33725409.08	0.0140	0.0020
Moon	87624-12-06 10:48 G	33725408.71	33725408.95	33725409.20	0.0140	0.0027 *
Moon	87625-12-10 22:20 G	33725778.21	33725778.43	33725778.68	0.0139	0.0056
Earth	87625-12-11 01:41 G	33725778.34	33725778.57	33725778.82	0.0139	0.0048 *
Earth	87626-12-15 18:44 G	33726148.15	33726148.28	33726148.44	0.0139	0.0114

Moon	87626-12-15 20:53 G	33726148.25	33726148.37	33726148.54	0.0139	0.0112	*
Venus	87632-01-05 14:10 G	33727995.00	33727995.09	33727995.22	0.0137	0.0118	
Venus	87632-08-18 21:08 G	33728221.22	33728221.38	33728221.55	0.0137	0.0088	
Venus	87633-04-02 03:51 G	33728447.46	33728447.66	33728447.85	0.0137	0.0058	
Venus	87633-11-14 10:20 G	33728673.72	33728673.93	33728674.14	0.0137	0.0028	
Venus	87634-06-28 16:34 G	33728899.98	33728900.19	33728900.41	0.0136	0.0002	
Venus	87635-02-09 22:34 G	33729126.24	33729126.44	33729126.65	0.0136	0.0030	
Venus	87635-09-24 04:34 G	33729352.50	33729352.69	33729352.89	0.0136	0.0059	
Venus	87636-05-07 10:20 G	33729578.77	33729578.93	33729579.10	0.0136	0.0088	
Venus	87636-12-19 15:51 G	33729805.07	33729805.16	33729805.28	0.0136	0.0117	
Mercury	87645-01-16 06:00 G	33732754.68	33732754.75	33732754.84	0.0134	0.0122	
Mercury	87645-04-14 12:58 G	33732842.91	33732843.04	33732843.17	0.0134	0.0096	
Mercury	87645-07-11 19:27 G	33732931.16	33732931.31	33732931.48	0.0134	0.0070	
Mercury	87645-10-08 02:24 G	33733019.43	33733019.60	33733019.78	0.0134	0.0044	
Mercury	87646-01-04 08:53 G	33733107.69	33733107.87	33733108.06	0.0134	0.0020	
Mercury	87646-04-02 15:36 G	33733195.97	33733196.15	33733196.34	0.0134	0.0007	
Mercury	87646-06-29 22:05 G	33733284.25	33733284.42	33733284.61	0.0134	0.0032	
Mercury	87646-09-26 04:34 G	33733372.53	33733372.69	33733372.87	0.0134	0.0057	
Mercury	87646-12-23 11:03 G	33733460.83	33733460.96	33733461.12	0.0134	0.0082	
Mercury	87647-03-21 17:46 G	33733549.13	33733549.24	33733549.35	0.0134	0.0107	
Mercury	87647-06-18 00:00 G	33733637.47	33733637.50	33733637.54	0.0134	0.0131	
Mars	87650-05-30 02:53 G	33734714.35	33734714.62	33734714.90	0.0134	0.0043	
Moon	87667-05-29 10:48 G	33740922.79	33740922.95	33740923.13	0.0138	0.0100	
Earth	87667-05-29 14:10 G	33740922.95	33740923.09	33740923.27	0.0138	0.0105	*
Earth	87668-06-02 02:53 G	33741292.39	33741292.62	33741292.87	0.0138	0.0041	
Moon	87668-06-02 06:15 G	33741292.52	33741292.76	33741293.01	0.0138	0.0044	*
Moon	87669-06-06 12:44 G	33741661.79	33741662.03	33741662.29	0.0139	0.0022	
Earth	87669-06-06 16:20 G	33741661.94	33741662.18	33741662.43	0.0139	0.0024	*
Earth	87670-06-11 06:00 G	33742031.58	33742031.75	33742031.96	0.0139	0.0091	
Moon	87670-06-11 10:05 G	33742031.74	33742031.92	33742032.11	0.0139	0.0095	*

Venus	87675-12-30 10:48 G	33744059.83	33744059.95	33744060.10	0.0141	0.0109
Venus	87676-08-12 21:51 G	33744286.23	33744286.41	33744286.60	0.0141	0.0076
Venus	87677-03-27 08:53 G	33744512.66	33744512.87	33744513.09	0.0142	0.0042
Venus	87677-11-08 20:10 G	33744739.12	33744739.34	33744739.56	0.0142	0.0008
Venus	87678-06-23 07:27 G	33744965.60	33744965.81	33744966.03	0.0142	0.0026
Venus	87679-02-04 18:44 G	33745192.09	33745192.28	33745192.49	0.0142	0.0060
Venus	87679-09-19 06:15 G	33745418.61	33745418.76	33745418.94	0.0142	0.0095
Venus	87680-05-02 18:00 G	33745645.18	33745645.25	33745645.36	0.0143	0.0129
Mercury	87687-01-19 19:56 G	33748098.28	33748098.33	33748098.38	0.0144	0.0132
Mercury	87687-04-17 23:32 G	33748186.40	33748186.48	33748186.57	0.0144	0.0110
Mercury	87687-07-15 03:22 G	33748274.54	33748274.64	33748274.75	0.0144	0.0088
Mercury	87687-10-11 07:12 G	33748362.69	33748362.80	33748362.93	0.0144	0.0065
Mercury	87688-01-07 11:03 G	33748450.83	33748450.96	33748451.09	0.0144	0.0043
Mercury	87688-04-04 14:53 G	33748538.99	33748539.12	33748539.26	0.0144	0.0020
Mercury	87688-07-01 18:44 G	33748627.15	33748627.28	33748627.42	0.0144	0.0006
Mercury	87688-09-27 22:34 G	33748715.31	33748715.44	33748715.58	0.0144	0.0027
Mercury	87688-12-25 02:39 G	33748803.48	33748803.61	33748803.74	0.0144	0.0049
Mercury	87689-03-23 06:15 G	33748891.65	33748891.76	33748891.89	0.0144	0.0073
Mercury	87689-06-19 10:20 G	33748979.83	33748979.93	33748980.04	0.0144	0.0096
Mercury	87689-09-15 14:24 G	33749068.03	33749068.10	33749068.18	0.0144	0.0119
Mercury	87689-12-12 18:15 G	33749156.25	33749156.26	33749156.28	0.0144	0.0143
Moon	87707-12-03 23:03 G	33755720.27	33755720.46	33755720.67	0.0140	0.0087
Earth	87707-12-04 02:39 G	33755720.41	33755720.61	33755720.83	0.0140	0.0080 *
Earth	87708-12-07 21:36 G	33756090.15	33756090.40	33756090.66	0.0140	0.0012
Moon	87708-12-08 01:12 G	33756090.29	33756090.55	33756090.80	0.0140	0.0005 *
Moon	87709-12-12 12:15 G	33756459.78	33756460.01	33756460.27	0.0139	0.0050
Earth	87709-12-12 15:36 G	33756459.92	33756460.15	33756460.39	0.0139	0.0056 *
Earth	87710-12-17 08:10 G	33756829.74	33756829.84	33756829.98	0.0139	0.0122
Moon	87710-12-17 11:32 G	33756829.89	33756829.98	33756830.10	0.0139	0.0126 *
Venus	87715-09-06 01:41 G	33758553.51	33758553.57	33758553.65	0.0137	0.0129

Venus	87716-04-19 08:24 G	33758779.72	33758779.85	33758780.01	0.0137	0.0100
Venus	87716-12-01 15:08 G	33759005.96	33759006.13	33759006.33	0.0137	0.0070
Venus	87717-07-15 21:51 G	33759232.20	33759232.41	33759232.62	0.0137	0.0040
Venus	87718-02-27 04:05 G	33759458.46	33759458.67	33759458.89	0.0136	0.0011
Venus	87718-10-11 10:20 G	33759684.72	33759684.93	33759685.15	0.0136	0.0019
Venus	87719-05-25 16:05 G	33759910.98	33759911.17	33759911.38	0.0136	0.0048
Venus	87720-01-06 21:51 G	33760137.25	33760137.41	33760137.60	0.0136	0.0077
Venus	87720-08-20 03:22 G	33760363.52	33760363.64	33760363.79	0.0136	0.0106
Venus	87721-04-03 08:53 G	33760589.86	33760589.87	33760589.92	0.0136	0.0134
Mercury	87729-02-06 13:41 G	33763455.98	33763456.07	33763456.19	0.0134	0.0112
Mercury	87729-05-05 20:39 G	33763544.22	33763544.36	33763544.51	0.0134	0.0086
Mercury	87729-08-02 03:22 G	33763632.48	33763632.64	33763632.81	0.0134	0.0060
Mercury	87729-10-29 10:05 G	33763720.75	33763720.92	33763721.11	0.0134	0.0035
Mercury	87730-01-25 16:48 G	33763809.02	33763809.20	33763809.39	0.0134	0.0009
Mercury	87730-04-23 23:32 G	33763897.29	33763897.48	33763897.66	0.0134	0.0016
Mercury	87730-07-21 06:00 G	33763985.58	33763985.75	33763985.93	0.0134	0.0041
Mercury	87730-10-17 12:29 G	33764073.86	33764074.02	33764074.18	0.0134	0.0066
Mercury	87731-01-13 18:58 G	33764162.16	33764162.29	33764162.43	0.0134	0.0091
Mercury	87731-04-12 01:12 G	33764250.47	33764250.55	33764250.65	0.0134	0.0116
Mars	87733-02-23 01:56 G	33764933.41	33764933.58	33764933.80	0.0134	0.0100
Moon	87751-05-30 21:51 G	33771604.27	33771604.41	33771604.58	0.0138	0.0106
Earth	87751-05-31 00:29 G	33771604.37	33771604.52	33771604.71	0.0138	0.0100 *
Earth	87752-06-03 13:12 G	33771973.81	33771974.05	33771974.30	0.0138	0.0036
Moon	87752-06-03 16:34 G	33771973.94	33771974.19	33771974.44	0.0138	0.0034 *
Moon	87753-06-07 23:17 G	33772343.24	33772343.47	33772343.72	0.0139	0.0030
Earth	87753-06-08 02:24 G	33772343.37	33772343.60	33772343.86	0.0139	0.0030 *
Earth	87754-06-12 16:48 G	33772713.02	33772713.20	33772713.38	0.0139	0.0095
Moon	87754-06-12 19:56 G	33772713.15	33772713.33	33772713.54	0.0139	0.0090 *
Venus	87759-08-30 18:00 G	33774618.15	33774618.25	33774618.36	0.0141	0.0123
Venus	87760-04-13 04:48 G	33774844.54	33774844.70	33774844.87	0.0141	0.0091

Venus	87760-11-25 15:36 G	33775070.96	33775071.15	33775071.36	0.0141	0.0058
Venus	87761-07-10 02:39 G	33775297.40	33775297.61	33775297.83	0.0142	0.0024
Venus	87762-02-21 13:56 G	33775523.86	33775524.08	33775524.30	0.0142	0.0010
Venus	87762-10-06 01:12 G	33775750.35	33775750.55	33775750.77	0.0142	0.0044
Venus	87763-05-20 12:58 G	33775976.86	33775977.04	33775977.23	0.0142	0.0079
Venus	87764-01-02 00:44 G	33776203.40	33776203.53	33776203.66	0.0142	0.0113
Mercury	87771-02-10 03:22 G	33778799.58	33778799.64	33778799.71	0.0144	0.0125
Mercury	87771-05-09 07:12 G	33778887.71	33778887.80	33778887.89	0.0144	0.0103
Mercury	87771-08-05 11:03 G	33778975.85	33778975.96	33778976.07	0.0144	0.0080
Mercury	87771-11-01 14:53 G	33779064.00	33779064.12	33779064.24	0.0144	0.0058
Mercury	87772-01-28 18:44 G	33779152.15	33779152.28	33779152.41	0.0144	0.0035
Mercury	87772-04-25 22:34 G	33779240.30	33779240.44	33779240.57	0.0144	0.0012
Mercury	87772-07-23 02:24 G	33779328.46	33779328.60	33779328.74	0.0144	0.0011
Mercury	87772-10-19 06:15 G	33779416.63	33779416.76	33779416.89	0.0144	0.0034
Mercury	87773-01-15 10:05 G	33779504.80	33779504.92	33779505.05	0.0144	0.0057
Mercury	87773-04-13 14:10 G	33779592.97	33779593.09	33779593.20	0.0144	0.0080
Mercury	87773-07-10 17:46 G	33779681.16	33779681.24	33779681.35	0.0144	0.0104
Mercury	87773-10-06 21:51 G	33779769.35	33779769.41	33779769.48	0.0144	0.0127
Mars	87775-07-22 17:17 G	33780422.90	33780423.22	33780423.55	0.0144	0.0022
Moon	87791-12-04 13:12 G	33786401.84	33786402.05	33786402.29	0.0140	0.0067
Earth	87791-12-04 17:03 G	33786402.00	33786402.21	33786402.44	0.0140	0.0072 *
Earth	87792-12-08 12:00 G	33786771.74	33786772.00	33786772.26	0.0140	0.0004
Moon	87792-12-08 15:22 G	33786771.89	33786772.14	33786772.40	0.0140	0.0012 *
Moon	87793-12-13 01:56 G	33787141.37	33787141.58	33787141.82	0.0139	0.0072
Earth	87793-12-13 05:46 G	33787141.52	33787141.74	33787141.97	0.0139	0.0064 *
Earth	87794-12-17 22:48 G	33787511.38	33787511.45	33787511.55	0.0139	0.0130
Moon	87794-12-18 01:41 G	33787511.49	33787511.57	33787511.69	0.0139	0.0127 *
Venus	87799-12-18 20:10 G	33789338.24	33789338.34	33789338.49	0.0137	0.0112
Venus	87800-08-02 03:08 G	33789564.47	33789564.63	33789564.81	0.0137	0.0081
Venus	87801-03-16 09:36 G	33789790.71	33789790.90	33789791.11	0.0137	0.0052

Venus	87801-10-28 16:20 G	33790016.97	33790017.18	33790017.39	0.0136	0.0022
Venus	87802-06-11 22:34 G	33790243.22	33790243.44	33790243.65	0.0136	0.0008
Venus	87803-01-24 04:20 G	33790469.48	33790469.68	33790469.89	0.0136	0.0037
Venus	87803-09-07 09:51 G	33790695.74	33790695.91	33790696.11	0.0136	0.0066
Venus	87804-04-20 15:51 G	33790922.01	33790922.16	33790922.32	0.0136	0.0094
Venus	87804-12-02 21:08 G	33791148.31	33791148.38	33791148.49	0.0136	0.0123
Mercury	87812-12-01 14:53 G	33794069.08	33794069.12	33794069.20	0.0134	0.0128
Mercury	87813-02-27 21:51 G	33794157.30	33794157.41	33794157.54	0.0134	0.0101
Mercury	87813-05-27 04:48 G	33794245.55	33794245.70	33794245.86	0.0134	0.0075
Mercury	87813-08-23 11:17 G	33794333.81	33794333.97	33794334.15	0.0134	0.0050
Mercury	87813-11-19 18:15 G	33794422.08	33794422.26	33794422.44	0.0134	0.0024
Mercury	87814-02-16 00:58 G	33794510.35	33794510.54	33794510.72	0.0134	0.0003
Mercury	87814-05-15 07:27 G	33794598.63	33794598.81	33794598.99	0.0134	0.0026
Mercury	87814-08-11 13:56 G	33794686.91	33794687.08	33794687.25	0.0134	0.0051
Mercury	87814-11-07 20:24 G	33794775.20	33794775.35	33794775.51	0.0134	0.0076
Mercury	87815-02-04 02:53 G	33794863.51	33794863.62	33794863.74	0.0134	0.0101
Mercury	87815-05-03 09:08 G	33794951.83	33794951.88	33794951.95	0.0134	0.0126
Mars	87817-10-19 12:00 G	33795851.71	33795852.00	33795852.29	0.0134	0.0001
Moon	87835-06-01 08:53 G	33802285.69	33802285.87	33802286.06	0.0138	0.0089
Earth	87835-06-01 11:17 G	33802285.81	33802285.97	33802286.17	0.0138	0.0095 *
Earth	87836-06-05 00:00 G	33802655.26	33802655.50	33802655.75	0.0138	0.0031
Moon	87836-06-05 02:39 G	33802655.37	33802655.61	33802655.87	0.0138	0.0034 *
Moon	87837-06-09 10:20 G	33803024.70	33803024.93	33803025.18	0.0139	0.0034
Earth	87837-06-09 13:27 G	33803024.82	33803025.06	33803025.31	0.0139	0.0035 *
Earth	87838-06-14 03:22 G	33803394.48	33803394.64	33803394.82	0.0139	0.0101
Moon	87838-06-14 06:44 G	33803394.62	33803394.78	33803394.95	0.0139	0.0106 *
Venus	87843-05-01 00:44 G	33805176.51	33805176.53	33805176.59	0.0141	0.0138
Venus	87843-12-13 11:32 G	33805402.85	33805402.98	33805403.13	0.0141	0.0106
Venus	87844-07-26 22:20 G	33805629.25	33805629.43	33805629.62	0.0141	0.0073
Venus	87845-03-10 09:08 G	33805855.68	33805855.88	33805856.10	0.0142	0.0040

Venus	87845-10-22 20:39 G	33806082.13	33806082.36	33806082.58	0.0142	0.0006
Venus	87846-06-06 07:41 G	33806308.61	33806308.82	33806309.05	0.0142	0.0029
Venus	87847-01-18 18:58 G	33806535.11	33806535.29	33806535.50	0.0142	0.0063
Venus	87847-09-02 06:29 G	33806761.63	33806761.77	33806761.95	0.0142	0.0098
Venus	87848-04-15 18:15 G	33806988.20	33806988.26	33806988.36	0.0143	0.0132
Mercury	87854-12-05 06:58 G	33809412.77	33809412.79	33809412.82	0.0144	0.0141
Mercury	87855-03-03 10:48 G	33809500.88	33809500.95	33809501.03	0.0144	0.0119
Mercury	87855-05-30 14:39 G	33809589.01	33809589.11	33809589.21	0.0144	0.0096
Mercury	87855-08-26 18:15 G	33809677.15	33809677.26	33809677.38	0.0144	0.0074
Mercury	87855-11-22 22:05 G	33809765.30	33809765.42	33809765.55	0.0144	0.0052
Mercury	87856-02-19 01:56 G	33809853.45	33809853.58	33809853.72	0.0144	0.0029
Mercury	87856-05-17 06:00 G	33809941.61	33809941.75	33809941.88	0.0144	0.0007
Mercury	87856-08-13 09:36 G	33810029.77	33810029.90	33810030.04	0.0144	0.0018
Mercury	87856-11-09 13:41 G	33810117.94	33810118.07	33810118.20	0.0144	0.0040
Mercury	87857-02-05 17:32 G	33810206.11	33810206.23	33810206.35	0.0144	0.0064
Mercury	87857-05-04 21:22 G	33810294.29	33810294.39	33810294.50	0.0144	0.0087
Mercury	87857-08-01 01:12 G	33810382.47	33810382.55	33810382.65	0.0144	0.0111
Mercury	87857-10-28 05:03 G	33810470.68	33810470.71	33810470.77	0.0144	0.0134
Mars	87860-03-19 02:10 G	33811343.43	33811343.59	33811343.79	0.0144	0.0120
Earth	87874-12-01 09:22 G	33816713.84	33816713.89	33816713.98	0.0141	0.0136
Moon	87874-12-01 12:58 G	33816713.97	33816714.04	33816714.14	0.0141	0.0133 *
Moon	87875-12-06 01:56 G	33817083.36	33817083.58	33817083.80	0.0140	0.0072
Earth	87875-12-06 05:17 G	33817083.51	33817083.72	33817083.97	0.0140	0.0067 *
Earth	87876-12-10 00:44 G	33817453.27	33817453.53	33817453.78	0.0140	0.0004
Moon	87876-12-10 04:20 G	33817453.42	33817453.68	33817453.93	0.0140	0.0011 *
Moon	87877-12-14 15:08 G	33817822.91	33817823.13	33817823.37	0.0139	0.0064
Earth	87877-12-14 18:29 G	33817823.07	33817823.27	33817823.51	0.0139	0.0072 *
Earth	87878-12-19 11:32 G	33818192.98	33818192.98	33818193.04	0.0139	0.0138
Venus	87883-08-19 07:41 G	33819896.74	33819896.82	33819896.92	0.0137	0.0123
Venus	87884-04-01 14:24 G	33820122.95	33820123.10	33820123.27	0.0137	0.0093

Venus	87884-11-13 21:22 G	33820349.20	33820349.39	33820349.58	0.0137	0.0063
Venus	87885-06-28 03:36 G	33820575.45	33820575.65	33820575.87	0.0137	0.0034
Venus	87886-02-09 10:05 G	33820801.70	33820801.92	33820802.13	0.0136	0.0005
Venus	87886-09-23 15:51 G	33821027.96	33821028.16	33821028.38	0.0136	0.0026
Venus	87887-05-07 21:51 G	33821254.22	33821254.41	33821254.61	0.0136	0.0054
Venus	87887-12-20 03:36 G	33821480.49	33821480.65	33821480.83	0.0136	0.0083
Venus	87888-08-02 09:22 G	33821706.77	33821706.89	33821707.01	0.0136	0.0111
Mercury	87896-12-21 23:17 G	33824770.38	33824770.47	33824770.56	0.0134	0.0117
Mercury	87897-03-20 05:46 G	33824858.62	33824858.74	33824858.89	0.0134	0.0091
Mercury	87897-06-16 12:44 G	33824946.87	33824947.03	33824947.20	0.0134	0.0065
Mercury	87897-09-12 19:27 G	33825035.14	33825035.31	33825035.49	0.0134	0.0040
Mercury	87897-12-10 02:10 G	33825123.41	33825123.59	33825123.78	0.0134	0.0014
Mercury	87898-03-08 08:53 G	33825211.68	33825211.87	33825212.05	0.0134	0.0011
Mercury	87898-06-04 15:22 G	33825299.96	33825300.14	33825300.32	0.0134	0.0036
Mercury	87898-08-31 21:51 G	33825388.25	33825388.41	33825388.58	0.0134	0.0061
Mercury	87898-11-28 04:20 G	33825476.54	33825476.68	33825476.82	0.0134	0.0086
Mercury	87899-02-24 10:34 G	33825564.85	33825564.94	33825565.06	0.0134	0.0111
Mars	87902-06-14 21:36 G	33826770.22	33826770.40	33826770.60	0.0134	0.0100
Moon	87919-06-02 19:27 G	33832967.15	33832967.31	33832967.49	0.0138	0.0097
Earth	87919-06-02 21:22 G	33832967.20	33832967.39	33832967.58	0.0138	0.0090 *
Earth	87920-06-06 09:22 G	33833336.65	33833336.89	33833337.15	0.0138	0.0026
Moon	87920-06-06 12:00 G	33833336.75	33833337.00	33833337.27	0.0138	0.0024 *
Moon	87921-06-10 20:24 G	33833706.12	33833706.35	33833706.59	0.0139	0.0039
Earth	87921-06-10 22:48 G	33833706.21	33833706.45	33833706.70	0.0139	0.0040 *
Earth	87922-06-15 12:44 G	33834075.88	33834076.03	33834076.20	0.0139	0.0106
Moon	87922-06-15 15:22 G	33834075.98	33834076.14	33834076.33	0.0139	0.0102 *
Venus	87927-08-13 17:03 G	33835961.11	33835961.21	33835961.33	0.0141	0.0121
Venus	87928-03-27 03:51 G	33836187.49	33836187.66	33836187.83	0.0141	0.0089
Venus	87928-11-08 14:24 G	33836413.91	33836414.10	33836414.31	0.0141	0.0056
Venus	87929-06-23 01:27 G	33836640.35	33836640.56	33836640.78	0.0142	0.0022

Venus	87930-02-04 12:44 G	33836866.81	33836867.03	33836867.25	0.0142	0.0012
Venus	87930-09-18 23:46 G	33837093.29	33837093.49	33837093.71	0.0142	0.0046
Venus	87931-05-03 11:32 G	33837319.80	33837319.98	33837320.16	0.0142	0.0080
Venus	87931-12-15 23:03 G	33837546.34	33837546.46	33837546.60	0.0142	0.0114
Mercury	87938-12-26 13:56 G	33840114.04	33840114.08	33840114.12	0.0144	0.0137
Mercury	87939-03-24 17:32 G	33840202.16	33840202.23	33840202.32	0.0144	0.0115
Mercury	87939-06-20 21:22 G	33840290.29	33840290.39	33840290.50	0.0144	0.0093
Mercury	87939-09-17 01:12 G	33840378.44	33840378.55	33840378.67	0.0144	0.0070
Mercury	87939-12-14 05:03 G	33840466.58	33840466.71	33840466.84	0.0144	0.0047
Mercury	87940-03-11 08:53 G	33840554.74	33840554.87	33840555.00	0.0144	0.0025
Mercury	87940-06-07 12:44 G	33840642.89	33840643.03	33840643.17	0.0144	0.0002
Mercury	87940-09-03 16:34 G	33840731.06	33840731.19	33840731.33	0.0144	0.0021
Mercury	87940-11-30 20:24 G	33840819.22	33840819.35	33840819.48	0.0144	0.0044
Mercury	87941-02-27 00:15 G	33840907.39	33840907.51	33840907.64	0.0144	0.0068
Mercury	87941-05-26 04:05 G	33840995.57	33840995.67	33840995.78	0.0144	0.0091
Mercury	87941-08-22 08:10 G	33841083.76	33841083.84	33841083.93	0.0144	0.0114
Mercury	87941-11-18 12:15 G	33841171.97	33841172.01	33841172.05	0.0144	0.0138
Mars	87942-12-08 14:39 G	33841556.91	33841557.11	33841557.38	0.0144	0.0104
Earth	87958-12-02 19:27 G	33847395.24	33847395.31	33847395.43	0.0141	0.0131
Moon	87958-12-02 23:17 G	33847395.40	33847395.47	33847395.57	0.0141	0.0133 *
Moon	87959-12-07 12:58 G	33847764.81	33847765.04	33847765.27	0.0140	0.0056
Earth	87959-12-07 16:05 G	33847764.95	33847765.17	33847765.41	0.0140	0.0061 *
Earth	87960-12-11 11:32 G	33848134.72	33848134.98	33848135.23	0.0140	0.0009
Moon	87960-12-11 15:08 G	33848134.88	33848135.13	33848135.39	0.0140	0.0002 *
Moon	87961-12-16 01:56 G	33848504.39	33848504.58	33848504.80	0.0139	0.0085
Earth	87961-12-16 05:32 G	33848504.54	33848504.73	33848504.96	0.0139	0.0078 *
Venus	87967-04-19 18:00 G	33850455.23	33850455.25	33850455.30	0.0137	0.0135
Venus	87967-12-02 00:58 G	33850681.42	33850681.54	33850681.69	0.0137	0.0106
Venus	87968-07-15 07:41 G	33850907.66	33850907.82	33850908.01	0.0137	0.0076
Venus	87969-02-26 14:24 G	33851133.90	33851134.10	33851134.31	0.0137	0.0046

Venus	87969-10-10 20:53 G	33851360.16	33851360.37	33851360.59	0.0137	0.0017
Venus	87970-05-25 03:08 G	33851586.42	33851586.63	33851586.85	0.0136	0.0013
Venus	87971-01-06 08:53 G	33851812.68	33851812.87	33851813.09	0.0136	0.0043
Venus	87971-08-20 14:39 G	33852038.94	33852039.11	33852039.31	0.0136	0.0071
Venus	87972-04-02 20:39 G	33852265.22	33852265.36	33852265.51	0.0136	0.0099
Venus	87972-11-15 02:10 G	33852491.54	33852491.59	33852491.68	0.0136	0.0128
Mercury	87980-10-16 00:15 G	33855383.49	33855383.51	33855383.55	0.0134	0.0132
Mercury	87981-01-12 07:12 G	33855471.69	33855471.80	33855471.92	0.0134	0.0106
Mercury	87981-04-10 13:56 G	33855559.94	33855560.08	33855560.24	0.0134	0.0081
Mercury	87981-07-07 20:39 G	33855648.20	33855648.36	33855648.54	0.0134	0.0055
Mercury	87981-10-04 03:36 G	33855736.47	33855736.65	33855736.83	0.0134	0.0029
Mercury	87981-12-31 10:05 G	33855824.74	33855824.92	33855825.11	0.0134	0.0005
Mercury	87982-03-29 16:48 G	33855913.02	33855913.20	33855913.38	0.0134	0.0021
Mercury	87982-06-25 23:17 G	33856001.30	33856001.47	33856001.65	0.0134	0.0047
Mercury	87982-09-22 05:46 G	33856089.59	33856089.74	33856089.90	0.0134	0.0071
Mercury	87982-12-19 12:15 G	33856177.89	33856178.01	33856178.14	0.0134	0.0096
Mercury	87983-03-17 18:29 G	33856266.21	33856266.27	33856266.36	0.0134	0.0121
Mars	87985-03-10 00:15 G	33856989.24	33856989.51	33856989.79	0.0134	0.0039
Saturn	87992-02-07 16:48 G	33859514.63	33859515.20	33859515.78	0.0134	0.0030

89TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 89th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Moon	88003-06-03 07:56 G	33863648.64	33863648.83	33863649.04	0.0138	0.0078
Earth	88003-06-03 09:51 G	33863648.72	33863648.91	33863649.12	0.0138	0.0084 *
Earth	88004-06-06 22:20 G	33864018.18	33864018.43	33864018.68	0.0138	0.0019
Moon	88004-06-06 23:46 G	33864018.24	33864018.49	33864018.75	0.0138	0.0024 *
Moon	88005-06-11 09:08 G	33864387.66	33864387.88	33864388.12	0.0138	0.0047
Earth	88005-06-11 11:17 G	33864387.74	33864387.97	33864388.22	0.0138	0.0047 *
Earth	88006-06-16 00:58 G	33864757.41	33864757.54	33864757.70	0.0139	0.0113
Moon	88006-06-16 03:22 G	33864757.52	33864757.64	33864757.80	0.0139	0.0116 *
Venus	88011-04-13 00:44 G	33866519.49	33866519.53	33866519.61	0.0141	0.0135
Venus	88011-11-25 11:32 G	33866745.83	33866745.98	33866746.13	0.0141	0.0102
Venus	88012-07-08 21:51 G	33866972.23	33866972.41	33866972.61	0.0141	0.0070
Venus	88013-02-20 08:53 G	33867198.66	33867198.87	33867199.08	0.0141	0.0037
Venus	88013-10-04 19:56 G	33867425.11	33867425.33	33867425.55	0.0142	0.0003
Venus	88014-05-19 06:58 G	33867651.58	33867651.79	33867652.01	0.0142	0.0031
Venus	88014-12-31 18:29 G	33867878.08	33867878.27	33867878.47	0.0142	0.0064
Venus	88015-08-15 05:46 G	33868104.59	33868104.74	33868104.91	0.0142	0.0099
Venus	88016-03-28 17:32 G	33868331.16	33868331.23	33868331.32	0.0142	0.0133
Mercury	88023-01-15 21:08 G	33870815.33	33870815.38	33870815.44	0.0144	0.0131
Mercury	88023-04-14 00:58 G	33870903.46	33870903.54	33870903.63	0.0144	0.0109
Mercury	88023-07-11 04:34 G	33870991.59	33870991.69	33870991.81	0.0144	0.0087
Mercury	88023-10-07 08:24 G	33871079.74	33871079.85	33871079.98	0.0144	0.0064
Mercury	88024-01-03 12:15 G	33871167.89	33871168.01	33871168.14	0.0144	0.0042
Mercury	88024-03-31 16:05 G	33871256.04	33871256.17	33871256.31	0.0144	0.0019
Mercury	88024-06-27 19:56 G	33871344.20	33871344.33	33871344.47	0.0144	0.0005
Mercury	88024-09-23 23:46 G	33871432.36	33871432.49	33871432.63	0.0144	0.0027
Mercury	88024-12-21 03:36 G	33871520.53	33871520.65	33871520.78	0.0144	0.0051
Mercury	88025-03-19 07:41 G	33871608.70	33871608.82	33871608.93	0.0144	0.0073
Mercury	88025-06-15 11:32 G	33871696.88	33871696.98	33871697.08	0.0144	0.0097
Mercury	88025-09-11 15:22 G	33871785.07	33871785.14	33871785.22	0.0144	0.0120
Mercury	88025-12-08 19:27 G	33871873.30	33871873.31	33871873.32	0.0144	0.0144

Mars	88027-08-05 00:29 G	33872477.20	33872477.52	33872477.84	0.0144	0.0038
Earth	88042-12-03 05:46 G	33878076.65	33878076.74	33878076.87	0.0141	0.0126
Moon	88042-12-03 08:39 G	33878076.76	33878076.86	33878077.00	0.0141	0.0125 *
Moon	88043-12-07 22:48 G	33878446.23	33878446.45	33878446.69	0.0140	0.0061
Earth	88043-12-08 02:24 G	33878446.37	33878446.60	33878446.84	0.0140	0.0055 *
Earth	88044-12-11 21:51 G	33878816.15	33878816.41	33878816.66	0.0140	0.0014
Moon	88044-12-12 00:58 G	33878816.29	33878816.54	33878816.81	0.0140	0.0022 *
Moon	88045-12-16 12:44 G	33879185.83	33879186.03	33879186.25	0.0140	0.0076
Earth	88045-12-16 16:05 G	33879185.98	33879186.17	33879186.39	0.0140	0.0084 *
Venus	88051-08-01 11:17 G	33881239.86	33881239.97	33881240.08	0.0137	0.0118
Venus	88052-03-14 17:46 G	33881466.09	33881466.24	33881466.42	0.0137	0.0088
Venus	88052-10-27 00:58 G	33881692.34	33881692.54	33881692.73	0.0137	0.0059
Venus	88053-06-10 07:12 G	33881918.59	33881918.80	33881919.02	0.0137	0.0029
Venus	88054-01-22 13:41 G	33882144.85	33882145.07	33882145.28	0.0137	0.0002
Venus	88054-09-05 19:41 G	33882371.11	33882371.32	33882371.53	0.0136	0.0030
Venus	88055-04-20 01:41 G	33882597.38	33882597.57	33882597.77	0.0136	0.0059
Venus	88055-12-02 07:41 G	33882823.66	33882823.82	33882823.99	0.0136	0.0087
Venus	88056-07-15 13:12 G	33883049.95	33883050.05	33883050.17	0.0136	0.0116
Mercury	88064-11-05 08:10 G	33886084.77	33886084.84	33886084.92	0.0134	0.0122
Mercury	88065-02-01 15:08 G	33886173.00	33886173.13	33886173.26	0.0134	0.0096
Mercury	88065-04-30 21:51 G	33886261.26	33886261.41	33886261.57	0.0134	0.0071
Mercury	88065-07-28 04:34 G	33886349.52	33886349.69	33886349.87	0.0134	0.0045
Mercury	88065-10-24 11:17 G	33886437.79	33886437.97	33886438.16	0.0134	0.0020
Mercury	88066-01-20 18:00 G	33886526.06	33886526.25	33886526.44	0.0134	0.0006
Mercury	88066-04-19 00:29 G	33886614.35	33886614.52	33886614.71	0.0134	0.0031
Mercury	88066-07-16 06:58 G	33886702.63	33886702.79	33886702.97	0.0134	0.0056
Mercury	88066-10-12 13:27 G	33886790.93	33886791.06	33886791.22	0.0134	0.0081
Mercury	88067-01-08 19:56 G	33886879.23	33886879.33	33886879.45	0.0134	0.0106
Mercury	88067-04-07 02:24 G	33886967.57	33886967.60	33886967.65	0.0134	0.0130
Mars	88069-11-02 09:08 G	33887907.64	33887907.88	33887908.15	0.0134	0.0061

Moon	88086-05-30 12:00 G	33893960.96	33893961.00	33893961.08	0.0137	0.0133
Moon	88087-06-03 21:51 G	33894330.23	33894330.41	33894330.62	0.0138	0.0085
Earth	88087-06-03 22:34 G	33894330.25	33894330.44	33894330.66	0.0138	0.0078 *
Earth	88088-06-07 11:03 G	33894699.72	33894699.96	33894700.22	0.0138	0.0013
Moon	88088-06-07 12:44 G	33894699.78	33894700.03	33894700.30	0.0138	0.0009 *
Moon	88089-06-11 22:48 G	33895069.23	33895069.45	33895069.68	0.0138	0.0052
Earth	88089-06-12 00:15 G	33895069.28	33895069.51	33895069.74	0.0138	0.0054 *
Earth	88090-06-16 13:56 G	33895438.96	33895439.08	33895439.21	0.0139	0.0120
Moon	88090-06-16 15:36 G	33895439.03	33895439.15	33895439.31	0.0139	0.0117 *
Venus	88095-07-25 19:27 G	33897304.20	33897304.31	33897304.44	0.0141	0.0116
Venus	88096-03-08 05:46 G	33897530.58	33897530.74	33897530.93	0.0141	0.0084
Venus	88096-10-20 16:48 G	33897756.99	33897757.20	33897757.40	0.0141	0.0051
Venus	88097-06-04 03:36 G	33897983.44	33897983.65	33897983.87	0.0141	0.0018
Venus	88098-01-16 14:39 G	33898209.90	33898210.11	33898210.33	0.0142	0.0016
Venus	88098-08-31 01:56 G	33898436.38	33898436.58	33898436.79	0.0142	0.0050
Venus	88099-04-14 13:12 G	33898662.88	33898663.05	33898663.24	0.0142	0.0084
Venus	88099-11-27 00:58 G	33898889.42	33898889.54	33898889.67	0.0142	0.0118
Mercury	88107-02-06 04:48 G	33901516.63	33901516.70	33901516.76	0.0144	0.0124
Mercury	88107-05-05 08:24 G	33901604.76	33901604.85	33901604.95	0.0144	0.0102
Mercury	88107-08-01 12:00 G	33901692.90	33901693.00	33901693.12	0.0144	0.0081
Mercury	88107-10-28 16:05 G	33901781.04	33901781.17	33901781.29	0.0144	0.0057
Mercury	88108-01-24 19:41 G	33901869.19	33901869.32	33901869.46	0.0144	0.0035
Mercury	88108-04-21 23:32 G	33901957.35	33901957.48	33901957.62	0.0144	0.0013
Mercury	88108-07-19 03:22 G	33902045.51	33902045.64	33902045.78	0.0144	0.0011
Mercury	88108-10-15 07:12 G	33902133.67	33902133.80	33902133.94	0.0144	0.0034
Mercury	88109-01-11 11:03 G	33902221.84	33902221.96	33902222.09	0.0144	0.0057
Mercury	88109-04-09 14:53 G	33902310.01	33902310.12	33902310.24	0.0144	0.0081
Mercury	88109-07-06 18:58 G	33902398.20	33902398.29	33902398.38	0.0144	0.0103
Mercury	88109-10-02 22:34 G	33902486.39	33902486.44	33902486.52	0.0144	0.0128
Earth	88126-12-04 17:32 G	33908758.11	33908758.23	33908758.37	0.0141	0.0120

Moon	88126-12-04 20:10 G	33908758.23	33908758.34	33908758.49	0.0141	0.0121	*
Moon	88127-12-09 11:17 G	33909127.74	33909127.97	33909128.22	0.0140	0.0046	
Earth	88127-12-09 13:56 G	33909127.85	33909128.08	33909128.33	0.0140	0.0050	*
Earth	88128-12-13 09:36 G	33909497.65	33909497.90	33909498.16	0.0140	0.0021	
Moon	88128-12-13 13:12 G	33909497.79	33909498.05	33909498.31	0.0140	0.0013	*
Moon	88129-12-18 01:12 G	33909867.37	33909867.55	33909867.73	0.0140	0.0098	
Earth	88129-12-18 04:20 G	33909867.50	33909867.68	33909867.89	0.0140	0.0090	*
Venus	88135-04-01 21:08 G	33911798.34	33911798.38	33911798.47	0.0138	0.0131	
Venus	88135-11-14 04:34 G	33912024.55	33912024.69	33912024.85	0.0137	0.0101	
Venus	88136-06-27 11:32 G	33912250.80	33912250.98	33912251.17	0.0137	0.0071	
Venus	88137-02-08 18:00 G	33912477.05	33912477.25	33912477.46	0.0137	0.0041	
Venus	88137-09-23 00:29 G	33912703.31	33912703.52	33912703.74	0.0137	0.0012	
Venus	88138-05-07 06:58 G	33912929.57	33912929.79	33912930.00	0.0137	0.0018	
Venus	88138-12-19 12:44 G	33913155.84	33913156.03	33913156.25	0.0136	0.0048	
Venus	88139-08-02 18:44 G	33913382.12	33913382.28	33913382.47	0.0136	0.0076	
Venus	88140-03-16 00:44 G	33913608.40	33913608.53	33913608.67	0.0136	0.0104	
Venus	88140-10-28 06:15 G	33913834.74	33913834.76	33913834.83	0.0136	0.0133	
Mercury	88148-11-26 16:20 G	33916786.08	33916786.18	33916786.29	0.0134	0.0112	
Mercury	88149-02-22 23:03 G	33916874.33	33916874.46	33916874.61	0.0134	0.0086	
Mercury	88149-05-22 05:46 G	33916962.58	33916962.74	33916962.92	0.0134	0.0061	
Mercury	88149-08-18 12:44 G	33917050.85	33917051.03	33917051.21	0.0134	0.0035	
Mercury	88149-11-14 19:27 G	33917139.12	33917139.31	33917139.49	0.0134	0.0009	
Mercury	88150-02-11 01:56 G	33917227.40	33917227.58	33917227.77	0.0134	0.0017	
Mercury	88150-05-10 08:39 G	33917315.68	33917315.86	33917316.04	0.0134	0.0041	
Mercury	88150-08-06 15:08 G	33917403.97	33917404.13	33917404.29	0.0134	0.0066	
Mercury	88150-11-02 21:36 G	33917492.27	33917492.40	33917492.54	0.0134	0.0091	
Mercury	88151-01-30 03:51 G	33917580.59	33917580.66	33917580.77	0.0134	0.0116	
Mars	88152-07-29 13:27 G	33918126.84	33918127.06	33918127.31	0.0134	0.0077	
Earth	88170-06-01 01:56 G	33924642.54	33924642.58	33924642.64	0.0137	0.0134	
Moon	88171-06-05 12:29 G	33925011.82	33925012.02	33925012.25	0.0138	0.0064	

Earth	88171-06-05 13:27 G	33925011.86	33925012.06	33925012.29	0.0138	0.0070	*
Earth	88172-06-09 02:10 G	33925381.33	33925381.59	33925381.84	0.0138	0.0005	
Moon	88172-06-09 02:39 G	33925381.35	33925381.61	33925381.87	0.0138	0.0010	*
Moon	88173-06-13 13:56 G	33925750.86	33925751.08	33925751.30	0.0138	0.0063	
Earth	88173-06-13 15:08 G	33925750.91	33925751.13	33925751.36	0.0138	0.0062	*
Earth	88174-06-18 04:20 G	33926120.61	33926120.68	33926120.79	0.0139	0.0129	
Moon	88174-06-18 06:15 G	33926120.67	33926120.76	33926120.85	0.0139	0.0130	*
Venus	88179-03-26 05:32 G	33927862.65	33927862.73	33927862.83	0.0141	0.0128	
Venus	88179-11-07 15:51 G	33928089.01	33928089.16	33928089.33	0.0141	0.0096	
Venus	88180-06-21 02:24 G	33928315.42	33928315.60	33928315.81	0.0141	0.0063	
Venus	88181-02-02 13:12 G	33928541.85	33928542.05	33928542.28	0.0141	0.0031	
Venus	88181-09-17 00:29 G	33928768.30	33928768.52	33928768.74	0.0142	0.0004	
Venus	88182-05-01 11:46 G	33928994.78	33928994.99	33928995.20	0.0142	0.0037	
Venus	88182-12-13 22:48 G	33929221.27	33929221.45	33929221.65	0.0142	0.0071	
Venus	88183-07-28 10:34 G	33929447.80	33929447.94	33929448.09	0.0142	0.0105	
Venus	88184-03-10 22:05 G	33929674.38	33929674.42	33929674.48	0.0142	0.0139	
Mercury	88190-11-30 08:53 G	33932129.84	33932129.87	33932129.92	0.0144	0.0137	
Mercury	88191-02-26 12:58 G	33932217.96	33932218.04	33932218.12	0.0144	0.0114	
Mercury	88191-05-25 16:34 G	33932306.09	33932306.19	33932306.30	0.0144	0.0092	
Mercury	88191-08-21 20:10 G	33932394.23	33932394.34	33932394.47	0.0144	0.0070	
Mercury	88191-11-18 00:15 G	33932482.38	33932482.51	33932482.63	0.0144	0.0047	
Mercury	88192-02-14 03:51 G	33932570.53	33932570.66	33932570.80	0.0144	0.0025	
Mercury	88192-05-12 07:41 G	33932658.69	33932658.82	33932658.96	0.0144	0.0005	
Mercury	88192-08-08 11:32 G	33932746.85	33932746.98	33932747.12	0.0144	0.0022	
Mercury	88192-11-04 15:22 G	33932835.02	33932835.14	33932835.27	0.0144	0.0045	
Mercury	88193-01-31 19:12 G	33932923.19	33932923.30	33932923.43	0.0144	0.0068	
Mercury	88193-04-29 23:17 G	33933011.36	33933011.47	33933011.57	0.0144	0.0091	
Mercury	88193-07-27 02:53 G	33933099.55	33933099.62	33933099.71	0.0144	0.0115	
Mercury	88193-10-23 06:58 G	33933187.76	33933187.79	33933187.83	0.0144	0.0137	
Mars	88194-12-21 16:05 G	33933611.86	33933612.17	33933612.51	0.0144	0.0030	

Earth	88210-12-06 08:10 G	33939439.68	33939439.84	33939439.99	0.0141	0.0112
Moon	88210-12-06 09:51 G	33939439.77	33939439.91	33939440.08	0.0141	0.0112 *
Moon	88211-12-11 01:27 G	33939809.34	33939809.56	33939809.81	0.0140	0.0047
Earth	88211-12-11 04:20 G	33939809.45	33939809.68	33939809.94	0.0140	0.0042 *
Earth	88212-12-15 00:00 G	33940179.25	33940179.50	33940179.75	0.0140	0.0029
Moon	88212-12-15 02:39 G	33940179.36	33940179.61	33940179.87	0.0140	0.0036 *
Moon	88213-12-19 15:36 G	33940548.96	33940549.15	33940549.34	0.0140	0.0091
Earth	88213-12-19 18:29 G	33940549.11	33940549.27	33940549.47	0.0140	0.0099 *
Venus	88219-07-15 16:05 G	33942583.05	33942583.17	33942583.30	0.0138	0.0112
Venus	88220-02-26 22:48 G	33942809.29	33942809.45	33942809.63	0.0137	0.0082
Venus	88220-10-10 05:46 G	33943035.54	33943035.74	33943035.94	0.0137	0.0052
Venus	88221-05-24 12:15 G	33943261.80	33943262.01	33943262.23	0.0137	0.0023
Venus	88222-01-05 18:44 G	33943488.06	33943488.28	33943488.49	0.0137	0.0007
Venus	88222-08-20 00:44 G	33943714.33	33943714.53	33943714.74	0.0136	0.0036
Venus	88223-04-03 06:58 G	33943940.60	33943940.79	33943940.98	0.0136	0.0065
Venus	88223-11-15 12:58 G	33944166.89	33944167.04	33944167.20	0.0136	0.0093
Venus	88224-06-28 18:29 G	33944393.19	33944393.27	33944393.38	0.0136	0.0122
Mercury	88232-09-20 17:46 G	33947399.18	33947399.24	33947399.30	0.0134	0.0127
Mercury	88232-12-18 00:44 G	33947487.41	33947487.53	33947487.65	0.0134	0.0101
Mercury	88233-03-16 07:12 G	33947575.66	33947575.80	33947575.97	0.0134	0.0075
Mercury	88233-06-12 14:10 G	33947663.92	33947664.09	33947664.27	0.0134	0.0049
Mercury	88233-09-08 20:53 G	33947752.19	33947752.37	33947752.56	0.0134	0.0024
Mercury	88233-12-06 03:36 G	33947840.46	33947840.65	33947840.84	0.0134	0.0002
Mercury	88234-03-04 10:05 G	33947928.74	33947928.92	33947929.11	0.0134	0.0027
Mercury	88234-05-31 16:48 G	33948017.03	33948017.20	33948017.37	0.0134	0.0052
Mercury	88234-08-27 23:17 G	33948105.32	33948105.47	33948105.62	0.0134	0.0077
Mercury	88234-11-24 05:46 G	33948193.63	33948193.74	33948193.86	0.0134	0.0102
Mercury	88235-02-20 12:00 G	33948281.96	33948282.00	33948282.07	0.0134	0.0127
Mars	88237-03-25 00:15 G	33949045.23	33949045.51	33949045.79	0.0134	0.0024
Moon	88254-06-02 15:08 G	33955324.03	33955324.13	33955324.28	0.0137	0.0120

Earth	88254-06-02 15:08 G	33955324.06	33955324.13	33955324.25	0.0137	0.0128	*
Earth	88255-06-07 03:08 G	33955693.41	33955693.63	33955693.86	0.0138	0.0063	
Moon	88255-06-07 03:22 G	33955693.44	33955693.64	33955693.86	0.0138	0.0070	*
Earth	88256-06-10 15:36 G	33956062.90	33956063.15	33956063.40	0.0138	0.0003	
Moon	88256-06-10 16:05 G	33956062.91	33956063.17	33956063.44	0.0138	0.0008	*
Moon	88257-06-15 03:36 G	33956432.46	33956432.65	33956432.88	0.0138	0.0068	
Earth	88257-06-15 04:05 G	33956432.47	33956432.67	33956432.90	0.0138	0.0070	*
Earth	88258-06-19 17:46 G	33956802.21	33956802.24	33956802.30	0.0139	0.0136	
Moon	88258-06-19 18:44 G	33956802.23	33956802.28	33956802.36	0.0139	0.0134	*
Venus	88262-11-24 14:24 G	33958421.10	33958421.10	33958421.11	0.0141	0.0141	
Venus	88263-07-09 00:29 G	33958647.40	33958647.52	33958647.67	0.0141	0.0109	
Venus	88264-02-20 11:17 G	33958873.79	33958873.97	33958874.15	0.0141	0.0076	
Venus	88264-10-03 21:51 G	33959100.21	33959100.41	33959100.63	0.0141	0.0044	
Venus	88265-05-18 09:08 G	33959326.66	33959326.88	33959327.10	0.0141	0.0011	
Venus	88265-12-30 20:10 G	33959553.12	33959553.34	33959553.56	0.0142	0.0023	
Venus	88266-08-14 07:12 G	33959779.61	33959779.80	33959780.01	0.0142	0.0057	
Venus	88267-03-28 18:58 G	33960006.12	33960006.29	33960006.46	0.0142	0.0090	
Venus	88267-11-10 06:15 G	33960232.67	33960232.76	33960232.88	0.0142	0.0124	
Mercury	88274-12-21 16:48 G	33962831.15	33962831.20	33962831.26	0.0144	0.0128	
Mercury	88275-03-19 20:39 G	33962919.27	33962919.36	33962919.45	0.0144	0.0106	
Mercury	88275-06-16 00:15 G	33963007.41	33963007.51	33963007.63	0.0144	0.0084	
Mercury	88275-09-12 04:05 G	33963095.55	33963095.67	33963095.80	0.0144	0.0061	
Mercury	88275-12-09 07:56 G	33963183.70	33963183.83	33963183.96	0.0144	0.0039	
Mercury	88276-03-06 11:46 G	33963271.86	33963271.99	33963272.13	0.0144	0.0016	
Mercury	88276-06-02 15:36 G	33963360.01	33963360.15	33963360.29	0.0144	0.0007	
Mercury	88276-08-29 19:27 G	33963448.18	33963448.31	33963448.44	0.0144	0.0030	
Mercury	88276-11-25 23:17 G	33963536.35	33963536.47	33963536.60	0.0144	0.0053	
Mercury	88277-02-22 03:08 G	33963624.52	33963624.63	33963624.75	0.0144	0.0076	
Mercury	88277-05-21 06:58 G	33963712.70	33963712.79	33963712.89	0.0144	0.0100	
Mercury	88277-08-17 10:48 G	33963800.89	33963800.95	33963801.03	0.0144	0.0123	

Mars	88279-08-19 10:20 G	33964532.77	33964532.93	33964533.15	0.0144	0.0120
Earth	88294-12-06 22:48 G	33970121.28	33970121.45	33970121.62	0.0141	0.0104
Moon	88294-12-07 00:44 G	33970121.36	33970121.53	33970121.71	0.0141	0.0104 *
Moon	88295-12-11 17:03 G	33970490.98	33970491.21	33970491.46	0.0140	0.0031
Earth	88295-12-11 18:58 G	33970491.05	33970491.29	33970491.55	0.0140	0.0034 *
Earth	88296-12-15 14:39 G	33970860.87	33970861.11	33970861.37	0.0140	0.0038
Moon	88296-12-15 17:46 G	33970860.99	33970861.24	33970861.50	0.0140	0.0030 *
Moon	88297-12-20 06:44 G	33971230.65	33971230.78	33971230.93	0.0140	0.0115
Earth	88297-12-20 09:36 G	33971230.74	33971230.90	33971231.07	0.0140	0.0107 *
Venus	88303-03-16 03:51 G	33973141.57	33973141.66	33973141.76	0.0138	0.0123
Venus	88303-10-28 10:48 G	33973367.81	33973367.95	33973368.12	0.0137	0.0093
Venus	88304-06-10 17:46 G	33973594.05	33973594.24	33973594.44	0.0137	0.0064
Venus	88305-01-23 00:15 G	33973820.31	33973820.51	33973820.73	0.0137	0.0034
Venus	88305-09-06 06:58 G	33974046.57	33974046.79	33974047.00	0.0137	0.0005
Venus	88306-04-20 13:12 G	33974272.84	33974273.05	33974273.26	0.0137	0.0025
Venus	88306-12-02 19:12 G	33974499.12	33974499.30	33974499.51	0.0136	0.0055
Venus	88307-07-17 01:27 G	33974725.40	33974725.56	33974725.74	0.0136	0.0083
Venus	88308-02-28 07:12 G	33974951.69	33974951.80	33974951.94	0.0136	0.0111
Mercury	88316-10-12 01:56 G	33978100.50	33978100.58	33978100.69	0.0134	0.0115
Mercury	88317-01-08 08:53 G	33978188.74	33978188.87	33978189.02	0.0134	0.0089
Mercury	88317-04-06 15:51 G	33978276.99	33978277.16	33978277.32	0.0134	0.0063
Mercury	88317-07-03 22:20 G	33978365.26	33978365.43	33978365.62	0.0134	0.0038
Mercury	88317-09-30 05:17 G	33978453.53	33978453.72	33978453.90	0.0134	0.0012
Mercury	88317-12-27 12:00 G	33978541.81	33978542.00	33978542.18	0.0134	0.0013
Mercury	88318-03-25 18:29 G	33978630.09	33978630.27	33978630.45	0.0134	0.0038
Mercury	88318-06-22 01:12 G	33978718.38	33978718.55	33978718.71	0.0134	0.0063
Mercury	88318-09-18 07:41 G	33978806.68	33978806.82	33978806.96	0.0134	0.0088
Mercury	88318-12-15 13:56 G	33978894.99	33978895.08	33978895.19	0.0134	0.0113
Mars	88319-12-20 06:15 G	33979264.63	33979264.76	33979264.94	0.0134	0.0112
Mars	88321-11-18 11:03 G	33979963.89	33979963.96	33979964.08	0.0134	0.0126

Moon	88338-06-04 03:51 G	33986005.58	33986005.66	33986005.78	0.0137	0.0127
Earth	88338-06-04 04:48 G	33986005.61	33986005.70	33986005.85	0.0137	0.0121 *
Earth	88339-06-08 16:34 G	33986374.97	33986375.19	33986375.43	0.0138	0.0056
Moon	88339-06-08 16:48 G	33986374.98	33986375.20	33986375.44	0.0138	0.0049 *
Moon	88340-06-12 04:20 G	33986744.42	33986744.68	33986744.94	0.0138	0.0004
Earth	88340-06-12 04:48 G	33986744.45	33986744.70	33986744.96	0.0138	0.0011 *
Moon	88341-06-16 17:32 G	33987114.03	33987114.23	33987114.43	0.0138	0.0079
Earth	88341-06-16 17:46 G	33987114.03	33987114.24	33987114.45	0.0138	0.0077 *
Venus	88347-03-09 09:22 G	33989205.80	33989205.89	33989206.02	0.0141	0.0122
Venus	88347-10-21 20:10 G	33989432.17	33989432.34	33989432.51	0.0141	0.0089
Venus	88348-06-04 06:44 G	33989658.59	33989658.78	33989658.99	0.0141	0.0057
Venus	88349-01-16 17:46 G	33989885.02	33989885.24	33989885.46	0.0141	0.0024
Venus	88349-08-31 04:48 G	33990111.48	33990111.70	33990111.92	0.0141	0.0010
Venus	88350-04-14 16:05 G	33990337.96	33990338.17	33990338.38	0.0142	0.0043
Venus	88350-11-27 03:08 G	33990564.46	33990564.63	33990564.83	0.0142	0.0077
Venus	88351-07-11 14:53 G	33990790.99	33990791.12	33990791.27	0.0142	0.0110
Mercury	88358-10-15 20:53 G	33993444.36	33993444.37	33993444.40	0.0144	0.0142
Mercury	88359-01-12 00:29 G	33993532.46	33993532.52	33993532.61	0.0144	0.0120
Mercury	88359-04-10 04:34 G	33993620.59	33993620.69	33993620.79	0.0144	0.0097
Mercury	88359-07-07 08:10 G	33993708.73	33993708.84	33993708.96	0.0144	0.0075
Mercury	88359-10-03 12:00 G	33993796.88	33993797.00	33993797.13	0.0144	0.0052
Mercury	88359-12-30 15:51 G	33993885.03	33993885.16	33993885.29	0.0144	0.0030
Mercury	88360-03-27 19:41 G	33993973.18	33993973.32	33993973.45	0.0144	0.0007
Mercury	88360-06-23 23:32 G	33994061.34	33994061.48	33994061.61	0.0144	0.0016
Mercury	88360-09-20 03:22 G	33994149.51	33994149.64	33994149.77	0.0144	0.0039
Mercury	88360-12-17 07:12 G	33994237.68	33994237.80	33994237.92	0.0144	0.0062
Mercury	88361-03-15 11:03 G	33994325.85	33994325.96	33994326.07	0.0144	0.0086
Mercury	88361-06-11 14:53 G	33994414.04	33994414.12	33994414.22	0.0144	0.0109
Mercury	88361-09-07 18:58 G	33994502.24	33994502.29	33994502.34	0.0144	0.0132
Mars	88362-05-10 09:22 G	33994746.65	33994746.89	33994747.16	0.0144	0.0094

Earth	88378-12-08 13:41 G	34000802.90	34000803.07	34000803.28	0.0141	0.0096
Moon	88378-12-08 15:22 G	34000802.95	34000803.14	34000803.33	0.0141	0.0096 *
Moon	88379-12-13 08:24 G	34001172.61	34001172.85	34001173.10	0.0140	0.0029
Earth	88379-12-13 10:34 G	34001172.69	34001172.94	34001173.20	0.0140	0.0024 *
Earth	88380-12-17 06:15 G	34001542.52	34001542.76	34001543.00	0.0140	0.0046
Moon	88380-12-17 07:56 G	34001542.60	34001542.83	34001543.09	0.0140	0.0053 *
Moon	88381-12-21 22:05 G	34001912.28	34001912.42	34001912.58	0.0140	0.0109
Earth	88381-12-22 00:29 G	34001912.41	34001912.52	34001912.69	0.0140	0.0117 *
Venus	88386-11-13 15:51 G	34003700.13	34003700.16	34003700.22	0.0138	0.0134
Venus	88387-06-27 23:17 G	34003926.33	34003926.47	34003926.61	0.0138	0.0104
Venus	88388-02-09 05:46 G	34004152.57	34004152.74	34004152.93	0.0137	0.0075
Venus	88388-09-22 12:29 G	34004378.83	34004379.02	34004379.24	0.0137	0.0045
Venus	88389-05-06 19:12 G	34004605.09	34004605.30	34004605.52	0.0137	0.0016
Venus	88389-12-19 01:41 G	34004831.36	34004831.57	34004831.79	0.0137	0.0014
Venus	88390-08-02 07:56 G	34005057.63	34005057.83	34005058.04	0.0136	0.0043
Venus	88391-03-16 13:56 G	34005283.91	34005284.08	34005284.27	0.0136	0.0072
Venus	88391-10-28 20:10 G	34005510.20	34005510.34	34005510.49	0.0136	0.0100
Venus	88392-06-11 01:56 G	34005736.52	34005736.58	34005736.66	0.0136	0.0128
Mercury	88400-08-05 03:36 G	34008713.61	34008713.65	34008713.70	0.0134	0.0130
Mercury	88400-11-01 10:34 G	34008801.82	34008801.94	34008802.06	0.0134	0.0104
Mercury	88401-01-28 17:03 G	34008890.07	34008890.21	34008890.38	0.0134	0.0078
Mercury	88401-04-27 00:00 G	34008978.33	34008978.50	34008978.68	0.0134	0.0052
Mercury	88401-07-24 06:58 G	34009066.60	34009066.79	34009066.97	0.0134	0.0026
Mercury	88401-10-20 13:41 G	34009154.88	34009155.07	34009155.25	0.0134	0.0003
Mercury	88402-01-16 20:10 G	34009243.16	34009243.34	34009243.53	0.0134	0.0025
Mercury	88402-04-15 02:39 G	34009331.45	34009331.61	34009331.79	0.0134	0.0050
Mercury	88402-07-12 09:08 G	34009419.74	34009419.88	34009420.05	0.0134	0.0075
Mercury	88402-10-08 15:36 G	34009508.04	34009508.15	34009508.29	0.0134	0.0100
Mercury	88403-01-04 22:20 G	34009596.37	34009596.43	34009596.50	0.0134	0.0124
Mars	88404-08-13 17:03 G	34010182.93	34010183.21	34010183.50	0.0134	0.0011

Moon	88422-06-04 16:05 G	34016687.02	34016687.17	34016687.34	0.0137	0.0106
Earth	88422-06-04 17:03 G	34016687.09	34016687.21	34016687.37	0.0137	0.0114 *
Earth	88423-06-09 04:20 G	34017056.46	34017056.68	34017056.93	0.0138	0.0050
Moon	88423-06-09 05:46 G	34017056.53	34017056.74	34017056.97	0.0138	0.0057 *
Moon	88424-06-12 15:51 G	34017425.91	34017426.16	34017426.43	0.0138	0.0022
Earth	88424-06-12 16:34 G	34017425.94	34017426.19	34017426.44	0.0138	0.0016 *
Earth	88425-06-17 04:34 G	34017795.51	34017795.69	34017795.91	0.0138	0.0084
Moon	88425-06-17 05:46 G	34017795.54	34017795.74	34017795.94	0.0138	0.0080 *
Venus	88430-11-06 16:48 G	34019764.16	34019764.20	34019764.27	0.0140	0.0135
Venus	88431-06-21 03:08 G	34019990.49	34019990.63	34019990.79	0.0141	0.0104
Venus	88432-02-02 13:56 G	34020216.89	34020217.08	34020217.27	0.0141	0.0071
Venus	88432-09-16 00:15 G	34020443.31	34020443.51	34020443.73	0.0141	0.0039
Venus	88433-04-30 11:32 G	34020669.76	34020669.98	34020670.20	0.0141	0.0006
Venus	88433-12-12 22:34 G	34020896.23	34020896.44	34020896.66	0.0142	0.0027
Venus	88434-07-27 09:36 G	34021122.71	34021122.90	34021123.11	0.0142	0.0061
Venus	88435-03-10 21:08 G	34021349.22	34021349.38	34021349.55	0.0142	0.0094
Venus	88435-10-23 08:24 G	34021575.77	34021575.85	34021575.96	0.0142	0.0128
Mercury	88442-11-05 04:05 G	34024145.64	34024145.67	34024145.72	0.0144	0.0137
Mercury	88443-02-01 07:56 G	34024233.75	34024233.83	34024233.91	0.0144	0.0114
Mercury	88443-04-30 11:32 G	34024321.88	34024321.98	34024322.09	0.0144	0.0092
Mercury	88443-07-27 15:22 G	34024410.03	34024410.14	34024410.26	0.0144	0.0070
Mercury	88443-10-23 19:12 G	34024498.17	34024498.30	34024498.43	0.0144	0.0047
Mercury	88444-01-19 23:03 G	34024586.32	34024586.46	34024586.59	0.0144	0.0025
Mercury	88444-04-17 02:53 G	34024674.48	34024674.62	34024674.75	0.0144	0.0004
Mercury	88444-07-14 06:29 G	34024762.64	34024762.77	34024762.91	0.0144	0.0022
Mercury	88444-10-10 10:34 G	34024850.81	34024850.94	34024851.07	0.0144	0.0045
Mercury	88445-01-06 14:10 G	34024938.98	34024939.09	34024939.22	0.0144	0.0068
Mercury	88445-04-04 18:00 G	34025027.16	34025027.25	34025027.37	0.0144	0.0092
Mercury	88445-07-01 22:05 G	34025115.34	34025115.42	34025115.51	0.0144	0.0114
Mercury	88445-09-28 01:56 G	34025203.55	34025203.58	34025203.63	0.0144	0.0138

Mars	88447-01-04 19:12 G	34025667.00	34025667.30	34025667.63	0.0144	0.0048
Earth	88462-12-09 02:10 G	34031484.39	34031484.59	34031484.79	0.0141	0.0089
Moon	88462-12-09 03:08 G	34031484.43	34031484.63	34031484.84	0.0141	0.0088 *
Moon	88463-12-13 21:36 G	34031854.16	34031854.40	34031854.66	0.0141	0.0016
Earth	88463-12-13 22:48 G	34031854.19	34031854.45	34031854.70	0.0141	0.0017 *
Earth	88464-12-17 18:15 G	34032224.04	34032224.26	34032224.51	0.0140	0.0054
Moon	88464-12-17 20:24 G	34032224.12	34032224.35	34032224.61	0.0140	0.0048 *
Moon	88465-12-22 11:03 G	34032593.90	34032593.96	34032594.06	0.0140	0.0132
Earth	88465-12-22 12:58 G	34032593.95	34032594.04	34032594.18	0.0140	0.0124 *
Venus	88471-02-25 09:51 G	34034484.81	34034484.91	34034485.04	0.0138	0.0116
Venus	88471-10-09 17:17 G	34034711.05	34034711.22	34034711.39	0.0138	0.0086
Venus	88472-05-23 00:00 G	34034937.31	34034937.50	34034937.70	0.0137	0.0057
Venus	88473-01-04 06:44 G	34035163.57	34035163.78	34035164.00	0.0137	0.0027
Venus	88473-08-18 13:27 G	34035389.84	34035390.06	34035390.27	0.0137	0.0003
Venus	88474-04-01 19:41 G	34035616.12	34035616.32	34035616.53	0.0137	0.0032
Venus	88474-11-14 02:10 G	34035842.40	34035842.59	34035842.79	0.0136	0.0061
Venus	88475-06-28 07:56 G	34036068.69	34036068.83	34036069.01	0.0136	0.0090
Venus	88476-02-09 14:10 G	34036294.99	34036295.09	34036295.20	0.0136	0.0117
Mercury	88484-08-25 11:46 G	34039414.91	34039414.99	34039415.09	0.0134	0.0118
Mercury	88484-11-21 18:44 G	34039503.15	34039503.28	34039503.42	0.0134	0.0092
Mercury	88485-02-18 01:41 G	34039591.41	34039591.57	34039591.73	0.0134	0.0066
Mercury	88485-05-17 08:10 G	34039679.67	34039679.84	34039680.03	0.0134	0.0041
Mercury	88485-08-13 15:08 G	34039767.95	34039768.13	34039768.32	0.0134	0.0015
Mercury	88485-11-09 21:51 G	34039856.23	34039856.41	34039856.60	0.0134	0.0010
Mercury	88486-02-06 04:20 G	34039944.51	34039944.68	34039944.87	0.0134	0.0036
Mercury	88486-05-05 11:03 G	34040032.80	34040032.96	34040033.13	0.0134	0.0061
Mercury	88486-08-01 17:32 G	34040121.10	34040121.23	34040121.38	0.0134	0.0086
Mercury	88486-10-29 00:00 G	34040209.41	34040209.50	34040209.61	0.0134	0.0111
Mars	88489-04-08 04:20 G	34041101.48	34041101.68	34041101.90	0.0134	0.0090
Moon	88506-06-06 03:51 G	34047368.53	34047368.66	34047368.81	0.0137	0.0113

Earth	88506-06-06 06:00 G	34047368.60	34047368.75	34047368.91	0.0137	0.0107	*
Earth	88507-06-10 17:03 G	34047737.98	34047738.21	34047738.46	0.0137	0.0043	
Moon	88507-06-10 18:29 G	34047738.04	34047738.27	34047738.51	0.0137	0.0036	*
Moon	88508-06-14 03:08 G	34048107.37	34048107.63	34048107.89	0.0138	0.0016	
Earth	88508-06-14 04:48 G	34048107.45	34048107.70	34048107.95	0.0138	0.0023	*
Earth	88509-06-18 17:03 G	34048477.03	34048477.21	34048477.41	0.0138	0.0089	
Moon	88509-06-18 17:46 G	34048477.08	34048477.24	34048477.44	0.0138	0.0093	*
Venus	88515-02-19 10:48 G	34050548.85	34050548.95	34050549.09	0.0140	0.0117	
Venus	88515-10-03 21:08 G	34050775.22	34050775.38	34050775.57	0.0141	0.0086	
Venus	88516-05-17 08:10 G	34051001.64	34051001.84	34051002.05	0.0141	0.0053	
Venus	88516-12-29 18:58 G	34051228.07	34051228.29	34051228.51	0.0141	0.0020	
Venus	88517-08-13 05:46 G	34051454.52	34051454.74	34051454.96	0.0141	0.0013	
Venus	88518-03-27 16:48 G	34051680.99	34051681.20	34051681.41	0.0142	0.0046	
Venus	88518-11-09 04:05 G	34051907.49	34051907.67	34051907.86	0.0142	0.0079	
Venus	88519-06-23 15:22 G	34052134.02	34052134.14	34052134.29	0.0142	0.0113	
Mercury	88526-11-26 11:17 G	34054846.93	34054846.97	34054847.03	0.0144	0.0131	
Mercury	88527-02-22 15:08 G	34054935.05	34054935.13	34054935.22	0.0144	0.0109	
Mercury	88527-05-21 18:58 G	34055023.18	34055023.29	34055023.40	0.0144	0.0086	
Mercury	88527-08-17 22:34 G	34055111.33	34055111.44	34055111.57	0.0144	0.0064	
Mercury	88527-11-14 02:24 G	34055199.47	34055199.60	34055199.73	0.0144	0.0041	
Mercury	88528-02-10 06:15 G	34055287.63	34055287.76	34055287.90	0.0144	0.0018	
Mercury	88528-05-08 10:05 G	34055375.78	34055375.92	34055376.06	0.0144	0.0005	
Mercury	88528-08-04 13:56 G	34055463.95	34055464.08	34055464.21	0.0144	0.0028	
Mercury	88528-10-31 17:46 G	34055552.11	34055552.24	34055552.37	0.0144	0.0051	
Mercury	88529-01-27 21:36 G	34055640.29	34055640.40	34055640.52	0.0144	0.0074	
Mercury	88529-04-26 01:27 G	34055728.47	34055728.56	34055728.66	0.0144	0.0097	
Mercury	88529-07-23 05:32 G	34055816.66	34055816.73	34055816.80	0.0144	0.0121	
Mercury	88529-10-19 09:22 G	34055904.89	34055904.89	34055904.90	0.0144	0.0144	
Moon	88546-12-10 12:44 G	34062165.83	34062166.03	34062166.25	0.0141	0.0086	
Earth	88546-12-10 12:44 G	34062165.84	34062166.03	34062166.25	0.0141	0.0084	*

Moon	88547-12-15 08:53 G	34062535.62	34062535.87	34062536.12	0.0141	0.0014
Earth	88547-12-15 09:51 G	34062535.65	34062535.91	34062536.17	0.0141	0.0012 *
Earth	88548-12-19 05:32 G	34062905.51	34062905.73	34062905.97	0.0140	0.0060
Moon	88548-12-19 06:29 G	34062905.54	34062905.77	34062906.01	0.0140	0.0065 *
Moon	88549-12-23 22:34 G	34063275.34	34063275.44	34063275.57	0.0140	0.0123
Earth	88549-12-24 00:29 G	34063275.44	34063275.52	34063275.62	0.0140	0.0130 *
Venus	88554-10-26 20:10 G	34065043.28	34065043.34	34065043.43	0.0138	0.0128
Venus	88555-06-10 03:22 G	34065269.51	34065269.64	34065269.81	0.0138	0.0099
Venus	88556-01-22 10:34 G	34065495.76	34065495.94	34065496.13	0.0138	0.0069
Venus	88556-09-04 17:17 G	34065722.03	34065722.22	34065722.44	0.0137	0.0040
Venus	88557-04-19 00:15 G	34065948.30	34065948.51	34065948.73	0.0137	0.0010
Venus	88557-12-01 06:58 G	34066174.58	34066174.79	34066175.00	0.0137	0.0020
Venus	88558-07-15 13:12 G	34066400.86	34066401.05	34066401.26	0.0137	0.0049
Venus	88559-02-26 19:27 G	34066627.14	34066627.31	34066627.49	0.0136	0.0078
Venus	88559-10-11 01:12 G	34066853.44	34066853.55	34066853.71	0.0136	0.0107
Venus	88560-05-24 07:12 G	34067079.78	34067079.80	34067079.86	0.0136	0.0134
Mercury	88568-06-19 12:58 G	34070028.03	34070028.04	34070028.07	0.0134	0.0134
Mercury	88568-09-15 19:56 G	34070116.23	34070116.33	34070116.45	0.0134	0.0107
Mercury	88568-12-13 02:53 G	34070204.48	34070204.62	34070204.77	0.0134	0.0081
Mercury	88569-03-11 09:51 G	34070292.74	34070292.91	34070293.08	0.0134	0.0055
Mercury	88569-06-07 16:34 G	34070381.01	34070381.19	34070381.37	0.0134	0.0030
Mercury	88569-09-03 23:17 G	34070469.28	34070469.47	34070469.66	0.0134	0.0004
Mercury	88569-12-01 06:00 G	34070557.57	34070557.75	34070557.94	0.0134	0.0021
Mercury	88570-02-27 12:29 G	34070645.86	34070646.02	34070646.20	0.0134	0.0047
Mercury	88570-05-26 19:12 G	34070734.15	34070734.30	34070734.46	0.0134	0.0072
Mercury	88570-08-23 01:41 G	34070822.45	34070822.57	34070822.71	0.0134	0.0097
Mercury	88570-11-19 08:10 G	34070910.78	34070910.84	34070910.93	0.0134	0.0122
Mars	88572-01-03 10:48 G	34071320.70	34071320.95	34071321.23	0.0134	0.0046
Moon	88590-06-06 17:32 G	34078050.05	34078050.23	34078050.42	0.0137	0.0093
Earth	88590-06-06 19:12 G	34078050.16	34078050.30	34078050.49	0.0137	0.0101 *

Earth	88591-06-11 06:29 G	34078419.53	34078419.77	34078420.02	0.0137	0.0036
Moon	88591-06-11 08:39 G	34078419.64	34078419.86	34078420.10	0.0137	0.0043 *
Moon	88592-06-14 16:20 G	34078788.93	34078789.18	34078789.44	0.0138	0.0036
Earth	88592-06-14 18:00 G	34078789.01	34078789.25	34078789.50	0.0138	0.0030 *
Earth	88593-06-19 06:00 G	34079158.58	34079158.75	34079158.94	0.0138	0.0097
Moon	88593-06-19 07:41 G	34079158.65	34079158.82	34079159.02	0.0138	0.0093 *
Venus	88598-10-19 19:27 G	34081107.25	34081107.31	34081107.41	0.0140	0.0130
Venus	88599-06-03 05:46 G	34081333.60	34081333.74	34081333.91	0.0140	0.0099
Venus	88600-01-15 16:05 G	34081559.99	34081560.17	34081560.38	0.0141	0.0067
Venus	88600-08-30 02:53 G	34081786.41	34081786.62	34081786.83	0.0141	0.0034
Venus	88601-04-13 13:41 G	34082012.85	34082013.07	34082013.29	0.0141	0.0002
Venus	88601-11-26 00:29 G	34082239.31	34082239.52	34082239.74	0.0141	0.0031
Venus	88602-07-10 11:32 G	34082465.79	34082465.98	34082466.18	0.0142	0.0065
Venus	88603-02-21 22:34 G	34082692.29	34082692.44	34082692.61	0.0142	0.0098
Venus	88603-10-06 09:51 G	34082918.84	34082918.91	34082919.01	0.0142	0.0131
Mercury	88610-12-17 18:44 G	34085548.22	34085548.28	34085548.34	0.0144	0.0125
Mercury	88611-03-15 22:20 G	34085636.34	34085636.43	34085636.53	0.0144	0.0103
Mercury	88611-06-12 01:56 G	34085724.48	34085724.58	34085724.70	0.0144	0.0081
Mercury	88611-09-08 06:00 G	34085812.62	34085812.75	34085812.87	0.0144	0.0058
Mercury	88611-12-05 09:36 G	34085900.77	34085900.90	34085901.03	0.0144	0.0036
Mercury	88612-03-02 13:27 G	34085988.93	34085989.06	34085989.20	0.0144	0.0013
Mercury	88612-05-29 17:17 G	34086077.09	34086077.22	34086077.36	0.0144	0.0010
Mercury	88612-08-25 21:08 G	34086165.25	34086165.38	34086165.51	0.0144	0.0033
Mercury	88612-11-22 00:58 G	34086253.42	34086253.54	34086253.67	0.0144	0.0056
Mercury	88613-02-18 04:48 G	34086341.59	34086341.70	34086341.81	0.0144	0.0079
Mercury	88613-05-17 08:24 G	34086429.77	34086429.85	34086429.96	0.0144	0.0104
Mercury	88613-08-13 12:29 G	34086517.96	34086518.02	34086518.09	0.0144	0.0126
Mars	88614-05-23 16:20 G	34086800.86	34086801.18	34086801.52	0.0144	0.0031
Moon	88630-12-11 21:22 G	34092847.18	34092847.39	34092847.63	0.0141	0.0077
Earth	88630-12-11 22:05 G	34092847.21	34092847.42	34092847.63	0.0141	0.0080 *

Earth	88631-12-16 18:58 G	34093217.03	34093217.29	34093217.55	0.0141	0.0007
Moon	88631-12-16 19:12 G	34093217.06	34093217.30	34093217.55	0.0141	0.0006 *
Earth	88632-12-20 14:39 G	34093586.90	34093587.11	34093587.35	0.0140	0.0065
Moon	88632-12-20 15:36 G	34093586.92	34093587.15	34093587.40	0.0140	0.0059 *
Earth	88633-12-25 09:51 G	34093956.86	34093956.91	34093956.99	0.0140	0.0135
Venus	88639-02-08 12:58 G	34095827.92	34095828.04	34095828.17	0.0138	0.0111
Venus	88639-09-22 19:56 G	34096054.17	34096054.33	34096054.52	0.0138	0.0082
Venus	88640-05-06 03:22 G	34096280.44	34096280.64	34096280.84	0.0138	0.0052
Venus	88640-12-18 10:20 G	34096506.72	34096506.93	34096507.14	0.0137	0.0022
Venus	88641-08-01 17:03 G	34096733.00	34096733.21	34096733.43	0.0137	0.0007
Venus	88642-03-15 23:32 G	34096959.28	34096959.48	34096959.69	0.0137	0.0037
Venus	88642-10-28 05:46 G	34097185.57	34097185.74	34097185.94	0.0137	0.0066
Venus	88643-06-11 12:15 G	34097411.86	34097412.01	34097412.17	0.0136	0.0094
Venus	88644-01-23 18:00 G	34097638.17	34097638.25	34097638.36	0.0136	0.0122
Mercury	88652-07-10 20:53 G	34100729.31	34100729.37	34100729.46	0.0134	0.0124
Mercury	88652-10-07 03:51 G	34100817.54	34100817.66	34100817.80	0.0134	0.0097
Mercury	88653-01-03 10:48 G	34100905.80	34100905.95	34100906.12	0.0134	0.0071
Mercury	88653-04-01 17:46 G	34100994.07	34100994.24	34100994.42	0.0134	0.0045
Mercury	88653-06-29 00:29 G	34101082.34	34101082.52	34101082.71	0.0134	0.0020
Mercury	88653-09-25 07:27 G	34101170.62	34101170.81	34101170.99	0.0134	0.0007
Mercury	88653-12-22 13:56 G	34101258.90	34101259.08	34101259.27	0.0134	0.0032
Mercury	88654-03-20 20:39 G	34101347.20	34101347.36	34101347.53	0.0134	0.0057
Mercury	88654-06-17 03:22 G	34101435.50	34101435.64	34101435.79	0.0134	0.0082
Mercury	88654-09-13 09:51 G	34101523.81	34101523.91	34101524.02	0.0134	0.0107
Mercury	88654-12-10 16:20 G	34101612.16	34101612.18	34101612.22	0.0134	0.0132
Mars	88656-08-28 20:39 G	34102239.11	34102239.36	34102239.63	0.0134	0.0054
Moon	88674-06-08 07:27 G	34108731.64	34108731.81	34108731.99	0.0137	0.0098
Earth	88674-06-08 10:05 G	34108731.75	34108731.92	34108732.12	0.0137	0.0093 *
Earth	88675-06-12 21:08 G	34109101.14	34109101.38	34109101.63	0.0137	0.0028
Moon	88675-06-12 23:32 G	34109101.24	34109101.48	34109101.72	0.0137	0.0021 *

Moon	88676-06-16 06:00 G	34109470.50	34109470.75	34109471.01	0.0138	0.0031
Earth	88676-06-16 08:39 G	34109470.62	34109470.86	34109471.11	0.0138	0.0038 *
Earth	88677-06-20 20:39 G	34109840.21	34109840.36	34109840.54	0.0138	0.0105
Moon	88677-06-20 22:48 G	34109840.31	34109840.45	34109840.60	0.0138	0.0109 *
Venus	88683-02-01 15:51 G	34111892.04	34111892.16	34111892.31	0.0140	0.0110
Venus	88683-09-16 02:10 G	34112118.42	34112118.59	34112118.78	0.0140	0.0079
Venus	88684-04-29 12:43 G	34112344.83	34112345.03	34112345.25	0.0141	0.0046
Venus	88684-12-11 23:31 G	34112571.26	34112571.48	34112571.70	0.0141	0.0014
Venus	88685-07-26 10:05 G	34112797.71	34112797.92	34112798.14	0.0141	0.0019
Venus	88686-03-09 21:07 G	34113024.17	34113024.38	34113024.58	0.0141	0.0052
Venus	88686-10-22 07:55 G	34113250.67	34113250.83	34113251.02	0.0142	0.0085
Venus	88687-06-05 19:12 G	34113477.20	34113477.30	34113477.44	0.0142	0.0118
Mercury	88694-10-10 22:48 G	34116161.42	34116161.45	34116161.49	0.0144	0.0138
Mercury	88695-01-07 02:39 G	34116249.54	34116249.61	34116249.69	0.0144	0.0116
Mercury	88695-04-05 06:15 G	34116337.67	34116337.76	34116337.87	0.0144	0.0094
Mercury	88695-07-02 10:05 G	34116425.81	34116425.92	34116426.04	0.0144	0.0071
Mercury	88695-09-28 13:55 G	34116513.95	34116514.08	34116514.21	0.0144	0.0049
Mercury	88695-12-25 17:46 G	34116602.10	34116602.24	34116602.37	0.0144	0.0026
Mercury	88696-03-22 21:36 G	34116690.26	34116690.40	34116690.53	0.0144	0.0005
Mercury	88696-06-19 01:12 G	34116778.42	34116778.55	34116778.69	0.0144	0.0020
Mercury	88696-09-15 05:03 G	34116866.58	34116866.71	34116866.84	0.0144	0.0043
Mercury	88696-12-12 08:53 G	34116954.75	34116954.87	34116954.99	0.0144	0.0066
Mercury	88697-03-10 12:43 G	34117042.93	34117043.03	34117043.14	0.0144	0.0089
Mercury	88697-06-06 16:34 G	34117131.11	34117131.19	34117131.28	0.0144	0.0112
Mercury	88697-09-02 20:39 G	34117219.32	34117219.36	34117219.40	0.0144	0.0136
Mars	88699-01-18 12:58 G	34117721.85	34117722.04	34117722.24	0.0144	0.0118
Moon	88713-12-08 14:39 G	34123159.08	34123159.11	34123159.15	0.0141	0.0140
Moon	88714-12-13 09:07 G	34123528.67	34123528.88	34123529.11	0.0141	0.0076
Earth	88714-12-13 10:19 G	34123528.73	34123528.93	34123529.17	0.0141	0.0073 *
Earth	88715-12-18 07:27 G	34123898.56	34123898.81	34123899.07	0.0141	0.0003

Moon	88715-12-18 07:55 G	34123898.58	34123898.83	34123899.07	0.0141	0.0002 *
Moon	88716-12-22 02:39 G	34124268.41	34124268.61	34124268.85	0.0140	0.0077
Earth	88716-12-22 03:36 G	34124268.43	34124268.65	34124268.87	0.0140	0.0072 *
Moon	88717-12-26 21:22 G	34124638.35	34124638.39	34124638.47	0.0140	0.0136
Venus	88722-10-09 23:17 G	34126386.39	34126386.47	34126386.58	0.0138	0.0123
Venus	88723-05-24 06:58 G	34126612.63	34126612.79	34126612.95	0.0138	0.0093
Venus	88724-01-05 13:55 G	34126838.90	34126839.08	34126839.28	0.0138	0.0064
Venus	88724-08-18 20:53 G	34127065.17	34127065.37	34127065.59	0.0137	0.0035
Venus	88725-04-02 04:05 G	34127291.45	34127291.67	34127291.88	0.0137	0.0005
Venus	88725-11-14 10:48 G	34127517.74	34127517.95	34127518.16	0.0137	0.0025
Venus	88726-06-28 17:03 G	34127744.03	34127744.21	34127744.42	0.0137	0.0054
Venus	88727-02-09 23:17 G	34127970.31	34127970.47	34127970.66	0.0137	0.0083
Venus	88727-09-24 05:31 G	34128196.62	34128196.73	34128196.86	0.0136	0.0111
Mercury	88736-08-01 05:03 G	34131430.62	34131430.71	34131430.83	0.0134	0.0113
Mercury	88736-10-28 12:00 G	34131518.87	34131519.00	34131519.16	0.0134	0.0087
Mercury	88737-01-24 18:58 G	34131607.13	34131607.29	34131607.47	0.0134	0.0060
Mercury	88737-04-23 01:55 G	34131695.40	34131695.58	34131695.77	0.0134	0.0034
Mercury	88737-07-20 08:53 G	34131783.68	34131783.87	34131784.05	0.0134	0.0009
Mercury	88737-10-16 15:36 G	34131871.96	34131872.15	34131872.33	0.0134	0.0017
Mercury	88738-01-12 22:05 G	34131960.25	34131960.42	34131960.60	0.0134	0.0043
Mercury	88738-04-11 04:48 G	34132048.55	34132048.70	34132048.87	0.0134	0.0068
Mercury	88738-07-08 11:31 G	34132136.85	34132136.98	34132137.11	0.0134	0.0093
Mercury	88738-10-04 18:00 G	34132225.17	34132225.25	34132225.34	0.0134	0.0118
Mars	88739-05-26 03:22 G	34132458.44	34132458.64	34132458.88	0.0134	0.0082
Moon	88758-06-09 22:05 G	34139413.23	34139413.42	34139413.64	0.0137	0.0079
Earth	88758-06-10 00:58 G	34139413.36	34139413.54	34139413.75	0.0137	0.0086 *
Earth	88759-06-14 12:00 G	34139782.75	34139783.00	34139783.25	0.0137	0.0020
Moon	88759-06-14 15:07 G	34139782.89	34139783.13	34139783.37	0.0137	0.0028 *
Moon	88760-06-17 20:53 G	34140152.15	34140152.37	34140152.62	0.0138	0.0053
Earth	88760-06-17 23:31 G	34140152.25	34140152.48	34140152.72	0.0138	0.0046 *

Earth	88761-06-22 12:00 G	34140521.85	34140522.00	34140522.14	0.0138	0.0113
Moon	88761-06-22 14:10 G	34140521.95	34140522.09	34140522.26	0.0138	0.0108 *
Venus	88766-10-03 02:10 G	34142450.49	34142450.59	34142450.71	0.0140	0.0121
Venus	88767-05-17 12:15 G	34142676.86	34142677.01	34142677.19	0.0140	0.0091
Venus	88767-12-29 22:34 G	34142903.25	34142903.44	34142903.65	0.0141	0.0059
Venus	88768-08-12 09:22 G	34143129.67	34143129.89	34143130.10	0.0141	0.0026
Venus	88769-03-26 19:55 G	34143356.11	34143356.33	34143356.55	0.0141	0.0006
Venus	88769-11-08 06:29 G	34143582.57	34143582.77	34143582.99	0.0141	0.0039
Venus	88770-06-22 17:46 G	34143809.05	34143809.24	34143809.43	0.0141	0.0072
Venus	88771-02-04 04:34 G	34144035.56	34144035.69	34144035.85	0.0142	0.0105
Venus	88771-09-18 15:51 G	34144262.12	34144262.16	34144262.22	0.0142	0.0138
Mercury	88778-11-01 06:43 G	34146862.73	34146862.78	34146862.85	0.0144	0.0129
Mercury	88779-01-28 10:34 G	34146950.86	34146950.94	34146951.03	0.0144	0.0106
Mercury	88779-04-26 14:24 G	34147038.99	34147039.10	34147039.21	0.0144	0.0084
Mercury	88779-07-23 18:00 G	34147127.14	34147127.25	34147127.38	0.0144	0.0062
Mercury	88779-10-19 21:51 G	34147215.28	34147215.41	34147215.54	0.0144	0.0039
Mercury	88780-01-16 01:41 G	34147303.44	34147303.57	34147303.70	0.0144	0.0016
Mercury	88780-04-13 05:31 G	34147391.59	34147391.73	34147391.86	0.0144	0.0006
Mercury	88780-07-10 09:22 G	34147479.76	34147479.89	34147480.02	0.0144	0.0029
Mercury	88780-10-06 13:12 G	34147567.92	34147568.05	34147568.17	0.0144	0.0052
Mercury	88781-01-02 17:03 G	34147656.09	34147656.21	34147656.32	0.0144	0.0075
Mercury	88781-03-31 20:53 G	34147744.27	34147744.37	34147744.47	0.0144	0.0098
Mercury	88781-06-28 00:29 G	34147832.46	34147832.52	34147832.60	0.0144	0.0122
Mars	88781-10-09 07:41 G	34147935.57	34147935.82	34147936.08	0.0144	0.0094
Earth	88797-12-09 01:12 G	34153840.53	34153840.55	34153840.60	0.0141	0.0140
Moon	88798-12-13 21:22 G	34154210.16	34154210.39	34154210.64	0.0141	0.0063
Earth	88798-12-13 23:03 G	34154210.24	34154210.46	34154210.69	0.0141	0.0066 *
Earth	88799-12-18 19:55 G	34154580.08	34154580.33	34154580.59	0.0141	0.0007
Moon	88799-12-18 21:22 G	34154580.14	34154580.39	34154580.64	0.0141	0.0007 *
Moon	88800-12-22 15:36 G	34154949.92	34154950.15	34154950.37	0.0140	0.0074

Earth	88800-12-22 15:51 G	34154949.95	34154950.16	34154950.37	0.0140	0.0079	*
Venus	88806-06-09 09:51 G	34156944.88	34156944.91	34156944.97	0.0138	0.0135	
Venus	88807-01-21 17:31 G	34157171.10	34157171.23	34157171.38	0.0138	0.0105	
Venus	88807-09-05 00:43 G	34157397.36	34157397.53	34157397.72	0.0138	0.0076	
Venus	88808-04-18 07:55 G	34157623.63	34157623.83	34157624.04	0.0138	0.0046	
Venus	88808-11-30 15:07 G	34157849.92	34157850.13	34157850.35	0.0137	0.0016	
Venus	88809-07-14 21:51 G	34158076.20	34158076.41	34158076.63	0.0137	0.0013	
Venus	88810-02-26 04:19 G	34158302.48	34158302.68	34158302.89	0.0137	0.0042	
Venus	88810-10-10 10:48 G	34158528.77	34158528.95	34158529.14	0.0137	0.0071	
Venus	88811-05-24 16:48 G	34158755.07	34158755.20	34158755.36	0.0137	0.0100	
Venus	88812-01-05 22:48 G	34158981.39	34158981.45	34158981.54	0.0136	0.0128	
Mercury	88820-05-25 06:29 G	34162043.72	34162043.77	34162043.83	0.0134	0.0128	
Mercury	88820-08-21 13:27 G	34162131.95	34162132.06	34162132.19	0.0134	0.0101	
Mercury	88820-11-17 20:24 G	34162220.20	34162220.35	34162220.51	0.0134	0.0075	
Mercury	88821-02-14 03:07 G	34162308.47	34162308.63	34162308.82	0.0134	0.0050	
Mercury	88821-05-13 10:05 G	34162396.74	34162396.92	34162397.11	0.0134	0.0023	
Mercury	88821-08-09 17:03 G	34162485.02	34162485.21	34162485.40	0.0134	0.0003	
Mercury	88821-11-05 23:46 G	34162573.31	34162573.49	34162573.67	0.0134	0.0028	
Mercury	88822-02-02 06:29 G	34162661.60	34162661.77	34162661.94	0.0134	0.0054	
Mercury	88822-05-01 12:58 G	34162749.90	34162750.04	34162750.20	0.0134	0.0079	
Mercury	88822-07-28 19:27 G	34162838.21	34162838.31	34162838.44	0.0134	0.0105	
Mercury	88822-10-25 02:10 G	34162926.55	34162926.59	34162926.65	0.0134	0.0129	
Mars	88824-01-18 12:43 G	34163376.76	34163377.03	34163377.32	0.0134	0.0018	
Moon	88842-06-10 12:00 G	34170094.80	34170095.00	34170095.20	0.0137	0.0083	
Earth	88842-06-10 15:07 G	34170094.94	34170095.13	34170095.35	0.0137	0.0079	*
Earth	88843-06-15 02:10 G	34170464.34	34170464.59	34170464.84	0.0137	0.0013	
Moon	88843-06-15 05:03 G	34170464.47	34170464.71	34170464.96	0.0137	0.0006	*
Moon	88844-06-18 10:19 G	34170833.70	34170833.93	34170834.18	0.0138	0.0046	
Earth	88844-06-18 13:27 G	34170833.84	34170834.06	34170834.31	0.0138	0.0054	*
Earth	88845-06-23 02:10 G	34171203.47	34171203.59	34171203.71	0.0138	0.0120	

Moon	88845-06-23 04:34 G	34171203.60	34171203.69	34171203.80	0.0138	0.0126 *
Venus	88850-06-02 12:15 G	34173008.96	34173009.01	34173009.09	0.0140	0.0133
Venus	88851-01-14 22:05 G	34173235.29	34173235.42	34173235.59	0.0140	0.0103
Venus	88851-08-29 08:24 G	34173461.67	34173461.85	34173462.05	0.0140	0.0071
Venus	88852-04-11 18:58 G	34173688.08	34173688.29	34173688.51	0.0141	0.0039
Venus	88852-11-24 05:31 G	34173914.51	34173914.73	34173914.95	0.0141	0.0007
Venus	88853-07-08 16:19 G	34174140.96	34174141.18	34174141.40	0.0141	0.0026
Venus	88854-02-20 02:53 G	34174367.43	34174367.62	34174367.83	0.0141	0.0059
Venus	88854-10-04 13:55 G	34174593.92	34174594.08	34174594.26	0.0142	0.0092
Venus	88855-05-19 01:12 G	34174820.46	34174820.55	34174820.66	0.0142	0.0125
Mercury	88862-08-25 11:17 G	34177475.95	34177475.97	34177476.00	0.0144	0.0141
Mercury	88862-11-21 14:53 G	34177564.06	34177564.12	34177564.21	0.0144	0.0119
Mercury	88863-02-17 18:58 G	34177652.19	34177652.29	34177652.38	0.0144	0.0096
Mercury	88863-05-16 22:34 G	34177740.33	34177740.44	34177740.55	0.0144	0.0074
Mercury	88863-08-13 02:10 G	34177828.47	34177828.59	34177828.72	0.0144	0.0052
Mercury	88863-11-09 06:00 G	34177916.62	34177916.75	34177916.88	0.0144	0.0029
Mercury	88864-02-05 09:51 G	34178004.78	34178004.91	34178005.05	0.0144	0.0006
Mercury	88864-05-03 13:41 G	34178092.93	34178093.07	34178093.20	0.0144	0.0017
Mercury	88864-07-30 17:17 G	34178181.10	34178181.22	34178181.36	0.0144	0.0040
Mercury	88864-10-26 21:07 G	34178269.27	34178269.38	34178269.51	0.0144	0.0063
Mercury	88865-01-23 00:58 G	34178357.44	34178357.54	34178357.66	0.0144	0.0086
Mercury	88865-04-21 04:48 G	34178445.62	34178445.70	34178445.80	0.0144	0.0109
Mercury	88865-07-18 08:53 G	34178533.82	34178533.87	34178533.92	0.0144	0.0132
Mars	88866-06-06 08:24 G	34178856.55	34178856.85	34178857.17	0.0144	0.0057
Earth	88881-12-09 16:19 G	34184522.11	34184522.18	34184522.29	0.0141	0.0132
Moon	88881-12-09 18:43 G	34184522.19	34184522.28	34184522.42	0.0141	0.0125 *
Moon	88882-12-14 11:46 G	34184891.76	34184891.99	34184892.23	0.0141	0.0062
Earth	88882-12-14 14:10 G	34184891.86	34184892.09	34184892.33	0.0141	0.0058 *
Earth	88883-12-19 10:48 G	34185261.70	34185261.95	34185262.21	0.0141	0.0016
Moon	88883-12-19 12:15 G	34185261.76	34185262.01	34185262.26	0.0141	0.0015 *

Moon	88884-12-23 05:03 G	34185631.52	34185631.71	34185631.93	0.0140	0.0091
Earth	88884-12-23 06:29 G	34185631.59	34185631.77	34185631.99	0.0140	0.0088 *
Venus	88890-09-21 05:03 G	34187729.61	34187729.71	34187729.84	0.0138	0.0117
Venus	88891-05-05 12:29 G	34187955.87	34187956.02	34187956.20	0.0138	0.0087
Venus	88891-12-17 19:55 G	34188182.14	34188182.33	34188182.53	0.0138	0.0057
Venus	88892-07-31 02:53 G	34188408.41	34188408.62	34188408.84	0.0137	0.0028
Venus	88893-03-14 09:51 G	34188634.69	34188634.91	34188635.13	0.0137	0.0002
Venus	88893-10-26 16:34 G	34188860.98	34188861.19	34188861.40	0.0137	0.0031
Venus	88894-06-09 22:48 G	34189087.27	34189087.45	34189087.65	0.0137	0.0060
Venus	88895-01-22 05:03 G	34189313.56	34189313.71	34189313.88	0.0137	0.0089
Venus	88895-09-05 11:03 G	34189539.86	34189539.96	34189540.08	0.0136	0.0117
Mercury	88904-06-15 14:39 G	34192745.03	34192745.11	34192745.22	0.0134	0.0116
Mercury	88904-09-11 21:36 G	34192833.27	34192833.40	34192833.55	0.0134	0.0090
Mercury	88904-12-09 04:48 G	34192921.54	34192921.70	34192921.87	0.0134	0.0064
Mercury	88905-03-07 11:31 G	34193009.81	34193009.98	34193010.17	0.0134	0.0038
Mercury	88905-06-03 18:29 G	34193098.08	34193098.27	34193098.46	0.0134	0.0012
Mercury	88905-08-31 01:12 G	34193186.37	34193186.55	34193186.74	0.0134	0.0014
Mercury	88905-11-27 07:55 G	34193274.66	34193274.83	34193275.01	0.0134	0.0039
Mercury	88906-02-23 14:24 G	34193362.95	34193363.10	34193363.28	0.0134	0.0065
Mercury	88906-05-22 21:07 G	34193451.25	34193451.38	34193451.53	0.0134	0.0090
Mercury	88906-08-19 03:36 G	34193539.57	34193539.65	34193539.76	0.0134	0.0116
Mars	88906-10-14 20:24 G	34193596.24	34193596.35	34193596.51	0.0134	0.0118
Mars	88908-09-12 21:36 G	34194295.29	34194295.40	34194295.56	0.0134	0.0118
Earth	88925-06-07 18:00 G	34200407.25	34200407.25	34200407.28	0.0137	0.0136
Moon	88926-06-12 01:12 G	34200776.32	34200776.55	34200776.77	0.0137	0.0066
Earth	88926-06-12 04:19 G	34200776.48	34200776.68	34200776.91	0.0137	0.0072 *
Earth	88927-06-16 15:22 G	34201145.88	34201146.14	34201146.39	0.0137	0.0006
Moon	88927-06-16 18:43 G	34201146.03	34201146.28	34201146.53	0.0137	0.0013 *
Moon	88928-06-19 23:31 G	34201515.27	34201515.48	34201515.72	0.0138	0.0068
Earth	88928-06-20 02:39 G	34201515.40	34201515.61	34201515.85	0.0138	0.0061 *

Earth	88929-06-24 14:53 G	34201885.05	34201885.12	34201885.24	0.0138	0.0128
Moon	88929-06-24 18:15 G	34201885.17	34201885.26	34201885.39	0.0138	0.0123 *
Venus	88934-09-15 07:12 G	34203793.68	34203793.80	34203793.93	0.0140	0.0115
Venus	88935-04-29 17:03 G	34204020.05	34204020.21	34204020.40	0.0140	0.0084
Venus	88935-12-12 03:22 G	34204246.44	34204246.64	34204246.85	0.0141	0.0052
Venus	88936-07-25 13:41 G	34204472.86	34204473.07	34204473.30	0.0141	0.0020
Venus	88937-03-09 00:15 G	34204699.30	34204699.51	34204699.73	0.0141	0.0013
Venus	88937-10-21 11:03 G	34204925.75	34204925.96	34204926.17	0.0141	0.0045
Venus	88938-06-04 22:05 G	34205152.24	34205152.42	34205152.61	0.0141	0.0078
Venus	88939-01-17 08:53 G	34205378.75	34205378.87	34205379.02	0.0142	0.0111
Jupiter	88944-09-13 06:15 G	34207444.48	34207444.76	34207445.08	0.0143	0.0116
Mercury	88946-09-15 18:43 G	34208177.25	34208177.28	34208177.34	0.0144	0.0134
Mercury	88946-12-12 22:48 G	34208265.36	34208265.45	34208265.53	0.0144	0.0111
Mercury	88947-03-11 02:24 G	34208353.50	34208353.60	34208353.71	0.0144	0.0089
Mercury	88947-06-07 06:00 G	34208441.64	34208441.75	34208441.87	0.0144	0.0067
Mercury	88947-09-03 09:51 G	34208529.78	34208529.91	34208530.04	0.0144	0.0044
Mercury	88947-11-30 13:41 G	34208617.93	34208618.07	34208618.20	0.0144	0.0022
Mercury	88948-02-26 17:17 G	34208706.09	34208706.22	34208706.36	0.0144	0.0005
Mercury	88948-05-24 21:07 G	34208794.25	34208794.38	34208794.52	0.0144	0.0024
Mercury	88948-08-21 00:58 G	34208882.41	34208882.54	34208882.67	0.0144	0.0047
Mercury	88948-11-17 04:48 G	34208970.58	34208970.70	34208970.82	0.0144	0.0070
Mercury	88949-02-13 08:39 G	34209058.76	34209058.86	34209058.96	0.0144	0.0093
Mercury	88949-05-12 12:29 G	34209146.95	34209147.02	34209147.10	0.0144	0.0116
Mercury	88949-08-08 16:34 G	34209235.16	34209235.19	34209235.22	0.0144	0.0140
Earth	88965-12-11 04:34 G	34215203.58	34215203.69	34215203.82	0.0142	0.0125
Moon	88965-12-11 07:12 G	34215203.74	34215203.80	34215203.91	0.0142	0.0133 *
Moon	88966-12-16 00:00 G	34215573.25	34215573.50	34215573.75	0.0141	0.0047
Earth	88966-12-16 02:24 G	34215573.37	34215573.60	34215573.84	0.0141	0.0051 *
Earth	88967-12-20 23:17 G	34215943.22	34215943.47	34215943.72	0.0141	0.0022
Moon	88967-12-21 01:41 G	34215943.32	34215943.57	34215943.82	0.0141	0.0021 *

Moon	88968-12-24 17:31 G	34216313.04	34216313.23	34216313.44	0.0140	0.0090
Earth	88968-12-24 18:58 G	34216313.11	34216313.29	34216313.49	0.0140	0.0095 *
Venus	88974-05-22 15:36 G	34218288.09	34218288.15	34218288.25	0.0138	0.0128
Venus	88975-01-03 23:17 G	34218514.33	34218514.47	34218514.63	0.0138	0.0098
Venus	88975-08-18 06:29 G	34218740.59	34218740.77	34218740.97	0.0138	0.0069
Venus	88976-03-31 13:41 G	34218966.87	34218967.07	34218967.28	0.0138	0.0039
Venus	88976-11-12 20:53 G	34219193.15	34219193.37	34219193.58	0.0137	0.0010
Venus	88977-06-27 03:36 G	34219419.44	34219419.65	34219419.86	0.0137	0.0019
Venus	88978-02-08 09:51 G	34219645.72	34219645.91	34219646.12	0.0137	0.0048
Venus	88978-09-22 16:05 G	34219872.00	34219872.17	34219872.36	0.0137	0.0077
Venus	88979-05-06 22:34 G	34220098.31	34220098.44	34220098.58	0.0137	0.0105
Venus	88979-12-19 04:48 G	34220324.65	34220324.70	34220324.74	0.0136	0.0133
Mercury	88988-04-08 15:36 G	34223358.14	34223358.15	34223358.20	0.0134	0.0133
Mercury	88988-07-05 22:48 G	34223446.34	34223446.45	34223446.57	0.0134	0.0106
Mercury	88988-10-02 05:46 G	34223534.60	34223534.74	34223534.90	0.0134	0.0080
Mercury	88988-12-29 12:43 G	34223622.86	34223623.03	34223623.21	0.0134	0.0054
Mercury	88989-03-27 19:41 G	34223711.13	34223711.32	34223711.50	0.0134	0.0028
Mercury	88989-06-24 02:24 G	34223799.42	34223799.60	34223799.79	0.0134	0.0003
Mercury	88989-09-20 09:07 G	34223887.70	34223887.88	34223888.07	0.0134	0.0024
Mercury	88989-12-17 15:51 G	34223975.99	34223976.16	34223976.34	0.0134	0.0050
Mercury	88990-03-15 22:19 G	34224064.29	34224064.43	34224064.60	0.0134	0.0075
Mercury	88990-06-12 05:03 G	34224152.60	34224152.71	34224152.84	0.0134	0.0100
Mercury	88990-09-08 11:31 G	34224240.93	34224240.98	34224241.06	0.0134	0.0125
Mars	88991-06-09 03:51 G	34224514.38	34224514.66	34224514.94	0.0134	0.0019

90TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 90th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	89009-06-09 06:00	G	34231088.69	34231088.75	34231088.83	0.0137	0.0131	
Moon	89009-06-09 09:36	G	34231088.83	34231088.90	34231089.00	0.0137	0.0128	*
Moon	89010-06-13 12:29	G	34231457.82	34231458.02	34231458.25	0.0137	0.0071	
Earth	89010-06-13 16:05	G	34231457.96	34231458.17	34231458.40	0.0137	0.0066	*
Earth	89011-06-18 03:07	G	34231827.37	34231827.63	34231827.88	0.0137	0.0002	
Moon	89011-06-18 06:29	G	34231827.52	34231827.77	34231828.02	0.0137	0.0007	*
Moon	89012-06-21 10:48	G	34232196.73	34232196.95	34232197.19	0.0138	0.0059	
Earth	89012-06-21 14:24	G	34232196.89	34232197.10	34232197.33	0.0138	0.0067	*
Earth	89013-06-26 02:39	G	34232566.57	34232566.61	34232566.68	0.0138	0.0134	
Venus	89018-05-16 14:53	G	34234352.04	34234352.12	34234352.21	0.0140	0.0128	
Venus	89018-12-29 00:43	G	34234578.38	34234578.53	34234578.69	0.0140	0.0097	
Venus	89019-08-12 10:48	G	34234804.76	34234804.95	34234805.14	0.0140	0.0066	
Venus	89020-03-25 20:53	G	34235031.16	34235031.37	34235031.59	0.0141	0.0034	
Venus	89020-11-07 07:27	G	34235257.59	34235257.81	34235258.03	0.0141	0.0002	
Venus	89021-06-21 18:00	G	34235484.04	34235484.25	34235484.47	0.0141	0.0031	
Venus	89022-02-03 04:34	G	34235710.51	34235710.69	34235710.90	0.0141	0.0063	
Venus	89022-09-17 15:36	G	34235937.00	34235937.15	34235937.32	0.0142	0.0096	
Venus	89023-05-02 02:39	G	34236163.54	34236163.61	34236163.72	0.0142	0.0129	
Mercury	89030-10-07 02:10	G	34238878.54	34238878.59	34238878.66	0.0144	0.0128	
Mercury	89031-01-03 06:00	G	34238966.66	34238966.75	34238966.84	0.0144	0.0105	
Mercury	89031-04-01 09:36	G	34239054.80	34239054.90	34239055.01	0.0144	0.0083	
Mercury	89031-06-28 13:27	G	34239142.94	34239143.06	34239143.18	0.0144	0.0061	
Mercury	89031-09-24 17:17	G	34239231.09	34239231.22	34239231.35	0.0144	0.0038	
Mercury	89031-12-21 20:53	G	34239319.24	34239319.37	34239319.51	0.0144	0.0016	
Mercury	89032-03-19 00:43	G	34239407.39	34239407.53	34239407.66	0.0144	0.0007	

Mercury	89032-06-15 04:34 G	34239495.55	34239495.69	34239495.82	0.0144	0.0030
Mercury	89032-09-11 08:10 G	34239583.72	34239583.84	34239583.97	0.0144	0.0053
Mercury	89032-12-08 12:00 G	34239671.89	34239672.00	34239672.12	0.0144	0.0076
Mercury	89033-03-06 15:51 G	34239760.07	34239760.16	34239760.26	0.0144	0.0099
Mercury	89033-06-02 19:41 G	34239848.26	34239848.32	34239848.40	0.0144	0.0122
Mars	89033-10-23 08:10 G	34239990.51	34239990.84	34239991.18	0.0144	0.0019
Earth	89049-12-12 15:36 G	34245885.03	34245885.15	34245885.30	0.0142	0.0120
Moon	89049-12-12 19:12 G	34245885.15	34245885.30	34245885.45	0.0142	0.0112 *
Moon	89050-12-17 10:34 G	34246254.70	34246254.94	34246255.19	0.0141	0.0051
Earth	89050-12-17 13:41 G	34246254.83	34246255.07	34246255.32	0.0141	0.0045 *
Earth	89051-12-22 10:34 G	34246624.69	34246624.94	34246625.20	0.0141	0.0029
Moon	89051-12-22 12:58 G	34246624.80	34246625.04	34246625.29	0.0141	0.0029 *
Moon	89052-12-26 04:19 G	34246994.51	34246994.68	34246994.86	0.0140	0.0103
Earth	89052-12-26 06:58 G	34246994.61	34246994.79	34246994.97	0.0140	0.0101 *
Venus	89058-09-04 09:36 G	34249072.78	34249072.90	34249073.03	0.0138	0.0111
Venus	89059-04-18 16:48 G	34249299.04	34249299.20	34249299.39	0.0138	0.0081
Venus	89059-12-01 00:15 G	34249525.32	34249525.51	34249525.72	0.0138	0.0052
Venus	89060-07-14 07:27 G	34249751.60	34249751.81	34249752.02	0.0138	0.0022
Venus	89061-02-25 14:10 G	34249977.88	34249978.09	34249978.31	0.0137	0.0007
Venus	89061-10-09 20:53 G	34250204.16	34250204.37	34250204.58	0.0137	0.0036
Venus	89062-05-24 03:07 G	34250430.45	34250430.63	34250430.83	0.0137	0.0065
Venus	89063-01-05 09:22 G	34250656.75	34250656.89	34250657.06	0.0137	0.0094
Venus	89063-08-19 15:36 G	34250883.06	34250883.15	34250883.26	0.0137	0.0122
Jupiter	89069-07-05 09:22 G	34253029.57	34253029.89	34253030.25	0.0135	0.0102
Mercury	89072-04-29 23:46 G	34254059.42	34254059.49	34254059.58	0.0134	0.0122
Mercury	89072-07-27 06:43 G	34254147.66	34254147.78	34254147.92	0.0134	0.0096
Mercury	89072-10-23 13:41 G	34254235.92	34254236.07	34254236.24	0.0134	0.0070
Mercury	89073-01-19 20:39 G	34254324.19	34254324.36	34254324.54	0.0134	0.0043
Mercury	89073-04-18 03:36 G	34254412.46	34254412.65	34254412.84	0.0134	0.0017
Mercury	89073-07-15 10:19 G	34254500.75	34254500.93	34254501.12	0.0134	0.0009

Mercury	89073-10-11 17:03 G	34254589.03	34254589.21	34254589.40	0.0134	0.0034
Mercury	89074-01-07 23:46 G	34254677.33	34254677.49	34254677.66	0.0134	0.0059
Mercury	89074-04-06 06:29 G	34254765.63	34254765.77	34254765.92	0.0134	0.0085
Mercury	89074-07-03 12:43 G	34254853.95	34254854.03	34254854.15	0.0134	0.0111
Mars	89076-02-02 12:29 G	34255432.81	34255433.02	34255433.27	0.0134	0.0079
Earth	89093-06-09 18:29 G	34261770.17	34261770.27	34261770.37	0.0137	0.0125
Moon	89093-06-09 21:36 G	34261770.32	34261770.40	34261770.51	0.0137	0.0127 *
Moon	89094-06-14 00:43 G	34262139.31	34262139.53	34262139.77	0.0137	0.0055
Earth	89094-06-14 04:34 G	34262139.47	34262139.69	34262139.92	0.0137	0.0060 *
Earth	89095-06-18 15:07 G	34262508.88	34262509.13	34262509.39	0.0137	0.0007
Moon	89095-06-18 18:43 G	34262509.03	34262509.28	34262509.54	0.0137	0.0002 *
Moon	89096-06-21 23:03 G	34262878.27	34262878.46	34262878.68	0.0138	0.0081
Earth	89096-06-22 02:53 G	34262878.41	34262878.62	34262878.83	0.0138	0.0073 *
Moon	89097-06-26 18:29 G	34263248.23	34263248.27	34263248.34	0.0138	0.0134
Venus	89102-08-29 08:10 G	34265136.72	34265136.84	34265136.99	0.0140	0.0111
Venus	89103-04-12 18:15 G	34265363.09	34265363.26	34265363.45	0.0140	0.0079
Venus	89103-11-25 04:05 G	34265589.48	34265589.67	34265589.89	0.0140	0.0049
Venus	89104-07-08 14:24 G	34265815.89	34265816.10	34265816.33	0.0141	0.0017
Venus	89105-02-20 00:58 G	34266042.32	34266042.54	34266042.76	0.0141	0.0016
Venus	89105-10-04 11:31 G	34266268.77	34266268.98	34266269.19	0.0141	0.0048
Venus	89106-05-18 22:19 G	34266495.25	34266495.43	34266495.62	0.0141	0.0081
Venus	89106-12-31 09:07 G	34266721.76	34266721.88	34266722.02	0.0141	0.0113
Mercury	89114-10-28 09:22 G	34269579.82	34269579.89	34269579.96	0.0144	0.0123
Mercury	89115-01-24 12:58 G	34269667.95	34269668.04	34269668.14	0.0144	0.0101
Mercury	89115-04-22 16:34 G	34269756.09	34269756.19	34269756.31	0.0144	0.0079
Mercury	89115-07-19 20:24 G	34269844.23	34269844.35	34269844.47	0.0144	0.0056
Mercury	89115-10-16 00:15 G	34269932.38	34269932.51	34269932.64	0.0144	0.0034
Mercury	89116-01-12 03:51 G	34270020.53	34270020.66	34270020.80	0.0144	0.0012
Mercury	89116-04-09 07:41 G	34270108.68	34270108.82	34270108.95	0.0144	0.0011
Mercury	89116-07-06 11:31 G	34270196.84	34270196.98	34270197.11	0.0144	0.0034

Mercury	89116-10-02 15:07 G	34270285.01	34270285.13	34270285.26	0.0144	0.0057
Mercury	89116-12-29 18:58 G	34270373.18	34270373.29	34270373.41	0.0144	0.0080
Mercury	89117-03-27 22:48 G	34270461.36	34270461.45	34270461.55	0.0144	0.0103
Mercury	89117-06-24 02:39 G	34270549.55	34270549.61	34270549.68	0.0144	0.0126
Mars	89118-06-20 15:07 G	34270910.95	34270911.13	34270911.33	0.0144	0.0117
Earth	89133-12-13 22:34 G	34276566.31	34276566.44	34276566.60	0.0142	0.0117
Moon	89133-12-14 01:55 G	34276566.48	34276566.58	34276566.72	0.0142	0.0125 *
Moon	89134-12-18 17:31 G	34276935.98	34276936.23	34276936.48	0.0141	0.0037
Earth	89134-12-18 20:53 G	34276936.13	34276936.37	34276936.62	0.0141	0.0042 *
Earth	89135-12-23 18:00 G	34277306.00	34277306.25	34277306.50	0.0141	0.0032
Moon	89135-12-23 21:07 G	34277306.14	34277306.38	34277306.63	0.0141	0.0029 *
Moon	89136-12-27 12:00 G	34277675.82	34277676.00	34277676.18	0.0140	0.0102
Earth	89136-12-27 14:10 G	34277675.93	34277676.09	34277676.27	0.0140	0.0105 *
Venus	89142-05-05 17:17 G	34279631.14	34279631.22	34279631.33	0.0139	0.0125
Venus	89142-12-18 01:12 G	34279857.40	34279857.55	34279857.71	0.0138	0.0095
Venus	89143-08-01 08:24 G	34280083.67	34280083.85	34280084.05	0.0138	0.0065
Venus	89144-03-14 15:36 G	34280309.95	34280310.15	34280310.37	0.0138	0.0036
Venus	89144-10-26 22:48 G	34280536.24	34280536.45	34280536.67	0.0138	0.0006
Venus	89145-06-10 05:31 G	34280762.52	34280762.73	34280762.95	0.0137	0.0023
Venus	89146-01-22 12:00 G	34280988.81	34280989.00	34280989.21	0.0137	0.0052
Venus	89146-09-05 18:43 G	34281215.11	34281215.28	34281215.45	0.0137	0.0080
Venus	89147-04-20 00:43 G	34281441.41	34281441.53	34281441.67	0.0137	0.0109
Venus	89147-12-02 07:27 G	34281667.81	34281667.81	34281667.81	0.0137	0.0137
Mercury	89156-05-21 07:12 G	34284760.71	34284760.80	34284760.91	0.0135	0.0114
Mercury	89156-08-17 14:10 G	34284848.95	34284849.09	34284849.24	0.0135	0.0088
Mercury	89156-11-13 21:07 G	34284937.22	34284937.38	34284937.55	0.0135	0.0061
Mercury	89157-02-10 04:05 G	34285025.49	34285025.67	34285025.85	0.0134	0.0035
Mercury	89157-05-09 11:03 G	34285113.77	34285113.96	34285114.14	0.0134	0.0010
Mercury	89157-08-05 17:46 G	34285202.05	34285202.24	34285202.43	0.0134	0.0016
Mercury	89157-11-02 00:15 G	34285290.34	34285290.51	34285290.70	0.0134	0.0043

Mercury	89158-01-29 07:12 G	34285378.64	34285378.80	34285378.96	0.0134	0.0067
Mercury	89158-04-27 13:55 G	34285466.95	34285467.08	34285467.21	0.0134	0.0093
Mercury	89158-07-24 20:10 G	34285555.27	34285555.34	34285555.44	0.0134	0.0118
Mars	89158-10-29 17:03 G	34285651.97	34285652.21	34285652.48	0.0134	0.0060
Earth	89177-06-11 07:12 G	34292451.69	34292451.80	34292451.93	0.0136	0.0119
Moon	89177-06-11 10:48 G	34292451.83	34292451.95	34292452.09	0.0136	0.0117 *
Moon	89178-06-15 13:41 G	34292820.86	34292821.07	34292821.31	0.0137	0.0058
Earth	89178-06-15 17:03 G	34292820.99	34292821.21	34292821.46	0.0137	0.0054 *
Earth	89179-06-20 04:05 G	34293190.42	34293190.67	34293190.92	0.0137	0.0013
Moon	89179-06-20 07:41 G	34293190.57	34293190.82	34293191.07	0.0137	0.0020 *
Moon	89180-06-23 12:00 G	34293559.79	34293560.00	34293560.22	0.0137	0.0072
Earth	89180-06-23 15:36 G	34293559.95	34293560.15	34293560.36	0.0137	0.0080 *
Venus	89186-04-28 16:48 G	34295695.11	34295695.20	34295695.32	0.0140	0.0123
Venus	89186-12-11 02:39 G	34295921.45	34295921.61	34295921.78	0.0140	0.0092
Venus	89187-07-25 12:29 G	34296147.83	34296148.02	34296148.22	0.0140	0.0061
Venus	89188-03-07 22:34 G	34296374.23	34296374.44	34296374.66	0.0140	0.0030
Venus	89188-10-20 08:53 G	34296600.65	34296600.87	34296601.09	0.0141	0.0002
Venus	89189-06-03 19:27 G	34296827.10	34296827.31	34296827.53	0.0141	0.0034
Venus	89190-01-16 05:46 G	34297053.56	34297053.74	34297053.95	0.0141	0.0067
Venus	89190-08-30 16:34 G	34297280.05	34297280.19	34297280.36	0.0141	0.0099
Venus	89191-04-14 03:36 G	34297506.59	34297506.65	34297506.75	0.0141	0.0132
Mercury	89198-08-21 12:58 G	34300193.01	34300193.04	34300193.07	0.0144	0.0139
Mercury	89198-11-17 16:34 G	34300281.12	34300281.19	34300281.27	0.0144	0.0117
Mercury	89199-02-13 20:24 G	34300369.25	34300369.35	34300369.45	0.0144	0.0095
Mercury	89199-05-13 00:00 G	34300457.39	34300457.50	34300457.62	0.0144	0.0073
Mercury	89199-08-09 03:36 G	34300545.53	34300545.65	34300545.78	0.0144	0.0051
Mercury	89199-11-05 07:27 G	34300633.68	34300633.81	34300633.94	0.0144	0.0028
Mercury	89200-02-01 11:17 G	34300721.83	34300721.97	34300722.10	0.0144	0.0007
Mercury	89200-04-29 14:53 G	34300809.99	34300810.12	34300810.26	0.0144	0.0017
Mercury	89200-07-26 18:43 G	34300898.15	34300898.28	34300898.41	0.0144	0.0040

Mercury	89200-10-22 22:19 G	34300986.32	34300986.43	34300986.56	0.0144	0.0063
Mercury	89201-01-19 02:10 G	34301074.49	34301074.59	34301074.70	0.0144	0.0086
Mars	89201-03-09 21:22 G	34301124.18	34301124.39	34301124.66	0.0144	0.0101
Mercury	89201-04-17 06:00 G	34301162.67	34301162.75	34301162.84	0.0144	0.0109
Mercury	89201-07-14 09:51 G	34301250.86	34301250.91	34301250.97	0.0144	0.0132
Earth	89217-12-14 07:41 G	34307247.68	34307247.82	34307247.99	0.0142	0.0113
Moon	89217-12-14 11:31 G	34307247.82	34307247.98	34307248.16	0.0142	0.0105 *
Moon	89218-12-19 02:10 G	34307617.36	34307617.59	34307617.85	0.0141	0.0045
Earth	89218-12-19 05:46 G	34307617.51	34307617.74	34307618.00	0.0141	0.0039 *
Earth	89219-12-24 02:53 G	34307987.39	34307987.62	34307987.88	0.0141	0.0037
Moon	89219-12-24 06:15 G	34307987.52	34307987.76	34307988.01	0.0141	0.0039 *
Moon	89220-12-27 20:24 G	34308357.19	34308357.35	34308357.51	0.0140	0.0110
Earth	89220-12-27 23:31 G	34308357.34	34308357.48	34308357.65	0.0140	0.0110 *
Venus	89226-01-03 01:41 G	34310189.57	34310189.57	34310189.61	0.0139	0.0138
Venus	89226-08-17 09:22 G	34310415.77	34310415.89	34310416.04	0.0138	0.0109
Venus	89227-03-31 17:03 G	34310642.04	34310642.21	34310642.40	0.0138	0.0079
Venus	89227-11-13 00:29 G	34310868.33	34310868.52	34310868.73	0.0138	0.0049
Venus	89228-06-26 07:41 G	34311094.61	34311094.82	34311095.04	0.0138	0.0020
Venus	89229-02-07 14:39 G	34311320.90	34311321.11	34311321.33	0.0138	0.0010
Venus	89229-09-21 21:22 G	34311547.19	34311547.39	34311547.60	0.0137	0.0039
Venus	89230-05-06 03:51 G	34311773.48	34311773.66	34311773.86	0.0137	0.0068
Venus	89230-12-18 10:34 G	34311999.79	34311999.94	34312000.10	0.0137	0.0096
Venus	89231-08-01 17:03 G	34312226.12	34312226.21	34312226.30	0.0137	0.0124
Mercury	89240-03-14 07:41 G	34315373.79	34315373.82	34315373.86	0.0135	0.0132
Mercury	89240-06-10 14:39 G	34315462.00	34315462.11	34315462.23	0.0135	0.0106
Mercury	89240-09-06 21:22 G	34315550.25	34315550.39	34315550.56	0.0135	0.0080
Mercury	89240-12-04 04:19 G	34315638.52	34315638.68	34315638.87	0.0135	0.0054
Mercury	89241-03-02 11:17 G	34315726.79	34315726.97	34315727.16	0.0135	0.0028
Mercury	89241-05-29 18:15 G	34315815.08	34315815.26	34315815.45	0.0135	0.0004
Mercury	89241-08-26 01:12 G	34315903.36	34315903.55	34315903.73	0.0135	0.0025

Mercury	89241-11-22 07:41 G	34315991.66	34315991.82	34315992.00	0.0134	0.0051
Mercury	89242-02-18 14:39 G	34316079.96	34316080.11	34316080.26	0.0134	0.0076
Mercury	89242-05-17 20:53 G	34316168.27	34316168.37	34316168.51	0.0134	0.0102
Mercury	89242-08-14 03:36 G	34316256.60	34316256.65	34316256.73	0.0134	0.0127
Mars	89243-06-23 22:34 G	34316570.18	34316570.44	34316570.72	0.0134	0.0037
Earth	89261-06-11 20:24 G	34323133.23	34323133.35	34323133.51	0.0136	0.0113
Moon	89261-06-11 23:31 G	34323133.36	34323133.48	34323133.64	0.0136	0.0114 *
Moon	89262-06-16 03:36 G	34323502.42	34323502.65	34323502.89	0.0137	0.0042
Earth	89262-06-16 06:58 G	34323502.56	34323502.79	34323503.04	0.0137	0.0047 *
Earth	89263-06-20 17:46 G	34323872.00	34323872.24	34323872.50	0.0137	0.0020
Moon	89263-06-20 21:22 G	34323872.13	34323872.39	34323872.64	0.0137	0.0013 *
Moon	89264-06-24 01:41 G	34324241.40	34324241.57	34324241.76	0.0137	0.0095
Earth	89264-06-24 05:03 G	34324241.53	34324241.71	34324241.92	0.0137	0.0088 *
Venus	89269-12-27 02:24 G	34326253.56	34326253.60	34326253.67	0.0140	0.0135
Venus	89270-08-10 12:00 G	34326479.87	34326480.00	34326480.16	0.0140	0.0104
Venus	89271-03-24 21:51 G	34326706.23	34326706.41	34326706.60	0.0140	0.0073
Venus	89271-11-06 07:55 G	34326932.62	34326932.83	34326933.04	0.0140	0.0042
Venus	89272-06-19 18:15 G	34327159.04	34327159.26	34327159.48	0.0140	0.0010
Venus	89273-02-01 04:34 G	34327385.47	34327385.69	34327385.91	0.0141	0.0022
Venus	89273-09-15 14:53 G	34327611.93	34327612.12	34327612.33	0.0141	0.0054
Venus	89274-04-30 01:41 G	34327838.41	34327838.57	34327838.76	0.0141	0.0086
Venus	89274-12-12 12:43 G	34328064.92	34328065.03	34328065.16	0.0141	0.0118
Mercury	89282-09-10 20:24 G	34330894.31	34330894.35	34330894.41	0.0143	0.0132
Mercury	89282-12-08 00:15 G	34330982.43	34330982.51	34330982.60	0.0143	0.0109
Mercury	89283-03-06 03:51 G	34331070.56	34331070.66	34331070.77	0.0144	0.0087
Mercury	89283-06-02 07:27 G	34331158.70	34331158.81	34331158.94	0.0144	0.0066
Mercury	89283-08-29 11:17 G	34331246.85	34331246.97	34331247.10	0.0144	0.0043
Mercury	89283-11-25 15:07 G	34331334.99	34331335.13	34331335.26	0.0144	0.0021
Mercury	89284-02-21 18:43 G	34331423.15	34331423.28	34331423.42	0.0144	0.0004
Mercury	89284-05-19 22:34 G	34331511.31	34331511.44	34331511.57	0.0144	0.0025

Mercury	89284-08-16 02:10 G	34331599.47	34331599.59	34331599.72	0.0144	0.0048
Mercury	89284-11-12 06:00 G	34331687.64	34331687.75	34331687.87	0.0144	0.0070
Mercury	89285-02-08 09:51 G	34331775.81	34331775.91	34331776.02	0.0144	0.0093
Mercury	89285-05-07 13:41 G	34331863.99	34331864.07	34331864.15	0.0144	0.0116
Mercury	89285-08-03 17:31 G	34331952.20	34331952.23	34331952.26	0.0144	0.0139
Mars	89285-11-04 15:07 G	34332044.83	34332045.13	34332045.47	0.0144	0.0044
Earth	89301-12-15 16:48 G	34337929.06	34337929.20	34337929.39	0.0142	0.0109
Moon	89301-12-15 20:39 G	34337929.22	34337929.36	34337929.51	0.0142	0.0116 *
Moon	89302-12-20 11:46 G	34338298.73	34338298.99	34338299.24	0.0141	0.0027
Earth	89302-12-20 15:22 G	34338298.89	34338299.14	34338299.39	0.0141	0.0033 *
Earth	89303-12-25 12:15 G	34338668.78	34338669.01	34338669.27	0.0141	0.0042
Moon	89303-12-25 16:19 G	34338668.93	34338669.18	34338669.43	0.0141	0.0037 *
Moon	89304-12-29 05:31 G	34339038.60	34339038.73	34339038.90	0.0140	0.0114
Earth	89304-12-29 09:07 G	34339038.74	34339038.88	34339039.03	0.0140	0.0115 *
Venus	89310-04-17 17:31 G	34340974.15	34340974.23	34340974.35	0.0139	0.0122
Venus	89310-11-30 01:41 G	34341200.41	34341200.57	34341200.73	0.0138	0.0092
Venus	89311-07-14 08:53 G	34341426.69	34341426.87	34341427.07	0.0138	0.0062
Venus	89312-02-25 16:05 G	34341652.97	34341653.17	34341653.39	0.0138	0.0033
Venus	89312-10-08 23:17 G	34341879.26	34341879.47	34341879.69	0.0138	0.0004
Venus	89313-05-23 06:15 G	34342105.55	34342105.76	34342105.97	0.0138	0.0026
Venus	89314-01-04 12:43 G	34342331.85	34342332.03	34342332.24	0.0137	0.0056
Venus	89314-08-18 19:27 G	34342558.15	34342558.31	34342558.49	0.0137	0.0084
Venus	89315-04-02 01:41 G	34342784.47	34342784.57	34342784.71	0.0137	0.0112
Mercury	89324-04-04 14:39 G	34346075.05	34346075.11	34346075.19	0.0135	0.0125
Mercury	89324-07-01 21:36 G	34346163.28	34346163.40	34346163.54	0.0135	0.0099
Mercury	89324-09-28 04:48 G	34346251.54	34346251.70	34346251.86	0.0135	0.0072
Mercury	89324-12-25 11:46 G	34346339.81	34346339.99	34346340.17	0.0135	0.0046
Mercury	89325-03-23 18:43 G	34346428.09	34346428.28	34346428.46	0.0135	0.0020
Mercury	89325-06-20 01:27 G	34346516.38	34346516.56	34346516.75	0.0135	0.0007
Mercury	89325-09-16 08:24 G	34346604.67	34346604.85	34346605.03	0.0135	0.0032

Mercury	89325-12-13 14:53 G	34346692.96	34346693.12	34346693.30	0.0135	0.0058
Mercury	89326-03-11 21:36 G	34346781.26	34346781.40	34346781.56	0.0135	0.0083
Mars	89326-03-20 02:53 G	34346789.46	34346789.62	34346789.82	0.0135	0.0103
Mercury	89326-06-08 04:19 G	34346869.58	34346869.68	34346869.80	0.0135	0.0109
Mercury	89326-09-04 11:03 G	34346957.95	34346957.96	34346957.98	0.0134	0.0134
Mars	89328-02-17 02:39 G	34347488.59	34347488.61	34347488.69	0.0134	0.0133
Earth	89345-06-13 09:51 G	34353814.76	34353814.91	34353815.07	0.0137	0.0106
Moon	89345-06-13 12:58 G	34353814.89	34353815.04	34353815.22	0.0137	0.0105 *
Moon	89346-06-17 17:17 G	34354183.99	34354184.22	34354184.46	0.0137	0.0043
Earth	89346-06-17 20:10 G	34354184.10	34354184.34	34354184.58	0.0137	0.0040 *
Earth	89347-06-22 06:58 G	34354553.55	34354553.79	34354554.04	0.0137	0.0027
Moon	89347-06-22 10:19 G	34354553.69	34354553.93	34354554.18	0.0137	0.0034 *
Moon	89348-06-25 15:22 G	34354922.95	34354923.14	34354923.33	0.0138	0.0087
Earth	89348-06-25 18:29 G	34354923.10	34354923.27	34354923.46	0.0138	0.0095 *
Venus	89354-04-10 21:22 G	34357038.28	34357038.39	34357038.53	0.0140	0.0116
Venus	89354-11-23 07:27 G	34357264.64	34357264.81	34357264.98	0.0140	0.0085
Venus	89355-07-07 17:03 G	34357491.02	34357491.21	34357491.42	0.0140	0.0055
Venus	89356-02-19 03:22 G	34357717.42	34357717.64	34357717.86	0.0140	0.0023
Venus	89356-10-02 13:41 G	34357943.85	34357944.07	34357944.29	0.0140	0.0009
Venus	89357-05-17 00:15 G	34358170.30	34358170.51	34358170.72	0.0141	0.0041
Venus	89357-12-29 10:48 G	34358396.77	34358396.95	34358397.14	0.0141	0.0073
Venus	89358-08-12 21:36 G	34358623.26	34358623.40	34358623.55	0.0141	0.0105
Venus	89359-03-27 08:24 G	34358849.82	34358849.85	34358849.92	0.0141	0.0138
Mercury	89366-10-02 04:19 G	34361595.62	34361595.68	34361595.76	0.0143	0.0123
Mercury	89366-12-29 08:10 G	34361683.75	34361683.84	34361683.93	0.0143	0.0101
Mercury	89367-03-27 11:46 G	34361771.88	34361771.99	34361772.10	0.0143	0.0079
Mercury	89367-06-23 15:22 G	34361860.02	34361860.14	34361860.27	0.0144	0.0057
Mercury	89367-09-19 19:12 G	34361948.17	34361948.30	34361948.43	0.0144	0.0034
Mercury	89367-12-16 22:48 G	34362036.32	34362036.45	34362036.59	0.0144	0.0013
Mercury	89368-03-14 02:39 G	34362124.48	34362124.61	34362124.75	0.0144	0.0011

Mercury	89368-06-10 06:29 G	34362212.64	34362212.77	34362212.90	0.0144	0.0034
Mercury	89368-09-06 10:05 G	34362300.80	34362300.92	34362301.05	0.0144	0.0056
Mercury	89368-12-03 13:55 G	34362388.97	34362389.08	34362389.20	0.0144	0.0079
Mercury	89369-03-01 17:46 G	34362477.15	34362477.24	34362477.34	0.0144	0.0102
Mercury	89369-05-28 21:36 G	34362565.34	34362565.40	34362565.47	0.0144	0.0125
Earth	89385-12-16 05:46 G	34368610.57	34368610.74	34368610.92	0.0141	0.0102
Moon	89385-12-16 09:22 G	34368610.71	34368610.89	34368611.09	0.0141	0.0094 *
Moon	89386-12-21 00:15 G	34368980.27	34368980.51	34368980.77	0.0141	0.0034
Earth	89386-12-21 03:51 G	34368980.41	34368980.66	34368980.92	0.0141	0.0026 *
Earth	89387-12-26 00:43 G	34369350.30	34369350.53	34369350.78	0.0141	0.0049
Moon	89387-12-26 04:19 G	34369350.45	34369350.68	34369350.93	0.0141	0.0052 *
Moon	89388-12-29 17:17 G	34369720.11	34369720.22	34369720.37	0.0140	0.0122
Earth	89388-12-29 21:36 G	34369720.28	34369720.40	34369720.53	0.0140	0.0122 *
Venus	89393-12-16 03:22 G	34371532.60	34371532.64	34371532.71	0.0139	0.0134
Venus	89394-07-30 11:03 G	34371758.84	34371758.96	34371759.12	0.0138	0.0105
Venus	89395-03-13 18:43 G	34371985.11	34371985.28	34371985.47	0.0138	0.0075
Venus	89395-10-26 02:10 G	34372211.40	34372211.59	34372211.80	0.0138	0.0045
Venus	89396-06-08 09:36 G	34372437.68	34372437.90	34372438.11	0.0138	0.0015
Venus	89397-01-20 16:34 G	34372663.97	34372664.19	34372664.40	0.0138	0.0014
Venus	89397-09-03 23:17 G	34372890.27	34372890.47	34372890.68	0.0137	0.0043
Venus	89398-04-18 06:00 G	34373116.57	34373116.75	34373116.94	0.0137	0.0071
Venus	89398-11-30 12:29 G	34373342.89	34373343.02	34373343.18	0.0137	0.0100
Venus	89399-07-14 18:43 G	34373569.23	34373569.28	34373569.38	0.0137	0.0128
Mercury	89408-04-25 22:05 G	34376776.34	34376776.42	34376776.52	0.0135	0.0117
Mercury	89408-07-23 05:17 G	34376864.58	34376864.72	34376864.86	0.0135	0.0090
Mercury	89408-10-19 12:15 G	34376952.85	34376953.01	34376953.18	0.0135	0.0064
Mercury	89409-01-15 19:12 G	34377041.12	34377041.30	34377041.48	0.0135	0.0038
Mercury	89409-04-14 02:10 G	34377129.40	34377129.59	34377129.78	0.0135	0.0011
Mercury	89409-07-11 08:53 G	34377217.69	34377217.87	34377218.06	0.0135	0.0015
Mercury	89409-10-07 15:36 G	34377305.98	34377306.15	34377306.34	0.0135	0.0041

Mercury	89410-01-03 22:19 G	34377394.28	34377394.43	34377394.61	0.0135	0.0067
Mercury	89410-04-02 05:17 G	34377482.59	34377482.72	34377482.86	0.0135	0.0092
Mercury	89410-06-29 12:00 G	34377570.91	34377571.00	34377571.09	0.0134	0.0117
Mars	89410-11-13 07:55 G	34377707.55	34377707.83	34377708.12	0.0134	0.0007
Earth	89429-06-14 22:19 G	34384496.27	34384496.43	34384496.61	0.0137	0.0100
Moon	89429-06-15 00:43 G	34384496.37	34384496.53	34384496.72	0.0137	0.0100 *
Moon	89430-06-19 05:31 G	34384865.50	34384865.73	34384865.98	0.0137	0.0030
Earth	89430-06-19 08:39 G	34384865.63	34384865.86	34384866.11	0.0137	0.0034 *
Earth	89431-06-23 19:27 G	34385235.07	34385235.31	34385235.56	0.0137	0.0034
Moon	89431-06-23 22:19 G	34385235.18	34385235.43	34385235.69	0.0137	0.0028 *
Moon	89432-06-27 03:51 G	34385604.51	34385604.66	34385604.81	0.0138	0.0109
Earth	89432-06-27 06:43 G	34385604.63	34385604.78	34385604.96	0.0138	0.0102 *
Venus	89437-12-10 06:43 G	34387596.70	34387596.78	34387596.87	0.0140	0.0128
Venus	89438-07-24 16:05 G	34387823.02	34387823.17	34387823.34	0.0140	0.0098
Venus	89439-03-08 01:55 G	34388049.40	34388049.58	34388049.78	0.0140	0.0067
Venus	89439-10-20 12:15 G	34388275.79	34388276.01	34388276.22	0.0140	0.0036
Venus	89440-06-02 22:34 G	34388502.22	34388502.44	34388502.66	0.0140	0.0004
Venus	89441-01-15 08:53 G	34388728.66	34388728.87	34388729.09	0.0141	0.0028
Venus	89441-08-29 19:12 G	34388955.11	34388955.30	34388955.51	0.0141	0.0060
Venus	89442-04-13 06:00 G	34389181.60	34389181.75	34389181.93	0.0141	0.0092
Venus	89442-11-25 16:48 G	34389408.12	34389408.20	34389408.33	0.0141	0.0125
Mercury	89450-07-27 08:39 G	34392208.82	34392208.86	34392208.90	0.0143	0.0137
Mercury	89450-10-23 12:15 G	34392296.93	34392297.01	34392297.09	0.0143	0.0115
Mercury	89451-01-19 15:51 G	34392385.06	34392385.16	34392385.26	0.0143	0.0093
Mercury	89451-04-17 19:27 G	34392473.20	34392473.31	34392473.43	0.0143	0.0071
Mercury	89451-07-14 23:17 G	34392561.34	34392561.47	34392561.59	0.0143	0.0049
Mercury	89451-10-11 02:53 G	34392649.49	34392649.62	34392649.75	0.0144	0.0026
Mercury	89452-01-07 06:43 G	34392737.64	34392737.78	34392737.91	0.0144	0.0005
Mercury	89452-04-04 10:19 G	34392825.80	34392825.93	34392826.07	0.0144	0.0019
Mercury	89452-07-01 14:10 G	34392913.96	34392914.09	34392914.22	0.0144	0.0042

Mercury	89452-09-27 17:46 G	34393002.13	34393002.24	34393002.37	0.0144	0.0065
Mercury	89452-12-24 21:36 G	34393090.30	34393090.40	34393090.51	0.0144	0.0087
Mercury	89453-03-23 01:12 G	34393178.48	34393178.55	34393178.65	0.0144	0.0111
Mars	89453-03-24 02:10 G	34393179.26	34393179.59	34393179.93	0.0144	0.0022
Mercury	89453-06-19 05:03 G	34393266.68	34393266.71	34393266.77	0.0144	0.0134
Earth	89469-12-17 17:17 G	34399292.05	34399292.22	34399292.43	0.0141	0.0096
Moon	89469-12-17 20:39 G	34399292.19	34399292.36	34399292.55	0.0141	0.0103 *
Moon	89470-12-22 12:00 G	34399661.75	34399662.00	34399662.25	0.0141	0.0013
Earth	89470-12-22 15:36 G	34399661.90	34399662.15	34399662.41	0.0141	0.0020 *
Earth	89471-12-27 12:43 G	34400031.79	34400032.03	34400032.27	0.0141	0.0055
Moon	89471-12-27 16:19 G	34400031.94	34400032.18	34400032.42	0.0141	0.0050 *
Moon	89472-12-31 05:03 G	34400401.63	34400401.71	34400401.84	0.0140	0.0129
Earth	89472-12-31 08:53 G	34400401.78	34400401.87	34400401.98	0.0140	0.0129 *
Venus	89478-03-30 20:24 G	34402317.25	34402317.35	34402317.48	0.0139	0.0117
Venus	89478-11-12 04:05 G	34402543.52	34402543.67	34402543.85	0.0138	0.0088
Venus	89479-06-26 11:31 G	34402769.80	34402769.98	34402770.19	0.0138	0.0058
Venus	89480-02-07 19:12 G	34402996.08	34402996.30	34402996.51	0.0138	0.0028
Venus	89480-09-21 02:10 G	34403222.37	34403222.59	34403222.81	0.0138	0.0001
Venus	89481-05-05 08:53 G	34403448.67	34403448.87	34403449.09	0.0137	0.0031
Venus	89481-12-17 15:51 G	34403674.97	34403675.16	34403675.36	0.0137	0.0059
Venus	89482-07-31 22:34 G	34403901.28	34403901.44	34403901.61	0.0137	0.0087
Venus	89483-03-15 05:03 G	34404127.60	34404127.71	34404127.83	0.0137	0.0115
Mercury	89492-05-16 05:31 G	34407477.62	34407477.73	34407477.84	0.0135	0.0109
Mercury	89492-08-12 12:15 G	34407565.87	34407566.01	34407566.17	0.0135	0.0083
Mercury	89492-11-08 19:12 G	34407654.14	34407654.30	34407654.48	0.0135	0.0057
Mercury	89493-02-05 02:10 G	34407742.42	34407742.59	34407742.78	0.0135	0.0031
Mercury	89493-05-04 09:22 G	34407830.70	34407830.89	34407831.08	0.0135	0.0004
Mercury	89493-07-31 16:05 G	34407918.99	34407919.17	34407919.36	0.0135	0.0022
Mercury	89493-10-27 23:03 G	34408007.28	34408007.46	34408007.63	0.0135	0.0048
Mercury	89494-01-24 05:31 G	34408095.59	34408095.73	34408095.90	0.0134	0.0074

Mercury	89494-04-22 12:15 G	34408183.90	34408184.01	34408184.15	0.0134	0.0099
Mercury	89494-07-19 18:58 G	34408272.24	34408272.29	34408272.37	0.0134	0.0125
Mars	89495-07-08 11:03 G	34408625.78	34408625.96	34408626.20	0.0134	0.0090
Earth	89513-06-16 09:07 G	34415177.72	34415177.88	34415178.08	0.0137	0.0095
Moon	89513-06-16 11:31 G	34415177.82	34415177.98	34415178.19	0.0137	0.0095 *
Moon	89514-06-20 17:31 G	34415546.99	34415547.23	34415547.47	0.0137	0.0030
Earth	89514-06-20 19:27 G	34415547.07	34415547.31	34415547.57	0.0137	0.0028 *
Earth	89515-06-25 06:15 G	34415916.52	34415916.76	34415917.00	0.0137	0.0040
Moon	89515-06-25 08:53 G	34415916.64	34415916.87	34415917.12	0.0137	0.0046 *
Moon	89516-06-28 14:39 G	34416285.96	34416286.11	34416286.30	0.0138	0.0101
Earth	89516-06-28 17:17 G	34416286.08	34416286.22	34416286.39	0.0138	0.0108 *
Venus	89522-03-24 23:46 G	34418381.36	34418381.49	34418381.63	0.0140	0.0111
Venus	89522-11-06 09:22 G	34418607.72	34418607.89	34418608.08	0.0140	0.0081
Venus	89523-06-20 19:41 G	34418834.11	34418834.32	34418834.52	0.0140	0.0049
Venus	89524-02-02 05:46 G	34419060.52	34419060.74	34419060.96	0.0140	0.0018
Venus	89524-09-15 16:05 G	34419286.95	34419287.17	34419287.39	0.0140	0.0013
Venus	89525-04-30 02:24 G	34419513.40	34419513.60	34419513.82	0.0141	0.0046
Venus	89525-12-12 13:12 G	34419739.87	34419740.05	34419740.24	0.0141	0.0077
Venus	89526-07-27 00:00 G	34419966.37	34419966.50	34419966.65	0.0141	0.0109
Venus	89527-03-10 11:03 G	34420192.96	34420192.96	34420192.98	0.0141	0.0141
Mercury	89534-08-17 15:36 G	34422910.11	34422910.15	34422910.21	0.0143	0.0132
Mercury	89534-11-13 19:27 G	34422998.23	34422998.31	34422998.40	0.0143	0.0109
Mercury	89535-02-09 23:03 G	34423086.36	34423086.46	34423086.57	0.0143	0.0087
Mercury	89535-05-09 02:53 G	34423174.50	34423174.62	34423174.74	0.0143	0.0065
Mercury	89535-08-05 06:29 G	34423262.65	34423262.77	34423262.90	0.0143	0.0043
Mercury	89535-11-01 10:19 G	34423350.79	34423350.93	34423351.06	0.0143	0.0020
Mercury	89536-01-28 13:55 G	34423438.95	34423439.08	34423439.22	0.0144	0.0003
Mercury	89536-04-25 17:46 G	34423527.11	34423527.24	34423527.37	0.0144	0.0025
Mercury	89536-07-22 21:22 G	34423615.27	34423615.39	34423615.52	0.0144	0.0048
Mercury	89536-10-19 01:12 G	34423703.43	34423703.55	34423703.67	0.0144	0.0071

Mercury	89537-01-15 04:48 G	34423791.61	34423791.70	34423791.81	0.0144	0.0094
Mercury	89537-04-13 08:39 G	34423879.79	34423879.86	34423879.95	0.0144	0.0117
Mercury	89537-07-10 12:29 G	34423968.00	34423968.02	34423968.06	0.0144	0.0140
Mars	89537-11-19 15:36 G	34424099.99	34424100.15	34424100.36	0.0144	0.0120
Earth	89553-12-19 05:03 G	34429973.52	34429973.71	34429973.92	0.0141	0.0089
Moon	89553-12-19 08:10 G	34429973.65	34429973.84	34429974.07	0.0141	0.0082 *
Moon	89554-12-24 00:15 G	34430343.26	34430343.51	34430343.76	0.0141	0.0021
Earth	89554-12-24 03:22 G	34430343.38	34430343.64	34430343.90	0.0141	0.0013 *
Earth	89555-12-29 00:00 G	34430713.28	34430713.50	34430713.74	0.0141	0.0062
Moon	89555-12-29 03:36 G	34430713.44	34430713.65	34430713.89	0.0141	0.0066 *
Moon	89557-01-01 16:48 G	34431083.14	34431083.20	34431083.29	0.0140	0.0134
Earth	89557-01-01 20:24 G	34431083.30	34431083.35	34431083.43	0.0140	0.0136
Venus	89561-11-29 06:15 G	34432875.69	34432875.76	34432875.85	0.0139	0.0129
Venus	89562-07-13 13:55 G	34433101.94	34433102.08	34433102.24	0.0138	0.0100
Venus	89563-02-24 21:22 G	34433328.22	34433328.39	34433328.59	0.0138	0.0071
Venus	89563-10-09 04:48 G	34433554.51	34433554.70	34433554.92	0.0138	0.0041
Venus	89564-05-22 12:15 G	34433780.80	34433781.01	34433781.23	0.0138	0.0011
Venus	89565-01-03 19:27 G	34434007.09	34434007.31	34434007.52	0.0138	0.0018
Venus	89565-08-18 02:10 G	34434233.39	34434233.59	34434233.80	0.0137	0.0047
Venus	89566-04-01 08:53 G	34434459.70	34434459.87	34434460.05	0.0137	0.0075
Venus	89566-11-13 15:36 G	34434686.01	34434686.15	34434686.29	0.0137	0.0103
Venus	89567-06-27 21:51 G	34434912.36	34434912.41	34434912.48	0.0137	0.0131
Mercury	89576-03-10 05:31 G	34438090.68	34438090.73	34438090.80	0.0135	0.0128
Mercury	89576-06-06 12:43 G	34438178.91	34438179.03	34438179.16	0.0135	0.0101
Mercury	89576-09-02 19:41 G	34438267.17	34438267.32	34438267.49	0.0135	0.0075
Mercury	89576-11-30 02:53 G	34438355.44	34438355.62	34438355.80	0.0135	0.0048
Mercury	89577-02-26 09:51 G	34438443.72	34438443.91	34438444.09	0.0135	0.0022
Mercury	89577-05-25 16:34 G	34438532.01	34438532.19	34438532.38	0.0135	0.0006
Mercury	89577-08-21 23:31 G	34438620.30	34438620.48	34438620.67	0.0134	0.0030
Mercury	89577-11-18 06:15 G	34438708.60	34438708.76	34438708.94	0.0134	0.0056

Mercury	89578-02-14 12:58 G	34438796.90	34438797.04	34438797.20	0.0134	0.0082
Mars	89578-04-03 16:34 G	34438844.94	34438845.19	34438845.47	0.0134	0.0050
Mercury	89578-05-13 19:41 G	34438885.22	34438885.32	34438885.44	0.0134	0.0107
Mercury	89578-08-10 02:24 G	34438973.58	34438973.60	34438973.64	0.0134	0.0133
Earth	89597-06-16 19:12 G	34445859.13	34445859.30	34445859.51	0.0137	0.0090
Moon	89597-06-16 21:07 G	34445859.18	34445859.38	34445859.58	0.0137	0.0088 *
Moon	89598-06-21 03:36 G	34446228.41	34446228.65	34446228.89	0.0137	0.0020
Earth	89598-06-21 05:31 G	34446228.49	34446228.73	34446228.98	0.0137	0.0023 *
Earth	89599-06-25 16:05 G	34446597.94	34446598.17	34446598.41	0.0137	0.0045
Moon	89599-06-25 18:00 G	34446598.01	34446598.25	34446598.50	0.0137	0.0040 *
Moon	89600-06-29 00:29 G	34446967.42	34446967.52	34446967.66	0.0138	0.0120
Earth	89600-06-29 02:53 G	34446967.50	34446967.62	34446967.78	0.0138	0.0113 *
Venus	89605-11-22 06:43 G	34448939.69	34448939.78	34448939.88	0.0139	0.0125
Venus	89606-07-06 16:05 G	34449166.03	34449166.17	34449166.35	0.0140	0.0095
Venus	89607-02-18 01:55 G	34449392.40	34449392.58	34449392.79	0.0140	0.0064
Venus	89607-10-02 12:00 G	34449618.80	34449619.00	34449619.22	0.0140	0.0033
Venus	89608-05-15 22:34 G	34449845.22	34449845.44	34449845.66	0.0140	0.0002
Venus	89608-12-28 08:39 G	34450071.65	34450071.86	34450072.08	0.0141	0.0031
Venus	89609-08-11 19:12 G	34450298.11	34450298.30	34450298.50	0.0141	0.0062
Venus	89610-03-26 05:46 G	34450524.59	34450524.74	34450524.92	0.0141	0.0094
Venus	89610-11-07 16:48 G	34450751.11	34450751.20	34450751.30	0.0141	0.0126
Mercury	89618-09-06 22:48 G	34453611.39	34453611.45	34453611.51	0.0143	0.0127
Mercury	89618-12-04 02:24 G	34453699.52	34453699.60	34453699.69	0.0143	0.0105
Mercury	89619-03-02 06:15 G	34453787.65	34453787.76	34453787.86	0.0143	0.0083
Mercury	89619-05-29 09:51 G	34453875.79	34453875.91	34453876.03	0.0143	0.0061
Mercury	89619-08-25 13:27 G	34453963.93	34453964.06	34453964.19	0.0143	0.0038
Mercury	89619-11-21 17:17 G	34454052.08	34454052.22	34454052.35	0.0143	0.0016
Mercury	89620-02-17 20:53 G	34454140.24	34454140.37	34454140.51	0.0143	0.0007
Mercury	89620-05-16 00:43 G	34454228.40	34454228.53	34454228.66	0.0144	0.0029
Mars	89620-08-08 16:19 G	34454312.95	34454313.18	34454313.43	0.0144	0.0101

Mercury	89620-08-12 04:19 G	34454316.56	34454316.68	34454316.81	0.0144	0.0052
Mercury	89620-11-08 08:10 G	34454404.73	34454404.84	34454404.96	0.0144	0.0075
Mercury	89621-02-04 12:00 G	34454492.90	34454493.00	34454493.10	0.0144	0.0098
Mercury	89621-05-03 15:51 G	34454581.09	34454581.16	34454581.23	0.0144	0.0121
Earth	89637-12-19 12:43 G	34460654.84	34460655.03	34460655.25	0.0141	0.0086
Moon	89637-12-19 14:53 G	34460654.94	34460655.12	34460655.34	0.0141	0.0093 *
Moon	89638-12-24 07:55 G	34461024.58	34461024.83	34461025.08	0.0141	0.0002
Earth	89638-12-24 11:03 G	34461024.70	34461024.96	34461025.21	0.0141	0.0010 *
Earth	89639-12-29 07:55 G	34461394.61	34461394.83	34461395.06	0.0141	0.0066
Moon	89639-12-29 11:03 G	34461394.73	34461394.96	34461395.20	0.0141	0.0060 *
Earth	89641-01-02 04:19 G	34461764.67	34461764.68	34461764.71	0.0141	0.0140
Venus	89646-03-12 21:22 G	34463660.29	34463660.39	34463660.53	0.0139	0.0114
Venus	89646-10-25 05:31 G	34463886.56	34463886.73	34463886.91	0.0138	0.0084
Venus	89647-06-08 12:58 G	34464112.85	34464113.04	34464113.25	0.0138	0.0055
Venus	89648-01-20 20:24 G	34464339.14	34464339.35	34464339.57	0.0138	0.0025
Venus	89648-09-03 03:36 G	34464565.44	34464565.65	34464565.87	0.0138	0.0005
Venus	89649-04-17 10:34 G	34464791.74	34464791.94	34464792.16	0.0138	0.0033
Venus	89649-11-29 17:46 G	34465018.05	34465018.24	34465018.43	0.0137	0.0062
Venus	89650-07-14 00:15 G	34465244.36	34465244.51	34465244.68	0.0137	0.0090
Venus	89651-02-25 06:43 G	34465470.68	34465470.78	34465470.90	0.0137	0.0118
Mercury	89660-03-30 12:29 G	34468791.95	34468792.02	34468792.11	0.0135	0.0121
Mercury	89660-06-26 19:27 G	34468880.19	34468880.31	34468880.46	0.0135	0.0095
Mercury	89660-09-23 02:39 G	34468968.45	34468968.61	34468968.78	0.0135	0.0068
Mercury	89660-12-20 09:36 G	34469056.73	34469056.90	34469057.09	0.0135	0.0042
Mercury	89661-03-18 16:34 G	34469145.01	34469145.19	34469145.38	0.0135	0.0016
Mercury	89661-06-14 23:31 G	34469233.30	34469233.48	34469233.67	0.0135	0.0011
Mercury	89661-09-11 06:29 G	34469321.59	34469321.77	34469321.95	0.0135	0.0037
Mercury	89661-12-08 13:12 G	34469409.89	34469410.05	34469410.22	0.0134	0.0063
Mercury	89662-03-06 19:55 G	34469498.20	34469498.33	34469498.48	0.0134	0.0088
Mercury	89662-06-03 02:53 G	34469586.52	34469586.62	34469586.72	0.0134	0.0114

Mars	89662-11-26 19:41 G	34469763.06	34469763.32	34469763.59	0.0134	0.0045
Earth	89681-06-17 05:31 G	34476540.54	34476540.73	34476540.94	0.0137	0.0085
Moon	89681-06-17 07:12 G	34476540.60	34476540.80	34476541.00	0.0137	0.0086 *
Moon	89682-06-21 14:39 G	34476909.87	34476910.11	34476910.35	0.0137	0.0019
Earth	89682-06-21 15:36 G	34476909.90	34476910.15	34476910.40	0.0137	0.0018 *
Earth	89683-06-26 01:55 G	34477279.35	34477279.58	34477279.82	0.0137	0.0049
Moon	89683-06-26 03:36 G	34477279.42	34477279.65	34477279.90	0.0137	0.0055 *
Moon	89684-06-29 11:17 G	34477648.84	34477648.97	34477649.13	0.0138	0.0111
Earth	89684-06-29 12:43 G	34477648.92	34477649.03	34477649.18	0.0138	0.0118 *
Venus	89689-07-22 13:27 G	34479498.05	34479498.06	34479498.11	0.0139	0.0138
Venus	89690-03-05 22:48 G	34479724.33	34479724.45	34479724.61	0.0139	0.0109
Venus	89690-10-18 08:53 G	34479950.69	34479950.87	34479951.05	0.0140	0.0078
Venus	89691-06-01 18:58 G	34480177.08	34480177.29	34480177.49	0.0140	0.0047
Venus	89692-01-14 04:48 G	34480403.48	34480403.70	34480403.92	0.0140	0.0016
Venus	89692-08-27 14:53 G	34480629.91	34480630.12	34480630.34	0.0140	0.0015
Venus	89693-04-11 01:12 G	34480856.35	34480856.55	34480856.76	0.0141	0.0047
Venus	89693-11-23 12:00 G	34481082.81	34481083.00	34481083.18	0.0141	0.0078
Venus	89694-07-07 22:19 G	34481309.31	34481309.43	34481309.58	0.0141	0.0110
Mercury	89702-09-28 05:31 G	34484312.67	34484312.73	34484312.80	0.0143	0.0123
Mercury	89702-12-25 09:07 G	34484400.80	34484400.88	34484400.98	0.0143	0.0102
Mercury	89703-03-23 12:58 G	34484488.93	34484489.04	34484489.15	0.0143	0.0079
Mercury	89703-06-19 16:34 G	34484577.07	34484577.19	34484577.32	0.0143	0.0057
Mercury	89703-09-15 20:10 G	34484665.22	34484665.34	34484665.48	0.0143	0.0036
Mercury	89703-12-13 00:00 G	34484753.37	34484753.50	34484753.64	0.0143	0.0013
Mercury	89704-03-10 03:51 G	34484841.52	34484841.66	34484841.79	0.0143	0.0011
Mercury	89704-06-06 07:27 G	34484929.68	34484929.81	34484929.94	0.0143	0.0033
Mercury	89704-09-02 11:17 G	34485017.84	34485017.97	34485018.09	0.0144	0.0055
Mercury	89704-11-29 14:53 G	34485106.01	34485106.12	34485106.24	0.0144	0.0078
Mercury	89705-02-25 18:43 G	34485194.19	34485194.28	34485194.38	0.0144	0.0101
Mars	89705-04-05 23:17 G	34485233.14	34485233.47	34485233.80	0.0144	0.0035

Mercury	89705-05-24 22:19 G	34485282.38	34485282.43	34485282.51	0.0144	0.0125
Earth	89721-12-20 18:58 G	34491336.10	34491336.29	34491336.52	0.0142	0.0084
Moon	89721-12-20 21:22 G	34491336.18	34491336.39	34491336.62	0.0142	0.0076 *
Moon	89722-12-25 15:22 G	34491705.90	34491706.14	34491706.39	0.0141	0.0015
Earth	89722-12-25 17:31 G	34491705.97	34491706.23	34491706.49	0.0141	0.0006 *
Earth	89723-12-30 14:24 G	34492075.89	34492076.10	34492076.34	0.0141	0.0069
Moon	89723-12-30 17:31 G	34492076.02	34492076.23	34492076.46	0.0141	0.0074 *
Moon	89725-01-03 07:55 G	34492445.82	34492445.83	34492445.86	0.0141	0.0140
Venus	89729-11-11 05:17 G	34494218.63	34494218.72	34494218.80	0.0139	0.0127
Venus	89730-06-25 12:58 G	34494444.89	34494445.04	34494445.20	0.0139	0.0098
Venus	89731-02-06 20:24 G	34494671.18	34494671.35	34494671.55	0.0138	0.0069
Venus	89731-09-21 04:05 G	34494897.47	34494897.67	34494897.88	0.0138	0.0039
Venus	89732-05-04 11:31 G	34495123.77	34495123.98	34495124.20	0.0138	0.0010
Venus	89732-12-16 18:43 G	34495350.07	34495350.28	34495350.50	0.0138	0.0020
Venus	89733-07-31 01:41 G	34495576.38	34495576.57	34495576.78	0.0138	0.0049
Venus	89734-03-14 08:39 G	34495802.69	34495802.86	34495803.04	0.0137	0.0077
Venus	89734-10-26 15:07 G	34496029.01	34496029.13	34496029.28	0.0137	0.0105
Venus	89735-06-09 21:51 G	34496255.36	34496255.41	34496255.47	0.0137	0.0132
Mercury	89744-04-20 19:12 G	34499493.22	34499493.30	34499493.41	0.0135	0.0115
Mercury	89744-07-18 02:24 G	34499581.47	34499581.60	34499581.75	0.0135	0.0088
Mercury	89744-10-14 09:22 G	34499669.73	34499669.89	34499670.07	0.0135	0.0062
Mercury	89745-01-10 16:34 G	34499758.01	34499758.19	34499758.38	0.0135	0.0035
Mercury	89745-04-08 23:31 G	34499846.30	34499846.48	34499846.67	0.0135	0.0009
Mercury	89745-07-06 06:29 G	34499934.59	34499934.77	34499934.96	0.0135	0.0018
Mars	89745-08-22 22:19 G	34499982.26	34499982.43	34499982.65	0.0135	0.0096
Mercury	89745-10-02 13:12 G	34500022.88	34500023.05	34500023.24	0.0135	0.0044
Mercury	89745-12-29 20:10 G	34500111.18	34500111.34	34500111.50	0.0135	0.0069
Mercury	89746-03-28 02:39 G	34500199.50	34500199.61	34500199.76	0.0135	0.0096
Mercury	89746-06-24 09:36 G	34500287.83	34500287.90	34500287.99	0.0135	0.0121
Earth	89765-06-18 16:34 G	34507222.00	34507222.19	34507222.40	0.0137	0.0080

Moon	89765-06-18 16:48 G	34507222.00	34507222.20	34507222.43	0.0137	0.0077	*
Moon	89766-06-23 01:41 G	34507591.33	34507591.57	34507591.81	0.0137	0.0011	
Earth	89766-06-23 02:39 G	34507591.36	34507591.61	34507591.86	0.0137	0.0013	*
Earth	89767-06-27 12:43 G	34507960.81	34507961.03	34507961.27	0.0137	0.0055	
Moon	89767-06-27 13:27 G	34507960.83	34507961.06	34507961.31	0.0137	0.0051	*
Moon	89768-06-30 22:19 G	34508330.37	34508330.43	34508330.53	0.0137	0.0130	
Earth	89768-06-30 23:46 G	34508330.39	34508330.49	34508330.61	0.0137	0.0123	*
Venus	89773-11-04 07:27 G	34510282.71	34510282.81	34510282.92	0.0139	0.0121	
Venus	89774-06-18 17:03 G	34510509.05	34510509.21	34510509.38	0.0139	0.0091	
Venus	89775-01-31 02:24 G	34510735.42	34510735.60	34510735.81	0.0140	0.0061	
Venus	89775-09-14 12:29 G	34510961.81	34510962.02	34510962.24	0.0140	0.0030	
Venus	89776-04-27 22:48 G	34511188.23	34511188.45	34511188.67	0.0140	0.0003	
Venus	89776-12-10 08:53 G	34511414.66	34511414.87	34511415.09	0.0140	0.0033	
Venus	89777-07-24 18:58 G	34511641.11	34511641.29	34511641.50	0.0141	0.0065	
Venus	89778-03-08 05:31 G	34511867.58	34511867.73	34511867.90	0.0141	0.0096	
Venus	89778-10-20 16:19 G	34512094.09	34512094.18	34512094.28	0.0141	0.0127	
Mercury	89786-07-22 09:22 G	34514925.86	34514925.89	34514925.91	0.0143	0.0140	
Mercury	89786-10-18 12:43 G	34515013.96	34515014.03	34515014.11	0.0143	0.0118	
Mercury	89787-01-14 16:19 G	34515102.09	34515102.18	34515102.29	0.0143	0.0096	
Mercury	89787-04-12 19:55 G	34515190.23	34515190.33	34515190.45	0.0143	0.0075	
Mercury	89787-07-09 23:46 G	34515278.37	34515278.49	34515278.62	0.0143	0.0052	
Mercury	89787-10-06 03:36 G	34515366.52	34515366.65	34515366.78	0.0143	0.0030	
Mercury	89788-01-02 07:12 G	34515454.67	34515454.80	34515454.93	0.0143	0.0007	
Mercury	89788-03-30 10:48 G	34515542.82	34515542.95	34515543.09	0.0143	0.0016	
Mercury	89788-06-26 14:39 G	34515630.98	34515631.11	34515631.24	0.0143	0.0038	
Mercury	89788-09-22 18:29 G	34515719.15	34515719.27	34515719.39	0.0143	0.0061	
Mercury	89788-12-19 22:05 G	34515807.32	34515807.42	34515807.53	0.0143	0.0084	
Mercury	89789-03-18 01:41 G	34515895.49	34515895.57	34515895.67	0.0143	0.0107	
Mercury	89789-06-14 05:31 G	34515983.69	34515983.73	34515983.80	0.0144	0.0130	
Earth	89805-12-22 02:10 G	34522017.38	34522017.59	34522017.80	0.0142	0.0080	

Moon	89805-12-22 02:39 G	34522017.41	34522017.61	34522017.84	0.0142	0.0086	*
Moon	89806-12-26 22:05 G	34522387.17	34522387.42	34522387.67	0.0141	0.0004	
Earth	89806-12-27 00:00 G	34522387.24	34522387.50	34522387.76	0.0141	0.0004	*
Earth	89807-12-31 21:07 G	34522757.16	34522757.38	34522757.60	0.0141	0.0072	
Moon	89807-12-31 23:03 G	34522757.23	34522757.46	34522757.70	0.0141	0.0065	*
Venus	89814-02-23 19:12 G	34525003.20	34525003.30	34525003.45	0.0139	0.0113	
Venus	89814-10-08 03:22 G	34525229.48	34525229.64	34525229.82	0.0138	0.0083	
Venus	89815-05-22 11:03 G	34525455.77	34525455.96	34525456.17	0.0138	0.0054	
Venus	89816-01-03 18:43 G	34525682.07	34525682.28	34525682.49	0.0138	0.0024	
Venus	89816-08-17 01:55 G	34525908.37	34525908.58	34525908.80	0.0138	0.0006	
Venus	89817-03-31 09:07 G	34526134.67	34526134.88	34526135.09	0.0138	0.0034	
Venus	89817-11-12 16:05 G	34526360.99	34526361.17	34526361.37	0.0137	0.0063	
Venus	89818-06-26 22:34 G	34526587.30	34526587.44	34526587.62	0.0137	0.0092	
Venus	89819-02-08 05:17 G	34526813.63	34526813.72	34526813.84	0.0137	0.0119	
Mercury	89828-05-12 01:41 G	34530194.48	34530194.57	34530194.69	0.0135	0.0110	
Mercury	89828-08-08 08:53 G	34530282.73	34530282.87	34530283.03	0.0135	0.0083	
Mercury	89828-11-04 15:51 G	34530371.00	34530371.16	34530371.35	0.0135	0.0057	
Mercury	89829-01-31 23:03 G	34530459.28	34530459.46	34530459.65	0.0135	0.0030	
Mercury	89829-04-30 06:15 G	34530547.57	34530547.76	34530547.95	0.0135	0.0004	
Mercury	89829-07-27 12:58 G	34530635.86	34530636.04	34530636.23	0.0135	0.0023	
Mercury	89829-10-23 19:55 G	34530724.16	34530724.33	34530724.51	0.0135	0.0049	
Mercury	89830-01-20 02:39 G	34530812.46	34530812.61	34530812.77	0.0135	0.0075	
Mars	89830-04-18 00:15 G	34530900.23	34530900.51	34530900.79	0.0135	0.0003	
Mercury	89830-04-18 09:22 G	34530900.78	34530900.89	34530901.03	0.0135	0.0101	*
Mercury	89830-07-15 16:19 G	34530989.12	34530989.18	34530989.25	0.0135	0.0126	
Moon	89848-06-15 18:29 G	34537534.26	34537534.27	34537534.31	0.0136	0.0136	
Moon	89849-06-20 03:51 G	34537903.45	34537903.66	34537903.88	0.0137	0.0077	
Earth	89849-06-20 03:36 G	34537903.45	34537903.65	34537903.87	0.0137	0.0075	*
Earth	89850-06-24 13:41 G	34538272.82	34538273.07	34538273.33	0.0137	0.0008	
Moon	89850-06-24 13:55 G	34538272.84	34538273.08	34538273.33	0.0137	0.0007	*

Earth	89851-06-29 00:00 G	34538642.28	34538642.50	34538642.74	0.0137	0.0061
Moon	89851-06-29 00:29 G	34538642.30	34538642.52	34538642.77	0.0137	0.0065 *
Moon	89852-07-02 11:03 G	34539011.86	34539011.96	34539012.07	0.0137	0.0123
Earth	89852-07-02 11:17 G	34539011.89	34539011.97	34539012.06	0.0137	0.0129 *
Venus	89857-07-05 15:51 G	34540841.12	34540841.16	34540841.24	0.0139	0.0133
Venus	89858-02-17 01:12 G	34541067.42	34541067.55	34541067.71	0.0139	0.0104
Venus	89858-10-01 11:03 G	34541293.78	34541293.96	34541294.15	0.0140	0.0073
Venus	89859-05-15 20:53 G	34541520.17	34541520.37	34541520.59	0.0140	0.0043
Venus	89859-12-28 06:58 G	34541746.57	34541746.79	34541747.01	0.0140	0.0012
Venus	89860-08-10 17:03 G	34541972.99	34541973.21	34541973.43	0.0140	0.0019
Venus	89861-03-25 03:07 G	34542199.43	34542199.63	34542199.84	0.0141	0.0051
Venus	89861-11-06 13:41 G	34542425.89	34542426.07	34542426.25	0.0141	0.0082
Venus	89862-06-21 00:00 G	34542652.39	34542652.50	34542652.64	0.0141	0.0114
Mercury	89870-08-12 16:48 G	34545627.15	34545627.20	34545627.25	0.0143	0.0132
Mercury	89870-11-08 20:10 G	34545715.27	34545715.34	34545715.43	0.0143	0.0111
Mercury	89871-02-04 23:46 G	34545803.40	34545803.49	34545803.61	0.0143	0.0090
Mercury	89871-05-04 03:36 G	34545891.54	34545891.65	34545891.77	0.0143	0.0067
Mercury	89871-07-31 07:27 G	34545979.68	34545979.81	34545979.93	0.0143	0.0045
Mercury	89871-10-27 11:03 G	34546067.83	34546067.96	34546068.09	0.0143	0.0022
Mercury	89872-01-23 14:39 G	34546155.98	34546156.11	34546156.25	0.0143	0.0004
Mercury	89872-04-20 18:29 G	34546244.14	34546244.27	34546244.40	0.0143	0.0023
Mercury	89872-07-17 22:05 G	34546332.30	34546332.42	34546332.55	0.0143	0.0045
Mars	89872-08-21 18:43 G	34546366.97	34546367.28	34546367.62	0.0143	0.0040
Mercury	89872-10-14 01:55 G	34546420.46	34546420.58	34546420.70	0.0143	0.0068
Mercury	89873-01-10 05:31 G	34546508.63	34546508.73	34546508.84	0.0143	0.0091
Mercury	89873-04-08 09:22 G	34546596.81	34546596.89	34546596.98	0.0143	0.0113
Mercury	89873-07-05 12:58 G	34546685.01	34546685.04	34546685.09	0.0143	0.0137
Earth	89889-12-22 11:03 G	34552698.75	34552698.96	34552699.19	0.0142	0.0076
Moon	89889-12-22 11:46 G	34552698.77	34552698.99	34552699.23	0.0142	0.0070 *
Moon	89890-12-27 08:24 G	34553068.61	34553068.85	34553069.10	0.0141	0.0007

Earth	89890-12-27 09:07 G	34553068.63	34553068.88	34553069.14	0.0141	0.0002	*
Earth	89892-01-01 06:00 G	34553438.55	34553438.75	34553438.98	0.0141	0.0077	
Moon	89892-01-01 07:41 G	34553438.63	34553438.82	34553439.06	0.0141	0.0083	*
Venus	89897-10-24 03:22 G	34555561.57	34555561.64	34555561.75	0.0139	0.0126	
Venus	89898-06-07 11:46 G	34555787.84	34555787.99	34555788.15	0.0139	0.0096	
Venus	89899-01-19 19:27 G	34556014.13	34556014.31	34556014.50	0.0138	0.0067	
Venus	89899-09-03 02:53 G	34556240.42	34556240.62	34556240.84	0.0138	0.0038	
Venus	89900-04-17 10:19 G	34556466.72	34556466.93	34556467.15	0.0138	0.0009	
Venus	89900-11-29 17:46 G	34556693.03	34556693.24	34556693.46	0.0138	0.0021	
Venus	89901-07-14 00:43 G	34556919.34	34556919.53	34556919.74	0.0138	0.0050	
Venus	89902-02-25 07:41 G	34557145.64	34557145.82	34557146.00	0.0137	0.0078	
Venus	89902-10-09 13:55 G	34557371.96	34557372.08	34557372.23	0.0137	0.0106	
Venus	89903-05-23 20:39 G	34557598.32	34557598.36	34557598.41	0.0137	0.0133	
Mercury	89912-03-06 01:27 G	34560807.53	34560807.56	34560807.62	0.0135	0.0130	
Mercury	89912-06-02 08:39 G	34560895.75	34560895.86	34560895.99	0.0135	0.0103	
Mercury	89912-08-29 16:05 G	34560984.01	34560984.17	34560984.32	0.0135	0.0076	
Mercury	89912-11-25 22:48 G	34561072.29	34561072.45	34561072.64	0.0135	0.0050	
Mercury	89913-02-22 06:00 G	34561160.57	34561160.75	34561160.94	0.0135	0.0023	
Mercury	89913-05-21 12:58 G	34561248.86	34561249.04	34561249.23	0.0135	0.0005	
Mercury	89913-08-17 19:55 G	34561337.15	34561337.33	34561337.52	0.0135	0.0030	
Mercury	89913-11-14 02:39 G	34561425.45	34561425.61	34561425.79	0.0135	0.0056	
Mercury	89914-02-10 09:36 G	34561513.76	34561513.90	34561514.06	0.0135	0.0082	
Mercury	89914-05-09 16:34 G	34561602.08	34561602.19	34561602.30	0.0135	0.0107	
Mercury	89914-08-05 23:03 G	34561690.44	34561690.46	34561690.50	0.0135	0.0133	
Mars	89914-12-12 02:24 G	34561818.40	34561818.60	34561818.81	0.0135	0.0091	
Earth	89932-06-17 05:03 G	34568215.70	34568215.71	34568215.75	0.0136	0.0136	
Moon	89933-06-21 13:55 G	34568584.85	34568585.08	34568585.31	0.0137	0.0065	
Earth	89933-06-21 14:39 G	34568584.91	34568585.11	34568585.34	0.0137	0.0070	*
Earth	89934-06-26 00:58 G	34568954.28	34568954.54	34568954.79	0.0137	0.0003	
Moon	89934-06-26 01:12 G	34568954.30	34568954.55	34568954.79	0.0137	0.0003	*

Moon	89935-06-30 10:48 G	34569323.73	34569323.95	34569324.19	0.0137	0.0064
Earth	89935-06-30 11:17 G	34569323.76	34569323.97	34569324.20	0.0137	0.0066 *
Earth	89936-07-03 22:34 G	34569693.41	34569693.44	34569693.50	0.0138	0.0135
Venus	89941-10-18 10:05 G	34571625.81	34571625.92	34571626.05	0.0139	0.0116
Venus	89942-06-01 19:41 G	34571852.16	34571852.32	34571852.50	0.0140	0.0086
Venus	89943-01-14 05:31 G	34572078.53	34572078.73	34572078.93	0.0140	0.0055
Venus	89943-08-28 15:07 G	34572304.92	34572305.13	34572305.35	0.0140	0.0025
Venus	89944-04-11 01:12 G	34572531.34	34572531.55	34572531.77	0.0140	0.0007
Venus	89944-11-23 11:31 G	34572757.77	34572757.98	34572758.19	0.0140	0.0038
Venus	89945-07-07 21:51 G	34572984.22	34572984.41	34572984.60	0.0141	0.0069
Venus	89946-02-19 08:24 G	34573210.70	34573210.85	34573211.00	0.0141	0.0100
Venus	89946-10-03 18:29 G	34573437.22	34573437.27	34573437.37	0.0141	0.0133
Mercury	89954-09-03 00:29 G	34576328.46	34576328.52	34576328.59	0.0143	0.0125
Mercury	89954-11-30 04:05 G	34576416.58	34576416.67	34576416.77	0.0143	0.0103
Mercury	89955-02-26 07:41 G	34576504.72	34576504.82	34576504.93	0.0143	0.0081
Mercury	89955-05-25 11:17 G	34576592.86	34576592.97	34576593.10	0.0143	0.0059
Mercury	89955-08-21 15:07 G	34576681.00	34576681.13	34576681.26	0.0143	0.0037
Mercury	89955-11-17 18:43 G	34576769.15	34576769.28	34576769.42	0.0143	0.0014
Mercury	89956-02-13 22:34 G	34576857.30	34576857.44	34576857.57	0.0143	0.0009
Mercury	89956-05-12 02:10 G	34576945.46	34576945.59	34576945.72	0.0143	0.0031
Mercury	89956-08-08 05:46 G	34577033.62	34577033.74	34577033.87	0.0143	0.0053
Mercury	89956-11-04 09:36 G	34577121.79	34577121.90	34577122.02	0.0143	0.0076
Mercury	89957-01-31 13:27 G	34577209.96	34577210.06	34577210.16	0.0143	0.0099
Mars	89957-04-19 15:07 G	34577287.92	34577288.13	34577288.38	0.0143	0.0105
Mercury	89957-04-29 17:03 G	34577298.15	34577298.21	34577298.29	0.0143	0.0122
Moon	89973-12-23 21:22 G	34583380.17	34583380.39	34583380.62	0.0141	0.0074
Earth	89973-12-23 21:51 G	34583380.19	34583380.41	34583380.64	0.0141	0.0070 *
Moon	89974-12-28 18:58 G	34583750.04	34583750.29	34583750.54	0.0141	0.0014
Earth	89974-12-28 19:41 G	34583750.06	34583750.32	34583750.58	0.0141	0.0007 *
Earth	89976-01-02 16:19 G	34584119.99	34584120.18	34584120.40	0.0141	0.0083

Moon	89976-01-02 17:03 G	34584120.00	34584120.21	34584120.45	0.0141	0.0075 *
Venus	89981-06-24 12:00 G	34586120.00	34586120.00	34586120.03	0.0139	0.0139
Venus	89982-02-05 20:24 G	34586346.22	34586346.35	34586346.48	0.0139	0.0109
Venus	89982-09-20 04:05 G	34586572.50	34586572.67	34586572.85	0.0138	0.0080
Venus	89983-05-04 11:46 G	34586798.79	34586798.99	34586799.19	0.0138	0.0051
Venus	89983-12-16 19:12 G	34587025.09	34587025.30	34587025.52	0.0138	0.0022
Venus	89984-07-30 02:39 G	34587251.39	34587251.61	34587251.82	0.0138	0.0008
Venus	89985-03-13 09:22 G	34587477.69	34587477.89	34587478.11	0.0138	0.0037
Venus	89985-10-25 16:34 G	34587704.00	34587704.19	34587704.38	0.0137	0.0065
Venus	89986-06-08 22:48 G	34587930.31	34587930.45	34587930.63	0.0137	0.0094
Venus	89987-01-21 05:17 G	34588156.64	34588156.72	34588156.84	0.0137	0.0121
Mercury	89996-03-26 08:10 G	34591508.78	34591508.84	34591508.93	0.0135	0.0124
Mercury	89996-06-22 15:22 G	34591597.02	34591597.14	34591597.28	0.0135	0.0097
Mercury	89996-09-18 22:48 G	34591685.29	34591685.45	34591685.61	0.0135	0.0070
Mercury	89996-12-16 05:46 G	34591773.56	34591773.74	34591773.92	0.0135	0.0044
Mercury	89997-03-14 12:43 G	34591861.85	34591862.03	34591862.22	0.0135	0.0017
Mercury	89997-06-10 19:41 G	34591950.14	34591950.32	34591950.51	0.0135	0.0010
Mars	89997-09-06 04:34 G	34592037.45	34592037.69	34592037.97	0.0135	0.0051
Mercury	89997-09-07 02:39 G	34592038.43	34592038.61	34592038.80	0.0135	0.0035
Mercury	89997-12-04 09:22 G	34592126.74	34592126.89	34592127.07	0.0135	0.0062
Mercury	89998-03-02 16:34 G	34592215.05	34592215.19	34592215.33	0.0135	0.0087
Mercury	89998-05-29 23:03 G	34592303.37	34592303.46	34592303.57	0.0135	0.0113

91ST MILLENNIUM CE

This is a list of transits visible from Uranus in the 91st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	90016-06-17 14:53	G	34598897.08	34598897.12	34598897.21	0.0136	0.0132	
Moon	90016-06-17 16:34	G	34598897.12	34598897.19	34598897.30	0.0136	0.0126	*
Moon	90017-06-21 23:31	G	34599266.27	34599266.48	34599266.72	0.0137	0.0069	
Earth	90017-06-22 00:43	G	34599266.32	34599266.53	34599266.76	0.0137	0.0065	*
Earth	90018-06-26 11:03	G	34599635.71	34599635.96	34599636.21	0.0137	0.0003	
Moon	90018-06-26 12:29	G	34599635.78	34599636.02	34599636.26	0.0137	0.0005	*
Moon	90019-06-30 20:39	G	34600005.16	34600005.36	34600005.60	0.0137	0.0074	
Earth	90019-06-30 21:36	G	34600005.19	34600005.40	34600005.62	0.0137	0.0072	*
Moon	90020-07-04 09:51	G	34600374.89	34600374.91	34600374.96	0.0138	0.0136	
Venus	90025-06-17 18:00	G	34602184.18	34602184.25	34602184.35	0.0139	0.0128	
Venus	90026-01-30 03:22	G	34602410.50	34602410.64	34602410.81	0.0140	0.0099	
Venus	90026-09-13 12:58	G	34602636.86	34602637.04	34602637.24	0.0140	0.0069	
Venus	90027-04-27 22:48	G	34602863.25	34602863.45	34602863.67	0.0140	0.0038	
Venus	90027-12-10 08:53	G	34603089.65	34603089.87	34603090.09	0.0140	0.0007	
Venus	90028-07-23 18:58	G	34603316.07	34603316.29	34603316.51	0.0140	0.0024	
Venus	90029-03-07 05:03	G	34603542.51	34603542.71	34603542.92	0.0141	0.0055	
Venus	90029-10-19 15:36	G	34603768.98	34603769.15	34603769.32	0.0141	0.0086	
Venus	90030-06-03 01:55	G	34603995.48	34603995.58	34603995.72	0.0141	0.0118	
Jupiter	90035-11-13 13:27	G	34605984.97	34605985.06	34605985.24	0.0142	0.0138	
Mercury	90038-06-27 04:19	G	34606941.66	34606941.68	34606941.71	0.0143	0.0140	
Mercury	90038-09-23 07:55	G	34607029.76	34607029.83	34607029.91	0.0143	0.0118	
Mercury	90038-12-20 11:31	G	34607117.89	34607117.98	34607118.08	0.0143	0.0096	
Mercury	90039-03-18 15:07	G	34607206.02	34607206.13	34607206.25	0.0143	0.0074	
Mercury	90039-06-14 18:58	G	34607294.17	34607294.29	34607294.41	0.0143	0.0052	
Mercury	90039-09-10 22:34	G	34607382.31	34607382.44	34607382.57	0.0143	0.0030	
Mercury	90039-12-08 02:10	G	34607470.46	34607470.59	34607470.73	0.0143	0.0009	
Mars	90040-01-07 21:51	G	34607501.22	34607501.41	34607501.66	0.0143	0.0110	

Mercury	90040-03-05 06:00 G	34607558.61	34607558.75	34607558.88	0.0143	0.0015
Mercury	90040-06-01 09:36 G	34607646.77	34607646.90	34607647.03	0.0143	0.0037
Mercury	90040-08-28 13:12 G	34607734.94	34607735.05	34607735.18	0.0143	0.0060
Mercury	90040-11-24 17:03 G	34607823.10	34607823.21	34607823.32	0.0143	0.0083
Mercury	90041-02-20 20:39 G	34607911.28	34607911.36	34607911.46	0.0143	0.0106
Mercury	90041-05-20 00:29 G	34607999.47	34607999.52	34607999.59	0.0143	0.0128
Earth	90056-12-19 10:48 G	34613691.94	34613691.95	34613691.99	0.0142	0.0141
Moon	90056-12-19 12:15 G	34613692.00	34613692.01	34613692.05	0.0142	0.0141
Moon	90057-12-24 08:39 G	34614061.63	34614061.86	34614062.11	0.0141	0.0059
Earth	90057-12-24 09:22 G	34614061.66	34614061.89	34614062.12	0.0141	0.0064 *
Earth	90058-12-29 06:58 G	34614431.54	34614431.79	34614432.05	0.0141	0.0013
Moon	90058-12-29 07:41 G	34614431.57	34614431.82	34614432.07	0.0141	0.0006 *
Earth	90060-01-03 03:36 G	34614801.47	34614801.65	34614801.87	0.0141	0.0089
Moon	90060-01-03 04:05 G	34614801.50	34614801.67	34614801.89	0.0141	0.0096 *
Venus	90065-10-06 05:17 G	34616904.63	34616904.72	34616904.84	0.0139	0.0122
Venus	90066-05-20 13:12 G	34617130.90	34617131.05	34617131.22	0.0139	0.0093
Venus	90067-01-01 20:53 G	34617357.19	34617357.37	34617357.58	0.0138	0.0064
Venus	90067-08-16 04:34 G	34617583.49	34617583.69	34617583.91	0.0138	0.0034
Venus	90068-03-29 12:00 G	34617809.78	34617810.00	34617810.22	0.0138	0.0005
Venus	90068-11-10 19:12 G	34618036.09	34618036.30	34618036.51	0.0138	0.0024
Venus	90069-06-25 01:55 G	34618262.39	34618262.58	34618262.79	0.0138	0.0053
Venus	90070-02-06 08:39 G	34618488.70	34618488.86	34618489.05	0.0137	0.0081
Venus	90070-09-20 15:07 G	34618715.02	34618715.13	34618715.28	0.0137	0.0109
Venus	90071-05-04 21:36 G	34618941.39	34618941.40	34618941.44	0.0137	0.0136
Mercury	90080-04-15 15:22 G	34622210.06	34622210.14	34622210.24	0.0135	0.0117
Mercury	90080-07-12 22:34 G	34622298.31	34622298.44	34622298.59	0.0135	0.0090
Mercury	90080-10-09 05:46 G	34622386.57	34622386.74	34622386.91	0.0135	0.0063
Mercury	90081-01-05 12:43 G	34622474.85	34622475.03	34622475.22	0.0135	0.0037
Mercury	90081-04-03 19:41 G	34622563.14	34622563.32	34622563.51	0.0135	0.0011
Mercury	90081-07-01 02:53 G	34622651.43	34622651.62	34622651.80	0.0135	0.0016

Mercury	90081-09-27 09:36 G	34622739.73	34622739.90	34622740.08	0.0135	0.0042
Mercury	90081-12-24 16:34 G	34622828.03	34622828.19	34622828.35	0.0135	0.0068
Mercury	90082-03-22 23:17 G	34622916.34	34622916.47	34622916.61	0.0135	0.0094
Mars	90082-05-01 06:58 G	34622955.53	34622955.79	34622956.06	0.0135	0.0044
Mercury	90082-06-19 06:00 G	34623004.68	34623004.75	34623004.85	0.0135	0.0120
Earth	90100-06-19 00:15 G	34629578.44	34629578.51	34629578.62	0.0136	0.0128
Moon	90100-06-19 02:24 G	34629578.58	34629578.60	34629578.65	0.0136	0.0135 *
Moon	90101-06-23 07:55 G	34629947.60	34629947.83	34629948.07	0.0137	0.0055
Earth	90101-06-23 10:05 G	34629947.70	34629947.92	34629948.15	0.0137	0.0061 *
Earth	90102-06-27 20:10 G	34630317.09	34630317.34	34630317.59	0.0137	0.0008
Moon	90102-06-27 21:36 G	34630317.16	34630317.40	34630317.65	0.0137	0.0006 *
Moon	90103-07-02 04:48 G	34630686.50	34630686.70	34630686.93	0.0137	0.0076
Earth	90103-07-02 06:43 G	34630686.59	34630686.78	34630687.00	0.0137	0.0077 *
Venus	90109-09-30 10:05 G	34632968.80	34632968.92	34632969.06	0.0139	0.0113
Venus	90110-05-14 19:41 G	34633195.15	34633195.32	34633195.50	0.0140	0.0083
Venus	90110-12-27 05:17 G	34633421.53	34633421.72	34633421.93	0.0140	0.0053
Venus	90111-08-10 15:07 G	34633647.92	34633648.13	34633648.35	0.0140	0.0022
Venus	90112-03-24 01:12 G	34633874.33	34633874.55	34633874.77	0.0140	0.0009
Venus	90112-11-05 11:17 G	34634100.76	34634100.97	34634101.18	0.0140	0.0040
Venus	90113-06-19 21:22 G	34634327.22	34634327.39	34634327.60	0.0141	0.0072
Venus	90114-02-01 07:55 G	34634553.70	34634553.83	34634553.99	0.0141	0.0103
Venus	90114-09-15 18:29 G	34634780.22	34634780.27	34634780.36	0.0141	0.0134
Mercury	90122-07-18 11:17 G	34637642.94	34637642.97	34637643.03	0.0143	0.0135
Mercury	90122-10-14 15:07 G	34637731.05	34637731.13	34637731.21	0.0143	0.0113
Mercury	90123-01-10 18:43 G	34637819.18	34637819.28	34637819.39	0.0143	0.0091
Mercury	90123-04-08 22:19 G	34637907.32	34637907.43	34637907.55	0.0143	0.0069
Mercury	90123-07-06 01:55 G	34637995.46	34637995.58	34637995.71	0.0143	0.0048
Mercury	90123-10-02 05:46 G	34638083.61	34638083.74	34638083.87	0.0143	0.0025
Mercury	90123-12-29 09:22 G	34638171.76	34638171.89	34638172.03	0.0143	0.0004
Mercury	90124-03-26 13:12 G	34638259.91	34638260.05	34638260.18	0.0143	0.0020

Mercury	90124-06-22 16:48 G	34638348.07	34638348.20	34638348.33	0.0143	0.0042
Mars	90124-09-04 10:19 G	34638421.60	34638421.93	34638422.27	0.0143	0.0029
Mercury	90124-09-18 20:24 G	34638436.24	34638436.35	34638436.48	0.0143	0.0065
Mercury	90124-12-16 00:15 G	34638524.41	34638524.51	34638524.62	0.0143	0.0088
Mercury	90125-03-14 03:51 G	34638612.58	34638612.66	34638612.75	0.0143	0.0111
Mercury	90125-06-10 07:41 G	34638700.78	34638700.82	34638700.87	0.0143	0.0133
Earth	90140-12-20 20:39 G	34644373.29	34644373.36	34644373.43	0.0142	0.0136
Moon	90140-12-20 22:05 G	34644373.37	34644373.42	34644373.50	0.0142	0.0137 *
Moon	90141-12-25 17:03 G	34644742.98	34644743.21	34644743.46	0.0141	0.0062
Earth	90141-12-25 18:58 G	34644743.06	34644743.29	34644743.53	0.0141	0.0059 *
Earth	90142-12-30 16:48 G	34645112.95	34645113.20	34645113.46	0.0141	0.0018
Moon	90142-12-30 17:17 G	34645112.98	34645113.22	34645113.47	0.0141	0.0025 *
Moon	90144-01-04 12:43 G	34645482.84	34645483.03	34645483.26	0.0141	0.0087
Earth	90144-01-04 13:12 G	34645482.88	34645483.05	34645483.26	0.0141	0.0095 *
Venus	90149-06-06 13:41 G	34647463.04	34647463.07	34647463.14	0.0139	0.0135
Venus	90150-01-18 21:36 G	34647689.28	34647689.40	34647689.56	0.0139	0.0106
Venus	90150-09-02 05:31 G	34647915.56	34647915.73	34647915.92	0.0138	0.0077
Venus	90151-04-16 13:12 G	34648141.85	34648142.05	34648142.26	0.0138	0.0047
Venus	90151-11-28 20:53 G	34648368.15	34648368.37	34648368.58	0.0138	0.0018
Venus	90152-07-12 03:51 G	34648594.45	34648594.66	34648594.88	0.0138	0.0011
Venus	90153-02-23 11:03 G	34648820.75	34648820.96	34648821.16	0.0138	0.0039
Venus	90153-10-07 17:31 G	34649047.05	34649047.23	34649047.43	0.0137	0.0068
Venus	90154-05-22 00:15 G	34649273.37	34649273.51	34649273.67	0.0137	0.0095
Venus	90155-01-03 06:43 G	34649499.70	34649499.78	34649499.89	0.0137	0.0123
Mercury	90164-05-06 22:05 G	34652911.32	34652911.42	34652911.54	0.0135	0.0111
Mercury	90164-08-03 05:17 G	34652999.58	34652999.72	34652999.87	0.0135	0.0084
Mercury	90164-10-30 12:15 G	34653087.85	34653088.01	34653088.19	0.0135	0.0058
Mars	90165-01-25 09:51 G	34653174.74	34653174.91	34653175.13	0.0135	0.0097
Mercury	90165-01-26 19:27 G	34653176.13	34653176.31	34653176.50	0.0135	0.0031
Mercury	90165-04-25 02:24 G	34653264.42	34653264.60	34653264.79	0.0135	0.0005

Mercury	90165-07-22 09:22 G	34653352.71	34653352.89	34653353.08	0.0135	0.0022
Mercury	90165-10-18 16:19 G	34653441.01	34653441.18	34653441.36	0.0135	0.0048
Mercury	90166-01-14 23:03 G	34653529.31	34653529.46	34653529.63	0.0135	0.0074
Mercury	90166-04-13 05:46 G	34653617.63	34653617.74	34653617.88	0.0135	0.0100
Mercury	90166-07-10 12:43 G	34653705.97	34653706.03	34653706.10	0.0135	0.0125
Earth	90184-06-19 08:39 G	34660259.78	34660259.86	34660259.98	0.0136	0.0125
Moon	90184-06-19 11:31 G	34660259.87	34660259.98	34660260.12	0.0136	0.0118 *
Moon	90185-06-23 15:51 G	34660628.95	34660629.16	34660629.41	0.0137	0.0063
Earth	90185-06-23 18:29 G	34660629.05	34660629.27	34660629.51	0.0137	0.0057 *
Earth	90186-06-28 04:48 G	34660998.45	34660998.70	34660998.95	0.0137	0.0011
Moon	90186-06-28 07:12 G	34660998.56	34660998.80	34660999.05	0.0137	0.0015 *
Moon	90187-07-02 13:12 G	34661367.86	34661368.05	34661368.27	0.0137	0.0081
Earth	90187-07-02 15:22 G	34661367.95	34661368.14	34661368.35	0.0137	0.0080 *
Venus	90193-05-30 16:19 G	34663527.10	34663527.18	34663527.28	0.0139	0.0127
Venus	90194-01-12 01:27 G	34663753.42	34663753.56	34663753.73	0.0139	0.0098
Venus	90194-08-26 10:48 G	34663979.78	34663979.95	34663980.16	0.0140	0.0068
Venus	90195-04-09 20:39 G	34664206.16	34664206.36	34664206.58	0.0140	0.0037
Venus	90195-11-22 06:43 G	34664432.56	34664432.78	34664433.00	0.0140	0.0006
Venus	90196-07-05 16:48 G	34664658.98	34664659.20	34664659.42	0.0140	0.0025
Venus	90197-02-17 02:53 G	34664885.42	34664885.62	34664885.82	0.0141	0.0056
Venus	90197-10-01 13:12 G	34665111.88	34665112.05	34665112.23	0.0141	0.0087
Venus	90198-05-15 23:46 G	34665338.38	34665338.49	34665338.62	0.0141	0.0118
Mercury	90206-08-08 18:00 G	34668344.21	34668344.25	34668344.31	0.0143	0.0132
Mercury	90206-11-04 21:51 G	34668432.33	34668432.41	34668432.50	0.0143	0.0110
Mercury	90207-02-01 01:27 G	34668520.46	34668520.56	34668520.67	0.0143	0.0088
Mercury	90207-04-30 05:03 G	34668608.60	34668608.71	34668608.83	0.0143	0.0066
Mercury	90207-07-27 08:39 G	34668696.74	34668696.86	34668696.99	0.0143	0.0045
Mercury	90207-10-23 12:29 G	34668784.89	34668785.02	34668785.15	0.0143	0.0022
Mercury	90208-01-19 16:05 G	34668873.04	34668873.17	34668873.31	0.0143	0.0003
Mercury	90208-04-16 19:55 G	34668961.19	34668961.33	34668961.46	0.0143	0.0023

Mercury	90208-07-13 23:31 G	34669049.35	34669049.48	34669049.61	0.0143	0.0045
Mercury	90208-10-10 03:07 G	34669137.52	34669137.63	34669137.75	0.0143	0.0068
Mercury	90209-01-06 06:58 G	34669225.69	34669225.79	34669225.90	0.0143	0.0091
Mercury	90209-04-04 10:34 G	34669313.87	34669313.94	34669314.03	0.0143	0.0114
Mercury	90209-07-01 14:24 G	34669402.07	34669402.10	34669402.15	0.0143	0.0136
Earth	90224-12-22 03:07 G	34675054.56	34675054.63	34675054.73	0.0142	0.0134
Moon	90224-12-22 06:00 G	34675054.67	34675054.75	34675054.85	0.0142	0.0132 *
Moon	90225-12-27 00:00 G	34675424.26	34675424.50	34675424.75	0.0141	0.0053
Earth	90225-12-27 01:55 G	34675424.35	34675424.58	34675424.83	0.0141	0.0056 *
Earth	90226-12-31 23:46 G	34675794.25	34675794.49	34675794.75	0.0141	0.0022
Moon	90227-01-01 01:41 G	34675794.33	34675794.57	34675794.83	0.0141	0.0016 *
Moon	90228-01-05 20:10 G	34676164.17	34676164.34	34676164.53	0.0141	0.0105
Earth	90228-01-05 20:53 G	34676164.20	34676164.37	34676164.57	0.0141	0.0098 *
Venus	90233-09-19 05:31 G	34678247.62	34678247.73	34678247.84	0.0139	0.0119
Venus	90234-05-03 12:58 G	34678473.90	34678474.04	34678474.22	0.0139	0.0091
Venus	90234-12-15 20:53 G	34678700.19	34678700.37	34678700.58	0.0138	0.0062
Venus	90235-07-30 04:34 G	34678926.49	34678926.69	34678926.91	0.0138	0.0032
Venus	90236-03-12 12:00 G	34679152.78	34679153.00	34679153.21	0.0138	0.0003
Venus	90236-10-24 18:58 G	34679379.09	34679379.29	34679379.51	0.0138	0.0026
Venus	90237-06-08 02:10 G	34679605.39	34679605.59	34679605.79	0.0138	0.0054
Venus	90238-01-20 08:39 G	34679831.70	34679831.86	34679832.04	0.0137	0.0083
Venus	90238-09-03 15:07 G	34680058.02	34680058.13	34680058.28	0.0137	0.0111
Mercury	90248-02-29 21:36 G	34683524.37	34683524.40	34683524.45	0.0135	0.0132
Mercury	90248-05-28 04:48 G	34683612.59	34683612.70	34683612.83	0.0135	0.0105
Mercury	90248-08-24 12:00 G	34683700.85	34683701.00	34683701.16	0.0135	0.0078
Mercury	90248-11-20 18:58 G	34683789.13	34683789.29	34683789.48	0.0135	0.0052
Mercury	90249-02-17 02:10 G	34683877.41	34683877.59	34683877.78	0.0135	0.0025
Mercury	90249-05-16 09:07 G	34683965.70	34683965.88	34683966.07	0.0135	0.0004
Mercury	90249-08-12 16:05 G	34684053.99	34684054.17	34684054.36	0.0135	0.0028
Mars	90249-09-20 12:15 G	34684092.73	34684093.01	34684093.30	0.0135	0.0005

Mercury	90249-11-08 22:48 G	34684142.29	34684142.45	34684142.63	0.0135	0.0054
Mercury	90250-02-05 05:46 G	34684230.60	34684230.74	34684230.90	0.0135	0.0080
Mercury	90250-05-04 12:29 G	34684318.92	34684319.02	34684319.15	0.0135	0.0106
Mercury	90250-07-31 19:27 G	34684407.28	34684407.31	34684407.36	0.0135	0.0131
Saturn	90260-05-28 13:55 G	34687995.68	34687996.08	34687996.54	0.0135	0.0092
Earth	90268-06-20 18:00 G	34690941.15	34690941.25	34690941.38	0.0136	0.0120
Moon	90268-06-20 20:53 G	34690941.31	34690941.37	34690941.47	0.0136	0.0128 *
Moon	90269-06-25 00:29 G	34691310.29	34691310.52	34691310.78	0.0137	0.0047
Earth	90269-06-25 03:51 G	34691310.43	34691310.66	34691310.90	0.0137	0.0053 *
Earth	90270-06-29 13:55 G	34691679.83	34691680.08	34691680.33	0.0137	0.0016
Moon	90270-06-29 16:34 G	34691679.94	34691680.19	34691680.43	0.0137	0.0013 *
Moon	90271-07-03 21:36 G	34692049.21	34692049.40	34692049.61	0.0137	0.0086
Earth	90271-07-04 00:43 G	34692049.34	34692049.53	34692049.73	0.0137	0.0085 *
Venus	90277-09-12 07:41 G	34694311.71	34694311.82	34694311.97	0.0139	0.0112
Venus	90278-04-26 17:17 G	34694538.05	34694538.22	34694538.41	0.0140	0.0082
Venus	90278-12-09 02:53 G	34694764.42	34694764.62	34694764.83	0.0140	0.0052
Venus	90279-07-23 12:43 G	34694990.81	34694991.03	34694991.25	0.0140	0.0021
Venus	90280-03-05 22:34 G	34695217.22	34695217.44	34695217.66	0.0140	0.0010
Venus	90280-10-18 08:39 G	34695443.65	34695443.86	34695444.07	0.0140	0.0041
Venus	90281-06-01 18:58 G	34695670.10	34695670.29	34695670.48	0.0141	0.0072
Venus	90282-01-14 05:17 G	34695896.58	34695896.72	34695896.88	0.0141	0.0103
Venus	90282-08-28 15:51 G	34696123.11	34696123.16	34696123.24	0.0141	0.0134
Mercury	90290-08-29 00:43 G	34699045.49	34699045.53	34699045.60	0.0143	0.0129
Mercury	90290-11-25 04:34 G	34699133.61	34699133.69	34699133.78	0.0143	0.0107
Mercury	90291-02-21 08:10 G	34699221.74	34699221.84	34699221.95	0.0143	0.0085
Mercury	90291-05-20 11:46 G	34699309.88	34699309.99	34699310.11	0.0143	0.0063
Mercury	90291-08-16 15:22 G	34699398.02	34699398.14	34699398.27	0.0143	0.0042
Mercury	90291-11-12 19:12 G	34699486.17	34699486.30	34699486.43	0.0143	0.0019
Mars	90292-01-20 11:46 G	34699554.70	34699554.99	34699555.32	0.0143	0.0059
Mercury	90292-02-08 22:48 G	34699574.32	34699574.45	34699574.59	0.0143	0.0004

Mercury	90292-05-07 02:24 G	34699662.47	34699662.60	34699662.74	0.0143	0.0026
Mercury	90292-08-03 06:15 G	34699750.63	34699750.76	34699750.89	0.0143	0.0048
Mercury	90292-10-30 09:51 G	34699838.80	34699838.91	34699839.03	0.0143	0.0071
Mercury	90293-01-26 13:41 G	34699926.97	34699927.07	34699927.17	0.0143	0.0093
Mercury	90293-04-24 17:17 G	34700015.15	34700015.22	34700015.31	0.0143	0.0116
Mercury	90293-07-21 21:07 G	34700103.35	34700103.38	34700103.42	0.0143	0.0139
Earth	90308-12-23 08:53 G	34705735.80	34705735.87	34705735.98	0.0142	0.0132
Moon	90308-12-23 12:00 G	34705735.93	34705736.00	34705736.09	0.0142	0.0134 *
Moon	90309-12-28 04:48 G	34706105.47	34706105.70	34706105.95	0.0141	0.0055
Earth	90309-12-28 07:55 G	34706105.60	34706105.83	34706106.07	0.0141	0.0054 *
Earth	90311-01-02 06:00 G	34706475.50	34706475.75	34706476.00	0.0141	0.0024
Moon	90311-01-02 07:55 G	34706475.59	34706475.83	34706476.08	0.0141	0.0030 *
Moon	90312-01-07 00:58 G	34706845.35	34706845.54	34706845.75	0.0141	0.0093
Earth	90312-01-07 02:53 G	34706845.46	34706845.62	34706845.81	0.0141	0.0101 *
Venus	90317-05-20 11:31 G	34708805.94	34708805.98	34708806.05	0.0139	0.0134
Venus	90318-01-01 19:27 G	34709032.19	34709032.31	34709032.47	0.0139	0.0105
Venus	90318-08-16 03:22 G	34709258.47	34709258.64	34709258.83	0.0139	0.0076
Venus	90319-03-30 11:03 G	34709484.77	34709484.96	34709485.17	0.0138	0.0047
Venus	90319-11-11 18:43 G	34709711.07	34709711.28	34709711.50	0.0138	0.0018
Venus	90320-06-25 02:10 G	34709937.37	34709937.59	34709937.80	0.0138	0.0011
Venus	90321-02-06 09:07 G	34710163.68	34710163.88	34710164.09	0.0138	0.0040
Venus	90321-09-20 16:05 G	34710389.98	34710390.17	34710390.36	0.0138	0.0068
Venus	90322-05-04 22:34 G	34710616.30	34710616.44	34710616.61	0.0137	0.0096
Venus	90322-12-17 05:31 G	34710842.65	34710842.73	34710842.83	0.0137	0.0124
Mercury	90332-03-22 04:05 G	34714225.61	34714225.67	34714225.73	0.0135	0.0128
Mercury	90332-06-18 10:48 G	34714313.84	34714313.95	34714314.09	0.0135	0.0101
Mercury	90332-09-14 18:15 G	34714402.11	34714402.26	34714402.42	0.0135	0.0074
Mercury	90332-12-12 01:27 G	34714490.38	34714490.56	34714490.74	0.0135	0.0047
Mercury	90333-03-10 08:24 G	34714578.66	34714578.85	34714579.04	0.0135	0.0021
Mercury	90333-06-06 15:22 G	34714666.95	34714667.14	34714667.33	0.0135	0.0006

Mercury	90333-09-02 22:19 G	34714755.25	34714755.43	34714755.62	0.0135	0.0032
Mercury	90333-11-30 05:17 G	34714843.55	34714843.72	34714843.89	0.0135	0.0058
Mercury	90334-02-26 12:00 G	34714931.86	34714932.00	34714932.16	0.0135	0.0084
Mars	90334-05-16 11:31 G	34715010.79	34715010.98	34715011.22	0.0135	0.0087
Mercury	90334-05-25 18:43 G	34715020.19	34715020.28	34715020.40	0.0135	0.0110
Earth	90352-06-22 03:51 G	34721622.54	34721622.66	34721622.80	0.0136	0.0116
Moon	90352-06-22 06:58 G	34721622.66	34721622.79	34721622.96	0.0136	0.0109 *
Moon	90353-06-26 10:19 G	34721991.71	34721991.93	34721992.17	0.0137	0.0055
Earth	90353-06-26 13:27 G	34721991.84	34721992.06	34721992.31	0.0137	0.0049 *
Earth	90354-07-01 00:00 G	34722361.25	34722361.50	34722361.75	0.0137	0.0020
Moon	90354-07-01 03:07 G	34722361.39	34722361.63	34722361.88	0.0137	0.0025 *
Moon	90355-07-05 07:27 G	34722730.63	34722730.81	34722731.02	0.0137	0.0089
Earth	90355-07-05 10:34 G	34722730.76	34722730.94	34722731.14	0.0137	0.0090 *
Venus	90361-05-13 15:51 G	34724870.06	34724870.16	34724870.25	0.0139	0.0124
Venus	90361-12-26 00:43 G	34725096.38	34725096.53	34725096.70	0.0139	0.0095
Venus	90362-08-09 10:05 G	34725322.73	34725322.92	34725323.12	0.0140	0.0065
Venus	90363-03-23 19:41 G	34725549.11	34725549.32	34725549.54	0.0140	0.0035
Venus	90363-11-05 05:31 G	34725775.51	34725775.73	34725775.95	0.0140	0.0005
Venus	90364-06-18 15:36 G	34726001.94	34726002.15	34726002.37	0.0140	0.0027
Venus	90365-01-31 01:41 G	34726228.38	34726228.57	34726228.78	0.0140	0.0058
Venus	90365-09-14 12:00 G	34726454.84	34726455.00	34726455.18	0.0141	0.0089
Venus	90366-04-28 22:19 G	34726681.34	34726681.43	34726681.57	0.0141	0.0120
Mercury	90374-09-19 07:55 G	34729746.78	34729746.83	34729746.90	0.0143	0.0124
Mercury	90374-12-16 11:46 G	34729834.90	34729834.99	34729835.08	0.0143	0.0102
Mercury	90375-03-14 15:22 G	34729923.03	34729923.14	34729923.25	0.0143	0.0080
Mercury	90375-06-10 18:58 G	34730011.17	34730011.29	34730011.41	0.0143	0.0059
Mercury	90375-09-06 22:34 G	34730099.31	34730099.44	34730099.57	0.0143	0.0037
Mercury	90375-12-04 02:10 G	34730187.46	34730187.59	34730187.73	0.0143	0.0015
Mercury	90376-03-01 05:46 G	34730275.61	34730275.74	34730275.88	0.0143	0.0010
Mercury	90376-05-28 09:36 G	34730363.77	34730363.90	34730364.03	0.0143	0.0030

Mercury	90376-08-24 13:12 G	34730451.93	34730452.05	34730452.18	0.0143	0.0053
Mars	90376-09-16 22:34 G	34730475.18	34730475.44	34730475.75	0.0143	0.0080
Mercury	90376-11-20 16:48 G	34730540.09	34730540.20	34730540.32	0.0143	0.0076
Mercury	90377-02-16 20:39 G	34730628.27	34730628.36	34730628.46	0.0143	0.0098
Mercury	90377-05-16 00:29 G	34730716.45	34730716.52	34730716.59	0.0143	0.0121
Mercury	90377-08-12 04:19 G	34730804.68	34730804.68	34730804.68	0.0143	0.0143
Earth	90392-12-23 16:34 G	34736417.08	34736417.19	34736417.29	0.0142	0.0129
Moon	90392-12-23 19:55 G	34736417.22	34736417.33	34736417.45	0.0142	0.0125 *
Moon	90393-12-28 12:00 G	34736786.76	34736787.00	34736787.26	0.0141	0.0049
Earth	90393-12-28 15:22 G	34736786.90	34736787.14	34736787.38	0.0141	0.0051 *
Earth	90395-01-02 12:58 G	34737156.79	34737157.04	34737157.30	0.0141	0.0028
Moon	90395-01-02 16:05 G	34737156.93	34737157.17	34737157.42	0.0141	0.0023 *
Moon	90396-01-07 07:55 G	34737526.68	34737526.83	34737527.00	0.0141	0.0111
Earth	90396-01-07 10:19 G	34737526.77	34737526.93	34737527.11	0.0141	0.0104 *
Venus	90401-09-01 02:10 G	34739590.49	34739590.59	34739590.72	0.0139	0.0119
Venus	90402-04-15 10:05 G	34739816.77	34739816.92	34739817.10	0.0139	0.0090
Venus	90402-11-27 18:14 G	34740043.07	34740043.26	34740043.46	0.0138	0.0061
Venus	90403-07-12 01:55 G	34740269.37	34740269.58	34740269.79	0.0138	0.0031
Venus	90404-02-23 09:22 G	34740495.67	34740495.89	34740496.10	0.0138	0.0003
Venus	90404-10-06 16:34 G	34740721.98	34740722.19	34740722.40	0.0138	0.0026
Venus	90405-05-20 23:17 G	34740948.29	34740948.47	34740948.68	0.0138	0.0055
Venus	90406-01-02 06:29 G	34741174.61	34741174.77	34741174.95	0.0137	0.0083
Venus	90406-08-16 13:12 G	34741400.93	34741401.05	34741401.19	0.0137	0.0110
Mercury	90416-04-11 10:05 G	34744926.86	34744926.92	34744927.01	0.0135	0.0123
Mercury	90416-07-08 17:17 G	34745015.10	34745015.22	34745015.37	0.0135	0.0096
Mercury	90416-10-05 00:43 G	34745103.37	34745103.53	34745103.69	0.0135	0.0069
Mercury	90417-01-01 07:41 G	34745191.64	34745191.82	34745192.01	0.0135	0.0043
Mars	90417-02-08 14:24 G	34745229.85	34745230.10	34745230.36	0.0135	0.0055
Mercury	90417-03-30 14:53 G	34745279.93	34745280.12	34745280.31	0.0135	0.0016
Mercury	90417-06-26 21:50 G	34745368.22	34745368.41	34745368.60	0.0135	0.0010

Mercury	90417-09-23 04:48 G	34745456.52	34745456.70	34745456.88	0.0135	0.0037
Mercury	90417-12-20 11:31 G	34745544.82	34745544.98	34745545.16	0.0135	0.0063
Mercury	90418-03-18 18:29 G	34745633.14	34745633.27	34745633.42	0.0135	0.0089
Mercury	90418-06-15 01:12 G	34745721.47	34745721.55	34745721.66	0.0135	0.0115
Earth	90436-06-22 14:10 G	34752303.96	34752304.09	34752304.24	0.0136	0.0112
Moon	90436-06-22 17:46 G	34752304.13	34752304.24	34752304.37	0.0136	0.0120 *
Moon	90437-06-26 20:24 G	34752673.12	34752673.35	34752673.61	0.0137	0.0037
Earth	90437-06-27 00:00 G	34752673.27	34752673.50	34752673.75	0.0137	0.0044 *
Earth	90438-07-01 10:05 G	34753042.68	34753042.92	34753043.18	0.0137	0.0026
Moon	90438-07-01 13:26 G	34753042.82	34753043.06	34753043.31	0.0137	0.0022 *
Moon	90439-07-05 17:17 G	34753412.06	34753412.22	34753412.41	0.0137	0.0098
Earth	90439-07-05 20:53 G	34753412.20	34753412.37	34753412.56	0.0137	0.0095 *
Venus	90445-01-10 23:17 G	34755428.45	34755428.47	34755428.53	0.0139	0.0136
Venus	90445-08-25 08:24 G	34755654.73	34755654.85	34755655.01	0.0139	0.0107
Venus	90446-04-08 18:00 G	34755881.08	34755881.25	34755881.44	0.0139	0.0077
Venus	90446-11-21 03:36 G	34756107.45	34756107.65	34756107.86	0.0140	0.0048
Venus	90447-07-05 13:26 G	34756333.85	34756334.06	34756334.28	0.0140	0.0017
Venus	90448-02-16 23:17 G	34756560.26	34756560.47	34756560.70	0.0140	0.0014
Venus	90448-09-30 09:22 G	34756786.69	34756786.89	34756787.11	0.0140	0.0044
Venus	90449-05-14 19:55 G	34757013.15	34757013.33	34757013.52	0.0140	0.0075
Venus	90449-12-27 06:14 G	34757239.63	34757239.76	34757239.91	0.0141	0.0106
Venus	90450-08-10 16:48 G	34757466.17	34757466.20	34757466.27	0.0141	0.0137
Mercury	90458-07-13 12:00 G	34760359.98	34760360.00	34760360.03	0.0143	0.0139
Mercury	90458-10-09 15:36 G	34760448.08	34760448.15	34760448.23	0.0143	0.0118
Mercury	90459-01-05 18:58 G	34760536.20	34760536.29	34760536.40	0.0143	0.0096
Mercury	90459-04-03 22:48 G	34760624.34	34760624.45	34760624.56	0.0143	0.0074
Mars	90459-06-07 05:17 G	34760688.61	34760688.72	34760688.85	0.0143	0.0134
Mercury	90459-07-01 02:24 G	34760712.48	34760712.60	34760712.72	0.0143	0.0052
Mercury	90459-09-27 06:00 G	34760800.62	34760800.75	34760800.88	0.0143	0.0030
Mercury	90459-12-24 09:36 G	34760888.77	34760888.90	34760889.04	0.0143	0.0009

Mercury	90460-03-21 13:26 G	34760976.92	34760977.06	34760977.19	0.0143	0.0015
Mercury	90460-06-17 17:02 G	34761065.08	34761065.21	34761065.34	0.0143	0.0037
Mercury	90460-09-13 20:38 G	34761153.24	34761153.36	34761153.49	0.0143	0.0060
Mercury	90460-12-11 00:14 G	34761241.41	34761241.51	34761241.63	0.0143	0.0083
Mercury	90461-03-09 04:19 G	34761329.58	34761329.68	34761329.77	0.0143	0.0105
Mercury	90461-06-05 07:55 G	34761417.77	34761417.83	34761417.89	0.0143	0.0127
Earth	90476-12-24 01:41 G	34767098.47	34767098.57	34767098.71	0.0142	0.0125
Moon	90476-12-24 05:17 G	34767098.63	34767098.72	34767098.84	0.0142	0.0128 *
Moon	90477-12-28 20:53 G	34767468.13	34767468.37	34767468.62	0.0141	0.0045
Earth	90477-12-29 00:29 G	34767468.29	34767468.52	34767468.77	0.0141	0.0046 *
Earth	90479-01-02 22:34 G	34767838.19	34767838.44	34767838.69	0.0141	0.0032
Moon	90479-01-03 01:26 G	34767838.32	34767838.56	34767838.81	0.0141	0.0037 *
Moon	90480-01-07 16:19 G	34768208.01	34768208.18	34768208.37	0.0141	0.0102
Earth	90480-01-07 19:12 G	34768208.17	34768208.30	34768208.49	0.0141	0.0110 *
Venus	90485-05-01 09:50 G	34770148.86	34770148.91	34770148.99	0.0139	0.0132
Venus	90485-12-13 18:00 G	34770375.12	34770375.25	34770375.41	0.0139	0.0103
Venus	90486-07-28 01:55 G	34770601.41	34770601.58	34770601.77	0.0139	0.0074
Venus	90487-03-11 09:36 G	34770827.70	34770827.90	34770828.11	0.0138	0.0045
Venus	90487-10-23 17:17 G	34771054.00	34771054.22	34771054.43	0.0138	0.0016
Venus	90488-06-06 00:29 G	34771280.31	34771280.52	34771280.74	0.0138	0.0013
Venus	90489-01-18 07:41 G	34771506.62	34771506.82	34771507.03	0.0138	0.0041
Venus	90489-09-01 14:24 G	34771732.93	34771733.10	34771733.30	0.0137	0.0070
Venus	90490-04-15 21:22 G	34771959.25	34771959.39	34771959.55	0.0137	0.0097
Venus	90490-11-28 04:19 G	34772185.60	34772185.68	34772185.78	0.0137	0.0124
Mercury	90500-05-02 16:34 G	34775628.11	34775628.19	34775628.29	0.0135	0.0118
Mercury	90500-07-29 23:46 G	34775716.36	34775716.49	34775716.64	0.0135	0.0091
Mercury	90500-10-26 06:43 G	34775804.63	34775804.78	34775804.96	0.0135	0.0065
Mercury	90501-01-22 13:55 G	34775892.91	34775893.08	34775893.27	0.0135	0.0038
Mercury	90501-04-20 21:07 G	34775981.19	34775981.38	34775981.57	0.0135	0.0012
Mercury	90501-07-18 04:19 G	34776069.49	34776069.68	34776069.86	0.0135	0.0015

Mars	90501-10-04 13:26 G	34776147.80	34776148.06	34776148.34	0.0135	0.0037
Mercury	90501-10-14 11:02 G	34776157.79	34776157.96	34776158.15	0.0135	0.0042
Mercury	90502-01-10 18:00 G	34776246.10	34776246.25	34776246.42	0.0135	0.0068
Mercury	90502-04-09 00:43 G	34776334.41	34776334.53	34776334.68	0.0135	0.0094
Mercury	90502-07-06 07:41 G	34776422.75	34776422.82	34776422.92	0.0135	0.0120
Earth	90520-06-24 00:00 G	34782985.36	34782985.50	34782985.67	0.0136	0.0108
Moon	90520-06-24 03:22 G	34782985.49	34782985.64	34782985.83	0.0136	0.0101 *
Moon	90521-06-28 06:14 G	34783354.53	34783354.76	34783355.01	0.0137	0.0046
Earth	90521-06-28 09:50 G	34783354.68	34783354.91	34783355.16	0.0137	0.0039 *
Earth	90522-07-02 20:10 G	34783724.10	34783724.34	34783724.59	0.0137	0.0030
Moon	90522-07-02 23:46 G	34783724.25	34783724.49	34783724.74	0.0137	0.0036 *
Moon	90523-07-07 03:22 G	34784093.48	34784093.64	34784093.83	0.0137	0.0099
Earth	90523-07-07 06:43 G	34784093.63	34784093.78	34784093.97	0.0137	0.0101 *
Venus	90529-04-25 16:34 G	34786213.09	34786213.19	34786213.31	0.0139	0.0120
Venus	90529-12-08 01:41 G	34786439.42	34786439.57	34786439.76	0.0139	0.0091
Venus	90530-07-22 11:17 G	34786665.79	34786665.97	34786666.18	0.0140	0.0061
Venus	90531-03-05 21:07 G	34786892.17	34786892.38	34786892.60	0.0140	0.0030
Venus	90531-10-18 07:12 G	34787118.58	34787118.80	34787119.02	0.0140	0.0001
Venus	90532-05-31 17:17 G	34787345.01	34787345.22	34787345.44	0.0140	0.0031
Venus	90533-01-13 03:22 G	34787571.45	34787571.64	34787571.85	0.0140	0.0062
Venus	90533-08-27 13:41 G	34787797.92	34787798.07	34787798.25	0.0141	0.0093
Venus	90534-04-11 00:29 G	34788024.42	34788024.52	34788024.63	0.0141	0.0123
Mercury	90542-08-03 19:26 G	34791061.27	34791061.31	34791061.37	0.0143	0.0132
Mercury	90542-10-30 23:02 G	34791149.38	34791149.46	34791149.55	0.0143	0.0111
Mercury	90543-01-27 02:38 G	34791237.51	34791237.61	34791237.72	0.0143	0.0089
Mercury	90543-04-25 06:14 G	34791325.65	34791325.76	34791325.88	0.0143	0.0067
Mercury	90543-07-22 09:50 G	34791413.79	34791413.91	34791414.04	0.0143	0.0045
Mercury	90543-10-18 13:41 G	34791501.94	34791502.07	34791502.20	0.0143	0.0023
Mercury	90544-01-14 17:17 G	34791590.09	34791590.22	34791590.35	0.0143	0.0001
Mars	90544-02-03 00:14 G	34791609.17	34791609.51	34791609.85	0.0143	0.0010

Mercury	90544-04-11 20:53 G	34791678.24	34791678.37	34791678.51	0.0143	0.0022
Mercury	90544-07-09 00:43 G	34791766.40	34791766.53	34791766.65	0.0143	0.0044
Mercury	90544-10-05 04:19 G	34791854.56	34791854.68	34791854.80	0.0143	0.0067
Mercury	90545-01-01 07:55 G	34791942.73	34791942.83	34791942.94	0.0143	0.0090
Mercury	90545-03-30 11:46 G	34792030.91	34792030.99	34792031.07	0.0143	0.0112
Mercury	90545-06-26 15:22 G	34792119.11	34792119.14	34792119.19	0.0143	0.0135
Earth	90560-12-25 12:58 G	34797779.92	34797780.04	34797780.20	0.0142	0.0119
Moon	90560-12-25 16:34 G	34797780.06	34797780.19	34797780.36	0.0142	0.0114 *
Moon	90561-12-30 08:24 G	34798149.60	34798149.85	34798150.10	0.0141	0.0039
Earth	90561-12-30 11:46 G	34798149.76	34798149.99	34798150.25	0.0141	0.0040 *
Earth	90563-01-04 09:22 G	34798519.65	34798519.89	34798520.15	0.0141	0.0039
Moon	90563-01-04 13:12 G	34798519.81	34798520.05	34798520.30	0.0141	0.0035 *
Moon	90564-01-09 03:36 G	34798889.53	34798889.65	34798889.78	0.0141	0.0122
Earth	90564-01-09 06:29 G	34798889.64	34798889.77	34798889.93	0.0141	0.0116 *
Venus	90569-08-14 02:24 G	34800933.50	34800933.60	34800933.74	0.0139	0.0116
Venus	90570-03-28 10:34 G	34801159.78	34801159.94	34801160.12	0.0139	0.0087
Venus	90570-11-09 18:29 G	34801386.08	34801386.27	34801386.48	0.0138	0.0058
Venus	90571-06-24 02:10 G	34801612.38	34801612.59	34801612.81	0.0138	0.0029
Venus	90572-02-05 09:36 G	34801838.69	34801838.90	34801839.12	0.0138	0.0001
Venus	90572-09-18 16:48 G	34802064.99	34802065.20	34802065.41	0.0138	0.0029
Venus	90573-05-02 23:46 G	34802291.30	34802291.49	34802291.69	0.0138	0.0057
Venus	90573-12-15 06:58 G	34802517.63	34802517.79	34802517.96	0.0137	0.0085
Venus	90574-07-29 13:26 G	34802743.96	34802744.06	34802744.20	0.0137	0.0113
Mercury	90584-05-22 23:17 G	34806329.38	34806329.47	34806329.59	0.0135	0.0112
Mars	90584-06-29 17:02 G	34806367.05	34806367.21	34806367.40	0.0135	0.0104
Mercury	90584-08-19 06:29 G	34806417.63	34806417.77	34806417.93	0.0135	0.0085
Mercury	90584-11-15 13:41 G	34806505.90	34806506.07	34806506.25	0.0135	0.0059
Mercury	90585-02-11 20:53 G	34806594.19	34806594.37	34806594.56	0.0135	0.0032
Mercury	90585-05-11 04:05 G	34806682.48	34806682.67	34806682.86	0.0135	0.0006
Mercury	90585-08-07 11:02 G	34806770.77	34806770.96	34806771.15	0.0135	0.0021

Mercury	90585-11-03 17:46 G	34806859.07	34806859.24	34806859.43	0.0135	0.0048
Mercury	90586-01-31 00:43 G	34806947.38	34806947.53	34806947.70	0.0135	0.0074
Mercury	90586-04-29 07:41 G	34807035.70	34807035.82	34807035.95	0.0135	0.0100
Mars	90586-05-29 14:10 G	34807066.04	34807066.09	34807066.20	0.0135	0.0130
Mercury	90586-07-26 14:24 G	34807124.05	34807124.10	34807124.18	0.0135	0.0126
Earth	90604-06-25 09:07 G	34813666.74	34813666.88	34813667.07	0.0137	0.0104
Moon	90604-06-25 12:43 G	34813666.91	34813667.03	34813667.20	0.0137	0.0112 *
Moon	90605-06-29 15:50 G	34814035.92	34814036.16	34814036.41	0.0137	0.0027
Earth	90605-06-29 19:12 G	34814036.07	34814036.30	34814036.55	0.0137	0.0035 *
Earth	90606-07-04 05:17 G	34814405.49	34814405.72	34814405.97	0.0137	0.0036
Moon	90606-07-04 08:53 G	34814405.63	34814405.87	34814406.12	0.0137	0.0031 *
Moon	90607-07-08 12:29 G	34814774.87	34814775.02	34814775.18	0.0137	0.0109
Earth	90607-07-08 15:50 G	34814775.02	34814775.16	34814775.34	0.0137	0.0106 *
Venus	90612-12-24 23:46 G	34816771.44	34816771.49	34816771.57	0.0139	0.0133
Venus	90613-08-08 08:53 G	34816997.74	34816997.87	34816998.03	0.0139	0.0104
Venus	90614-03-22 18:29 G	34817224.09	34817224.27	34817224.46	0.0140	0.0074
Venus	90614-11-04 04:19 G	34817450.47	34817450.68	34817450.89	0.0140	0.0044
Venus	90615-06-18 14:10 G	34817676.87	34817677.09	34817677.31	0.0140	0.0014
Venus	90616-01-31 00:14 G	34817903.29	34817903.51	34817903.73	0.0140	0.0017
Venus	90616-09-13 10:05 G	34818129.73	34818129.92	34818130.14	0.0140	0.0048
Venus	90617-04-27 20:38 G	34818356.18	34818356.36	34818356.55	0.0141	0.0078
Venus	90617-12-10 06:58 G	34818582.67	34818582.79	34818582.95	0.0141	0.0109
Venus	90618-07-24 17:31 G	34818809.23	34818809.23	34818809.28	0.0141	0.0140
Mercury	90626-08-25 02:53 G	34821762.56	34821762.62	34821762.68	0.0143	0.0126
Mercury	90626-11-21 06:14 G	34821850.68	34821850.76	34821850.86	0.0143	0.0105
Mercury	90627-02-17 10:05 G	34821938.81	34821938.92	34821939.03	0.0143	0.0083
Mercury	90627-05-16 13:41 G	34822026.95	34822027.07	34822027.19	0.0143	0.0061
Mercury	90627-08-12 17:17 G	34822115.10	34822115.22	34822115.35	0.0143	0.0039
Mercury	90627-11-08 20:53 G	34822203.24	34822203.37	34822203.51	0.0143	0.0018
Mercury	90628-02-05 00:43 G	34822291.39	34822291.53	34822291.66	0.0143	0.0006

Mercury	90628-05-03 04:19 G	34822379.55	34822379.68	34822379.81	0.0143	0.0028
Mercury	90628-07-30 07:55 G	34822467.71	34822467.83	34822467.96	0.0143	0.0051
Mercury	90628-10-26 11:46 G	34822555.88	34822555.99	34822556.11	0.0143	0.0073
Mercury	90629-01-22 15:22 G	34822644.05	34822644.14	34822644.24	0.0143	0.0096
Mercury	90629-04-20 19:12 G	34822732.23	34822732.30	34822732.38	0.0143	0.0119
Mercury	90629-07-17 22:48 G	34822820.44	34822820.45	34822820.48	0.0143	0.0142
Earth	90644-12-27 00:43 G	34828461.39	34828461.53	34828461.70	0.0142	0.0113
Moon	90644-12-27 04:34 G	34828461.56	34828461.69	34828461.85	0.0142	0.0117 *
Moon	90645-12-31 19:41 G	34828831.08	34828831.32	34828831.58	0.0141	0.0032
Earth	90645-12-31 23:31 G	34828831.23	34828831.48	34828831.73	0.0141	0.0033 *
Earth	90647-01-05 20:53 G	34829201.14	34829201.37	34829201.62	0.0141	0.0045
Moon	90647-01-06 00:43 G	34829201.29	34829201.53	34829201.76	0.0141	0.0049 *
Moon	90648-01-10 13:55 G	34829570.96	34829571.08	34829571.25	0.0141	0.0116
Earth	90648-01-10 17:46 G	34829571.13	34829571.24	34829571.38	0.0141	0.0123 *
Venus	90653-04-14 11:31 G	34831491.91	34831491.98	34831492.07	0.0139	0.0128
Venus	90653-11-26 19:55 G	34831718.18	34831718.33	34831718.48	0.0139	0.0099
Venus	90654-07-11 03:22 G	34831944.47	34831944.64	34831944.84	0.0138	0.0071
Venus	90655-02-22 11:17 G	34832170.77	34832170.97	34832171.18	0.0138	0.0041
Venus	90655-10-06 18:43 G	34832397.07	34832397.28	34832397.50	0.0138	0.0013
Venus	90656-05-20 02:10 G	34832623.38	34832623.59	34832623.81	0.0138	0.0016
Venus	90657-01-01 09:07 G	34832849.69	34832849.88	34832850.10	0.0138	0.0045
Venus	90657-08-15 16:05 G	34833076.00	34833076.17	34833076.37	0.0137	0.0073
Venus	90658-03-29 23:17 G	34833302.32	34833302.47	34833302.62	0.0137	0.0100
Venus	90658-11-11 05:31 G	34833528.67	34833528.73	34833528.83	0.0137	0.0127
Mercury	90668-03-16 22:48 G	34836942.43	34836942.45	34836942.49	0.0135	0.0133
Mercury	90668-06-13 06:14 G	34837030.64	34837030.76	34837030.88	0.0135	0.0106
Mercury	90668-09-09 13:26 G	34837118.90	34837119.06	34837119.21	0.0135	0.0079
Mercury	90668-12-06 20:24 G	34837207.18	34837207.35	34837207.53	0.0135	0.0053
Mars	90669-02-22 18:14 G	34837284.98	34837285.26	34837285.54	0.0135	0.0011
Mercury	90669-03-05 03:36 G	34837295.46	34837295.65	34837295.84	0.0135	0.0026

Mercury	90669-06-01 10:34 G	34837383.75	34837383.94	34837384.13	0.0135	0.0003
Mercury	90669-08-28 17:46 G	34837472.05	34837472.24	34837472.42	0.0135	0.0027
Mercury	90669-11-25 00:29 G	34837560.35	34837560.52	34837560.70	0.0135	0.0053
Mercury	90670-02-21 07:26 G	34837648.67	34837648.81	34837648.97	0.0135	0.0079
Mercury	90670-05-20 14:10 G	34837736.99	34837737.09	34837737.22	0.0135	0.0106
Mercury	90670-08-16 21:22 G	34837825.35	34837825.39	34837825.43	0.0135	0.0131
Earth	90688-06-25 17:17 G	34844348.07	34844348.22	34844348.41	0.0137	0.0101
Moon	90688-06-25 20:24 G	34844348.18	34844348.35	34844348.56	0.0137	0.0094 *
Moon	90689-06-29 23:31 G	34844717.25	34844717.48	34844717.73	0.0137	0.0039
Earth	90689-06-30 03:07 G	34844717.39	34844717.63	34844717.88	0.0137	0.0031 *
Earth	90690-07-04 13:26 G	34845086.81	34845087.06	34845087.30	0.0137	0.0039
Moon	90690-07-04 16:34 G	34845086.96	34845087.19	34845087.44	0.0137	0.0046 *
Moon	90691-07-08 20:24 G	34845456.20	34845456.35	34845456.52	0.0137	0.0106
Earth	90691-07-09 00:00 G	34845456.35	34845456.50	34845456.66	0.0137	0.0109 *
Venus	90697-04-07 15:07 G	34847556.03	34847556.13	34847556.26	0.0139	0.0117
Venus	90697-11-20 00:29 G	34847782.36	34847782.52	34847782.70	0.0139	0.0088
Venus	90698-07-04 10:05 G	34848008.73	34848008.92	34848009.13	0.0140	0.0059
Venus	90699-02-15 19:55 G	34848235.12	34848235.33	34848235.55	0.0140	0.0029
Venus	90699-09-30 06:00 G	34848461.53	34848461.75	34848461.97	0.0140	0.0003
Venus	90700-05-14 16:05 G	34848687.96	34848688.17	34848688.39	0.0140	0.0032
Venus	90700-12-27 02:24 G	34848914.40	34848914.60	34848914.80	0.0141	0.0063
Venus	90701-08-10 12:29 G	34849140.87	34849141.02	34849141.20	0.0141	0.0094
Venus	90702-03-24 23:02 G	34849367.37	34849367.46	34849367.58	0.0141	0.0124
Mercury	90710-09-15 09:50 G	34852463.85	34852463.91	34852463.98	0.0143	0.0122
Mercury	90710-12-12 13:26 G	34852551.97	34852552.06	34852552.16	0.0143	0.0101
Mercury	90711-03-10 17:02 G	34852640.10	34852640.21	34852640.32	0.0143	0.0079
Mercury	90711-06-06 20:38 G	34852728.24	34852728.36	34852728.49	0.0143	0.0057
Mars	90711-06-21 13:41 G	34852742.78	34852743.07	34852743.38	0.0143	0.0068
Mercury	90711-09-03 00:14 G	34852816.39	34852816.51	34852816.64	0.0143	0.0035
Mercury	90711-11-30 04:05 G	34852904.54	34852904.67	34852904.80	0.0143	0.0012

Mercury	90712-02-26 07:41 G	34852992.69	34852992.82	34852992.95	0.0143	0.0010
Mercury	90712-05-24 11:17 G	34853080.84	34853080.97	34853081.10	0.0143	0.0033
Mercury	90712-08-20 15:07 G	34853169.00	34853169.13	34853169.25	0.0143	0.0055
Mercury	90712-11-16 18:43 G	34853257.17	34853257.28	34853257.40	0.0143	0.0078
Mercury	90713-02-12 22:34 G	34853345.34	34853345.44	34853345.53	0.0143	0.0100
Mercury	90713-05-12 02:10 G	34853433.53	34853433.59	34853433.66	0.0143	0.0123
Earth	90728-12-28 10:19 G	34859142.78	34859142.93	34859143.11	0.0142	0.0108
Moon	90728-12-28 13:26 G	34859142.90	34859143.06	34859143.26	0.0142	0.0102 *
Moon	90730-01-02 05:17 G	34859512.48	34859512.72	34859512.98	0.0141	0.0029
Earth	90730-01-02 08:53 G	34859512.63	34859512.87	34859513.13	0.0141	0.0029 *
Earth	90731-01-07 06:29 G	34859882.54	34859882.77	34859883.02	0.0141	0.0050
Moon	90731-01-07 10:05 G	34859882.69	34859882.92	34859883.18	0.0141	0.0048 *
Moon	90732-01-12 00:00 G	34860252.43	34860252.50	34860252.59	0.0141	0.0134
Earth	90732-01-12 03:22 G	34860252.55	34860252.64	34860252.76	0.0141	0.0128 *
Venus	90737-07-28 04:05 G	34862276.56	34862276.67	34862276.81	0.0139	0.0112
Venus	90738-03-11 12:14 G	34862502.84	34862503.01	34862503.19	0.0139	0.0083
Venus	90738-10-23 19:55 G	34862729.14	34862729.33	34862729.54	0.0138	0.0054
Venus	90739-06-07 03:50 G	34862955.45	34862955.66	34862955.87	0.0138	0.0025
Venus	90740-01-19 11:17 G	34863181.75	34863181.97	34863182.19	0.0138	0.0003
Venus	90740-09-01 18:14 G	34863408.06	34863408.26	34863408.48	0.0138	0.0032
Venus	90741-04-16 01:26 G	34863634.37	34863634.56	34863634.76	0.0138	0.0060
Venus	90741-11-28 08:24 G	34863860.70	34863860.85	34863861.03	0.0137	0.0087
Venus	90742-07-12 15:22 G	34864087.03	34864087.14	34864087.26	0.0137	0.0114
Mercury	90752-04-07 05:31 G	34867643.68	34867643.73	34867643.81	0.0135	0.0127
Mercury	90752-07-04 12:43 G	34867731.92	34867732.03	34867732.17	0.0135	0.0100
Mercury	90752-09-30 20:10 G	34867820.19	34867820.34	34867820.51	0.0135	0.0073
Mercury	90752-12-28 03:22 G	34867908.46	34867908.64	34867908.82	0.0135	0.0046
Mercury	90753-03-26 10:19 G	34867996.75	34867996.93	34867997.13	0.0135	0.0020
Mercury	90753-06-22 17:31 G	34868085.04	34868085.23	34868085.42	0.0135	0.0007
Mercury	90753-09-19 00:29 G	34868173.34	34868173.52	34868173.71	0.0135	0.0034

Mars	90753-10-18 19:55 G	34868203.11	34868203.33	34868203.55	0.0135	0.0082
Mercury	90753-12-16 07:26 G	34868261.65	34868261.81	34868261.98	0.0135	0.0060
Mercury	90754-03-14 14:24 G	34868349.96	34868350.10	34868350.25	0.0135	0.0086
Mercury	90754-06-10 21:07 G	34868438.29	34868438.38	34868438.50	0.0135	0.0112
Earth	90772-06-27 01:26 G	34875029.40	34875029.56	34875029.75	0.0136	0.0097
Moon	90772-06-27 04:48 G	34875029.55	34875029.70	34875029.87	0.0136	0.0104 *
Moon	90773-07-01 08:24 G	34875398.61	34875398.85	34875399.10	0.0137	0.0020
Earth	90773-07-01 11:17 G	34875398.72	34875398.97	34875399.22	0.0137	0.0028 *
Earth	90774-07-05 21:07 G	34875768.14	34875768.38	34875768.62	0.0137	0.0042
Moon	90774-07-06 00:29 G	34875768.28	34875768.52	34875768.77	0.0137	0.0036 *
Moon	90775-07-10 03:50 G	34876137.56	34876137.66	34876137.81	0.0137	0.0118
Earth	90775-07-10 07:12 G	34876137.68	34876137.80	34876137.97	0.0137	0.0113 *
Venus	90780-12-06 21:07 G	34878114.32	34878114.38	34878114.46	0.0139	0.0131
Venus	90781-07-21 06:14 G	34878340.63	34878340.76	34878340.92	0.0139	0.0103
Venus	90782-03-04 15:36 G	34878566.97	34878567.15	34878567.35	0.0140	0.0073
Venus	90782-10-17 01:12 G	34878793.35	34878793.55	34878793.77	0.0140	0.0044
Venus	90783-05-31 11:17 G	34879019.75	34879019.97	34879020.19	0.0140	0.0013
Venus	90784-01-12 21:07 G	34879246.17	34879246.38	34879246.60	0.0140	0.0017
Venus	90784-08-26 06:58 G	34879472.60	34879472.79	34879473.01	0.0140	0.0048
Venus	90785-04-09 17:17 G	34879699.05	34879699.22	34879699.41	0.0141	0.0078
Venus	90785-11-22 03:50 G	34879925.53	34879925.66	34879925.80	0.0141	0.0108
Venus	90786-07-06 14:10 G	34880152.08	34880152.09	34880152.15	0.0141	0.0139
Mercury	90794-07-09 12:58 G	34883077.02	34883077.04	34883077.06	0.0143	0.0141
Mercury	90794-10-05 16:19 G	34883165.12	34883165.18	34883165.26	0.0143	0.0120
Mercury	90795-01-01 19:55 G	34883253.24	34883253.33	34883253.43	0.0143	0.0098
Mercury	90795-03-30 23:46 G	34883341.38	34883341.49	34883341.60	0.0143	0.0076
Mercury	90795-06-27 03:22 G	34883429.52	34883429.64	34883429.76	0.0143	0.0054
Mercury	90795-09-23 06:58 G	34883517.66	34883517.79	34883517.92	0.0143	0.0032
Mercury	90795-12-20 10:34 G	34883605.81	34883605.94	34883606.08	0.0143	0.0011
Mars	90796-02-15 18:29 G	34883662.99	34883663.27	34883663.60	0.0143	0.0067

Mercury	90796-03-17 14:24 G	34883693.96	34883694.10	34883694.23	0.0143	0.0013
Mercury	90796-06-13 18:00 G	34883782.12	34883782.25	34883782.38	0.0143	0.0035
Mercury	90796-09-09 21:36 G	34883870.28	34883870.40	34883870.53	0.0143	0.0058
Mercury	90796-12-07 01:26 G	34883958.45	34883958.56	34883958.67	0.0143	0.0080
Mercury	90797-03-05 05:02 G	34884046.62	34884046.71	34884046.81	0.0143	0.0103
Mercury	90797-06-01 08:53 G	34884134.81	34884134.87	34884134.94	0.0143	0.0126
Earth	90812-12-28 17:17 G	34889824.05	34889824.22	34889824.40	0.0142	0.0105
Moon	90812-12-28 20:10 G	34889824.20	34889824.34	34889824.53	0.0142	0.0111 *
Moon	90814-01-02 12:29 G	34890193.77	34890194.02	34890194.27	0.0141	0.0022
Earth	90814-01-02 15:36 G	34890193.91	34890194.15	34890194.41	0.0141	0.0026 *
Earth	90815-01-07 13:26 G	34890563.83	34890564.06	34890564.30	0.0141	0.0053
Moon	90815-01-07 17:02 G	34890563.98	34890564.21	34890564.45	0.0141	0.0056 *
Moon	90816-01-12 06:29 G	34890933.68	34890933.77	34890933.90	0.0141	0.0126
Earth	90816-01-12 10:34 G	34890933.86	34890933.94	34890934.04	0.0141	0.0131 *
Venus	90821-03-27 11:17 G	34892834.89	34892834.97	34892835.07	0.0139	0.0125
Venus	90821-11-08 19:26 G	34893061.17	34893061.31	34893061.48	0.0139	0.0097
Venus	90822-06-23 03:36 G	34893287.47	34893287.65	34893287.84	0.0138	0.0068
Venus	90823-02-04 11:17 G	34893513.77	34893513.97	34893514.18	0.0138	0.0039
Venus	90823-09-18 18:58 G	34893740.07	34893740.29	34893740.50	0.0138	0.0010
Venus	90824-05-02 02:24 G	34893966.38	34893966.60	34893966.81	0.0138	0.0018
Venus	90824-12-14 09:36 G	34894192.70	34894192.90	34894193.11	0.0138	0.0046
Venus	90825-07-28 16:48 G	34894419.02	34894419.20	34894419.38	0.0137	0.0074
Venus	90826-03-11 23:17 G	34894645.34	34894645.47	34894645.63	0.0137	0.0102
Venus	90826-10-24 06:00 G	34894871.69	34894871.75	34894871.83	0.0137	0.0128
Mercury	90836-04-27 12:14 G	34898344.94	34898345.01	34898345.10	0.0135	0.0121
Mars	90836-07-13 21:50 G	34898422.18	34898422.41	34898422.68	0.0135	0.0059
Mercury	90836-07-24 19:41 G	34898433.18	34898433.32	34898433.45	0.0135	0.0094
Mercury	90836-10-21 02:38 G	34898521.45	34898521.61	34898521.78	0.0135	0.0068
Mercury	90837-01-17 09:50 G	34898609.73	34898609.91	34898610.10	0.0135	0.0041
Mercury	90837-04-15 17:02 G	34898698.02	34898698.21	34898698.40	0.0135	0.0014

Mercury	90837-07-13 00:00 G	34898786.31	34898786.50	34898786.69	0.0135	0.0013
Mercury	90837-10-09 06:58 G	34898874.61	34898874.79	34898874.98	0.0135	0.0039
Mercury	90838-01-05 13:55 G	34898962.92	34898963.08	34898963.25	0.0135	0.0065
Mercury	90838-04-03 20:53 G	34899051.24	34899051.37	34899051.51	0.0135	0.0091
Mercury	90838-07-01 03:50 G	34899139.57	34899139.66	34899139.76	0.0135	0.0117
Earth	90856-06-27 09:50 G	34905710.74	34905710.91	34905711.10	0.0136	0.0094
Moon	90856-06-27 12:00 G	34905710.82	34905711.00	34905711.21	0.0136	0.0088 *
Moon	90857-07-01 16:34 G	34906079.95	34906080.19	34906080.43	0.0137	0.0032
Earth	90857-07-01 19:26 G	34906080.06	34906080.31	34906080.56	0.0137	0.0025 *
Earth	90858-07-06 05:02 G	34906449.48	34906449.71	34906449.96	0.0137	0.0045
Moon	90858-07-06 07:55 G	34906449.60	34906449.83	34906450.07	0.0137	0.0052 *
Moon	90859-07-10 12:29 G	34906818.90	34906819.02	34906819.18	0.0137	0.0112
Earth	90859-07-10 15:36 G	34906819.03	34906819.15	34906819.29	0.0137	0.0116 *
Venus	90865-03-20 12:29 G	34908898.91	34908899.02	34908899.15	0.0139	0.0116
Venus	90865-11-01 21:36 G	34909125.25	34909125.40	34909125.59	0.0139	0.0088
Venus	90866-06-16 07:26 G	34909351.62	34909351.81	34909352.02	0.0140	0.0058
Venus	90867-01-28 17:02 G	34909578.00	34909578.21	34909578.43	0.0140	0.0028
Venus	90867-09-12 02:53 G	34909804.40	34909804.62	34909804.84	0.0140	0.0002
Venus	90868-04-25 12:43 G	34910030.82	34910031.03	34910031.25	0.0140	0.0033
Venus	90868-12-07 22:48 G	34910257.26	34910257.45	34910257.66	0.0140	0.0063
Venus	90869-07-22 08:53 G	34910483.73	34910483.87	34910484.05	0.0141	0.0094
Venus	90870-03-05 19:26 G	34910710.22	34910710.31	34910710.43	0.0141	0.0124
Mercury	90878-07-29 19:41 G	34913778.29	34913778.32	34913778.35	0.0143	0.0138
Mercury	90878-10-25 23:02 G	34913866.40	34913866.46	34913866.55	0.0143	0.0117
Mercury	90879-01-22 02:38 G	34913954.52	34913954.61	34913954.72	0.0143	0.0096
Mercury	90879-04-20 06:29 G	34914042.66	34914042.77	34914042.89	0.0143	0.0073
Mercury	90879-07-17 10:05 G	34914130.80	34914130.92	34914131.05	0.0143	0.0051
Mercury	90879-10-13 13:41 G	34914218.94	34914219.07	34914219.20	0.0143	0.0029
Mercury	90880-01-09 17:17 G	34914307.09	34914307.22	34914307.36	0.0143	0.0008
Mercury	90880-04-06 21:07 G	34914395.24	34914395.38	34914395.51	0.0143	0.0016

Mercury	90880-07-04 00:43 G	34914483.40	34914483.53	34914483.66	0.0143	0.0038
Mercury	90880-09-30 04:19 G	34914571.56	34914571.68	34914571.81	0.0143	0.0061
Mercury	90880-12-27 08:10 G	34914659.73	34914659.84	34914659.95	0.0143	0.0083
Mercury	90881-03-25 11:46 G	34914747.91	34914747.99	34914748.08	0.0143	0.0106
Mercury	90881-06-21 15:36 G	34914836.10	34914836.15	34914836.21	0.0143	0.0129
Earth	90896-12-28 23:02 G	34920505.30	34920505.46	34920505.65	0.0142	0.0103
Moon	90896-12-29 01:26 G	34920505.38	34920505.56	34920505.76	0.0142	0.0096 *
Moon	90898-01-02 18:43 G	34920875.03	34920875.28	34920875.53	0.0141	0.0026
Earth	90898-01-02 21:36 G	34920875.16	34920875.40	34920875.66	0.0141	0.0024 *
Earth	90899-01-07 19:12 G	34921245.08	34921245.30	34921245.55	0.0141	0.0056
Moon	90899-01-07 22:34 G	34921245.21	34921245.44	34921245.69	0.0141	0.0056 *
Moon	90900-01-12 12:43 G	34921615.01	34921615.03	34921615.09	0.0141	0.0139
Earth	90900-01-12 16:05 G	34921615.12	34921615.17	34921615.27	0.0141	0.0134
Venus	90904-11-25 18:00 G	34923393.25	34923393.25	34923393.26	0.0139	0.0139
Venus	90905-07-10 02:24 G	34923619.47	34923619.60	34923619.73	0.0139	0.0110
Venus	90906-02-21 10:05 G	34923845.76	34923845.92	34923846.11	0.0139	0.0082
Venus	90906-10-05 18:14 G	34924072.06	34924072.26	34924072.46	0.0138	0.0053
Venus	90907-05-20 01:55 G	34924298.37	34924298.58	34924298.80	0.0138	0.0024
Venus	90908-01-01 09:36 G	34924524.68	34924524.90	34924525.12	0.0138	0.0004
Venus	90908-08-14 16:48 G	34924751.00	34924751.20	34924751.42	0.0138	0.0033
Venus	90909-03-28 23:46 G	34924977.31	34924977.49	34924977.70	0.0138	0.0061
Venus	90909-11-10 07:12 G	34925203.63	34925203.80	34925203.96	0.0137	0.0088
Venus	90910-06-24 13:41 G	34925429.97	34925430.07	34925430.20	0.0137	0.0115
Mercury	90920-05-18 18:43 G	34929046.19	34929046.28	34929046.38	0.0135	0.0116
Mercury	90920-08-15 01:55 G	34929134.44	34929134.58	34929134.73	0.0135	0.0089
Mercury	90920-11-11 09:22 G	34929222.72	34929222.89	34929223.06	0.0135	0.0062
Mercury	90921-02-07 16:19 G	34929311.00	34929311.18	34929311.37	0.0135	0.0036
Mars	90921-03-08 23:17 G	34929340.20	34929340.47	34929340.75	0.0135	0.0033
Mercury	90921-05-06 23:31 G	34929399.29	34929399.48	34929399.67	0.0135	0.0009
Mercury	90921-08-03 06:29 G	34929487.59	34929487.77	34929487.96	0.0135	0.0018

Mercury	90921-10-30 13:41 G	34929575.89	34929576.07	34929576.25	0.0135	0.0044
Mercury	90922-01-26 20:24 G	34929664.20	34929664.35	34929664.52	0.0135	0.0071
Mercury	90922-04-25 03:22 G	34929752.52	34929752.64	34929752.78	0.0135	0.0097
Mercury	90922-07-22 10:05 G	34929840.86	34929840.92	34929841.01	0.0135	0.0123
Earth	90940-06-28 19:12 G	34936392.13	34936392.30	34936392.50	0.0136	0.0090
Moon	90940-06-28 21:50 G	34936392.23	34936392.41	34936392.59	0.0136	0.0096 *
Moon	90941-07-03 03:07 G	34936761.39	34936761.63	34936761.87	0.0137	0.0013
Earth	90941-07-03 04:48 G	34936761.46	34936761.70	34936761.96	0.0137	0.0021 *
Earth	90942-07-07 14:38 G	34937130.89	34937131.11	34937131.35	0.0137	0.0050
Moon	90942-07-07 17:17 G	34937130.98	34937131.22	34937131.47	0.0137	0.0043 *
Moon	90943-07-11 22:19 G	34937500.36	34937500.43	34937500.55	0.0137	0.0127
Earth	90943-07-12 00:43 G	34937500.44	34937500.53	34937500.68	0.0137	0.0121 *
Venus	90948-11-18 20:10 G	34939457.27	34939457.34	34939457.43	0.0139	0.0128
Venus	90949-07-03 05:31 G	34939683.58	34939683.73	34939683.88	0.0139	0.0100
Venus	90950-02-14 14:38 G	34939909.93	34939910.11	34939910.31	0.0139	0.0071
Venus	90950-09-29 00:14 G	34940136.30	34940136.51	34940136.72	0.0140	0.0041
Venus	90951-05-13 09:50 G	34940362.70	34940362.91	34940363.14	0.0140	0.0012
Venus	90951-12-25 19:41 G	34940589.11	34940589.32	34940589.54	0.0140	0.0019
Venus	90952-08-08 05:46 G	34940815.54	34940815.74	34940815.95	0.0140	0.0049
Venus	90953-03-22 15:36 G	34941041.98	34941042.15	34941042.34	0.0141	0.0079
Venus	90953-11-04 01:55 G	34941268.46	34941268.58	34941268.73	0.0141	0.0110
Venus	90954-06-18 12:29 G	34941495.01	34941495.02	34941495.06	0.0141	0.0140
Mercury	90962-08-20 02:53 G	34944479.58	34944479.62	34944479.67	0.0143	0.0133
Mercury	90962-11-16 06:14 G	34944567.69	34944567.76	34944567.85	0.0143	0.0112
Mercury	90963-02-12 09:50 G	34944655.82	34944655.91	34944656.02	0.0143	0.0090
Mercury	90963-05-11 13:26 G	34944743.95	34944744.06	34944744.19	0.0143	0.0069
Mars	90963-07-03 00:58 G	34944796.20	34944796.54	34944796.88	0.0143	0.0016
Mercury	90963-08-07 17:17 G	34944832.09	34944832.22	34944832.35	0.0143	0.0046
Mercury	90963-11-03 20:53 G	34944920.24	34944920.37	34944920.50	0.0143	0.0024
Mercury	90964-01-31 00:29 G	34945008.39	34945008.52	34945008.66	0.0143	0.0003

Mercury	90964-04-28 04:05 G	34945096.54	34945096.67	34945096.81	0.0143	0.0021
Mercury	90964-07-25 07:41 G	34945184.70	34945184.82	34945184.95	0.0143	0.0044
Mercury	90964-10-21 11:31 G	34945272.86	34945272.98	34945273.10	0.0143	0.0066
Mercury	90965-01-17 15:07 G	34945361.03	34945361.13	34945361.24	0.0143	0.0088
Mercury	90965-04-15 18:58 G	34945449.21	34945449.29	34945449.37	0.0143	0.0111
Mercury	90965-07-12 22:34 G	34945537.40	34945537.44	34945537.49	0.0143	0.0134
Earth	90980-12-30 06:29 G	34951186.61	34951186.77	34951186.97	0.0142	0.0100
Moon	90980-12-30 09:07 G	34951186.71	34951186.88	34951187.06	0.0142	0.0106 *
Moon	90982-01-04 03:07 G	34951556.38	34951556.63	34951556.88	0.0141	0.0015
Earth	90982-01-04 05:17 G	34951556.47	34951556.72	34951556.98	0.0141	0.0020 *
Earth	90983-01-09 03:07 G	34951926.40	34951926.63	34951926.86	0.0141	0.0059
Moon	90983-01-09 06:00 G	34951926.52	34951926.75	34951926.99	0.0141	0.0061 *
Moon	90984-01-13 20:53 G	34952296.30	34952296.37	34952296.46	0.0141	0.0133
Earth	90984-01-14 00:14 G	34952296.46	34952296.51	34952296.57	0.0141	0.0137 *
Venus	90989-03-09 08:53 G	34954177.79	34954177.87	34954177.99	0.0139	0.0124
Venus	90989-10-21 17:31 G	34954404.08	34954404.23	34954404.39	0.0139	0.0095
Venus	90990-06-05 01:26 G	34954630.38	34954630.56	34954630.76	0.0139	0.0066
Venus	90991-01-17 09:22 G	34954856.68	34954856.89	34954857.10	0.0138	0.0038
Venus	90991-08-31 17:02 G	34955082.99	34955083.21	34955083.43	0.0138	0.0009
Venus	90992-04-14 00:29 G	34955309.31	34955309.52	34955309.73	0.0138	0.0019
Venus	90992-11-26 07:41 G	34955535.62	34955535.82	34955536.03	0.0138	0.0047
Venus	90993-07-10 14:38 G	34955761.94	34955762.11	34955762.30	0.0138	0.0075
Venus	90994-02-21 21:22 G	34955988.26	34955988.39	34955988.55	0.0137	0.0102
Venus	90994-10-06 03:50 G	34956214.61	34956214.66	34956214.75	0.0137	0.0130

92ND MILLENNIUM CE

This is a list of transits visible from Uranus in the 92nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	91003-12-04 00:00	G	34959559.36	34959559.50	34959559.69	0.0135	0.0109	
Mercury	91004-06-09 01:12	G	34959747.45	34959747.55	34959747.66	0.0135	0.0111	
Mercury	91004-09-05 08:24	G	34959835.70	34959835.85	34959836.00	0.0135	0.0084	
Mercury	91004-12-02 15:22	G	34959923.98	34959924.14	34959924.32	0.0135	0.0058	
Mercury	91005-02-28 22:48	G	34960012.26	34960012.45	34960012.64	0.0135	0.0031	
Mercury	91005-05-28 06:00	G	34960100.55	34960100.75	34960100.94	0.0135	0.0005	
Mercury	91005-08-24 12:58	G	34960188.85	34960189.04	34960189.23	0.0135	0.0022	
Mars	91005-11-01 21:50	G	34960258.32	34960258.41	34960258.54	0.0135	0.0124	
Mercury	91005-11-20 19:55	G	34960277.16	34960277.33	34960277.51	0.0135	0.0049	
Mercury	91006-02-17 02:53	G	34960365.47	34960365.62	34960365.78	0.0135	0.0075	
Mercury	91006-05-16 09:50	G	34960453.79	34960453.91	34960454.04	0.0135	0.0101	
Mercury	91006-08-12 16:34	G	34960542.14	34960542.19	34960542.26	0.0135	0.0127	
Earth	91024-06-30 04:34	G	34967073.50	34967073.69	34967073.89	0.0136	0.0086	
Moon	91024-06-30 05:46	G	34967073.54	34967073.74	34967073.95	0.0136	0.0081	*
Moon	91025-07-04 12:14	G	34967442.78	34967443.01	34967443.26	0.0137	0.0024	
Earth	91025-07-04 14:10	G	34967442.85	34967443.09	34967443.34	0.0137	0.0017	*
Earth	91026-07-09 00:00	G	34967812.28	34967812.50	34967812.74	0.0137	0.0054	
Moon	91026-07-09 01:41	G	34967812.35	34967812.57	34967812.81	0.0137	0.0061	*
Moon	91027-07-13 08:53	G	34968181.76	34968181.87	34968181.99	0.0137	0.0120	
Earth	91027-07-13 10:48	G	34968181.86	34968181.95	34968182.06	0.0137	0.0125	*
Venus	91033-03-03 12:58	G	34970241.92	34970242.04	34970242.18	0.0139	0.0112	
Venus	91033-10-15 22:05	G	34970468.26	34970468.42	34970468.61	0.0139	0.0084	
Venus	91034-05-30 07:55	G	34970694.63	34970694.83	34970695.03	0.0140	0.0054	
Venus	91035-01-11 17:17	G	34970921.01	34970921.22	34970921.44	0.0140	0.0025	
Venus	91035-08-26 03:07	G	34971147.41	34971147.63	34971147.85	0.0140	0.0005	

Venus	91036-04-08 12:58 G	34971373.83	34971374.04	34971374.26	0.0140	0.0035
Venus	91036-11-20 23:02 G	34971600.27	34971600.46	34971600.66	0.0140	0.0066
Venus	91037-07-05 09:22 G	34971826.74	34971826.89	34971827.06	0.0141	0.0096
Venus	91038-02-16 19:55 G	34972053.24	34972053.33	34972053.43	0.0141	0.0126
Jupiter	91044-02-17 09:22 G	34974244.39	34974244.89	34974245.40	0.0142	0.0026
Mercury	91046-09-10 10:19 G	34975180.88	34975180.93	34975180.99	0.0143	0.0127
Mercury	91046-12-07 13:55 G	34975269.00	34975269.08	34975269.17	0.0143	0.0105
Mercury	91047-03-05 17:31 G	34975357.13	34975357.23	34975357.34	0.0143	0.0083
Mercury	91047-06-01 21:07 G	34975445.26	34975445.38	34975445.50	0.0143	0.0061
Mercury	91047-08-29 00:43 G	34975533.41	34975533.53	34975533.66	0.0143	0.0039
Mercury	91047-11-25 04:19 G	34975621.55	34975621.68	34975621.82	0.0143	0.0017
Mercury	91048-02-21 08:10 G	34975709.70	34975709.84	34975709.97	0.0143	0.0007
Mars	91048-02-28 18:43 G	34975717.13	34975717.28	34975717.45	0.0143	0.0126
Mercury	91048-05-19 11:46 G	34975797.86	34975797.99	34975798.12	0.0143	0.0028
Mercury	91048-08-15 15:22 G	34975886.01	34975886.14	34975886.27	0.0143	0.0050
Mercury	91048-11-11 18:58 G	34975974.18	34975974.29	34975974.41	0.0143	0.0073
Mercury	91049-02-07 22:34 G	34976062.35	34976062.44	34976062.55	0.0143	0.0095
Mercury	91049-05-07 02:24 G	34976150.53	34976150.60	34976150.68	0.0143	0.0118
Mercury	91049-08-03 06:00 G	34976238.74	34976238.75	34976238.78	0.0143	0.0141
Earth	91064-12-31 16:48 G	34981868.02	34981868.20	34981868.40	0.0142	0.0095
Moon	91064-12-31 18:00 G	34981868.05	34981868.25	34981868.47	0.0142	0.0087 *
Moon	91066-01-05 13:26 G	34982237.81	34982238.06	34982238.30	0.0141	0.0019
Earth	91066-01-05 15:22 G	34982237.89	34982238.14	34982238.40	0.0141	0.0015 *
Earth	91067-01-10 12:43 G	34982607.82	34982608.03	34982608.28	0.0141	0.0065
Moon	91067-01-10 15:36 G	34982607.92	34982608.15	34982608.38	0.0141	0.0065 *
Venus	91072-11-07 17:31 G	34984736.20	34984736.23	34984736.28	0.0139	0.0136
Venus	91073-06-22 01:41 G	34984962.45	34984962.57	34984962.72	0.0139	0.0108
Venus	91074-02-03 10:05 G	34985188.74	34985188.92	34985189.10	0.0139	0.0079
Venus	91074-09-17 17:46 G	34985415.04	34985415.24	34985415.45	0.0138	0.0051
Venus	91075-05-02 01:26 G	34985641.35	34985641.56	34985641.78	0.0138	0.0022

Venus	91075-12-14 09:07 G	34985867.67	34985867.88	34985868.10	0.0138	0.0007
Venus	91076-07-27 16:34 G	34986093.98	34986094.19	34986094.40	0.0138	0.0034
Venus	91077-03-10 23:31 G	34986320.29	34986320.48	34986320.68	0.0138	0.0062
Venus	91077-10-23 06:14 G	34986546.61	34986546.76	34986546.94	0.0137	0.0090
Venus	91078-06-06 13:12 G	34986772.94	34986773.05	34986773.17	0.0137	0.0117
Mercury	91088-04-02 00:43 G	34990360.50	34990360.53	34990360.57	0.0135	0.0132
Mercury	91088-06-29 07:55 G	34990448.72	34990448.83	34990448.96	0.0135	0.0105
Mars	91088-07-28 02:10 G	34990477.31	34990477.59	34990477.87	0.0135	0.0016
Mercury	91088-09-25 15:07 G	34990536.98	34990537.13	34990537.29	0.0135	0.0078
Mercury	91088-12-22 22:05 G	34990625.26	34990625.42	34990625.61	0.0135	0.0052
Mercury	91089-03-21 05:31 G	34990713.54	34990713.73	34990713.92	0.0135	0.0025
Mercury	91089-06-17 12:43 G	34990801.84	34990802.03	34990802.22	0.0135	0.0002
Mercury	91089-09-13 19:41 G	34990890.14	34990890.32	34990890.51	0.0135	0.0029
Mercury	91089-12-11 02:38 G	34990978.44	34990978.61	34990978.79	0.0135	0.0055
Mercury	91090-03-09 09:36 G	34991066.76	34991066.90	34991067.06	0.0135	0.0081
Mercury	91090-06-05 16:34 G	34991155.08	34991155.19	34991155.31	0.0135	0.0107
Mercury	91090-09-01 23:31 G	34991243.46	34991243.48	34991243.51	0.0135	0.0133
Earth	91108-07-01 14:24 G	34997754.91	34997755.10	34997755.31	0.0137	0.0082
Moon	91108-07-01 15:36 G	34997754.96	34997755.15	34997755.36	0.0137	0.0087 *
Moon	91109-07-05 23:31 G	34998124.24	34998124.48	34998124.72	0.0137	0.0005
Earth	91109-07-06 00:14 G	34998124.26	34998124.51	34998124.76	0.0137	0.0012 *
Earth	91110-07-10 10:05 G	34998493.70	34998493.92	34998494.16	0.0137	0.0059
Moon	91110-07-10 11:31 G	34998493.75	34998493.98	34998494.23	0.0137	0.0052 *
Moon	91111-07-14 19:41 G	34998863.30	34998863.32	34998863.34	0.0137	0.0137
Earth	91111-07-14 20:24 G	34998863.30	34998863.35	34998863.46	0.0137	0.0131 *
Venus	91116-11-01 20:53 G	35000800.29	35000800.37	35000800.48	0.0139	0.0125
Venus	91117-06-16 06:00 G	35001026.61	35001026.75	35001026.92	0.0139	0.0096
Venus	91118-01-28 15:36 G	35001252.96	35001253.15	35001253.34	0.0140	0.0067
Venus	91118-09-12 00:58 G	35001479.33	35001479.54	35001479.75	0.0140	0.0038
Venus	91119-04-26 10:48 G	35001705.73	35001705.95	35001706.16	0.0140	0.0008

Venus	91119-12-08 20:24 G	35001932.14	35001932.35	35001932.57	0.0140	0.0022
Venus	91120-07-22 06:29 G	35002158.57	35002158.77	35002158.98	0.0140	0.0052
Venus	91121-03-05 16:34 G	35002385.02	35002385.19	35002385.37	0.0141	0.0083
Venus	91121-10-18 02:53 G	35002611.50	35002611.62	35002611.76	0.0141	0.0113
Mercury	91130-07-05 14:10 G	35005794.09	35005794.09	35005794.11	0.0143	0.0142
Mercury	91130-10-01 17:46 G	35005882.18	35005882.24	35005882.32	0.0143	0.0120
Mars	91130-11-19 00:00 G	35005930.23	35005930.50	35005930.77	0.0143	0.0087
Mercury	91130-12-28 21:22 G	35005970.30	35005970.39	35005970.49	0.0143	0.0099
Mercury	91131-03-27 01:12 G	35006058.44	35006058.55	35006058.66	0.0143	0.0076
Mercury	91131-06-23 04:48 G	35006146.57	35006146.70	35006146.82	0.0143	0.0054
Mercury	91131-09-19 08:24 G	35006234.72	35006234.85	35006234.98	0.0143	0.0032
Mercury	91131-12-16 12:00 G	35006322.86	35006323.00	35006323.13	0.0143	0.0010
Mercury	91132-03-13 15:36 G	35006411.02	35006411.15	35006411.28	0.0143	0.0012
Mercury	91132-06-09 19:12 G	35006499.17	35006499.30	35006499.43	0.0143	0.0035
Mercury	91132-09-05 22:48 G	35006587.33	35006587.45	35006587.58	0.0143	0.0057
Mercury	91132-12-03 02:24 G	35006675.50	35006675.60	35006675.72	0.0143	0.0080
Mercury	91133-03-01 06:00 G	35006763.67	35006763.75	35006763.86	0.0143	0.0103
Mercury	91133-05-28 09:50 G	35006851.85	35006851.91	35006851.98	0.0143	0.0125
Earth	91149-01-02 04:34 G	35012549.50	35012549.69	35012549.91	0.0142	0.0088
Moon	91149-01-02 06:00 G	35012549.56	35012549.75	35012549.95	0.0142	0.0095 *
Moon	91150-01-07 02:10 G	35012919.34	35012919.59	35012919.84	0.0141	0.0003
Earth	91150-01-07 03:07 G	35012919.38	35012919.63	35012919.89	0.0141	0.0009 *
Earth	91151-01-12 00:43 G	35013289.32	35013289.53	35013289.76	0.0141	0.0071
Moon	91151-01-12 02:38 G	35013289.40	35013289.61	35013289.85	0.0141	0.0071 *
Venus	91157-02-20 10:48 G	35015520.86	35015520.95	35015521.08	0.0139	0.0120
Venus	91157-10-04 19:12 G	35015747.14	35015747.30	35015747.47	0.0139	0.0091
Venus	91158-05-19 03:07 G	35015973.44	35015973.63	35015973.83	0.0138	0.0063
Venus	91158-12-31 11:02 G	35016199.75	35016199.96	35016200.17	0.0138	0.0034
Venus	91159-08-14 18:29 G	35016426.06	35016426.27	35016426.49	0.0138	0.0007
Venus	91160-03-28 01:55 G	35016652.37	35016652.58	35016652.79	0.0138	0.0022

Venus	91160-11-09 09:07 G	35016878.68	35016878.88	35016879.08	0.0138	0.0050
Venus	91161-06-23 15:50 G	35017104.99	35017105.16	35017105.35	0.0137	0.0078
Venus	91162-02-04 22:48 G	35017331.32	35017331.45	35017331.59	0.0137	0.0105
Venus	91162-09-19 05:31 G	35017557.67	35017557.73	35017557.79	0.0137	0.0131
Jupiter	91168-12-01 04:05 G	35019822.23	35019822.67	35019823.16	0.0135	0.0062
Mercury	91172-04-23 07:26 G	35021061.75	35021061.81	35021061.89	0.0135	0.0126
Mercury	91172-07-20 14:38 G	35021149.99	35021150.11	35021150.25	0.0135	0.0099
Mercury	91172-10-16 21:50 G	35021238.26	35021238.41	35021238.58	0.0135	0.0072
Mercury	91173-01-13 05:17 G	35021326.54	35021326.72	35021326.90	0.0135	0.0045
Mars	91173-03-23 03:07 G	35021395.41	35021395.63	35021395.87	0.0135	0.0077
Mercury	91173-04-11 12:14 G	35021414.83	35021415.01	35021415.20	0.0135	0.0019
Mercury	91173-07-08 19:26 G	35021503.12	35021503.31	35021503.50	0.0135	0.0008
Mercury	91173-10-05 02:24 G	35021591.42	35021591.60	35021591.79	0.0135	0.0035
Mercury	91174-01-01 09:22 G	35021679.73	35021679.89	35021680.07	0.0135	0.0061
Mercury	91174-03-30 16:19 G	35021768.04	35021768.18	35021768.33	0.0135	0.0087
Mercury	91174-06-26 23:17 G	35021856.38	35021856.47	35021856.58	0.0135	0.0113
Moon	91192-07-01 22:34 G	35028436.24	35028436.44	35028436.67	0.0137	0.0075
Earth	91192-07-01 22:48 G	35028436.26	35028436.45	35028436.67	0.0137	0.0078 *
Moon	91193-07-06 08:10 G	35028805.60	35028805.84	35028806.08	0.0137	0.0014
Earth	91193-07-06 08:53 G	35028805.61	35028805.87	35028806.12	0.0137	0.0008 *
Earth	91194-07-10 18:29 G	35029175.06	35029175.27	35029175.51	0.0137	0.0064
Moon	91194-07-10 18:58 G	35029175.08	35029175.29	35029175.52	0.0137	0.0070 *
Moon	91195-07-15 04:48 G	35029544.63	35029544.70	35029544.79	0.0137	0.0129
Earth	91195-07-15 05:31 G	35029544.69	35029544.73	35029544.79	0.0137	0.0135 *
Venus	91200-07-02 03:50 G	35031358.64	35031358.66	35031358.70	0.0139	0.0138
Venus	91201-02-13 12:43 G	35031584.91	35031585.03	35031585.18	0.0139	0.0110
Venus	91201-09-27 22:05 G	35031811.25	35031811.42	35031811.60	0.0140	0.0080
Venus	91202-05-12 07:41 G	35032037.62	35032037.82	35032038.02	0.0140	0.0051
Venus	91202-12-24 17:02 G	35032264.00	35032264.21	35032264.44	0.0140	0.0022
Venus	91203-08-08 02:53 G	35032490.40	35032490.62	35032490.84	0.0140	0.0008

Venus	91204-03-21 12:43 G	35032716.82	35032717.03	35032717.25	0.0140	0.0038
Venus	91204-11-02 22:48 G	35032943.27	35032943.45	35032943.65	0.0141	0.0068
Venus	91205-06-17 09:07 G	35033169.74	35033169.88	35033170.05	0.0141	0.0099
Venus	91206-01-29 19:41 G	35033396.25	35033396.32	35033396.42	0.0141	0.0129
Mercury	91214-07-25 21:36 G	35036495.37	35036495.40	35036495.44	0.0143	0.0136
Mercury	91214-10-22 01:12 G	35036583.47	35036583.55	35036583.63	0.0143	0.0114
Mercury	91215-01-18 04:48 G	35036671.60	35036671.70	35036671.80	0.0143	0.0093
Mercury	91215-04-16 08:24 G	35036759.74	35036759.85	35036759.97	0.0143	0.0071
Mercury	91215-07-13 12:00 G	35036847.88	35036848.00	35036848.13	0.0143	0.0049
Mars	91215-07-16 14:38 G	35036850.80	35036851.11	35036851.44	0.0143	0.0053
Mercury	91215-10-09 15:36 G	35036936.02	35036936.15	35036936.28	0.0143	0.0027
Mercury	91216-01-05 19:12 G	35037024.17	35037024.30	35037024.44	0.0143	0.0006
Mercury	91216-04-02 22:48 G	35037112.32	35037112.45	35037112.59	0.0143	0.0019
Mercury	91216-06-30 02:38 G	35037200.48	35037200.61	35037200.74	0.0143	0.0040
Mercury	91216-09-26 06:14 G	35037288.64	35037288.76	35037288.88	0.0143	0.0063
Mercury	91216-12-23 09:50 G	35037376.81	35037376.91	35037377.02	0.0143	0.0085
Mercury	91217-03-21 13:41 G	35037464.98	35037465.07	35037465.16	0.0144	0.0108
Mercury	91217-06-17 17:17 G	35037553.17	35037553.22	35037553.28	0.0144	0.0131
Moon	91233-01-02 16:48 G	35043230.97	35043231.20	35043231.43	0.0142	0.0074
Earth	91233-01-02 16:48 G	35043231.00	35043231.20	35043231.41	0.0142	0.0082 *
Moon	91234-01-07 14:10 G	35043600.85	35043601.09	35043601.34	0.0141	0.0007
Earth	91234-01-07 15:22 G	35043600.88	35043601.14	35043601.40	0.0141	0.0001 *
Earth	91235-01-12 12:58 G	35043970.83	35043971.04	35043971.26	0.0141	0.0078
Moon	91235-01-12 14:10 G	35043970.88	35043971.09	35043971.32	0.0141	0.0080 *
Venus	91240-10-20 20:38 G	35046079.30	35046079.36	35046079.44	0.0139	0.0131
Venus	91241-06-04 04:48 G	35046305.57	35046305.70	35046305.85	0.0139	0.0103
Venus	91242-01-16 12:43 G	35046531.86	35046532.03	35046532.22	0.0139	0.0075
Venus	91242-08-30 20:24 G	35046758.16	35046758.35	35046758.57	0.0138	0.0047
Venus	91243-04-14 04:19 G	35046984.47	35046984.68	35046984.90	0.0138	0.0018
Venus	91243-11-26 11:46 G	35047210.78	35047210.99	35047211.21	0.0138	0.0011

Venus	91244-07-09 18:58 G	35047437.09	35047437.29	35047437.50	0.0138	0.0038
Venus	91245-02-21 01:55 G	35047663.40	35047663.58	35047663.78	0.0138	0.0066
Venus	91245-10-05 08:38 G	35047889.71	35047889.86	35047890.03	0.0137	0.0093
Venus	91246-05-19 15:07 G	35048116.05	35048116.13	35048116.25	0.0137	0.0121
Mars	91255-12-17 08:53 G	35051614.63	35051614.87	35051615.13	0.0135	0.0061
Mercury	91256-05-13 14:53 G	35051763.03	35051763.12	35051763.21	0.0135	0.0118
Mercury	91256-08-09 21:50 G	35051851.28	35051851.41	35051851.56	0.0135	0.0092
Mercury	91256-11-06 05:02 G	35051939.55	35051939.71	35051939.89	0.0135	0.0065
Mercury	91257-02-02 12:14 G	35052027.83	35052028.01	35052028.20	0.0135	0.0038
Mercury	91257-05-01 19:26 G	35052116.12	35052116.31	35052116.50	0.0135	0.0011
Mercury	91257-07-29 02:24 G	35052204.42	35052204.60	35052204.80	0.0135	0.0016
Mercury	91257-10-25 09:22 G	35052292.72	35052292.89	35052293.08	0.0135	0.0042
Mercury	91258-01-21 16:19 G	35052381.03	35052381.18	35052381.36	0.0135	0.0068
Mercury	91258-04-19 23:17 G	35052469.35	35052469.47	35052469.62	0.0135	0.0094
Mercury	91258-07-17 06:14 G	35052557.69	35052557.76	35052557.85	0.0135	0.0120
Moon	91276-07-02 07:41 G	35059117.61	35059117.82	35059118.04	0.0136	0.0078
Earth	91276-07-02 07:41 G	35059117.63	35059117.82	35059118.05	0.0136	0.0075 *
Earth	91277-07-06 17:31 G	35059486.98	35059487.23	35059487.48	0.0137	0.0004
Moon	91277-07-06 18:14 G	35059487.02	35059487.26	35059487.50	0.0137	0.0002 *
Moon	91278-07-11 03:36 G	35059856.43	35059856.65	35059856.89	0.0137	0.0060
Earth	91278-07-11 03:36 G	35059856.44	35059856.65	35059856.88	0.0137	0.0067 *
Venus	91284-10-13 19:26 G	35062143.21	35062143.31	35062143.41	0.0139	0.0123
Venus	91285-05-28 04:19 G	35062369.53	35062369.68	35062369.85	0.0139	0.0094
Venus	91286-01-09 13:26 G	35062595.88	35062596.06	35062596.27	0.0140	0.0066
Venus	91286-08-23 23:02 G	35062822.25	35062822.46	35062822.68	0.0140	0.0036
Venus	91287-04-07 08:38 G	35063048.65	35063048.86	35063049.08	0.0140	0.0007
Venus	91287-11-19 18:29 G	35063275.06	35063275.27	35063275.49	0.0140	0.0024
Venus	91288-07-03 04:34 G	35063501.49	35063501.69	35063501.90	0.0140	0.0054
Venus	91289-02-14 14:38 G	35063727.95	35063728.11	35063728.30	0.0141	0.0084
Venus	91289-09-29 00:58 G	35063954.43	35063954.54	35063954.68	0.0141	0.0114

Mercury	91298-08-15 04:34 G	35067196.64	35067196.69	35067196.74	0.0143	0.0132
Mercury	91298-11-11 07:55 G	35067284.76	35067284.83	35067284.92	0.0143	0.0111
Mercury	91299-02-07 11:31 G	35067372.89	35067372.98	35067373.09	0.0143	0.0089
Mercury	91299-05-06 15:07 G	35067461.02	35067461.13	35067461.26	0.0143	0.0068
Mercury	91299-08-02 18:43 G	35067549.16	35067549.28	35067549.41	0.0143	0.0046
Mercury	91299-10-29 22:34 G	35067637.31	35067637.44	35067637.57	0.0143	0.0023
Mercury	91300-01-26 02:10 G	35067725.46	35067725.59	35067725.72	0.0143	0.0002
Mercury	91300-04-24 05:46 G	35067813.61	35067813.74	35067813.88	0.0143	0.0022
Mercury	91300-07-21 09:22 G	35067901.77	35067901.89	35067902.02	0.0143	0.0045
Mercury	91300-10-17 13:12 G	35067989.93	35067990.05	35067990.17	0.0143	0.0067
Mercury	91301-01-13 16:48 G	35068078.10	35068078.20	35068078.31	0.0144	0.0089
Mercury	91301-04-11 20:38 G	35068166.28	35068166.36	35068166.44	0.0144	0.0112
Mercury	91301-07-09 00:14 G	35068254.47	35068254.51	35068254.56	0.0144	0.0135
Moon	91317-01-04 02:24 G	35073912.39	35073912.60	35073912.81	0.0142	0.0084
Earth	91317-01-04 02:24 G	35073912.39	35073912.60	35073912.82	0.0142	0.0077 *
Earth	91318-01-09 01:12 G	35074282.29	35074282.55	35074282.81	0.0141	0.0004
Moon	91318-01-09 01:12 G	35074282.31	35074282.55	35074282.80	0.0141	0.0011 *
Earth	91319-01-13 22:48 G	35074652.25	35074652.45	35074652.67	0.0141	0.0084
Moon	91319-01-13 23:31 G	35074652.28	35074652.48	35074652.72	0.0141	0.0082 *
Venus	91325-02-02 13:26 G	35076863.96	35076864.06	35076864.20	0.0139	0.0115
Venus	91325-09-16 21:36 G	35077090.24	35077090.40	35077090.58	0.0139	0.0087
Venus	91326-05-01 05:31 G	35077316.54	35077316.73	35077316.94	0.0139	0.0059
Venus	91326-12-13 13:26 G	35077542.85	35077543.06	35077543.28	0.0138	0.0030
Venus	91327-07-27 21:07 G	35077769.16	35077769.38	35077769.59	0.0138	0.0002
Venus	91328-03-10 04:19 G	35077995.47	35077995.68	35077995.89	0.0138	0.0026
Venus	91328-10-22 11:17 G	35078221.78	35078221.97	35078222.18	0.0138	0.0054
Venus	91329-06-05 18:00 G	35078448.10	35078448.25	35078448.44	0.0137	0.0082
Venus	91330-01-18 00:58 G	35078674.43	35078674.54	35078674.69	0.0137	0.0109
Venus	91330-09-01 07:26 G	35078900.80	35078900.81	35078900.87	0.0137	0.0135
Mercury	91340-06-03 21:36 G	35082464.30	35082464.40	35082464.52	0.0135	0.0112

Mars	91340-08-11 11:31 G	35082532.71	35082532.98	35082533.26	0.0135	0.0032
Mercury	91340-08-31 04:48 G	35082552.56	35082552.70	35082552.86	0.0135	0.0085
Mercury	91340-11-27 12:00 G	35082640.84	35082641.00	35082641.18	0.0135	0.0058
Mercury	91341-02-23 19:12 G	35082729.12	35082729.30	35082729.49	0.0135	0.0031
Mercury	91341-05-23 02:24 G	35082817.41	35082817.60	35082817.79	0.0135	0.0005
Mercury	91341-08-19 09:22 G	35082905.71	35082905.89	35082906.08	0.0135	0.0022
Mercury	91341-11-15 16:34 G	35082994.01	35082994.19	35082994.37	0.0135	0.0048
Mercury	91342-02-11 23:31 G	35083082.32	35083082.48	35083082.64	0.0135	0.0074
Mercury	91342-05-11 06:29 G	35083170.64	35083170.77	35083170.89	0.0135	0.0100
Mercury	91342-08-07 13:12 G	35083258.99	35083259.05	35083259.12	0.0135	0.0126
Moon	91360-07-03 14:24 G	35089798.89	35089799.10	35089799.33	0.0136	0.0069
Earth	91360-07-03 15:50 G	35089798.96	35089799.16	35089799.39	0.0136	0.0072 *
Earth	91361-07-08 01:41 G	35090168.32	35090168.57	35090168.82	0.0137	0.0001
Moon	91361-07-08 02:24 G	35090168.36	35090168.60	35090168.85	0.0137	0.0007 *
Moon	91362-07-12 10:48 G	35090537.73	35090537.95	35090538.16	0.0137	0.0077
Earth	91362-07-12 11:46 G	35090537.78	35090537.99	35090538.21	0.0137	0.0070 *
Moon	91363-07-16 22:34 G	35090907.43	35090907.44	35090907.49	0.0137	0.0136
Venus	91368-06-14 00:58 G	35092701.52	35092701.54	35092701.60	0.0139	0.0136
Venus	91369-01-26 09:50 G	35092927.79	35092927.91	35092928.06	0.0139	0.0108
Venus	91369-09-09 18:58 G	35093154.12	35093154.29	35093154.48	0.0139	0.0080
Venus	91370-04-24 04:19 G	35093380.49	35093380.68	35093380.89	0.0140	0.0051
Venus	91370-12-06 14:10 G	35093606.87	35093607.09	35093607.30	0.0140	0.0021
Venus	91371-07-20 23:46 G	35093833.27	35093833.49	35093833.71	0.0140	0.0009
Venus	91372-03-03 09:36 G	35094059.69	35094059.90	35094060.11	0.0140	0.0038
Venus	91372-10-15 19:26 G	35094286.13	35094286.31	35094286.51	0.0140	0.0069
Venus	91373-05-30 05:46 G	35094512.60	35094512.74	35094512.91	0.0141	0.0099
Venus	91374-01-11 16:19 G	35094739.11	35094739.18	35094739.28	0.0141	0.0129
Mercury	91382-09-05 11:02 G	35097897.92	35097897.96	35097898.02	0.0143	0.0130
Mars	91382-11-30 16:19 G	35097983.86	35097984.18	35097984.52	0.0143	0.0033
Mercury	91382-12-02 14:38 G	35097986.03	35097986.11	35097986.20	0.0143	0.0109

Mercury	91383-02-28 18:14 G	35098074.16	35098074.26	35098074.37	0.0143	0.0087
Mercury	91383-05-27 22:05 G	35098162.30	35098162.42	35098162.53	0.0143	0.0065
Mercury	91383-08-24 01:41 G	35098250.44	35098250.57	35098250.69	0.0143	0.0043
Mercury	91383-11-20 05:17 G	35098338.58	35098338.72	35098338.85	0.0143	0.0021
Mercury	91384-02-16 08:53 G	35098426.73	35098426.87	35098427.00	0.0143	0.0003
Mercury	91384-05-14 12:29 G	35098514.89	35098515.02	35098515.15	0.0144	0.0024
Mercury	91384-08-10 16:05 G	35098603.05	35098603.17	35098603.30	0.0144	0.0047
Mercury	91384-11-06 19:41 G	35098691.21	35098691.32	35098691.44	0.0144	0.0070
Mercury	91385-02-02 23:31 G	35098779.38	35098779.48	35098779.58	0.0144	0.0092
Mercury	91385-05-02 03:07 G	35098867.56	35098867.63	35098867.72	0.0144	0.0115
Mercury	91385-07-29 06:43 G	35098955.76	35098955.78	35098955.83	0.0144	0.0138
Moon	91401-01-05 08:24 G	35104593.63	35104593.85	35104594.10	0.0142	0.0067
Earth	91401-01-05 10:05 G	35104593.71	35104593.92	35104594.15	0.0142	0.0074 *
Earth	91402-01-10 09:07 G	35104963.62	35104963.88	35104964.14	0.0141	0.0008
Moon	91402-01-10 09:22 G	35104963.64	35104963.89	35104964.14	0.0141	0.0002 *
Moon	91403-01-15 06:58 G	35105333.60	35105333.79	35105334.00	0.0141	0.0091
Earth	91403-01-15 06:43 G	35105333.60	35105333.78	35105334.00	0.0141	0.0088 *
Venus	91408-10-03 21:07 G	35107422.31	35107422.38	35107422.47	0.0139	0.0128
Venus	91409-05-18 05:17 G	35107648.59	35107648.72	35107648.88	0.0139	0.0100
Venus	91409-12-30 13:41 G	35107874.89	35107875.07	35107875.26	0.0139	0.0071
Venus	91410-08-13 21:36 G	35108101.19	35108101.40	35108101.61	0.0139	0.0043
Venus	91411-03-28 05:17 G	35108327.50	35108327.72	35108327.93	0.0138	0.0015
Venus	91411-11-09 12:43 G	35108553.82	35108554.03	35108554.25	0.0138	0.0013
Venus	91412-06-22 19:55 G	35108780.13	35108780.33	35108780.54	0.0138	0.0041
Venus	91413-02-04 02:53 G	35109006.45	35109006.62	35109006.82	0.0138	0.0069
Venus	91413-09-18 10:05 G	35109232.77	35109232.92	35109233.08	0.0137	0.0096
Venus	91414-05-02 16:48 G	35109459.11	35109459.20	35109459.30	0.0137	0.0123
Mars	91423-05-08 16:19 G	35112752.03	35112752.18	35112752.37	0.0135	0.0106
Mercury	91424-03-28 21:07 G	35113077.36	35113077.38	35113077.44	0.0135	0.0132
Mercury	91424-06-25 04:34 G	35113165.58	35113165.69	35113165.82	0.0135	0.0105

Mercury	91424-09-21 11:46 G	35113253.84	35113253.99	35113254.16	0.0135	0.0078
Mercury	91424-12-18 19:12 G	35113342.12	35113342.30	35113342.47	0.0135	0.0051
Mercury	91425-03-17 02:10 G	35113430.41	35113430.59	35113430.78	0.0135	0.0025
Mars	91425-04-06 14:53 G	35113451.02	35113451.12	35113451.23	0.0135	0.0124
Mercury	91425-06-13 09:22 G	35113518.70	35113518.89	35113519.08	0.0135	0.0002
Mercury	91425-09-09 16:19 G	35113607.00	35113607.18	35113607.37	0.0135	0.0029
Mercury	91425-12-06 23:17 G	35113695.31	35113695.47	35113695.65	0.0135	0.0055
Mercury	91426-03-05 06:29 G	35113783.62	35113783.77	35113783.92	0.0135	0.0081
Mercury	91426-06-01 13:12 G	35113871.95	35113872.05	35113872.17	0.0135	0.0107
Mercury	91426-08-28 20:10 G	35113960.32	35113960.34	35113960.38	0.0135	0.0133
Earth	91443-07-01 17:17 G	35120111.22	35120111.22	35120111.23	0.0136	0.0136
Moon	91444-07-05 00:43 G	35120480.31	35120480.53	35120480.76	0.0136	0.0069
Earth	91444-07-05 02:24 G	35120480.38	35120480.60	35120480.82	0.0136	0.0067 *
Earth	91445-07-09 11:46 G	35120849.74	35120849.99	35120850.24	0.0137	0.0004
Moon	91445-07-09 13:41 G	35120849.83	35120850.07	35120850.31	0.0137	0.0009 *
Moon	91446-07-13 20:10 G	35121219.13	35121219.34	35121219.58	0.0137	0.0069
Earth	91446-07-13 21:50 G	35121219.20	35121219.41	35121219.62	0.0137	0.0075 *
Venus	91452-09-26 17:17 G	35123486.12	35123486.22	35123486.33	0.0139	0.0120
Venus	91453-05-11 02:10 G	35123712.44	35123712.59	35123712.77	0.0139	0.0092
Venus	91453-12-23 11:31 G	35123938.79	35123938.98	35123939.18	0.0139	0.0063
Venus	91454-08-06 20:53 G	35124165.16	35124165.37	35124165.58	0.0140	0.0034
Venus	91455-03-21 06:29 G	35124391.55	35124391.77	35124391.99	0.0140	0.0005
Venus	91455-11-02 16:05 G	35124617.96	35124618.17	35124618.39	0.0140	0.0025
Venus	91456-06-16 02:10 G	35124844.39	35124844.59	35124844.80	0.0140	0.0055
Venus	91457-01-28 12:14 G	35125070.85	35125071.01	35125071.20	0.0140	0.0084
Venus	91457-09-11 22:48 G	35125297.32	35125297.45	35125297.58	0.0141	0.0114
Mercury	91466-09-26 18:14 G	35128599.20	35128599.26	35128599.32	0.0143	0.0127
Mercury	91466-12-23 21:36 G	35128687.32	35128687.40	35128687.49	0.0143	0.0105
Mercury	91467-03-22 01:12 G	35128775.45	35128775.55	35128775.66	0.0143	0.0083
Mercury	91467-06-18 04:48 G	35128863.58	35128863.70	35128863.82	0.0143	0.0061

Mars	91467-07-29 00:58 G	35128904.31	35128904.54	35128904.79	0.0143	0.0102
Mercury	91467-09-14 08:24 G	35128951.72	35128951.85	35128951.98	0.0143	0.0039
Mercury	91467-12-11 12:00 G	35129039.87	35129040.00	35129040.13	0.0143	0.0017
Mercury	91468-03-08 15:36 G	35129128.02	35129128.15	35129128.29	0.0143	0.0006
Mercury	91468-06-04 19:12 G	35129216.17	35129216.30	35129216.44	0.0143	0.0028
Mercury	91468-08-31 23:02 G	35129304.33	35129304.46	35129304.58	0.0143	0.0050
Mercury	91468-11-28 02:38 G	35129392.50	35129392.61	35129392.73	0.0144	0.0073
Mercury	91469-02-24 06:14 G	35129480.67	35129480.76	35129480.86	0.0144	0.0096
Mercury	91469-05-23 09:50 G	35129568.85	35129568.91	35129568.99	0.0144	0.0119
Mercury	91469-08-19 13:41 G	35129657.05	35129657.07	35129657.10	0.0144	0.0141
Moon	91485-01-05 15:50 G	35135274.95	35135275.16	35135275.39	0.0142	0.0078
Earth	91485-01-05 17:31 G	35135275.02	35135275.23	35135275.46	0.0142	0.0071 *
Earth	91486-01-10 16:34 G	35135644.93	35135645.19	35135645.45	0.0141	0.0011
Moon	91486-01-10 18:00 G	35135645.01	35135645.25	35135645.50	0.0141	0.0018 *
Moon	91487-01-15 13:55 G	35136014.88	35136015.08	35136015.29	0.0141	0.0087
Earth	91487-01-15 14:38 G	35136014.92	35136015.11	35136015.31	0.0141	0.0091 *
Venus	91493-01-15 12:29 G	35138206.91	35138207.02	35138207.16	0.0139	0.0113
Venus	91493-08-29 20:53 G	35138433.20	35138433.37	35138433.54	0.0139	0.0084
Venus	91494-04-13 04:48 G	35138659.51	35138659.70	35138659.90	0.0139	0.0056
Venus	91494-11-25 12:58 G	35138885.83	35138886.04	35138886.25	0.0138	0.0028
Venus	91495-07-09 20:24 G	35139112.14	35139112.35	35139112.57	0.0138	0.0003
Venus	91496-02-21 03:50 G	35139338.45	35139338.66	35139338.88	0.0138	0.0028
Venus	91496-10-04 11:02 G	35139564.77	35139564.96	35139565.16	0.0138	0.0056
Venus	91497-05-18 18:00 G	35139791.09	35139791.25	35139791.43	0.0138	0.0084
Venus	91497-12-31 00:58 G	35140017.43	35140017.54	35140017.69	0.0137	0.0111
Venus	91498-08-14 08:10 G	35140243.83	35140243.84	35140243.86	0.0137	0.0137
Mars	91508-01-01 19:12 G	35143670.02	35143670.30	35143670.58	0.0135	0.0015
Mercury	91508-04-19 04:05 G	35143778.61	35143778.67	35143778.74	0.0135	0.0126
Mercury	91508-07-16 11:17 G	35143866.85	35143866.97	35143867.11	0.0135	0.0099
Mercury	91508-10-12 18:43 G	35143955.12	35143955.28	35143955.44	0.0135	0.0072

Mercury	91509-01-09 01:41 G	35144043.40	35144043.57	35144043.76	0.0135	0.0046
Mercury	91509-04-07 08:53 G	35144131.69	35144131.87	35144132.06	0.0135	0.0019
Mercury	91509-07-04 16:05 G	35144219.98	35144220.17	35144220.36	0.0135	0.0008
Mercury	91509-09-30 23:02 G	35144308.28	35144308.46	35144308.65	0.0135	0.0035
Mercury	91509-12-28 06:00 G	35144396.59	35144396.75	35144396.93	0.0135	0.0061
Mercury	91510-03-26 12:58 G	35144484.91	35144485.04	35144485.20	0.0135	0.0087
Mercury	91510-06-22 19:55 G	35144573.24	35144573.33	35144573.44	0.0135	0.0113
Earth	91527-07-03 02:53 G	35150792.59	35150792.62	35150792.71	0.0136	0.0132
Moon	91527-07-03 05:46 G	35150792.68	35150792.74	35150792.81	0.0136	0.0130 *
Moon	91528-07-06 09:22 G	35151161.68	35151161.89	35151162.14	0.0136	0.0062
Earth	91528-07-06 12:14 G	35151161.80	35151162.01	35151162.24	0.0136	0.0062 *
Earth	91529-07-10 21:50 G	35151531.16	35151531.41	35151531.66	0.0137	0.0009
Moon	91529-07-10 23:46 G	35151531.25	35151531.49	35151531.74	0.0137	0.0004 *
Moon	91530-07-15 05:17 G	35151900.53	35151900.72	35151900.93	0.0137	0.0087
Earth	91530-07-15 07:41 G	35151900.63	35151900.82	35151901.03	0.0137	0.0080 *
Venus	91536-05-28 01:12 G	35154044.49	35154044.55	35154044.62	0.0139	0.0132
Venus	91537-01-09 09:50 G	35154270.78	35154270.91	35154271.07	0.0139	0.0105
Venus	91537-08-23 18:43 G	35154497.11	35154497.28	35154497.48	0.0139	0.0077
Venus	91538-04-07 04:19 G	35154723.48	35154723.68	35154723.89	0.0140	0.0047
Venus	91538-11-19 13:55 G	35154949.86	35154950.08	35154950.29	0.0140	0.0018
Venus	91539-07-03 23:31 G	35155176.27	35155176.48	35155176.70	0.0140	0.0012
Venus	91540-02-15 09:22 G	35155402.69	35155402.89	35155403.11	0.0140	0.0041
Venus	91540-09-28 19:12 G	35155629.13	35155629.30	35155629.51	0.0140	0.0072
Venus	91541-05-13 05:46 G	35155855.60	35155855.74	35155855.90	0.0141	0.0101
Venus	91541-12-25 16:05 G	35156082.11	35156082.17	35156082.27	0.0141	0.0131
Mars	91550-04-18 03:07 G	35159117.43	35159117.63	35159117.85	0.0143	0.0112
Mercury	91550-07-21 21:50 G	35159212.41	35159212.41	35159212.42	0.0143	0.0143
Mercury	91550-10-18 01:12 G	35159300.49	35159300.55	35159300.63	0.0143	0.0122
Mercury	91551-01-14 04:48 G	35159388.62	35159388.70	35159388.80	0.0143	0.0100
Mercury	91551-04-12 08:38 G	35159476.75	35159476.86	35159476.97	0.0143	0.0077

Mercury	91551-07-09 12:14 G	35159564.89	35159565.01	35159565.13	0.0143	0.0055
Mercury	91551-10-05 15:50 G	35159653.03	35159653.16	35159653.29	0.0143	0.0033
Mercury	91552-01-01 19:26 G	35159741.18	35159741.31	35159741.44	0.0143	0.0011
Mercury	91552-03-29 23:02 G	35159829.33	35159829.46	35159829.59	0.0143	0.0011
Mercury	91552-06-26 02:38 G	35159917.48	35159917.61	35159917.74	0.0143	0.0034
Mercury	91552-09-22 06:14 G	35160005.64	35160005.76	35160005.89	0.0143	0.0056
Mercury	91552-12-19 10:05 G	35160093.81	35160093.92	35160094.03	0.0144	0.0079
Mercury	91553-03-17 13:41 G	35160181.98	35160182.07	35160182.17	0.0144	0.0101
Mercury	91553-06-13 17:17 G	35160270.16	35160270.22	35160270.29	0.0144	0.0124
Moon	91569-01-07 00:43 G	35165956.30	35165956.53	35165956.78	0.0142	0.0059
Earth	91569-01-07 03:36 G	35165956.43	35165956.65	35165956.89	0.0142	0.0066 *
Earth	91570-01-12 02:24 G	35166326.35	35166326.60	35166326.86	0.0141	0.0016
Moon	91570-01-12 04:05 G	35166326.43	35166326.67	35166326.92	0.0141	0.0010 *
Moon	91571-01-16 22:48 G	35166696.29	35166696.45	35166696.65	0.0141	0.0102
Earth	91571-01-17 00:29 G	35166696.35	35166696.52	35166696.72	0.0141	0.0097 *
Venus	91576-09-15 20:38 G	35168765.28	35168765.36	35168765.46	0.0139	0.0125
Venus	91577-04-30 04:48 G	35168991.56	35168991.70	35168991.87	0.0139	0.0097
Venus	91577-12-12 13:12 G	35169217.87	35169218.05	35169218.25	0.0139	0.0069
Venus	91578-07-26 21:07 G	35169444.18	35169444.38	35169444.60	0.0139	0.0041
Venus	91579-03-10 05:02 G	35169670.50	35169670.71	35169670.93	0.0138	0.0012
Venus	91579-10-22 12:43 G	35169896.81	35169897.03	35169897.24	0.0138	0.0016
Venus	91580-06-04 19:55 G	35170123.13	35170123.33	35170123.54	0.0138	0.0044
Venus	91581-01-17 03:22 G	35170349.46	35170349.64	35170349.83	0.0138	0.0071
Venus	91581-08-31 10:05 G	35170575.79	35170575.92	35170576.09	0.0137	0.0099
Venus	91582-04-14 17:31 G	35170802.14	35170802.23	35170802.31	0.0137	0.0125
Mercury	91592-05-09 11:02 G	35174479.88	35174479.96	35174480.06	0.0135	0.0119
Mercury	91592-08-05 18:14 G	35174568.13	35174568.26	35174568.41	0.0135	0.0092
Mars	91592-08-25 21:50 G	35174588.18	35174588.41	35174588.64	0.0135	0.0078
Mercury	91592-11-02 01:41 G	35174656.41	35174656.57	35174656.74	0.0135	0.0065
Mercury	91593-01-29 08:53 G	35174744.69	35174744.87	35174745.06	0.0135	0.0038

Mercury	91593-04-27 16:05 G	35174832.98	35174833.17	35174833.36	0.0135	0.0012
Mercury	91593-07-24 23:17 G	35174921.28	35174921.47	35174921.66	0.0135	0.0015
Mercury	91593-10-21 06:14 G	35175009.58	35175009.76	35175009.94	0.0135	0.0042
Mercury	91594-01-17 13:12 G	35175097.89	35175098.05	35175098.22	0.0135	0.0068
Mercury	91594-04-15 20:24 G	35175186.22	35175186.35	35175186.48	0.0135	0.0094
Mercury	91594-07-13 03:22 G	35175274.56	35175274.64	35175274.72	0.0135	0.0120
Earth	91611-07-03 14:53 G	35181474.04	35181474.12	35181474.22	0.0136	0.0126
Moon	91611-07-03 17:31 G	35181474.19	35181474.23	35181474.33	0.0136	0.0131 *
Moon	91612-07-06 21:22 G	35181843.17	35181843.39	35181843.63	0.0136	0.0058
Earth	91612-07-07 00:00 G	35181843.28	35181843.50	35181843.74	0.0136	0.0056 *
Earth	91613-07-11 09:36 G	35182212.65	35182212.90	35182213.15	0.0137	0.0015
Moon	91613-07-11 12:14 G	35182212.77	35182213.01	35182213.26	0.0137	0.0019 *
Moon	91614-07-15 16:34 G	35182582.00	35182582.19	35182582.42	0.0137	0.0081
Earth	91614-07-15 19:12 G	35182582.12	35182582.30	35182582.51	0.0137	0.0087 *
Venus	91620-09-08 18:29 G	35184829.17	35184829.27	35184829.41	0.0139	0.0116
Venus	91621-04-23 03:50 G	35185055.50	35185055.66	35185055.84	0.0139	0.0087
Venus	91621-12-05 13:12 G	35185281.85	35185282.05	35185282.25	0.0139	0.0059
Venus	91622-07-19 22:34 G	35185508.23	35185508.44	35185508.66	0.0140	0.0030
Venus	91623-03-03 08:24 G	35185734.63	35185734.85	35185735.07	0.0140	0.0002
Venus	91623-10-15 18:00 G	35185961.04	35185961.25	35185961.47	0.0140	0.0029
Venus	91624-05-29 04:19 G	35186187.48	35186187.68	35186187.88	0.0140	0.0059
Venus	91625-01-10 14:10 G	35186413.93	35186414.09	35186414.27	0.0140	0.0089
Venus	91625-08-25 00:43 G	35186640.42	35186640.53	35186640.65	0.0141	0.0118
Mercury	91634-08-11 05:31 G	35189913.69	35189913.73	35189913.77	0.0143	0.0135
Mercury	91634-11-07 09:07 G	35190001.80	35190001.88	35190001.96	0.0143	0.0113
Mars	91634-12-14 00:14 G	35190038.18	35190038.51	35190038.85	0.0143	0.0031
Mercury	91635-02-03 12:43 G	35190089.93	35190090.03	35190090.13	0.0143	0.0091
Mercury	91635-05-02 16:19 G	35190178.07	35190178.18	35190178.30	0.0143	0.0070
Mercury	91635-07-29 19:55 G	35190266.21	35190266.33	35190266.46	0.0143	0.0047
Mercury	91635-10-25 23:31 G	35190354.35	35190354.48	35190354.61	0.0143	0.0025

Mercury	91636-01-22 03:07 G	35190442.50	35190442.63	35190442.76	0.0143	0.0003
Mercury	91636-04-19 06:43 G	35190530.65	35190530.78	35190530.92	0.0143	0.0020
Mercury	91636-07-16 10:19 G	35190618.81	35190618.93	35190619.06	0.0143	0.0042
Mercury	91636-10-12 13:55 G	35190706.97	35190707.08	35190707.21	0.0143	0.0065
Mercury	91637-01-08 17:46 G	35190795.14	35190795.24	35190795.35	0.0144	0.0087
Mercury	91637-04-06 21:22 G	35190883.31	35190883.39	35190883.48	0.0144	0.0110
Mercury	91637-07-04 00:58 G	35190971.50	35190971.54	35190971.60	0.0144	0.0133
Earth	91652-01-03 16:19 G	35196268.17	35196268.18	35196268.21	0.0142	0.0141
Moon	91652-01-03 19:26 G	35196268.27	35196268.31	35196268.39	0.0142	0.0138
Moon	91653-01-07 13:12 G	35196637.82	35196638.05	35196638.29	0.0142	0.0066
Earth	91653-01-07 15:50 G	35196637.93	35196638.16	35196638.40	0.0142	0.0059 *
Earth	91654-01-12 14:38 G	35197007.86	35197008.11	35197008.37	0.0141	0.0023
Moon	91654-01-12 17:02 G	35197007.98	35197008.21	35197008.47	0.0141	0.0032 *
Moon	91655-01-17 10:34 G	35197377.77	35197377.94	35197378.15	0.0141	0.0099
Earth	91655-01-17 12:29 G	35197377.86	35197378.02	35197378.21	0.0141	0.0104 *
Venus	91660-05-16 06:00 G	35199323.72	35199323.75	35199323.80	0.0139	0.0137
Venus	91660-12-28 14:24 G	35199549.98	35199550.10	35199550.25	0.0139	0.0108
Venus	91661-08-11 22:48 G	35199776.28	35199776.45	35199776.63	0.0139	0.0080
Venus	91662-03-26 06:43 G	35200002.59	35200002.78	35200002.99	0.0139	0.0052
Venus	91662-11-07 14:53 G	35200228.90	35200229.12	35200229.33	0.0138	0.0023
Venus	91663-06-21 22:34 G	35200455.22	35200455.44	35200455.65	0.0138	0.0005
Venus	91664-02-03 06:00 G	35200681.54	35200681.75	35200681.96	0.0138	0.0032
Venus	91664-09-16 13:12 G	35200907.86	35200908.05	35200908.25	0.0138	0.0060
Venus	91665-04-30 20:24 G	35201134.19	35201134.35	35201134.52	0.0138	0.0087
Venus	91665-12-13 03:36 G	35201360.54	35201360.65	35201360.77	0.0137	0.0114
Mars	91675-05-22 04:34 G	35204807.44	35204807.69	35204807.94	0.0135	0.0059
Mercury	91676-05-29 18:29 G	35205181.17	35205181.27	35205181.38	0.0135	0.0111
Mercury	91676-08-26 01:41 G	35205269.43	35205269.57	35205269.73	0.0135	0.0084
Mercury	91676-11-22 09:07 G	35205357.71	35205357.88	35205358.05	0.0135	0.0057
Mercury	91677-02-18 16:05 G	35205445.99	35205446.17	35205446.36	0.0135	0.0031

Mercury	91677-05-17 23:31 G	35205534.28	35205534.48	35205534.67	0.0135	0.0005
Mercury	91677-08-14 06:29 G	35205622.58	35205622.77	35205622.96	0.0135	0.0023
Mercury	91677-11-10 13:26 G	35205710.89	35205711.06	35205711.25	0.0135	0.0050
Mercury	91678-02-06 20:24 G	35205799.21	35205799.35	35205799.52	0.0135	0.0076
Mercury	91678-05-06 03:36 G	35205887.53	35205887.65	35205887.78	0.0135	0.0102
Mercury	91678-08-02 10:34 G	35205975.89	35205975.94	35205976.00	0.0135	0.0128
Earth	91695-07-04 01:26 G	35212155.46	35212155.56	35212155.68	0.0136	0.0122
Moon	91695-07-04 04:19 G	35212155.58	35212155.68	35212155.82	0.0136	0.0119 *
Moon	91696-07-07 06:58 G	35212524.56	35212524.79	35212525.03	0.0136	0.0052
Earth	91696-07-07 10:19 G	35212524.71	35212524.93	35212525.17	0.0136	0.0051 *
Earth	91697-07-11 19:41 G	35212894.08	35212894.32	35212894.58	0.0137	0.0021
Moon	91697-07-11 22:34 G	35212894.20	35212894.44	35212894.69	0.0137	0.0017 *
Moon	91698-07-16 02:24 G	35213263.43	35213263.60	35213263.79	0.0137	0.0098
Earth	91698-07-16 05:31 G	35213263.56	35213263.73	35213263.93	0.0137	0.0092 *
Venus	91704-05-10 03:07 G	35215387.55	35215387.63	35215387.72	0.0139	0.0127
Venus	91704-12-22 12:00 G	35215613.86	35215614.00	35215614.16	0.0139	0.0100
Venus	91705-08-05 21:07 G	35215840.20	35215840.38	35215840.58	0.0139	0.0071
Venus	91706-03-20 06:29 G	35216066.57	35216066.77	35216066.98	0.0140	0.0042
Venus	91706-11-01 16:05 G	35216292.96	35216293.17	35216293.39	0.0140	0.0013
Venus	91707-06-16 02:10 G	35216519.37	35216519.59	35216519.80	0.0140	0.0016
Venus	91708-01-28 12:00 G	35216745.79	35216746.00	35216746.21	0.0140	0.0046
Venus	91708-09-10 21:50 G	35216972.24	35216972.41	35216972.61	0.0140	0.0076
Venus	91709-04-25 08:24 G	35217198.71	35217198.85	35217198.99	0.0141	0.0105
Venus	91709-12-07 18:29 G	35217425.23	35217425.27	35217425.35	0.0141	0.0135
Mercury	91718-09-01 12:58 G	35220614.99	35220615.04	35220615.11	0.0143	0.0128
Mercury	91718-11-28 16:34 G	35220703.11	35220703.19	35220703.29	0.0143	0.0107
Mercury	91719-02-24 20:10 G	35220791.24	35220791.34	35220791.46	0.0143	0.0085
Mercury	91719-05-23 23:46 G	35220879.38	35220879.49	35220879.62	0.0143	0.0063
Mercury	91719-08-20 03:36 G	35220967.52	35220967.65	35220967.78	0.0143	0.0040
Mercury	91719-11-16 07:12 G	35221055.67	35221055.80	35221055.93	0.0143	0.0018

Mercury	91720-02-12 10:48 G	35221143.82	35221143.95	35221144.09	0.0143	0.0006
Mercury	91720-05-10 14:24 G	35221231.97	35221232.10	35221232.24	0.0143	0.0028
Mercury	91720-08-06 18:14 G	35221320.13	35221320.26	35221320.38	0.0144	0.0050
Mercury	91720-11-02 21:50 G	35221408.30	35221408.41	35221408.53	0.0144	0.0072
Mercury	91721-01-30 01:41 G	35221496.47	35221496.57	35221496.66	0.0144	0.0095
Mercury	91721-04-28 05:17 G	35221584.65	35221584.72	35221584.80	0.0144	0.0118
Mercury	91721-07-25 08:53 G	35221672.85	35221672.87	35221672.90	0.0144	0.0141
Earth	91736-01-05 06:29 G	35226949.70	35226949.77	35226949.88	0.0142	0.0133
Moon	91736-01-05 09:50 G	35226949.87	35226949.91	35226949.98	0.0142	0.0138 *
Moon	91737-01-09 02:53 G	35227319.38	35227319.62	35227319.88	0.0142	0.0044
Earth	91737-01-09 06:14 G	35227319.53	35227319.76	35227320.01	0.0142	0.0051 *
Earth	91738-01-14 04:48 G	35227689.46	35227689.70	35227689.96	0.0141	0.0032
Moon	91738-01-14 07:26 G	35227689.56	35227689.81	35227690.06	0.0141	0.0025 *
Moon	91739-01-19 00:00 G	35228059.38	35228059.50	35228059.66	0.0141	0.0119
Earth	91739-01-19 02:38 G	35228059.48	35228059.61	35228059.78	0.0141	0.0113 *
Venus	91744-08-29 00:43 G	35230108.44	35230108.53	35230108.66	0.0139	0.0120
Venus	91745-04-12 09:07 G	35230334.73	35230334.88	35230335.06	0.0139	0.0091
Venus	91745-11-24 17:31 G	35230561.05	35230561.23	35230561.43	0.0139	0.0063
Venus	91746-07-09 01:41 G	35230787.36	35230787.57	35230787.78	0.0138	0.0034
Venus	91747-02-20 09:22 G	35231013.68	35231013.89	35231014.11	0.0138	0.0007
Venus	91747-10-04 17:02 G	35231239.99	35231240.21	35231240.42	0.0138	0.0021
Venus	91748-05-18 00:14 G	35231466.32	35231466.51	35231466.72	0.0138	0.0049
Venus	91748-12-30 07:26 G	35231692.65	35231692.81	35231693.01	0.0138	0.0077
Venus	91749-08-13 14:53 G	35231918.98	35231919.12	35231919.26	0.0137	0.0103
Venus	91750-03-27 21:36 G	35232145.34	35232145.40	35232145.48	0.0137	0.0129
Mars	91760-01-15 10:34 G	35235725.67	35235725.94	35235726.21	0.0135	0.0037
Mercury	91760-03-23 18:43 G	35235794.24	35235794.28	35235794.35	0.0135	0.0129
Mercury	91760-06-20 02:10 G	35235882.48	35235882.59	35235882.73	0.0135	0.0102
Mercury	91760-09-16 09:22 G	35235970.74	35235970.89	35235971.06	0.0135	0.0075
Mercury	91760-12-13 16:48 G	35236059.02	35236059.20	35236059.38	0.0135	0.0048

Mercury	91761-03-12 00:00 G	35236147.31	35236147.50	35236147.69	0.0135	0.0021
Mercury	91761-06-08 07:12 G	35236235.61	35236235.80	35236235.99	0.0135	0.0006
Mercury	91761-09-04 14:10 G	35236323.91	35236324.09	35236324.28	0.0135	0.0033
Mercury	91761-12-01 21:22 G	35236412.22	35236412.39	35236412.56	0.0135	0.0059
Mercury	91762-02-28 04:19 G	35236500.54	35236500.68	35236500.83	0.0134	0.0085
Mercury	91762-05-27 11:31 G	35236588.87	35236588.98	35236589.08	0.0134	0.0111
Earth	91779-07-05 12:29 G	35242836.91	35242837.02	35242837.17	0.0136	0.0116
Moon	91779-07-05 16:05 G	35242837.07	35242837.17	35242837.30	0.0136	0.0121 *
Moon	91780-07-08 18:14 G	35243206.03	35243206.26	35243206.51	0.0136	0.0046
Earth	91780-07-08 21:36 G	35243206.17	35243206.40	35243206.65	0.0136	0.0046 *
Earth	91781-07-13 06:58 G	35243575.55	35243575.79	35243576.04	0.0137	0.0026
Moon	91781-07-13 10:19 G	35243575.70	35243575.93	35243576.18	0.0137	0.0029 *
Moon	91782-07-17 13:12 G	35243944.89	35243945.05	35243945.26	0.0137	0.0093
Earth	91782-07-17 16:34 G	35243945.03	35243945.19	35243945.38	0.0137	0.0098 *
Venus	91788-08-21 20:24 G	35246172.23	35246172.35	35246172.48	0.0139	0.0111
Venus	91789-04-05 05:17 G	35246398.56	35246398.72	35246398.91	0.0139	0.0083
Venus	91789-11-17 14:38 G	35246624.92	35246625.11	35246625.32	0.0139	0.0055
Venus	91790-07-02 00:14 G	35246851.30	35246851.51	35246851.73	0.0140	0.0026
Venus	91791-02-13 10:05 G	35247077.70	35247077.92	35247078.14	0.0140	0.0004
Venus	91791-09-27 19:41 G	35247304.11	35247304.32	35247304.54	0.0140	0.0033
Venus	91792-05-11 05:31 G	35247530.55	35247530.73	35247530.94	0.0140	0.0063
Venus	91792-12-23 15:50 G	35247757.00	35247757.16	35247757.33	0.0141	0.0092
Venus	91793-08-07 02:10 G	35247983.49	35247983.59	35247983.71	0.0141	0.0122
Mars	91802-05-02 01:26 G	35251172.23	35251172.56	35251172.89	0.0143	0.0038
Mercury	91802-06-26 17:02 G	35251228.21	35251228.21	35251228.22	0.0143	0.0143
Mercury	91802-09-22 20:38 G	35251316.30	35251316.36	35251316.43	0.0143	0.0121
Mercury	91802-12-20 00:14 G	35251404.42	35251404.51	35251404.61	0.0143	0.0099
Mercury	91803-03-18 03:50 G	35251492.55	35251492.66	35251492.77	0.0143	0.0077
Mercury	91803-06-14 07:26 G	35251580.69	35251580.81	35251580.94	0.0143	0.0055
Mercury	91803-09-10 11:02 G	35251668.83	35251668.96	35251669.09	0.0143	0.0033

Mercury	91803-12-07 14:53 G	35251756.98	35251757.12	35251757.25	0.0143	0.0011
Mercury	91804-03-04 18:29 G	35251845.14	35251845.27	35251845.40	0.0144	0.0012
Mercury	91804-05-31 22:05 G	35251933.29	35251933.42	35251933.55	0.0144	0.0034
Mercury	91804-08-28 01:41 G	35252021.45	35252021.57	35252021.70	0.0144	0.0057
Mercury	91804-11-24 05:17 G	35252109.62	35252109.72	35252109.84	0.0144	0.0080
Mercury	91805-02-20 08:53 G	35252197.79	35252197.87	35252197.97	0.0144	0.0103
Mercury	91805-05-19 12:58 G	35252285.97	35252286.04	35252286.10	0.0144	0.0125
Earth	91820-01-06 20:10 G	35257631.23	35257631.34	35257631.47	0.0142	0.0126
Moon	91820-01-07 00:00 G	35257631.38	35257631.50	35257631.63	0.0142	0.0122 *
Moon	91821-01-10 16:19 G	35258000.95	35258001.18	35258001.44	0.0142	0.0050
Earth	91821-01-10 19:26 G	35258001.08	35258001.31	35258001.57	0.0142	0.0043 *
Earth	91822-01-15 18:29 G	35258371.02	35258371.27	35258371.52	0.0141	0.0040
Moon	91822-01-15 21:36 G	35258371.17	35258371.40	35258371.64	0.0141	0.0048 *
Moon	91823-01-20 13:26 G	35258740.93	35258741.06	35258741.23	0.0141	0.0116
Earth	91823-01-20 16:19 G	35258741.06	35258741.18	35258741.32	0.0141	0.0122 *
Venus	91828-04-29 11:02 G	35260666.91	35260666.96	35260667.06	0.0139	0.0131
Venus	91828-12-11 20:10 G	35260893.20	35260893.34	35260893.49	0.0139	0.0102
Venus	91829-07-26 04:05 G	35261119.50	35261119.67	35261119.87	0.0139	0.0074
Venus	91830-03-09 12:14 G	35261345.82	35261346.01	35261346.22	0.0139	0.0046
Venus	91830-10-21 20:10 G	35261572.13	35261572.34	35261572.56	0.0138	0.0018
Venus	91831-06-05 04:05 G	35261798.45	35261798.67	35261798.88	0.0138	0.0011
Venus	91832-01-17 11:31 G	35262024.78	35262024.98	35262025.19	0.0138	0.0038
Venus	91832-08-30 18:43 G	35262251.10	35262251.28	35262251.48	0.0138	0.0066
Venus	91833-04-14 01:41 G	35262477.43	35262477.57	35262477.75	0.0137	0.0093
Venus	91833-11-26 09:07 G	35262703.78	35262703.88	35262703.99	0.0137	0.0119
Mars	91842-10-11 19:26 G	35265945.12	35265945.31	35265945.50	0.0135	0.0098
Mercury	91844-04-14 02:38 G	35266495.54	35266495.61	35266495.71	0.0135	0.0119
Mercury	91844-07-11 10:05 G	35266583.79	35266583.92	35266584.07	0.0135	0.0092
Mars	91844-09-09 16:05 G	35266644.14	35266644.17	35266644.23	0.0135	0.0133
Mercury	91844-10-07 17:31 G	35266672.06	35266672.23	35266672.40	0.0135	0.0065

Mercury	91845-01-04 00:43 G	35266760.35	35266760.53	35266760.71	0.0135	0.0038
Mercury	91845-04-02 07:55 G	35266848.64	35266848.83	35266849.02	0.0134	0.0011
Mercury	91845-06-29 14:53 G	35266936.94	35266937.12	35266937.32	0.0134	0.0016
Mercury	91845-09-25 22:05 G	35267025.24	35267025.42	35267025.60	0.0134	0.0042
Mercury	91845-12-23 04:48 G	35267113.55	35267113.70	35267113.88	0.0134	0.0069
Mercury	91846-03-21 12:00 G	35267201.88	35267202.00	35267202.14	0.0134	0.0094
Mercury	91846-06-17 18:58 G	35267290.22	35267290.29	35267290.38	0.0134	0.0120
Earth	91863-07-06 22:34 G	35273518.30	35273518.44	35273518.59	0.0136	0.0111
Moon	91863-07-07 01:41 G	35273518.44	35273518.57	35273518.74	0.0136	0.0108 *
Moon	91864-07-10 03:22 G	35273887.41	35273887.64	35273887.89	0.0136	0.0044
Earth	91864-07-10 07:12 G	35273887.56	35273887.80	35273888.04	0.0136	0.0041 *
Earth	91865-07-14 16:05 G	35274256.93	35274257.17	35274257.42	0.0137	0.0031
Moon	91865-07-14 19:41 G	35274257.07	35274257.32	35274257.56	0.0137	0.0028 *
Moon	91866-07-18 21:50 G	35274626.28	35274626.41	35274626.59	0.0137	0.0108
Earth	91866-07-19 01:55 G	35274626.42	35274626.58	35274626.75	0.0137	0.0102 *
Venus	91872-04-22 03:07 G	35276730.55	35276730.63	35276730.74	0.0139	0.0124
Venus	91872-12-04 12:14 G	35276956.86	35276957.01	35276957.17	0.0139	0.0096
Venus	91873-07-18 21:07 G	35277183.20	35277183.38	35277183.58	0.0139	0.0069
Venus	91874-03-02 06:29 G	35277409.57	35277409.77	35277409.99	0.0140	0.0040
Venus	91874-10-14 16:05 G	35277635.95	35277636.17	35277636.39	0.0140	0.0011
Venus	91875-05-29 01:55 G	35277862.36	35277862.58	35277862.80	0.0140	0.0019
Venus	91876-01-10 11:31 G	35278088.79	35278088.98	35278089.20	0.0140	0.0048
Venus	91876-08-23 21:36 G	35278315.23	35278315.40	35278315.59	0.0140	0.0077
Venus	91877-04-07 07:41 G	35278541.69	35278541.82	35278541.97	0.0141	0.0107
Venus	91877-11-19 18:14 G	35278768.21	35278768.26	35278768.32	0.0141	0.0136
Mercury	91886-07-17 00:14 G	35281929.48	35281929.51	35281929.54	0.0143	0.0139
Mercury	91886-10-13 03:50 G	35282017.58	35282017.66	35282017.73	0.0143	0.0117
Mars	91886-12-27 12:00 G	35282092.78	35282093.00	35282093.27	0.0143	0.0099
Mercury	91887-01-09 07:12 G	35282105.71	35282105.80	35282105.90	0.0143	0.0095
Mercury	91887-04-07 11:02 G	35282193.84	35282193.96	35282194.07	0.0143	0.0073

Mercury	91887-07-04 14:38 G	35282281.98	35282282.11	35282282.23	0.0143	0.0051
Mercury	91887-09-30 18:14 G	35282370.13	35282370.26	35282370.39	0.0144	0.0029
Mercury	91887-12-27 21:50 G	35282458.28	35282458.41	35282458.54	0.0144	0.0006
Mercury	91888-03-25 01:26 G	35282546.43	35282546.56	35282546.69	0.0144	0.0016
Mercury	91888-06-21 05:02 G	35282634.59	35282634.71	35282634.84	0.0144	0.0039
Mercury	91888-09-17 08:38 G	35282722.75	35282722.86	35282722.99	0.0144	0.0062
Mercury	91888-12-14 12:29 G	35282810.91	35282811.02	35282811.13	0.0144	0.0084
Mercury	91889-03-12 16:05 G	35282899.09	35282899.17	35282899.26	0.0144	0.0107
Mercury	91889-06-08 19:41 G	35282987.28	35282987.32	35282987.39	0.0144	0.0130
Earth	91904-01-08 07:12 G	35288312.67	35288312.80	35288312.95	0.0142	0.0120
Moon	91904-01-08 10:34 G	35288312.84	35288312.94	35288313.08	0.0142	0.0124 *
Moon	91905-01-12 03:07 G	35288682.38	35288682.63	35288682.89	0.0142	0.0030
Earth	91905-01-12 06:58 G	35288682.55	35288682.79	35288683.04	0.0142	0.0036 *
Earth	91906-01-17 05:46 G	35289052.50	35289052.74	35289052.98	0.0142	0.0047
Moon	91906-01-17 08:38 G	35289052.63	35289052.86	35289053.12	0.0142	0.0040 *
Moon	91907-01-22 00:14 G	35289422.46	35289422.51	35289422.61	0.0141	0.0135
Earth	91907-01-22 03:36 G	35289422.56	35289422.65	35289422.77	0.0141	0.0129 *
Venus	91912-08-12 05:31 G	35291451.63	35291451.73	35291451.88	0.0139	0.0114
Venus	91913-03-26 14:10 G	35291677.93	35291678.09	35291678.27	0.0139	0.0085
Venus	91913-11-07 22:19 G	35291904.25	35291904.43	35291904.64	0.0139	0.0057
Venus	91914-06-22 06:43 G	35292130.57	35292130.78	35292130.99	0.0139	0.0028
Venus	91915-02-03 14:38 G	35292356.89	35292357.11	35292357.32	0.0138	0.0002
Venus	91915-09-17 22:05 G	35292583.21	35292583.42	35292583.64	0.0138	0.0027
Venus	91916-05-01 05:17 G	35292809.54	35292809.72	35292809.93	0.0138	0.0055
Venus	91916-12-13 12:43 G	35293035.87	35293036.03	35293036.22	0.0138	0.0082
Venus	91917-07-27 20:10 G	35293262.21	35293262.34	35293262.47	0.0137	0.0108
Venus	91918-03-11 02:38 G	35293488.58	35293488.61	35293488.66	0.0137	0.0134
Mars	91927-06-07 02:24 G	35296863.32	35296863.60	35296863.88	0.0135	0.0001
Mercury	91928-05-05 10:34 G	35297196.85	35297196.94	35297197.07	0.0135	0.0109
Mercury	91928-08-01 18:00 G	35297285.11	35297285.25	35297285.41	0.0135	0.0082

Mercury	91928-10-29 01:12 G	35297373.39	35297373.55	35297373.74	0.0135	0.0055
Mercury	91929-01-25 08:38 G	35297461.67	35297461.86	35297462.05	0.0135	0.0028
Mercury	91929-04-23 15:50 G	35297549.97	35297550.16	35297550.35	0.0134	0.0001
Mercury	91929-07-20 22:48 G	35297638.27	35297638.45	35297638.64	0.0134	0.0026
Mercury	91929-10-17 06:00 G	35297726.58	35297726.75	35297726.93	0.0134	0.0052
Mercury	91930-01-13 12:43 G	35297814.89	35297815.03	35297815.20	0.0134	0.0079
Mercury	91930-04-11 19:41 G	35297903.22	35297903.32	35297903.46	0.0134	0.0105
Mercury	91930-07-09 02:38 G	35297991.59	35297991.61	35297991.68	0.0134	0.0131
Earth	91947-07-08 09:22 G	35304199.75	35304199.89	35304200.06	0.0136	0.0106
Moon	91947-07-08 13:12 G	35304199.91	35304200.05	35304200.20	0.0136	0.0111 *
Moon	91948-07-11 14:38 G	35304568.87	35304569.11	35304569.36	0.0136	0.0034
Earth	91948-07-11 18:14 G	35304569.02	35304569.26	35304569.51	0.0136	0.0036 *
Earth	91949-07-16 03:07 G	35304938.39	35304938.63	35304938.88	0.0137	0.0036
Moon	91949-07-16 06:43 G	35304938.55	35304938.78	35304939.03	0.0137	0.0037 *
Moon	91950-07-20 09:07 G	35305307.73	35305307.88	35305308.05	0.0137	0.0103
Earth	91950-07-20 12:29 G	35305307.88	35305308.02	35305308.19	0.0137	0.0108 *
Venus	91955-12-22 11:17 G	35307288.94	35307288.97	35307289.03	0.0139	0.0136
Venus	91956-08-04 20:10 G	35307515.21	35307515.34	35307515.48	0.0139	0.0108
Venus	91957-03-19 05:02 G	35307741.54	35307741.71	35307741.89	0.0139	0.0080
Venus	91957-10-31 13:55 G	35307967.89	35307968.08	35307968.30	0.0139	0.0053
Venus	91958-06-14 23:31 G	35308194.27	35308194.48	35308194.70	0.0140	0.0024
Venus	91959-01-27 09:07 G	35308420.66	35308420.88	35308421.10	0.0140	0.0005
Venus	91959-09-10 18:43 G	35308647.07	35308647.28	35308647.49	0.0140	0.0034
Venus	91960-04-24 04:34 G	35308873.50	35308873.69	35308873.89	0.0140	0.0064
Venus	91960-12-06 14:38 G	35309099.95	35309100.11	35309100.27	0.0141	0.0093
Venus	91961-07-21 00:29 G	35309326.43	35309326.52	35309326.65	0.0141	0.0123
Mars	91969-09-16 10:05 G	35312305.72	35312305.92	35312306.11	0.0143	0.0118
Mercury	91970-08-07 07:12 G	35312630.76	35312630.80	35312630.85	0.0143	0.0134
Mercury	91970-11-03 10:48 G	35312718.87	35312718.95	35312719.03	0.0143	0.0112
Mercury	91971-01-30 14:24 G	35312807.00	35312807.10	35312807.20	0.0143	0.0091

Mercury	91971-04-28 18:00 G	35312895.13	35312895.25	35312895.37	0.0143	0.0068
Mercury	91971-07-25 21:36 G	35312983.27	35312983.40	35312983.53	0.0144	0.0046
Mercury	91971-10-22 01:12 G	35313071.42	35313071.55	35313071.68	0.0144	0.0024
Mercury	91972-01-18 04:48 G	35313159.57	35313159.70	35313159.83	0.0144	0.0002
Mercury	91972-04-15 08:24 G	35313247.72	35313247.85	35313247.98	0.0144	0.0021
Mercury	91972-07-12 12:00 G	35313335.88	35313336.00	35313336.13	0.0144	0.0044
Mercury	91972-10-08 15:50 G	35313424.04	35313424.16	35313424.28	0.0144	0.0066
Mercury	91973-01-04 19:26 G	35313512.21	35313512.31	35313512.42	0.0144	0.0088
Mercury	91973-04-02 23:17 G	35313600.38	35313600.47	35313600.55	0.0144	0.0111
Mercury	91973-06-30 02:53 G	35313688.57	35313688.62	35313688.67	0.0144	0.0134
Earth	91988-01-08 16:05 G	35318994.02	35318994.17	35318994.32	0.0142	0.0116
Moon	91988-01-08 19:41 G	35318994.17	35318994.32	35318994.48	0.0142	0.0114 *
Moon	91989-01-12 12:00 G	35319363.76	35319364.00	35319364.25	0.0142	0.0038
Earth	91989-01-12 15:36 G	35319363.90	35319364.15	35319364.40	0.0142	0.0032 *
Earth	91990-01-17 14:38 G	35319733.87	35319734.11	35319734.35	0.0142	0.0051
Moon	91990-01-17 18:00 G	35319734.03	35319734.25	35319734.50	0.0142	0.0060 *
Moon	91991-01-22 09:07 G	35320103.79	35320103.88	35320104.02	0.0141	0.0126
Earth	91991-01-22 12:58 G	35320103.96	35320104.04	35320104.13	0.0141	0.0133 *
Venus	91996-04-11 13:41 G	35322010.00	35322010.07	35322010.19	0.0139	0.0126
Venus	91996-11-23 22:34 G	35322236.30	35322236.44	35322236.61	0.0139	0.0097
Venus	91997-07-08 06:58 G	35322462.62	35322462.79	35322463.00	0.0139	0.0069
Venus	91998-02-19 15:22 G	35322688.94	35322689.14	35322689.35	0.0139	0.0041
Venus	91998-10-03 23:31 G	35322915.26	35322915.48	35322915.69	0.0139	0.0013
Venus	91999-05-18 07:12 G	35323141.59	35323141.80	35323142.02	0.0138	0.0015
Venus	91999-12-30 14:53 G	35323367.92	35323368.12	35323368.33	0.0138	0.0043
Venus	92000-08-12 22:19 G	35323594.25	35323594.43	35323594.62	0.0138	0.0070

93RD MILLENNIUM CE

This is a list of transits visible from Uranus in the 93rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	92001-03-27 05:17	G	35323820.58	35323820.72	35323820.89	0.0138	0.0097	
Venus	92001-11-08 12:29	G	35324046.93	35324047.02	35324047.12	0.0137	0.0123	
Mars	92012-01-30 08:38	G	35327781.67	35327781.86	35327782.07	0.0135	0.0094	
Mercury	92012-02-27 11:02	G	35327809.91	35327809.96	35327810.04	0.0135	0.0127	
Mercury	92012-05-25 18:14	G	35327898.15	35327898.26	35327898.40	0.0135	0.0100	
Mercury	92012-08-22 01:41	G	35327986.42	35327986.57	35327986.74	0.0135	0.0073	
Mercury	92012-11-18 08:53	G	35328074.70	35328074.87	35328075.06	0.0135	0.0046	
Mercury	92013-02-14 16:19	G	35328162.99	35328163.18	35328163.37	0.0135	0.0019	
Mercury	92013-05-13 23:31	G	35328251.29	35328251.48	35328251.67	0.0135	0.0008	
Mercury	92013-08-10 06:29	G	35328339.59	35328339.77	35328339.96	0.0134	0.0034	
Mercury	92013-11-06 13:41	G	35328427.90	35328428.07	35328428.24	0.0134	0.0061	
Mercury	92014-02-02 20:38	G	35328516.22	35328516.36	35328516.51	0.0134	0.0087	
Mercury	92014-05-02 03:50	G	35328604.56	35328604.66	35328604.76	0.0134	0.0113	
Earth	92031-07-08 20:38	G	35334881.20	35334881.36	35334881.54	0.0136	0.0101	
Moon	92031-07-09 00:14	G	35334881.34	35334881.51	35334881.70	0.0136	0.0096	*
Moon	92032-07-12 01:41	G	35335250.34	35335250.57	35335250.82	0.0136	0.0034	
Earth	92032-07-12 05:17	G	35335250.48	35335250.72	35335250.97	0.0136	0.0030	*
Earth	92033-07-16 13:41	G	35335619.84	35335620.07	35335620.32	0.0136	0.0042	
Moon	92033-07-16 17:17	G	35335619.99	35335620.22	35335620.47	0.0136	0.0040	*
Moon	92034-07-20 19:12	G	35335989.20	35335989.30	35335989.45	0.0137	0.0118	
Earth	92034-07-20 23:17	G	35335989.34	35335989.47	35335989.62	0.0137	0.0113	*
Venus	92040-04-04 04:05	G	35338073.57	35338073.67	35338073.79	0.0139	0.0120	

Venus	92040-11-16 12:43 G	35338299.88	35338300.03	35338300.20	0.0139	0.0093
Venus	92041-06-30 22:05 G	35338526.22	35338526.42	35338526.61	0.0139	0.0065
Venus	92042-02-12 06:58 G	35338752.59	35338752.79	35338753.01	0.0139	0.0036
Venus	92042-09-26 16:19 G	35338978.96	35338979.18	35338979.40	0.0140	0.0008
Venus	92043-05-11 01:55 G	35339205.36	35339205.58	35339205.80	0.0140	0.0021
Venus	92043-12-23 11:31 G	35339431.78	35339431.98	35339432.19	0.0140	0.0050
Venus	92044-08-05 21:22 G	35339658.22	35339658.39	35339658.58	0.0140	0.0080
Venus	92045-03-20 07:12 G	35339884.68	35339884.80	35339884.95	0.0141	0.0109
Venus	92045-11-01 17:31 G	35340111.20	35340111.23	35340111.28	0.0141	0.0138
Jupiter	92052-05-29 22:05 G	35342512.14	35342512.42	35342512.75	0.0143	0.0115
Mars	92054-05-13 21:22 G	35343226.06	35343226.39	35343226.73	0.0143	0.0019
Mercury	92054-08-27 14:24 G	35343332.05	35343332.10	35343332.15	0.0143	0.0130
Mercury	92054-11-23 17:46 G	35343420.16	35343420.24	35343420.33	0.0143	0.0108
Mercury	92055-02-19 21:22 G	35343508.29	35343508.39	35343508.50	0.0143	0.0086
Mercury	92055-05-19 00:58 G	35343596.43	35343596.54	35343596.66	0.0143	0.0064
Mercury	92055-08-15 04:34 G	35343684.57	35343684.69	35343684.82	0.0144	0.0042
Mercury	92055-11-11 08:10 G	35343772.71	35343772.84	35343772.98	0.0144	0.0020
Mercury	92056-02-07 12:00 G	35343860.86	35343861.00	35343861.13	0.0144	0.0005
Mercury	92056-05-05 15:22 G	35343949.02	35343949.14	35343949.28	0.0144	0.0026
Mercury	92056-08-01 19:12 G	35344037.17	35344037.30	35344037.42	0.0144	0.0048
Mercury	92056-10-28 22:48 G	35344125.34	35344125.45	35344125.57	0.0144	0.0070
Mercury	92057-01-25 02:24 G	35344213.50	35344213.60	35344213.71	0.0144	0.0093
Mercury	92057-04-23 06:00 G	35344301.68	35344301.75	35344301.84	0.0144	0.0116
Mercury	92057-07-20 09:50 G	35344389.88	35344389.91	35344389.95	0.0144	0.0138
Earth	92072-01-09 00:43 G	35349675.39	35349675.53	35349675.70	0.0142	0.0111
Moon	92072-01-09 04:05 G	35349675.54	35349675.67	35349675.85	0.0142	0.0115 *
Moon	92073-01-12 21:07 G	35350045.13	35350045.38	35350045.64	0.0142	0.0022
Earth	92073-01-13 00:58 G	35350045.29	35350045.54	35350045.79	0.0142	0.0027 *
Earth	92074-01-18 00:00 G	35350415.26	35350415.50	35350415.73	0.0142	0.0056
Moon	92074-01-18 03:07 G	35350415.40	35350415.63	35350415.88	0.0142	0.0049 *

Earth	92075-01-22 21:50 G	35350785.38	35350785.41	35350785.49	0.0141	0.0139
Venus	92079-12-10 22:05 G	35352568.41	35352568.42	35352568.48	0.0140	0.0138
Venus	92080-07-24 06:58 G	35352794.67	35352794.79	35352794.94	0.0139	0.0109
Venus	92081-03-07 15:36 G	35353020.99	35353021.15	35353021.34	0.0139	0.0081
Venus	92081-10-20 00:00 G	35353247.31	35353247.50	35353247.71	0.0139	0.0053
Venus	92082-06-03 08:24 G	35353473.64	35353473.85	35353474.06	0.0139	0.0025
Venus	92083-01-15 16:19 G	35353699.97	35353700.18	35353700.40	0.0138	0.0005
Venus	92083-08-30 00:00 G	35353926.30	35353926.50	35353926.72	0.0138	0.0031
Venus	92084-04-12 07:26 G	35354152.63	35354152.81	35354153.02	0.0138	0.0058
Venus	92084-11-24 14:53 G	35354378.96	35354379.12	35354379.30	0.0138	0.0085
Venus	92085-07-08 21:50 G	35354605.30	35354605.41	35354605.55	0.0138	0.0112
Mars	92094-10-25 16:19 G	35358000.92	35358001.18	35358001.45	0.0135	0.0042
Mercury	92096-03-18 18:58 G	35358511.20	35358511.29	35358511.39	0.0135	0.0117
Mercury	92096-06-15 02:10 G	35358599.45	35358599.59	35358599.74	0.0135	0.0090
Mercury	92096-09-11 09:36 G	35358687.73	35358687.90	35358688.07	0.0135	0.0063
Mercury	92096-12-08 16:34 G	35358776.01	35358776.19	35358776.38	0.0135	0.0037
Mercury	92097-03-07 00:00 G	35358864.31	35358864.50	35358864.69	0.0135	0.0010
Mercury	92097-06-03 07:12 G	35358952.61	35358952.80	35358952.99	0.0135	0.0017
Mercury	92097-08-30 14:10 G	35359040.91	35359041.09	35359041.27	0.0135	0.0043
Mercury	92097-11-26 21:07 G	35359129.23	35359129.38	35359129.55	0.0135	0.0070
Mercury	92098-02-23 04:19 G	35359217.55	35359217.68	35359217.82	0.0135	0.0096
Mercury	92098-05-22 11:17 G	35359305.90	35359305.97	35359306.05	0.0134	0.0122
Earth	92115-07-10 09:50 G	35365562.73	35365562.91	35365563.09	0.0136	0.0094
Moon	92115-07-10 12:43 G	35365562.87	35365563.03	35365563.21	0.0136	0.0100 *
Moon	92116-07-13 14:53 G	35365931.87	35365932.12	35365932.36	0.0136	0.0021
Earth	92116-07-13 18:14 G	35365932.01	35365932.26	35365932.51	0.0136	0.0024 *
Earth	92117-07-18 02:53 G	35366301.40	35366301.62	35366301.87	0.0136	0.0048
Moon	92117-07-18 06:29 G	35366301.54	35366301.77	35366302.01	0.0136	0.0048 *
Moon	92118-07-22 08:53 G	35366670.76	35366670.87	35366671.02	0.0137	0.0117
Earth	92118-07-22 12:00 G	35366670.91	35366671.00	35366671.14	0.0137	0.0121 *

Venus	92123-12-04 14:24 G	35368632.03	35368632.10	35368632.17	0.0139	0.0130
Venus	92124-07-17 22:48 G	35368858.31	35368858.45	35368858.60	0.0139	0.0103
Venus	92125-03-01 07:41 G	35369084.64	35369084.82	35369085.01	0.0139	0.0075
Venus	92125-10-13 16:34 G	35369310.99	35369311.19	35369311.40	0.0139	0.0047
Venus	92126-05-28 01:55 G	35369537.37	35369537.58	35369537.80	0.0139	0.0019
Venus	92127-01-09 11:17 G	35369763.75	35369763.97	35369764.19	0.0140	0.0010
Venus	92127-08-23 20:38 G	35369990.16	35369990.36	35369990.58	0.0140	0.0039
Venus	92128-04-06 06:14 G	35370216.58	35370216.76	35370216.97	0.0140	0.0068
Venus	92128-11-18 16:05 G	35370443.03	35370443.17	35370443.35	0.0140	0.0098
Venus	92129-07-03 02:24 G	35370669.52	35370669.60	35370669.71	0.0141	0.0127
Mercury	92138-09-17 22:05 G	35374033.35	35374033.42	35374033.49	0.0143	0.0122
Mercury	92138-12-15 01:26 G	35374121.48	35374121.56	35374121.66	0.0143	0.0101
Mercury	92139-03-13 05:02 G	35374209.61	35374209.71	35374209.83	0.0143	0.0079
Mercury	92139-06-09 08:38 G	35374297.75	35374297.86	35374297.99	0.0143	0.0057
Mercury	92139-09-05 12:29 G	35374385.89	35374386.02	35374386.15	0.0144	0.0034
Mercury	92139-12-02 16:05 G	35374474.04	35374474.17	35374474.30	0.0144	0.0012
Mercury	92140-02-28 19:41 G	35374562.19	35374562.32	35374562.45	0.0144	0.0011
Mercury	92140-05-26 23:17 G	35374650.34	35374650.47	35374650.60	0.0144	0.0033
Mercury	92140-08-23 02:53 G	35374738.50	35374738.62	35374738.74	0.0144	0.0056
Mercury	92140-11-19 06:29 G	35374826.66	35374826.77	35374826.89	0.0144	0.0078
Mercury	92141-02-15 10:05 G	35374914.83	35374914.92	35374915.02	0.0144	0.0101
Mercury	92141-05-14 13:41 G	35375003.02	35375003.07	35375003.15	0.0144	0.0124
Earth	92156-01-10 12:14 G	35380356.86	35380357.01	35380357.20	0.0142	0.0105
Moon	92156-01-10 15:22 G	35380356.98	35380357.14	35380357.33	0.0142	0.0105 *
Moon	92157-01-14 08:53 G	35380726.62	35380726.87	35380727.12	0.0142	0.0027
Earth	92157-01-14 12:14 G	35380726.76	35380727.01	35380727.27	0.0142	0.0021 *
Earth	92158-01-19 11:02 G	35381096.75	35381096.96	35381097.21	0.0142	0.0063
Moon	92158-01-19 14:53 G	35381096.91	35381097.12	35381097.36	0.0142	0.0071 *
Moon	92159-01-24 06:00 G	35381466.71	35381466.75	35381466.83	0.0141	0.0138
Venus	92164-03-24 16:19 G	35383353.08	35383353.18	35383353.30	0.0139	0.0121

Venus	92164-11-06 00:58 G	35383579.39	35383579.54	35383579.72	0.0139	0.0093
Venus	92165-06-20 09:36 G	35383805.72	35383805.90	35383806.10	0.0139	0.0064
Venus	92166-02-01 18:00 G	35384032.04	35384032.25	35384032.46	0.0139	0.0036
Venus	92166-09-16 01:55 G	35384258.37	35384258.58	35384258.80	0.0139	0.0009
Venus	92167-04-30 09:50 G	35384484.70	35384484.91	35384485.13	0.0138	0.0019
Venus	92167-12-12 17:31 G	35384711.03	35384711.23	35384711.44	0.0138	0.0047
Venus	92168-07-26 00:43 G	35384937.36	35384937.53	35384937.73	0.0138	0.0074
Venus	92169-03-09 07:55 G	35385163.70	35385163.83	35385163.99	0.0138	0.0101
Venus	92169-10-21 15:07 G	35385390.05	35385390.13	35385390.22	0.0138	0.0127
Mars	92179-06-20 23:02 G	35388919.21	35388919.46	35388919.72	0.0135	0.0054
Mercury	92180-01-11 19:26 G	35389124.31	35389124.31	35389124.32	0.0135	0.0135
Mercury	92180-04-09 02:38 G	35389212.51	35389212.61	35389212.73	0.0135	0.0108
Mercury	92180-07-06 09:50 G	35389300.77	35389300.91	35389301.08	0.0135	0.0081
Mercury	92180-10-02 17:17 G	35389389.05	35389389.22	35389389.40	0.0135	0.0054
Mercury	92180-12-30 00:29 G	35389477.34	35389477.52	35389477.71	0.0135	0.0027
Mercury	92181-03-28 07:41 G	35389565.63	35389565.82	35389566.02	0.0135	0.0002
Mercury	92181-06-24 14:53 G	35389653.93	35389654.12	35389654.31	0.0135	0.0026
Mercury	92181-09-20 21:50 G	35389742.24	35389742.41	35389742.59	0.0135	0.0053
Mercury	92181-12-18 05:02 G	35389830.56	35389830.71	35389830.87	0.0135	0.0079
Mercury	92182-03-16 11:46 G	35389918.89	35389918.99	35389919.12	0.0135	0.0106
Mercury	92182-06-12 19:12 G	35390007.26	35390007.30	35390007.34	0.0135	0.0131
Earth	92199-07-10 22:05 G	35396244.23	35396244.42	35396244.61	0.0136	0.0088
Moon	92199-07-11 01:12 G	35396244.36	35396244.55	35396244.76	0.0136	0.0083 *
Moon	92200-07-15 03:36 G	35396613.41	35396613.65	35396613.90	0.0136	0.0022
Earth	92200-07-15 06:29 G	35396613.53	35396613.77	35396614.03	0.0136	0.0018 *
Earth	92201-07-19 15:22 G	35396982.91	35396983.14	35396983.37	0.0136	0.0055
Moon	92201-07-19 18:43 G	35396983.05	35396983.28	35396983.51	0.0136	0.0054 *
Moon	92202-07-23 21:22 G	35397352.34	35397352.39	35397352.48	0.0137	0.0131
Earth	92202-07-24 01:12 G	35397352.46	35397352.55	35397352.64	0.0137	0.0127 *
Venus	92208-03-18 08:10 G	35399416.72	35399416.84	35399416.97	0.0139	0.0114

Venus	92208-10-30 17:02 G	35399643.04	35399643.21	35399643.38	0.0139	0.0086
Venus	92209-06-14 01:55 G	35399869.38	35399869.58	35399869.78	0.0139	0.0059
Venus	92210-01-26 11:02 G	35400095.75	35400095.96	35400096.17	0.0139	0.0030
Venus	92210-09-09 20:10 G	35400322.12	35400322.34	35400322.56	0.0140	0.0002
Venus	92211-04-24 05:31 G	35400548.52	35400548.73	35400548.95	0.0140	0.0027
Venus	92211-12-06 15:07 G	35400774.93	35400775.13	35400775.34	0.0140	0.0056
Venus	92212-07-20 00:43 G	35401001.38	35401001.53	35401001.72	0.0140	0.0086
Venus	92213-03-03 11:17 G	35401227.84	35401227.97	35401228.09	0.0141	0.0114
Mars	92221-09-30 04:05 G	35404360.36	35404360.67	35404361.00	0.0143	0.0046
Mercury	92222-07-13 02:10 G	35404646.56	35404646.59	35404646.63	0.0143	0.0136
Mercury	92222-10-09 05:46 G	35404734.67	35404734.74	35404734.82	0.0143	0.0114
Mercury	92223-01-05 09:22 G	35404822.79	35404822.89	35404822.99	0.0143	0.0092
Mercury	92223-04-03 12:58 G	35404910.93	35404911.04	35404911.16	0.0143	0.0070
Mercury	92223-06-30 16:34 G	35404999.07	35404999.19	35404999.32	0.0144	0.0048
Mercury	92223-09-26 20:10 G	35405087.21	35405087.34	35405087.47	0.0144	0.0026
Mercury	92223-12-23 23:46 G	35405175.36	35405175.49	35405175.62	0.0144	0.0004
Mercury	92224-03-21 03:22 G	35405263.51	35405263.64	35405263.77	0.0144	0.0019
Mercury	92224-06-17 06:58 G	35405351.67	35405351.79	35405351.92	0.0144	0.0041
Mercury	92224-09-13 10:34 G	35405439.83	35405439.94	35405440.07	0.0144	0.0064
Mercury	92224-12-10 14:24 G	35405527.99	35405528.10	35405528.20	0.0144	0.0086
Mercury	92225-03-08 18:00 G	35405616.17	35405616.25	35405616.34	0.0144	0.0109
Mercury	92225-06-04 21:36 G	35405704.35	35405704.40	35405704.46	0.0144	0.0132
Earth	92240-01-12 01:41 G	35411038.41	35411038.57	35411038.78	0.0142	0.0098
Moon	92240-01-12 05:17 G	35411038.54	35411038.72	35411038.91	0.0142	0.0099 *
Moon	92241-01-15 22:48 G	35411408.20	35411408.45	35411408.71	0.0142	0.0009
Earth	92241-01-16 01:55 G	35411408.33	35411408.58	35411408.84	0.0142	0.0014 *
Earth	92242-01-21 00:58 G	35411778.33	35411778.54	35411778.77	0.0142	0.0071
Moon	92242-01-21 04:19 G	35411778.46	35411778.68	35411778.93	0.0142	0.0064 *
Venus	92247-11-24 03:07 G	35413911.56	35413911.63	35413911.71	0.0140	0.0131
Venus	92248-07-07 12:00 G	35414137.85	35414138.00	35414138.14	0.0139	0.0103

Venus	92249-02-18 20:10 G	35414364.17	35414364.34	35414364.54	0.0139	0.0075
Venus	92249-10-03 04:34 G	35414590.50	35414590.69	35414590.90	0.0139	0.0047
Venus	92250-05-17 12:58 G	35414816.82	35414817.04	35414817.25	0.0139	0.0019
Venus	92250-12-29 20:53 G	35415043.16	35415043.37	35415043.59	0.0139	0.0009
Venus	92251-08-13 04:34 G	35415269.49	35415269.69	35415269.91	0.0138	0.0036
Venus	92252-03-26 12:00 G	35415495.82	35415496.00	35415496.20	0.0138	0.0064
Venus	92252-11-07 19:26 G	35415722.15	35415722.31	35415722.47	0.0138	0.0090
Venus	92253-06-22 02:24 G	35415948.50	35415948.60	35415948.72	0.0138	0.0117
Mars	92262-03-17 09:22 G	35419138.68	35419138.89	35419139.13	0.0135	0.0081
Mercury	92264-02-02 03:36 G	35419825.58	35419825.65	35419825.73	0.0135	0.0124
Mercury	92264-04-30 10:48 G	35419913.83	35419913.95	35419914.09	0.0135	0.0097
Mercury	92264-07-27 18:14 G	35420002.10	35420002.26	35420002.43	0.0135	0.0070
Mercury	92264-10-24 01:26 G	35420090.38	35420090.56	35420090.75	0.0135	0.0043
Mercury	92265-01-20 08:38 G	35420178.67	35420178.86	35420179.06	0.0135	0.0017
Mercury	92265-04-18 15:50 G	35420266.97	35420267.16	35420267.36	0.0135	0.0011
Mercury	92265-07-15 23:02 G	35420355.28	35420355.46	35420355.65	0.0135	0.0037
Mercury	92265-10-12 06:00 G	35420443.59	35420443.75	35420443.93	0.0135	0.0063
Mercury	92266-01-08 12:58 G	35420531.91	35420532.04	35420532.19	0.0135	0.0090
Mercury	92266-04-06 19:55 G	35420620.25	35420620.33	35420620.44	0.0135	0.0116
Earth	92283-07-12 11:31 G	35426925.79	35426925.98	35426926.19	0.0136	0.0081
Moon	92283-07-12 14:10 G	35426925.90	35426926.09	35426926.29	0.0136	0.0087 *
Moon	92284-07-15 17:17 G	35427294.97	35427295.22	35427295.47	0.0136	0.0007
Earth	92284-07-15 20:10 G	35427295.09	35427295.34	35427295.59	0.0136	0.0010 *
Earth	92285-07-20 05:02 G	35427664.49	35427664.71	35427664.94	0.0136	0.0063
Moon	92285-07-20 07:55 G	35427664.61	35427664.83	35427665.07	0.0136	0.0062 *
Moon	92286-07-24 11:31 G	35428033.94	35428033.98	35428034.06	0.0137	0.0133
Earth	92286-07-24 14:53 G	35428034.09	35428034.12	35428034.15	0.0137	0.0135
Venus	92291-11-16 18:29 G	35429975.18	35429975.27	35429975.37	0.0139	0.0124
Venus	92292-06-30 02:53 G	35430201.48	35430201.62	35430201.79	0.0139	0.0097
Venus	92293-02-11 11:46 G	35430427.81	35430427.99	35430428.19	0.0139	0.0070

Venus	92293-09-25 20:38 G	35430654.16	35430654.36	35430654.58	0.0139	0.0042
Venus	92294-05-10 06:00 G	35430880.53	35430880.75	35430880.97	0.0140	0.0013
Venus	92294-12-22 15:22 G	35431106.92	35431107.14	35431107.36	0.0140	0.0016
Venus	92295-08-06 00:43 G	35431333.33	35431333.53	35431333.75	0.0140	0.0045
Venus	92296-03-19 10:34 G	35431559.76	35431559.94	35431560.13	0.0140	0.0074
Venus	92296-10-31 20:24 G	35431786.21	35431786.35	35431786.51	0.0140	0.0103
Venus	92297-06-15 06:43 G	35432012.72	35432012.78	35432012.87	0.0141	0.0132
Mars	92306-05-29 04:48 G	35435281.48	35435281.70	35435281.96	0.0143	0.0101
Mercury	92306-08-03 10:19 G	35435347.87	35435347.93	35435347.99	0.0143	0.0127
Mercury	92306-10-30 13:41 G	35435435.99	35435436.07	35435436.17	0.0143	0.0105
Mercury	92307-01-26 17:17 G	35435524.12	35435524.22	35435524.33	0.0143	0.0083
Mercury	92307-04-24 20:53 G	35435612.25	35435612.37	35435612.49	0.0144	0.0061
Mercury	92307-07-22 00:29 G	35435700.40	35435700.52	35435700.65	0.0144	0.0039
Mercury	92307-10-18 04:05 G	35435788.54	35435788.67	35435788.81	0.0144	0.0017
Mercury	92308-01-14 07:41 G	35435876.69	35435876.82	35435876.96	0.0144	0.0008
Mercury	92308-04-11 11:17 G	35435964.85	35435964.97	35435965.11	0.0144	0.0029
Mercury	92308-07-08 14:53 G	35436053.00	35436053.12	35436053.25	0.0144	0.0051
Mercury	92308-10-04 18:43 G	35436141.17	35436141.28	35436141.39	0.0144	0.0073
Mercury	92308-12-31 22:19 G	35436229.34	35436229.43	35436229.53	0.0144	0.0096
Mercury	92309-03-30 02:10 G	35436317.51	35436317.59	35436317.66	0.0144	0.0118
Mercury	92309-06-26 05:46 G	35436405.72	35436405.74	35436405.76	0.0144	0.0141
Earth	92324-01-13 17:17 G	35441720.04	35441720.22	35441720.44	0.0142	0.0089
Moon	92324-01-13 19:41 G	35441720.14	35441720.32	35441720.55	0.0142	0.0089 *
Moon	92325-01-17 14:38 G	35442089.86	35442090.11	35442090.36	0.0142	0.0008
Earth	92325-01-17 17:31 G	35442089.98	35442090.23	35442090.49	0.0142	0.0004 *
Earth	92326-01-22 16:19 G	35442459.99	35442460.18	35442460.41	0.0142	0.0081
Moon	92326-01-22 20:10 G	35442460.14	35442460.34	35442460.55	0.0142	0.0088 *
Venus	92332-03-07 22:48 G	35444696.34	35444696.45	35444696.59	0.0140	0.0114
Venus	92332-10-20 07:26 G	35444922.66	35444922.81	35444923.00	0.0139	0.0086
Venus	92333-06-03 16:05 G	35445148.98	35445149.17	35445149.38	0.0139	0.0057

Venus	92334-01-16 00:29 G	35445375.31	35445375.52	35445375.73	0.0139	0.0029
Venus	92334-08-30 08:24 G	35445601.64	35445601.85	35445602.07	0.0139	0.0003
Venus	92335-04-13 16:05 G	35445827.97	35445828.17	35445828.39	0.0138	0.0027
Venus	92335-11-25 23:46 G	35446054.30	35446054.49	35446054.70	0.0138	0.0054
Venus	92336-07-09 07:12 G	35446280.63	35446280.80	35446280.98	0.0138	0.0080
Venus	92337-02-20 14:10 G	35446506.97	35446507.09	35446507.24	0.0138	0.0107
Venus	92337-10-04 21:22 G	35446733.35	35446733.39	35446733.45	0.0138	0.0133
Mars	92346-11-10 18:14 G	35450056.99	35450057.26	35450057.55	0.0135	0.0019
Mercury	92348-02-23 11:46 G	35450526.90	35450526.99	35450527.11	0.0135	0.0113
Mercury	92348-05-21 19:12 G	35450615.16	35450615.30	35450615.46	0.0135	0.0086
Mercury	92348-08-18 02:24 G	35450703.44	35450703.60	35450703.78	0.0135	0.0059
Mercury	92348-11-14 09:50 G	35450791.72	35450791.91	35450792.10	0.0135	0.0032
Mercury	92349-02-10 17:02 G	35450880.02	35450880.21	35450880.40	0.0135	0.0005
Mercury	92349-05-10 00:14 G	35450968.32	35450968.51	35450968.70	0.0135	0.0021
Mercury	92349-08-06 07:12 G	35451056.63	35451056.80	35451056.98	0.0135	0.0048
Mercury	92349-11-02 14:24 G	35451144.94	35451145.10	35451145.26	0.0134	0.0074
Mercury	92350-01-29 21:07 G	35451233.27	35451233.38	35451233.52	0.0134	0.0101
Mercury	92350-04-28 04:05 G	35451321.62	35451321.67	35451321.75	0.0134	0.0127
Earth	92367-07-13 23:46 G	35457607.29	35457607.49	35457607.71	0.0136	0.0075
Moon	92367-07-14 02:24 G	35457607.39	35457607.60	35457607.83	0.0136	0.0069 *
Moon	92368-07-17 06:14 G	35457976.52	35457976.76	35457977.01	0.0136	0.0008
Earth	92368-07-17 08:24 G	35457976.60	35457976.85	35457977.11	0.0136	0.0004 *
Earth	92369-07-21 17:02 G	35458346.01	35458346.21	35458346.44	0.0136	0.0069
Moon	92369-07-21 19:41 G	35458346.11	35458346.32	35458346.56	0.0136	0.0069 *
Venus	92375-07-18 03:07 G	35460533.60	35460533.63	35460533.69	0.0138	0.0135
Venus	92376-02-29 11:17 G	35460759.86	35460759.97	35460760.13	0.0139	0.0109
Venus	92376-10-12 20:10 G	35460986.17	35460986.34	35460986.52	0.0139	0.0081
Venus	92377-05-27 05:02 G	35461212.52	35461212.71	35461212.92	0.0139	0.0054
Venus	92378-01-08 14:10 G	35461438.88	35461439.09	35461439.31	0.0139	0.0025
Venus	92378-08-22 23:17 G	35461665.25	35461665.47	35461665.69	0.0140	0.0004

Venus	92379-04-06 08:38 G	35461891.65	35461891.86	35461892.08	0.0140	0.0032
Venus	92379-11-18 18:14 G	35462118.07	35462118.26	35462118.46	0.0140	0.0061
Venus	92380-07-02 04:05 G	35462344.51	35462344.67	35462344.85	0.0140	0.0090
Venus	92381-02-13 14:10 G	35462570.98	35462571.09	35462571.22	0.0140	0.0118
Mars	92389-02-15 09:50 G	35465494.71	35465494.91	35465495.14	0.0143	0.0111
Mercury	92390-05-27 14:10 G	35465961.08	35465961.09	35465961.10	0.0143	0.0143
Mercury	92390-08-23 17:31 G	35466049.17	35466049.23	35466049.30	0.0143	0.0121
Mercury	92390-11-19 21:07 G	35466137.29	35466137.38	35466137.48	0.0143	0.0099
Mercury	92391-02-16 00:43 G	35466225.42	35466225.53	35466225.64	0.0144	0.0077
Mercury	92391-05-15 04:19 G	35466313.56	35466313.68	35466313.80	0.0144	0.0055
Mercury	92391-08-11 07:55 G	35466401.70	35466401.83	35466401.96	0.0144	0.0033
Mercury	92391-11-07 11:31 G	35466489.85	35466489.98	35466490.11	0.0144	0.0011
Mercury	92392-02-03 15:07 G	35466578.00	35466578.13	35466578.26	0.0144	0.0012
Mercury	92392-05-01 18:43 G	35466666.15	35466666.28	35466666.41	0.0144	0.0034
Mercury	92392-07-28 22:19 G	35466754.31	35466754.43	35466754.56	0.0144	0.0057
Mercury	92392-10-25 02:10 G	35466842.48	35466842.59	35466842.70	0.0144	0.0079
Mercury	92393-01-21 05:46 G	35466930.65	35466930.74	35466930.83	0.0144	0.0102
Mercury	92393-04-19 09:22 G	35467018.83	35467018.89	35467018.96	0.0144	0.0125
Earth	92408-01-14 06:58 G	35472401.59	35472401.79	35472402.01	0.0143	0.0080
Moon	92408-01-14 09:36 G	35472401.69	35472401.90	35472402.12	0.0143	0.0081 *
Moon	92409-01-18 04:48 G	35472771.46	35472771.70	35472771.96	0.0142	0.0009
Earth	92409-01-18 07:26 G	35472771.55	35472771.81	35472772.07	0.0142	0.0005 *
Earth	92410-01-23 06:14 G	35473141.59	35473141.76	35473141.98	0.0142	0.0090
Moon	92410-01-23 09:50 G	35473141.70	35473141.91	35473142.13	0.0142	0.0082 *
Venus	92415-11-06 09:50 G	35475254.83	35475254.91	35475255.02	0.0140	0.0124
Venus	92416-06-19 18:43 G	35475481.13	35475481.28	35475481.45	0.0140	0.0096
Venus	92417-02-01 03:22 G	35475707.46	35475707.64	35475707.83	0.0139	0.0067
Venus	92417-09-15 11:46 G	35475933.78	35475933.99	35475934.20	0.0139	0.0040
Venus	92418-04-29 19:55 G	35476160.11	35476160.33	35476160.54	0.0139	0.0012
Venus	92418-12-12 03:50 G	35476386.45	35476386.66	35476386.88	0.0139	0.0016

Venus	92419-07-26 11:31 G	35476612.78	35476612.98	35476613.19	0.0138	0.0043
Venus	92420-03-08 18:58 G	35476839.11	35476839.29	35476839.48	0.0138	0.0070
Venus	92420-10-21 02:10 G	35477065.45	35477065.59	35477065.75	0.0138	0.0097
Venus	92421-06-04 09:22 G	35477291.80	35477291.89	35477291.99	0.0138	0.0123
Mars	92429-08-06 05:17 G	35480276.58	35480276.72	35480276.87	0.0135	0.0115
Mars	92431-07-06 03:50 G	35480975.52	35480975.66	35480975.79	0.0135	0.0117
Mercury	92431-12-17 12:58 G	35481139.99	35481140.04	35481140.11	0.0135	0.0128
Mercury	92432-03-14 20:24 G	35481228.23	35481228.35	35481228.48	0.0135	0.0101
Mercury	92432-06-11 03:36 G	35481316.50	35481316.65	35481316.82	0.0135	0.0074
Mercury	92432-09-07 11:02 G	35481404.78	35481404.96	35481405.14	0.0135	0.0047
Mercury	92432-12-04 18:14 G	35481493.07	35481493.26	35481493.45	0.0135	0.0020
Mercury	92433-03-03 01:26 G	35481581.37	35481581.56	35481581.75	0.0135	0.0006
Mercury	92433-05-30 08:38 G	35481669.67	35481669.86	35481670.04	0.0134	0.0033
Mercury	92433-08-26 15:36 G	35481757.98	35481758.15	35481758.33	0.0134	0.0059
Mercury	92433-11-22 22:34 G	35481846.30	35481846.44	35481846.60	0.0134	0.0086
Mercury	92434-02-19 05:31 G	35481934.64	35481934.73	35481934.85	0.0134	0.0112
Moon	92450-07-10 03:07 G	35487919.58	35487919.63	35487919.68	0.0135	0.0132
Earth	92451-07-14 12:29 G	35488288.82	35488289.02	35488289.25	0.0136	0.0069
Moon	92451-07-14 14:10 G	35488288.88	35488289.09	35488289.32	0.0136	0.0075 *
Moon	92452-07-17 18:58 G	35488658.05	35488658.29	35488658.53	0.0136	0.0007
Earth	92452-07-17 21:07 G	35488658.13	35488658.38	35488658.63	0.0136	0.0003 *
Earth	92453-07-22 05:31 G	35489027.54	35489027.73	35489027.96	0.0136	0.0076
Moon	92453-07-22 07:41 G	35489027.62	35489027.82	35489028.05	0.0136	0.0074 *
Venus	92459-10-29 20:24 G	35491318.25	35491318.35	35491318.47	0.0138	0.0120
Venus	92460-06-12 04:48 G	35491544.56	35491544.70	35491544.88	0.0139	0.0093
Venus	92461-01-24 13:41 G	35491770.88	35491771.07	35491771.27	0.0139	0.0065
Venus	92461-09-07 22:34 G	35491997.23	35491997.44	35491997.65	0.0139	0.0037
Venus	92462-04-22 07:41 G	35492223.60	35492223.82	35492224.04	0.0139	0.0009
Venus	92462-12-04 16:48 G	35492449.99	35492450.20	35492450.42	0.0140	0.0019
Venus	92463-07-19 02:24 G	35492676.40	35492676.60	35492676.81	0.0140	0.0048

Venus	92464-03-01 11:46 G	35492902.83	35492902.99	35492903.19	0.0140	0.0077
Venus	92464-10-13 21:50 G	35493129.28	35493129.41	35493129.57	0.0140	0.0106
Venus	92465-05-28 07:55 G	35493355.79	35493355.83	35493355.91	0.0141	0.0135
Mars	92473-10-12 23:46 G	35496415.17	35496415.49	35496415.84	0.0143	0.0027
Mercury	92474-06-16 21:07 G	35496662.36	35496662.38	35496662.43	0.0143	0.0138
Mercury	92474-09-13 00:43 G	35496750.47	35496750.53	35496750.62	0.0143	0.0116
Mercury	92474-12-10 04:19 G	35496838.59	35496838.68	35496838.79	0.0144	0.0094
Mercury	92475-03-08 07:55 G	35496926.72	35496926.83	35496926.95	0.0144	0.0072
Mercury	92475-06-04 11:31 G	35497014.86	35497014.98	35497015.11	0.0144	0.0050
Mercury	92475-08-31 15:07 G	35497103.01	35497103.13	35497103.27	0.0144	0.0028
Mercury	92475-11-27 18:58 G	35497191.15	35497191.29	35497191.42	0.0144	0.0006
Mercury	92476-02-23 22:34 G	35497279.31	35497279.44	35497279.57	0.0144	0.0018
Mercury	92476-05-22 02:10 G	35497367.46	35497367.59	35497367.72	0.0144	0.0040
Mercury	92476-08-18 05:46 G	35497455.62	35497455.74	35497455.86	0.0144	0.0063
Mercury	92476-11-14 09:22 G	35497543.79	35497543.89	35497544.00	0.0144	0.0085
Mercury	92477-02-10 12:58 G	35497631.96	35497632.04	35497632.13	0.0144	0.0108
Mercury	92477-05-09 16:34 G	35497720.15	35497720.19	35497720.25	0.0144	0.0131
Earth	92492-01-14 18:29 G	35503083.06	35503083.27	35503083.50	0.0143	0.0075
Moon	92492-01-14 19:55 G	35503083.12	35503083.33	35503083.57	0.0143	0.0076 *
Moon	92493-01-18 16:48 G	35503452.96	35503453.20	35503453.45	0.0142	0.0008
Earth	92493-01-18 19:12 G	35503453.04	35503453.30	35503453.56	0.0142	0.0011 *
Earth	92494-01-23 18:29 G	35503823.09	35503823.27	35503823.47	0.0142	0.0096
Moon	92494-01-23 21:22 G	35503823.21	35503823.39	35503823.57	0.0142	0.0103 *
Venus	92499-07-06 19:26 G	35505813.27	35505813.31	35505813.38	0.0140	0.0135
Venus	92500-02-18 04:19 G	35506039.56	35506039.68	35506039.83	0.0140	0.0107
Venus	92500-10-02 13:12 G	35506265.88	35506266.05	35506266.23	0.0140	0.0079
Venus	92501-05-16 21:50 G	35506492.21	35506492.41	35506492.61	0.0139	0.0051
Venus	92501-12-29 06:14 G	35506718.55	35506718.76	35506718.97	0.0139	0.0023
Venus	92502-08-12 14:10 G	35506944.88	35506945.09	35506945.31	0.0139	0.0006
Venus	92503-03-26 22:05 G	35507171.21	35507171.42	35507171.63	0.0139	0.0032

Venus	92503-11-08 05:46 G	35507397.55	35507397.74	35507397.94	0.0138	0.0059
Venus	92504-06-21 13:12 G	35507623.89	35507624.05	35507624.22	0.0138	0.0086
Venus	92505-02-02 20:24 G	35507850.24	35507850.35	35507850.49	0.0138	0.0113
Mars	92514-04-01 14:38 G	35511194.84	35511195.11	35511195.39	0.0135	0.0016
Mercury	92516-01-07 21:07 G	35511841.30	35511841.38	35511841.49	0.0135	0.0117
Mercury	92516-04-05 04:34 G	35511929.56	35511929.69	35511929.84	0.0135	0.0090
Mercury	92516-07-02 12:00 G	35512017.83	35512018.00	35512018.17	0.0135	0.0063
Mercury	92516-09-28 19:12 G	35512106.12	35512106.30	35512106.49	0.0135	0.0036
Mercury	92516-12-26 02:24 G	35512194.41	35512194.60	35512194.80	0.0135	0.0010
Mercury	92517-03-24 09:36 G	35512282.71	35512282.90	35512283.09	0.0135	0.0018
Mercury	92517-06-20 16:48 G	35512371.02	35512371.20	35512371.38	0.0134	0.0044
Mercury	92517-09-16 23:46 G	35512459.34	35512459.49	35512459.66	0.0134	0.0070
Mercury	92517-12-14 06:43 G	35512547.66	35512547.78	35512547.93	0.0134	0.0097
Mercury	92518-03-12 13:55 G	35512636.01	35512636.08	35512636.16	0.0134	0.0122
Earth	92534-07-11 17:31 G	35518601.19	35518601.23	35518601.29	0.0135	0.0133
Earth	92535-07-16 01:26 G	35518970.34	35518970.56	35518970.78	0.0136	0.0062
Moon	92535-07-16 02:53 G	35518970.39	35518970.62	35518970.87	0.0136	0.0055 *
Moon	92536-07-19 08:24 G	35519339.61	35519339.85	35519340.10	0.0136	0.0005
Earth	92536-07-19 09:36 G	35519339.65	35519339.90	35519340.15	0.0136	0.0010 *
Earth	92537-07-23 18:00 G	35519709.06	35519709.25	35519709.46	0.0136	0.0082
Moon	92537-07-23 19:55 G	35519709.13	35519709.33	35519709.54	0.0136	0.0083 *
Venus	92543-06-30 05:02 G	35521876.65	35521876.71	35521876.79	0.0138	0.0130
Venus	92544-02-11 13:26 G	35522102.92	35522103.06	35522103.21	0.0138	0.0104
Venus	92544-09-24 21:36 G	35522329.23	35522329.40	35522329.59	0.0139	0.0077
Venus	92545-05-09 06:29 G	35522555.57	35522555.77	35522555.98	0.0139	0.0049
Venus	92545-12-21 15:36 G	35522781.93	35522782.15	35522782.36	0.0139	0.0022
Venus	92546-08-05 00:29 G	35523008.31	35523008.52	35523008.74	0.0139	0.0007
Venus	92547-03-19 09:50 G	35523234.70	35523234.91	35523235.12	0.0140	0.0035
Venus	92547-10-31 19:12 G	35523461.11	35523461.30	35523461.50	0.0140	0.0064
Venus	92548-06-14 05:02 G	35523687.55	35523687.71	35523687.88	0.0140	0.0092

Venus	92549-01-26 15:07 G	35523914.02	35523914.13	35523914.24	0.0140	0.0121
Mercury	92558-07-08 04:19 G	35527363.64	35527363.68	35527363.73	0.0143	0.0133
Mercury	92558-10-04 07:55 G	35527451.75	35527451.83	35527451.91	0.0143	0.0112
Mercury	92558-12-31 11:31 G	35527539.87	35527539.98	35527540.08	0.0143	0.0090
Mercury	92559-03-29 14:53 G	35527628.01	35527628.12	35527628.24	0.0144	0.0068
Mercury	92559-06-25 18:29 G	35527716.15	35527716.27	35527716.40	0.0144	0.0046
Mercury	92559-09-21 22:05 G	35527804.29	35527804.42	35527804.55	0.0144	0.0024
Mercury	92559-12-19 01:41 G	35527892.44	35527892.57	35527892.71	0.0144	0.0004
Mercury	92560-03-16 05:17 G	35527980.59	35527980.72	35527980.85	0.0144	0.0021
Mercury	92560-06-12 08:53 G	35528068.75	35528068.87	35528069.00	0.0144	0.0044
Mercury	92560-09-08 12:43 G	35528156.91	35528157.03	35528157.14	0.0144	0.0066
Mercury	92560-12-05 16:05 G	35528245.08	35528245.17	35528245.28	0.0144	0.0089
Mercury	92561-03-03 19:41 G	35528333.25	35528333.32	35528333.42	0.0144	0.0112
Mercury	92561-05-30 23:31 G	35528421.44	35528421.48	35528421.53	0.0144	0.0134
Earth	92576-01-16 02:38 G	35533764.40	35533764.61	35533764.85	0.0143	0.0071
Moon	92576-01-16 03:50 G	35533764.44	35533764.66	35533764.91	0.0143	0.0070 *
Moon	92577-01-20 02:10 G	35534134.35	35534134.59	35534134.84	0.0142	0.0018
Earth	92577-01-20 03:36 G	35534134.39	35534134.65	35534134.91	0.0142	0.0016 *
Earth	92578-01-25 03:07 G	35534504.46	35534504.63	35534504.82	0.0142	0.0101
Moon	92578-01-25 05:31 G	35534504.54	35534504.73	35534504.93	0.0142	0.0094 *
Venus	92583-10-19 12:14 G	35536597.91	35536598.01	35536598.14	0.0140	0.0119
Venus	92584-06-01 21:07 G	35536824.23	35536824.38	35536824.56	0.0140	0.0091
Venus	92585-01-14 06:00 G	35537050.57	35537050.75	35537050.95	0.0140	0.0063
Venus	92585-08-28 14:38 G	35537276.90	35537277.11	35537277.32	0.0139	0.0035
Venus	92586-04-11 23:02 G	35537503.24	35537503.46	35537503.67	0.0139	0.0007
Venus	92586-11-24 06:58 G	35537729.58	35537729.79	35537730.01	0.0139	0.0021
Venus	92587-07-08 15:07 G	35537955.92	35537956.13	35537956.33	0.0139	0.0048
Venus	92588-02-19 22:19 G	35538182.27	35538182.43	35538182.63	0.0138	0.0076
Venus	92588-10-03 06:14 G	35538408.62	35538408.76	35538408.91	0.0138	0.0102
Venus	92589-05-17 13:12 G	35538634.99	35538635.05	35538635.15	0.0138	0.0128

Mars	92598-11-24 22:19 G	35542113.22	35542113.43	35542113.67	0.0135	0.0081
Mercury	92599-10-31 21:50 G	35542454.40	35542454.41	35542454.45	0.0135	0.0134
Mercury	92600-01-28 05:17 G	35542542.61	35542542.72	35542542.85	0.0135	0.0107
Mercury	92600-04-26 12:29 G	35542630.88	35542631.02	35542631.19	0.0135	0.0080
Mercury	92600-07-23 19:55 G	35542719.16	35542719.33	35542719.51	0.0135	0.0053
Mercury	92600-10-20 03:22 G	35542807.45	35542807.64	35542807.83	0.0135	0.0026
Mercury	92601-01-16 10:34 G	35542895.75	35542895.94	35542896.13	0.0135	0.0001
Mercury	92601-04-14 17:46 G	35542984.05	35542984.24	35542984.43	0.0135	0.0028
Mercury	92601-07-12 00:43 G	35543072.36	35543072.53	35543072.71	0.0135	0.0054
Mercury	92601-10-08 07:41 G	35543160.68	35543160.82	35543160.99	0.0135	0.0081
Mercury	92602-01-04 14:53 G	35543249.01	35543249.12	35543249.24	0.0134	0.0107
Mercury	92602-04-02 22:05 G	35543337.40	35543337.42	35543337.45	0.0134	0.0133
Moon	92618-07-13 06:43 G	35549282.67	35549282.78	35549282.90	0.0135	0.0119
Earth	92618-07-13 07:26 G	35549282.73	35549282.81	35549282.92	0.0135	0.0126 *
Earth	92619-07-17 15:22 G	35549651.92	35549652.14	35549652.38	0.0135	0.0054
Moon	92619-07-17 15:36 G	35549651.94	35549652.15	35549652.40	0.0135	0.0062 *
Moon	92620-07-20 22:19 G	35550021.19	35550021.43	35550021.67	0.0136	0.0022
Earth	92620-07-20 23:31 G	35550021.23	35550021.48	35550021.73	0.0136	0.0017 *
Earth	92621-07-25 07:41 G	35550390.65	35550390.82	35550391.03	0.0136	0.0090
Moon	92621-07-25 08:53 G	35550390.68	35550390.87	35550391.08	0.0136	0.0087 *
Venus	92627-10-12 23:31 G	35552661.36	35552661.48	35552661.61	0.0138	0.0113
Venus	92628-05-26 07:55 G	35552887.67	35552887.83	35552888.01	0.0138	0.0087
Venus	92629-01-07 16:19 G	35553114.00	35553114.18	35553114.39	0.0139	0.0060
Venus	92629-08-22 01:12 G	35553340.34	35553340.55	35553340.77	0.0139	0.0032
Venus	92630-04-05 10:05 G	35553566.71	35553566.92	35553567.15	0.0139	0.0006
Venus	92630-11-17 19:12 G	35553793.09	35553793.30	35553793.52	0.0139	0.0025
Venus	92631-07-02 04:48 G	35554019.50	35554019.70	35554019.91	0.0140	0.0052
Venus	92632-02-13 14:10 G	35554245.93	35554246.09	35554246.28	0.0140	0.0081
Venus	92632-09-27 00:00 G	35554472.38	35554472.50	35554472.65	0.0140	0.0109
Venus	92633-05-11 10:05 G	35554698.89	35554698.92	35554698.97	0.0140	0.0138

Mars	92641-02-28 16:05 G	35557548.87	35557549.17	35557549.51	0.0143	0.0049
Mercury	92642-07-29 11:46 G	35558064.94	35558064.99	35558065.05	0.0143	0.0127
Mercury	92642-10-25 15:22 G	35558153.05	35558153.14	35558153.23	0.0143	0.0105
Mercury	92643-01-21 18:43 G	35558241.18	35558241.28	35558241.40	0.0143	0.0084
Mercury	92643-04-19 22:34 G	35558329.32	35558329.44	35558329.56	0.0143	0.0061
Mercury	92643-07-17 02:10 G	35558417.46	35558417.59	35558417.72	0.0143	0.0039
Mercury	92643-10-13 05:46 G	35558505.61	35558505.74	35558505.87	0.0144	0.0017
Mercury	92644-01-09 09:22 G	35558593.76	35558593.89	35558594.02	0.0144	0.0006
Mercury	92644-04-06 12:58 G	35558681.91	35558682.04	35558682.17	0.0144	0.0028
Mercury	92644-07-03 16:34 G	35558770.07	35558770.19	35558770.31	0.0144	0.0050
Mercury	92644-09-29 20:10 G	35558858.23	35558858.34	35558858.46	0.0144	0.0073
Mercury	92644-12-26 23:46 G	35558946.40	35558946.49	35558946.59	0.0144	0.0096
Mercury	92645-03-25 03:22 G	35559034.57	35559034.64	35559034.72	0.0144	0.0119
Mercury	92645-06-21 07:12 G	35559122.78	35559122.80	35559122.82	0.0144	0.0141
Moon	92660-01-17 13:26 G	35564445.84	35564446.06	35564446.30	0.0143	0.0068
Earth	92660-01-17 13:41 G	35564445.84	35564446.07	35564446.30	0.0143	0.0065 *
Moon	92661-01-21 13:12 G	35564815.80	35564816.05	35564816.30	0.0142	0.0019
Earth	92661-01-21 14:10 G	35564815.84	35564816.09	35564816.35	0.0142	0.0022 *
Earth	92662-01-26 13:26 G	35565185.92	35565186.06	35565186.25	0.0142	0.0107
Moon	92662-01-26 15:07 G	35565185.99	35565186.13	35565186.31	0.0142	0.0113 *
Venus	92667-06-19 20:53 G	35567156.29	35567156.37	35567156.45	0.0140	0.0131
Venus	92668-02-01 05:31 G	35567382.60	35567382.73	35567382.89	0.0140	0.0103
Venus	92668-09-14 14:24 G	35567608.93	35567609.10	35567609.30	0.0140	0.0075
Venus	92669-04-28 23:17 G	35567835.27	35567835.47	35567835.68	0.0139	0.0046
Venus	92669-12-11 07:55 G	35568061.62	35568061.83	35568062.05	0.0139	0.0019
Venus	92670-07-25 16:05 G	35568287.96	35568288.17	35568288.39	0.0139	0.0010
Venus	92671-03-09 00:00 G	35568514.30	35568514.50	35568514.72	0.0139	0.0037
Venus	92671-10-21 07:55 G	35568740.64	35568740.83	35568741.03	0.0138	0.0064
Venus	92672-06-03 15:36 G	35568966.99	35568967.15	35568967.32	0.0138	0.0090
Venus	92673-01-15 23:02 G	35569193.36	35569193.46	35569193.59	0.0138	0.0117

Mars	92681-08-21 04:48 G	35572332.47	35572332.70	35572332.98	0.0135	0.0057
Mercury	92683-11-22 05:46 G	35573155.68	35573155.74	35573155.83	0.0135	0.0124
Mercury	92684-02-18 13:12 G	35573243.93	35573244.05	35573244.19	0.0135	0.0097
Mercury	92684-05-16 20:24 G	35573332.20	35573332.35	35573332.53	0.0135	0.0070
Mercury	92684-08-13 03:50 G	35573420.48	35573420.66	35573420.85	0.0135	0.0043
Mercury	92684-11-09 11:17 G	35573508.78	35573508.97	35573509.16	0.0135	0.0016
Mercury	92685-02-05 18:29 G	35573597.08	35573597.27	35573597.46	0.0135	0.0011
Mercury	92685-05-05 01:26 G	35573685.38	35573685.56	35573685.75	0.0135	0.0038
Mercury	92685-08-01 08:53 G	35573773.70	35573773.87	35573774.03	0.0135	0.0064
Mercury	92685-10-28 15:36 G	35573862.02	35573862.15	35573862.30	0.0135	0.0091
Mercury	92686-01-24 22:48 G	35573950.37	35573950.45	35573950.55	0.0135	0.0117
Earth	92702-07-14 21:36 G	35579964.30	35579964.40	35579964.54	0.0135	0.0118
Moon	92702-07-14 21:36 G	35579964.33	35579964.40	35579964.51	0.0135	0.0125 *
Earth	92703-07-19 05:31 G	35580333.50	35580333.73	35580333.97	0.0136	0.0047
Moon	92703-07-19 06:00 G	35580333.51	35580333.75	35580334.01	0.0136	0.0040 *
Moon	92704-07-22 13:26 G	35580702.82	35580703.06	35580703.30	0.0136	0.0020
Earth	92704-07-22 13:26 G	35580702.82	35580703.06	35580703.32	0.0136	0.0026 *
Earth	92705-07-26 21:50 G	35581072.25	35581072.41	35581072.60	0.0136	0.0098
Moon	92705-07-26 22:34 G	35581072.28	35581072.44	35581072.63	0.0136	0.0100 *
Venus	92711-06-13 10:05 G	35583219.83	35583219.92	35583220.03	0.0138	0.0123
Venus	92712-01-25 18:14 G	35583446.12	35583446.26	35583446.43	0.0138	0.0097
Venus	92712-09-08 02:38 G	35583672.43	35583672.61	35583672.81	0.0138	0.0070
Venus	92713-04-22 11:17 G	35583898.77	35583898.97	35583899.19	0.0139	0.0043
Venus	92713-12-04 20:10 G	35584125.13	35584125.34	35584125.56	0.0139	0.0015
Venus	92714-07-19 05:31 G	35584351.51	35584351.73	35584351.95	0.0139	0.0013
Venus	92715-03-02 14:38 G	35584577.90	35584578.11	35584578.32	0.0139	0.0041
Venus	92715-10-15 00:00 G	35584804.32	35584804.50	35584804.70	0.0140	0.0070
Venus	92716-05-28 09:36 G	35585030.76	35585030.90	35585031.07	0.0140	0.0098
Venus	92717-01-09 19:26 G	35585257.23	35585257.31	35585257.42	0.0140	0.0126
Mars	92725-10-27 10:48 G	35588469.71	35588469.95	35588470.23	0.0143	0.0093

Mercury	92726-05-23 16:05 G	35588678.15	35588678.17	35588678.19	0.0143	0.0141
Mercury	92726-08-19 19:26 G	35588766.24	35588766.31	35588766.39	0.0143	0.0119
Mercury	92726-11-15 23:02 G	35588854.37	35588854.46	35588854.56	0.0143	0.0097
Mercury	92727-02-12 02:38 G	35588942.50	35588942.61	35588942.72	0.0143	0.0075
Mercury	92727-05-11 06:14 G	35589030.64	35589030.76	35589030.88	0.0143	0.0053
Mercury	92727-08-07 09:50 G	35589118.78	35589118.91	35589119.04	0.0143	0.0031
Mercury	92727-11-03 13:26 G	35589206.93	35589207.06	35589207.19	0.0143	0.0009
Mercury	92728-01-30 17:02 G	35589295.08	35589295.21	35589295.34	0.0143	0.0013
Mercury	92728-04-27 20:38 G	35589383.23	35589383.36	35589383.49	0.0144	0.0036
Mercury	92728-07-25 00:14 G	35589471.39	35589471.51	35589471.63	0.0144	0.0058
Mercury	92728-10-21 03:50 G	35589559.55	35589559.66	35589559.77	0.0144	0.0081
Mercury	92729-01-17 07:26 G	35589647.72	35589647.81	35589647.91	0.0144	0.0103
Mercury	92729-04-15 11:17 G	35589735.91	35589735.97	35589736.03	0.0144	0.0126
Moon	92744-01-19 00:43 G	35595127.29	35595127.53	35595127.78	0.0143	0.0057
Earth	92744-01-19 00:58 G	35595127.31	35595127.54	35595127.78	0.0143	0.0059 *
Moon	92745-01-23 01:12 G	35595497.31	35595497.55	35595497.80	0.0142	0.0029
Earth	92745-01-23 01:26 G	35595497.31	35595497.56	35595497.82	0.0142	0.0028 *
Earth	92746-01-28 01:12 G	35595867.40	35595867.55	35595867.71	0.0142	0.0113
Moon	92746-01-28 01:55 G	35595867.43	35595867.58	35595867.77	0.0142	0.0108 *
Venus	92751-10-02 14:24 G	35597940.99	35597941.10	35597941.24	0.0140	0.0114
Venus	92752-05-15 23:31 G	35598167.32	35598167.48	35598167.66	0.0140	0.0086
Venus	92752-12-28 08:38 G	35598393.67	35598393.86	35598394.06	0.0140	0.0058
Venus	92753-08-11 17:02 G	35598620.01	35598620.21	35598620.43	0.0139	0.0031
Venus	92754-03-26 01:41 G	35598846.35	35598846.57	35598846.79	0.0139	0.0002
Venus	92754-11-07 09:50 G	35599072.70	35599072.91	35599073.13	0.0139	0.0025
Venus	92755-06-21 17:46 G	35599299.05	35599299.24	35599299.45	0.0139	0.0053
Venus	92756-02-03 01:41 G	35599525.40	35599525.57	35599525.76	0.0138	0.0080
Venus	92756-09-16 09:07 G	35599751.76	35599751.88	35599752.04	0.0138	0.0107
Venus	92757-04-30 16:48 G	35599978.15	35599978.20	35599978.27	0.0138	0.0132
Mars	92766-04-16 13:55 G	35603250.82	35603251.08	35603251.35	0.0135	0.0041

Mercury	92767-12-13 13:41 G	35603856.99	35603857.07	35603857.19	0.0135	0.0114
Mercury	92768-03-10 21:07 G	35603945.25	35603945.38	35603945.54	0.0135	0.0087
Mercury	92768-06-07 04:48 G	35604033.53	35604033.70	35604033.87	0.0135	0.0059
Mercury	92768-09-03 12:00 G	35604121.82	35604122.00	35604122.19	0.0135	0.0032
Mercury	92768-11-30 19:26 G	35604210.11	35604210.31	35604210.50	0.0135	0.0006
Mercury	92769-02-27 02:24 G	35604298.42	35604298.60	35604298.80	0.0135	0.0022
Mercury	92769-05-26 09:50 G	35604386.73	35604386.91	35604387.09	0.0135	0.0048
Mercury	92769-08-22 16:48 G	35604475.05	35604475.20	35604475.37	0.0135	0.0075
Mercury	92769-11-19 00:00 G	35604563.38	35604563.50	35604563.63	0.0135	0.0101
Mercury	92770-02-15 06:43 G	35604651.74	35604651.78	35604651.86	0.0135	0.0128
Earth	92786-07-15 12:14 G	35610645.88	35610646.01	35610646.17	0.0135	0.0111
Moon	92786-07-15 12:29 G	35610645.88	35610646.02	35610646.19	0.0135	0.0104 *
Moon	92787-07-19 19:26 G	35611015.08	35611015.31	35611015.57	0.0136	0.0046
Earth	92787-07-19 20:10 G	35611015.10	35611015.34	35611015.58	0.0136	0.0039 *
Moon	92788-07-23 03:50 G	35611384.43	35611384.66	35611384.90	0.0136	0.0039
Earth	92788-07-23 04:05 G	35611384.43	35611384.67	35611384.92	0.0136	0.0034 *
Moon	92789-07-27 12:14 G	35611753.86	35611754.01	35611754.20	0.0136	0.0103
Earth	92789-07-27 12:43 G	35611753.88	35611754.03	35611754.18	0.0136	0.0107 *
Venus	92795-02-10 21:22 G	35613778.34	35613778.39	35613778.46	0.0138	0.0132
Venus	92795-09-25 05:17 G	35614004.60	35614004.72	35614004.87	0.0138	0.0106
Venus	92796-05-08 13:41 G	35614230.91	35614231.07	35614231.26	0.0138	0.0080
Venus	92796-12-20 22:34 G	35614457.24	35614457.44	35614457.65	0.0139	0.0052
Venus	92797-08-04 07:12 G	35614683.59	35614683.80	35614684.02	0.0139	0.0025
Venus	92798-03-18 16:19 G	35614909.96	35614910.18	35614910.40	0.0139	0.0003
Venus	92798-10-31 01:26 G	35615136.35	35615136.56	35615136.78	0.0139	0.0031
Venus	92799-06-14 10:48 G	35615362.76	35615362.95	35615363.16	0.0140	0.0059
Venus	92800-01-26 20:10 G	35615589.19	35615589.34	35615589.53	0.0140	0.0088
Venus	92800-09-09 05:46 G	35615815.64	35615815.74	35615815.89	0.0140	0.0116
Mars	92808-07-17 06:29 G	35618683.57	35618683.77	35618684.01	0.0143	0.0109
Mercury	92810-06-13 00:14 G	35619379.46	35619379.51	35619379.56	0.0143	0.0130

Mercury	92810-09-09 03:36 G	35619467.57	35619467.65	35619467.74	0.0143	0.0109
Mercury	92810-12-06 07:12 G	35619555.70	35619555.80	35619555.91	0.0143	0.0087
Mercury	92811-03-04 10:48 G	35619643.84	35619643.95	35619644.07	0.0143	0.0065
Mercury	92811-05-31 14:24 G	35619731.98	35619732.10	35619732.23	0.0143	0.0043
Mercury	92811-08-27 18:00 G	35619820.12	35619820.25	35619820.38	0.0143	0.0021
Mercury	92811-11-23 21:36 G	35619908.27	35619908.40	35619908.53	0.0143	0.0003
Mercury	92812-02-20 01:12 G	35619996.42	35619996.55	35619996.68	0.0143	0.0024
Mercury	92812-05-18 04:48 G	35620084.58	35620084.70	35620084.83	0.0144	0.0046
Mercury	92812-08-14 08:24 G	35620172.74	35620172.85	35620172.97	0.0144	0.0069
Mercury	92812-11-10 12:00 G	35620260.91	35620261.00	35620261.11	0.0144	0.0092
Mercury	92813-02-06 15:50 G	35620349.08	35620349.16	35620349.24	0.0144	0.0114
Mercury	92813-05-05 19:26 G	35620437.28	35620437.31	35620437.35	0.0144	0.0137
Earth	92827-01-14 14:53 G	35625439.07	35625439.12	35625439.22	0.0143	0.0137
Moon	92827-01-14 16:05 G	35625439.10	35625439.17	35625439.30	0.0143	0.0131 *
Moon	92828-01-19 15:07 G	35625808.90	35625809.13	35625809.39	0.0143	0.0054
Earth	92828-01-19 16:19 G	35625808.95	35625809.18	35625809.43	0.0143	0.0050 *
Earth	92829-01-23 16:48 G	35626178.96	35626179.20	35626179.46	0.0142	0.0038
Moon	92829-01-23 16:48 G	35626178.97	35626179.20	35626179.45	0.0142	0.0036 *
Earth	92830-01-28 16:19 G	35626549.06	35626549.18	35626549.32	0.0142	0.0123
Moon	92830-01-28 16:48 G	35626549.10	35626549.20	35626549.32	0.0142	0.0128 *
Venus	92835-06-02 01:12 G	35628499.46	35628499.55	35628499.66	0.0140	0.0124
Venus	92836-01-14 10:19 G	35628725.79	35628725.93	35628726.10	0.0140	0.0096
Venus	92836-08-27 19:26 G	35628952.13	35628952.31	35628952.50	0.0140	0.0068
Venus	92837-04-11 04:05 G	35629178.47	35629178.67	35629178.89	0.0139	0.0040
Venus	92837-11-23 12:58 G	35629404.82	35629405.04	35629405.25	0.0139	0.0013
Venus	92838-07-07 21:07 G	35629631.17	35629631.38	35629631.60	0.0139	0.0015
Venus	92839-02-19 05:17 G	35629857.52	35629857.72	35629857.93	0.0139	0.0043
Venus	92839-10-03 12:58 G	35630083.87	35630084.04	35630084.24	0.0139	0.0070
Venus	92840-05-16 20:38 G	35630310.22	35630310.36	35630310.53	0.0138	0.0097
Venus	92840-12-29 04:34 G	35630536.60	35630536.69	35630536.80	0.0138	0.0122

Mars	92849-01-09 21:50 G	35633470.23	35633470.41	35633470.63	0.0136	0.0095
Mercury	92851-10-06 15:07 G	35634470.08	35634470.13	35634470.19	0.0135	0.0129
Mercury	92852-01-02 22:19 G	35634558.32	35634558.43	35634558.57	0.0135	0.0102
Mercury	92852-03-31 05:46 G	35634646.59	35634646.74	35634646.91	0.0135	0.0075
Mercury	92852-06-27 13:12 G	35634734.87	35634735.05	35634735.23	0.0135	0.0048
Mercury	92852-09-23 20:24 G	35634823.17	35634823.35	35634823.55	0.0135	0.0021
Mercury	92852-12-21 03:50 G	35634911.47	35634911.66	35634911.85	0.0135	0.0006
Mercury	92853-03-19 11:02 G	35634999.77	35634999.96	35635000.15	0.0135	0.0033
Mercury	92853-06-15 18:00 G	35635088.09	35635088.25	35635088.43	0.0135	0.0060
Mercury	92853-09-12 00:58 G	35635176.41	35635176.54	35635176.70	0.0135	0.0087
Mercury	92853-12-09 08:10 G	35635264.75	35635264.84	35635264.96	0.0135	0.0113
Earth	92870-07-16 02:53 G	35641327.47	35641327.62	35641327.79	0.0135	0.0103
Moon	92870-07-16 03:36 G	35641327.53	35641327.65	35641327.81	0.0135	0.0110 *
Moon	92871-07-20 10:05 G	35641696.66	35641696.92	35641697.18	0.0136	0.0024
Earth	92871-07-20 10:19 G	35641696.69	35641696.93	35641697.18	0.0136	0.0031 *
Earth	92872-07-23 18:14 G	35642066.03	35642066.26	35642066.51	0.0136	0.0042
Moon	92872-07-23 18:58 G	35642066.07	35642066.29	35642066.54	0.0136	0.0036 *
Moon	92873-07-28 02:24 G	35642435.48	35642435.60	35642435.74	0.0136	0.0118
Earth	92873-07-28 02:53 G	35642435.49	35642435.62	35642435.76	0.0136	0.0115 *
Venus	92879-05-25 16:19 G	35644563.07	35644563.18	35644563.30	0.0138	0.0115
Venus	92880-01-07 00:14 G	35644789.36	35644789.51	35644789.69	0.0138	0.0090
Venus	92880-08-20 08:53 G	35645015.68	35645015.87	35645016.07	0.0138	0.0062
Venus	92881-04-03 17:46 G	35645242.03	35645242.24	35645242.45	0.0139	0.0035
Venus	92881-11-16 02:24 G	35645468.39	35645468.60	35645468.82	0.0139	0.0008
Venus	92882-06-30 11:31 G	35645694.77	35645694.98	35645695.20	0.0139	0.0021
Venus	92883-02-11 20:38 G	35645921.17	35645921.36	35645921.58	0.0139	0.0049
Venus	92883-09-26 06:14 G	35646147.58	35646147.76	35646147.95	0.0140	0.0076
Venus	92884-05-09 15:50 G	35646374.02	35646374.16	35646374.31	0.0140	0.0104
Venus	92884-12-22 01:26 G	35646600.50	35646600.56	35646600.64	0.0140	0.0133
Mars	92893-03-14 02:24 G	35649604.28	35649604.60	35649604.94	0.0143	0.0034

Mercury	92894-07-03 07:55 G	35650080.77	35650080.83	35650080.90	0.0143	0.0122
Mercury	92894-09-29 11:31 G	35650168.89	35650168.98	35650169.08	0.0143	0.0101
Mercury	92894-12-26 15:07 G	35650257.02	35650257.13	35650257.24	0.0143	0.0079
Mercury	92895-03-24 18:43 G	35650345.16	35650345.28	35650345.40	0.0143	0.0057
Mercury	92895-06-20 22:19 G	35650433.30	35650433.43	35650433.56	0.0143	0.0035
Mercury	92895-09-17 01:55 G	35650521.45	35650521.58	35650521.71	0.0143	0.0013
Mercury	92895-12-14 05:31 G	35650609.60	35650609.73	35650609.86	0.0143	0.0010
Mercury	92896-03-11 09:07 G	35650697.75	35650697.88	35650698.01	0.0143	0.0032
Mercury	92896-06-07 12:43 G	35650785.91	35650786.03	35650786.15	0.0144	0.0055
Mercury	92896-09-03 16:05 G	35650874.07	35650874.17	35650874.29	0.0144	0.0078
Mercury	92896-11-30 19:55 G	35650962.24	35650962.33	35650962.43	0.0144	0.0100
Mercury	92897-02-26 23:31 G	35651050.42	35651050.48	35651050.56	0.0144	0.0123
Earth	92911-01-16 05:17 G	35656120.62	35656120.72	35656120.85	0.0143	0.0128
Moon	92911-01-16 07:26 G	35656120.75	35656120.81	35656120.90	0.0143	0.0136 *
Moon	92912-01-21 05:17 G	35656490.48	35656490.72	35656490.99	0.0143	0.0038
Earth	92912-01-21 06:43 G	35656490.53	35656490.78	35656491.03	0.0143	0.0041 *
Earth	92913-01-25 06:43 G	35656860.55	35656860.78	35656861.03	0.0142	0.0047
Moon	92913-01-25 07:55 G	35656860.59	35656860.83	35656861.06	0.0142	0.0047 *
Moon	92914-01-30 06:14 G	35657230.66	35657230.76	35657230.90	0.0142	0.0128
Earth	92914-01-30 06:14 G	35657230.69	35657230.76	35657230.87	0.0142	0.0133 *
Venus	92919-01-31 11:31 G	35659057.93	35659057.98	35659058.05	0.0140	0.0135
Venus	92919-09-14 20:53 G	35659284.24	35659284.37	35659284.52	0.0140	0.0107
Venus	92920-04-28 05:46 G	35659510.58	35659510.74	35659510.93	0.0140	0.0079
Venus	92920-12-10 14:53 G	35659736.93	35659737.12	35659737.33	0.0140	0.0051
Venus	92921-07-24 23:46 G	35659963.28	35659963.49	35659963.71	0.0139	0.0023
Venus	92922-03-08 08:10 G	35660189.63	35660189.84	35660190.06	0.0139	0.0005
Venus	92922-10-20 16:19 G	35660415.97	35660416.18	35660416.40	0.0139	0.0032
Venus	92923-06-04 00:29 G	35660642.33	35660642.52	35660642.72	0.0139	0.0059
Venus	92924-01-16 08:24 G	35660868.69	35660868.85	35660869.03	0.0138	0.0086
Venus	92924-08-29 15:50 G	35661095.05	35661095.16	35661095.30	0.0138	0.0113

Venus	92925-04-12 23:31 G	35661321.48	35661321.48	35661321.49	0.0138	0.0138
Mars	92933-09-05 08:24 G	35664388.57	35664388.85	35664389.13	0.0135	0.0006
Mercury	92935-10-27 23:31 G	35665171.39	35665171.48	35665171.58	0.0135	0.0117
Mercury	92936-01-24 06:58 G	35665259.65	35665259.79	35665259.94	0.0135	0.0090
Mercury	92936-04-21 14:10 G	35665347.93	35665348.09	35665348.27	0.0135	0.0063
Mercury	92936-07-18 21:36 G	35665436.22	35665436.40	35665436.59	0.0135	0.0036
Mercury	92936-10-15 05:02 G	35665524.52	35665524.71	35665524.90	0.0135	0.0009
Mercury	92937-01-11 12:14 G	35665612.82	35665613.01	35665613.20	0.0135	0.0018
Mercury	92937-04-09 19:26 G	35665701.13	35665701.31	35665701.49	0.0135	0.0045
Mercury	92937-07-07 02:24 G	35665789.45	35665789.60	35665789.77	0.0135	0.0072
Mercury	92937-10-03 09:50 G	35665877.78	35665877.91	35665878.04	0.0135	0.0098
Mercury	92937-12-30 16:34 G	35665966.14	35665966.19	35665966.28	0.0135	0.0125
Earth	92954-07-17 16:19 G	35672009.02	35672009.18	35672009.37	0.0135	0.0096
Moon	92954-07-17 17:31 G	35672009.06	35672009.23	35672009.42	0.0135	0.0089 *
Moon	92955-07-21 22:19 G	35672378.18	35672378.43	35672378.69	0.0136	0.0031
Earth	92955-07-22 00:00 G	35672378.26	35672378.50	35672378.75	0.0136	0.0023 *
Earth	92956-07-25 07:41 G	35672747.59	35672747.82	35672748.06	0.0136	0.0049
Moon	92956-07-25 08:38 G	35672747.64	35672747.86	35672748.08	0.0136	0.0055 *
Moon	92957-07-29 14:53 G	35673117.00	35673117.12	35673117.26	0.0136	0.0117
Earth	92957-07-29 15:50 G	35673117.07	35673117.16	35673117.28	0.0136	0.0122 *
Venus	92963-01-24 02:38 G	35675121.52	35675121.61	35675121.70	0.0138	0.0125
Venus	92963-09-07 10:34 G	35675347.80	35675347.94	35675348.10	0.0138	0.0099
Venus	92964-04-20 18:58 G	35675574.11	35675574.29	35675574.48	0.0138	0.0073
Venus	92964-12-03 03:22 G	35675800.44	35675800.64	35675800.85	0.0139	0.0046
Venus	92965-07-17 12:14 G	35676026.80	35676027.01	35676027.23	0.0139	0.0019
Venus	92966-02-28 21:07 G	35676253.17	35676253.38	35676253.60	0.0139	0.0009
Venus	92966-10-13 06:14 G	35676479.55	35676479.76	35676479.97	0.0139	0.0037
Venus	92967-05-27 15:22 G	35676705.96	35676706.14	35676706.34	0.0140	0.0065
Venus	92968-01-09 00:43 G	35676932.38	35676932.53	35676932.71	0.0140	0.0093
Venus	92968-08-22 10:19 G	35677158.84	35677158.93	35677159.06	0.0140	0.0121

Mercury	92978-04-27 12:14 G	35680693.98	35680694.01	35680694.05	0.0143	0.0136
Mercury	92978-07-24 15:50 G	35680782.08	35680782.16	35680782.24	0.0143	0.0114
Mercury	92978-10-20 19:26 G	35680870.21	35680870.31	35680870.41	0.0143	0.0093
Mercury	92979-01-16 23:02 G	35680958.34	35680958.46	35680958.57	0.0143	0.0071
Mercury	92979-04-15 02:24 G	35681046.48	35681046.60	35681046.73	0.0143	0.0049
Mercury	92979-07-12 06:00 G	35681134.62	35681134.75	35681134.88	0.0143	0.0027
Mercury	92979-10-08 09:36 G	35681222.77	35681222.90	35681223.03	0.0143	0.0005
Mercury	92980-01-04 13:12 G	35681310.92	35681311.05	35681311.18	0.0143	0.0018
Mercury	92980-04-01 16:48 G	35681399.07	35681399.20	35681399.33	0.0144	0.0040
Mercury	92980-06-28 20:24 G	35681487.23	35681487.35	35681487.47	0.0144	0.0063
Mercury	92980-09-25 00:00 G	35681575.40	35681575.50	35681575.61	0.0144	0.0085
Mercury	92980-12-22 03:36 G	35681663.57	35681663.65	35681663.74	0.0144	0.0108
Mercury	92981-03-20 07:12 G	35681751.76	35681751.80	35681751.86	0.0144	0.0131
Earth	92995-01-16 19:41 G	35686802.19	35686802.32	35686802.46	0.0143	0.0120
Moon	92995-01-16 21:22 G	35686802.26	35686802.39	35686802.56	0.0143	0.0114 *
Moon	92996-01-21 18:43 G	35687172.02	35687172.28	35687172.53	0.0143	0.0037
Earth	92996-01-21 20:53 G	35687172.12	35687172.37	35687172.62	0.0143	0.0032 *
Earth	92997-01-25 20:53 G	35687542.15	35687542.37	35687542.62	0.0142	0.0055
Moon	92997-01-25 22:05 G	35687542.20	35687542.42	35687542.66	0.0142	0.0055 *
Earth	92998-01-30 20:24 G	35687912.34	35687912.35	35687912.40	0.0142	0.0141

94TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 94th millennium CE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
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TIME

Venus	93003-05-16 07:41 G	35689842.70	35689842.82	35689842.94	0.0140	0.0117
Venus	93003-12-28 16:48 G	35690069.05	35690069.20	35690069.38	0.0140	0.0089
Venus	93004-08-11 01:55 G	35690295.39	35690295.58	35690295.78	0.0140	0.0061
Venus	93005-03-25 10:48 G	35690521.74	35690521.95	35690522.16	0.0140	0.0033
Venus	93005-11-06 19:26 G	35690748.09	35690748.31	35690748.53	0.0139	0.0005
Venus	93006-06-21 03:50 G	35690974.45	35690974.66	35690974.88	0.0139	0.0022
Venus	93007-02-02 12:00 G	35691200.80	35691201.00	35691201.21	0.0139	0.0049
Venus	93007-09-16 19:55 G	35691427.16	35691427.33	35691427.52	0.0139	0.0076
Venus	93008-04-30 03:36 G	35691653.52	35691653.65	35691653.81	0.0138	0.0103
Venus	93008-12-12 11:17 G	35691879.90	35691879.97	35691880.06	0.0138	0.0128
Mars	93016-06-01 15:22 G	35694608.09	35694608.14	35694608.25	0.0136	0.0130
Mars	93018-05-01 18:43 G	35695307.12	35695307.28	35695307.46	0.0135	0.0107
Mercury	93019-08-22 00:43 G	35695784.50	35695784.53	35695784.57	0.0135	0.0132
Mercury	93019-11-18 08:10 G	35695872.73	35695872.84	35695872.97	0.0135	0.0105
Mercury	93020-02-14 15:22 G	35695960.99	35695961.14	35695961.31	0.0135	0.0078
Mercury	93020-05-12 22:48 G	35696049.28	35696049.45	35696049.64	0.0135	0.0051
Mercury	93020-08-09 06:14 G	35696137.57	35696137.76	35696137.95	0.0135	0.0024
Mercury	93020-11-05 13:26 G	35696225.87	35696226.06	35696226.26	0.0135	0.0005
Mercury	93021-02-01 20:38 G	35696314.18	35696314.36	35696314.55	0.0135	0.0031
Mercury	93021-05-01 03:50 G	35696402.49	35696402.66	35696402.84	0.0135	0.0057
Mercury	93021-07-28 11:02 G	35696490.82	35696490.96	35696491.12	0.0135	0.0083
Mercury	93021-10-24 18:14 G	35696579.16	35696579.26	35696579.37	0.0135	0.0110
Earth	93038-07-19 05:46 G	35702690.56	35702690.74	35702690.93	0.0135	0.0088
Moon	93038-07-19 07:41 G	35702690.66	35702690.82	35702691.00	0.0135	0.0095 *
Moon	93039-07-23 11:31 G	35703059.73	35703059.98	35703060.24	0.0135	0.0010
Earth	93039-07-23 13:12 G	35703059.80	35703060.05	35703060.30	0.0135	0.0017 *
Earth	93040-07-26 20:38 G	35703429.14	35703429.36	35703429.60	0.0136	0.0056
Moon	93040-07-26 22:19 G	35703429.22	35703429.43	35703429.67	0.0136	0.0050 *
Moon	93041-07-31 03:07 G	35703798.60	35703798.63	35703798.71	0.0136	0.0133

Earth	93041-07-31 04:34 G	35703798.64	35703798.69	35703798.79	0.0136	0.0129 *
Venus	93046-09-24 11:46 G	35705679.98	35705679.99	35705680.05	0.0138	0.0136
Venus	93047-05-08 20:24 G	35705906.22	35705906.35	35705906.48	0.0138	0.0109
Venus	93047-12-21 04:19 G	35706132.51	35706132.68	35706132.86	0.0138	0.0083
Venus	93048-08-03 12:43 G	35706358.83	35706359.03	35706359.23	0.0138	0.0057
Venus	93049-03-17 21:07 G	35706585.17	35706585.38	35706585.60	0.0139	0.0030
Venus	93049-10-30 06:00 G	35706811.53	35706811.75	35706811.96	0.0139	0.0004
Venus	93050-06-13 14:53 G	35707037.90	35707038.12	35707038.34	0.0139	0.0025
Venus	93051-01-26 00:00 G	35707264.30	35707264.50	35707264.70	0.0139	0.0053
Venus	93051-09-09 08:53 G	35707490.70	35707490.87	35707491.06	0.0140	0.0081
Venus	93052-04-22 18:29 G	35707717.14	35707717.27	35707717.41	0.0140	0.0108
Venus	93052-12-05 03:50 G	35707943.63	35707943.66	35707943.73	0.0140	0.0136
Mars	93060-07-31 03:36 G	35710738.32	35710738.65	35710738.98	0.0143	0.0035
Mercury	93062-05-18 19:26 G	35711395.26	35711395.31	35711395.36	0.0143	0.0131
Mercury	93062-08-14 23:02 G	35711483.38	35711483.46	35711483.54	0.0143	0.0109
Mercury	93062-11-11 02:38 G	35711571.50	35711571.61	35711571.71	0.0143	0.0088
Mercury	93063-02-07 06:00 G	35711659.64	35711659.75	35711659.87	0.0143	0.0066
Mercury	93063-05-06 09:36 G	35711747.78	35711747.90	35711748.03	0.0143	0.0044
Mercury	93063-08-02 13:12 G	35711835.92	35711836.05	35711836.18	0.0143	0.0022
Mercury	93063-10-29 16:48 G	35711924.07	35711924.20	35711924.33	0.0143	0.0001
Mercury	93064-01-25 20:24 G	35712012.22	35712012.35	35712012.48	0.0143	0.0023
Mercury	93064-04-23 00:00 G	35712100.37	35712100.50	35712100.62	0.0143	0.0045
Mercury	93064-07-20 03:36 G	35712188.53	35712188.65	35712188.77	0.0144	0.0067
Mercury	93064-10-16 07:12 G	35712276.70	35712276.80	35712276.90	0.0144	0.0090
Mercury	93065-01-12 10:48 G	35712364.87	35712364.95	35712365.03	0.0144	0.0113
Mercury	93065-04-10 14:24 G	35712453.06	35712453.10	35712453.15	0.0144	0.0135
Earth	93079-01-18 04:05 G	35717483.54	35717483.67	35717483.83	0.0143	0.0116
Moon	93079-01-18 07:12 G	35717483.69	35717483.80	35717483.94	0.0143	0.0124 *
Moon	93080-01-23 03:07 G	35717853.38	35717853.63	35717853.90	0.0143	0.0024
Earth	93080-01-23 05:31 G	35717853.48	35717853.73	35717853.99	0.0143	0.0028 *

Earth	93081-01-27 05:46 G	35718223.51	35718223.74	35718223.98	0.0143	0.0060
Moon	93081-01-27 07:55 G	35718223.60	35718223.83	35718224.06	0.0143	0.0059 *
Moon	93082-02-01 04:19 G	35718593.68	35718593.68	35718593.71	0.0142	0.0142
Venus	93087-01-13 15:22 G	35720401.07	35720401.14	35720401.24	0.0140	0.0129
Venus	93087-08-28 00:58 G	35720627.40	35720627.54	35720627.70	0.0140	0.0101
Venus	93088-04-10 10:05 G	35720853.75	35720853.92	35720854.12	0.0140	0.0073
Venus	93088-11-22 19:26 G	35721080.11	35721080.31	35721080.52	0.0140	0.0045
Venus	93089-07-07 04:19 G	35721306.46	35721306.68	35721306.89	0.0140	0.0017
Venus	93090-02-18 12:58 G	35721532.82	35721533.04	35721533.25	0.0139	0.0011
Venus	93090-10-02 21:07 G	35721759.18	35721759.38	35721759.59	0.0139	0.0038
Venus	93091-05-17 05:02 G	35721985.53	35721985.71	35721985.92	0.0139	0.0065
Venus	93091-12-29 13:12 G	35722211.90	35722212.05	35722212.22	0.0139	0.0092
Venus	93092-08-11 20:53 G	35722438.27	35722438.37	35722438.50	0.0138	0.0118
Mars	93101-01-26 00:58 G	35725526.27	35725526.54	35725526.82	0.0136	0.0031
Mercury	93103-09-12 08:38 G	35726485.79	35726485.86	35726485.96	0.0135	0.0122
Mercury	93103-12-09 16:05 G	35726574.05	35726574.17	35726574.32	0.0135	0.0095
Mercury	93104-03-06 23:46 G	35726662.32	35726662.49	35726662.66	0.0135	0.0067
Mercury	93104-06-03 06:58 G	35726750.61	35726750.79	35726750.98	0.0135	0.0040
Mercury	93104-08-30 14:24 G	35726838.91	35726839.10	35726839.29	0.0135	0.0013
Mercury	93104-11-26 21:36 G	35726927.21	35726927.40	35726927.59	0.0135	0.0014
Mercury	93105-02-23 04:48 G	35727015.52	35727015.70	35727015.89	0.0135	0.0041
Mercury	93105-05-22 11:46 G	35727103.84	35727103.99	35727104.17	0.0135	0.0068
Mercury	93105-08-18 19:12 G	35727192.17	35727192.30	35727192.44	0.0135	0.0094
Mercury	93105-11-15 02:24 G	35727280.52	35727280.60	35727280.69	0.0135	0.0120
Earth	93122-07-20 18:29 G	35733372.09	35733372.27	35733372.49	0.0135	0.0083
Moon	93122-07-20 20:53 G	35733372.17	35733372.37	35733372.58	0.0135	0.0075 *
Moon	93123-07-24 23:31 G	35733741.23	35733741.48	35733741.74	0.0135	0.0017
Earth	93123-07-25 02:10 G	35733741.34	35733741.59	35733741.84	0.0135	0.0010 *
Earth	93124-07-28 09:36 G	35734110.69	35734110.90	35734111.13	0.0136	0.0063
Moon	93124-07-28 11:31 G	35734110.78	35734110.98	35734111.19	0.0136	0.0069 *

Moon	93125-08-01 15:22 G	35734480.08	35734480.14	35734480.23	0.0136	0.0130
Earth	93125-08-01 17:46 G	35734480.24	35734480.24	35734480.26	0.0136	0.0136
Venus	93131-01-07 06:14 G	35736464.65	35736464.76	35736464.87	0.0138	0.0119
Venus	93131-08-21 14:10 G	35736690.93	35736691.09	35736691.25	0.0138	0.0093
Venus	93132-04-03 22:05 G	35736917.24	35736917.42	35736917.62	0.0138	0.0067
Venus	93132-11-16 06:29 G	35737143.56	35737143.77	35737143.98	0.0138	0.0041
Venus	93133-06-30 15:07 G	35737369.91	35737370.13	35737370.35	0.0139	0.0014
Venus	93134-02-11 23:46 G	35737596.28	35737596.49	35737596.71	0.0139	0.0014
Venus	93134-09-26 08:24 G	35737822.65	35737822.85	35737823.07	0.0139	0.0041
Venus	93135-05-10 17:31 G	35738049.05	35738049.23	35738049.43	0.0139	0.0069
Venus	93135-12-23 02:38 G	35738275.47	35738275.61	35738275.78	0.0140	0.0097
Venus	93136-08-05 12:14 G	35738501.92	35738502.01	35738502.12	0.0140	0.0124
Jupiter	93143-08-13 02:53 G	35741065.23	35741065.62	35741066.07	0.0142	0.0083
Mars	93145-03-28 15:07 G	35741658.90	35741659.13	35741659.37	0.0143	0.0102
Mercury	93146-06-09 02:24 G	35742096.55	35742096.60	35742096.68	0.0143	0.0126
Mercury	93146-09-05 06:14 G	35742184.67	35742184.76	35742184.85	0.0143	0.0104
Mercury	93146-12-02 09:50 G	35742272.80	35742272.91	35742273.02	0.0143	0.0082
Mercury	93147-02-28 13:12 G	35742360.94	35742361.05	35742361.18	0.0143	0.0061
Mercury	93147-05-27 16:48 G	35742449.08	35742449.20	35742449.33	0.0143	0.0039
Mercury	93147-08-23 20:24 G	35742537.22	35742537.35	35742537.48	0.0143	0.0017
Mercury	93147-11-20 00:00 G	35742625.37	35742625.50	35742625.63	0.0143	0.0006
Mercury	93148-02-16 03:36 G	35742713.52	35742713.65	35742713.78	0.0143	0.0028
Mercury	93148-05-14 07:12 G	35742801.68	35742801.80	35742801.93	0.0143	0.0050
Mercury	93148-08-10 10:48 G	35742889.84	35742889.95	35742890.07	0.0144	0.0073
Mercury	93148-11-06 14:10 G	35742978.00	35742978.09	35742978.20	0.0144	0.0096
Mercury	93149-02-02 18:00 G	35743066.18	35743066.25	35743066.33	0.0144	0.0118
Mercury	93149-05-01 21:36 G	35743154.38	35743154.40	35743154.43	0.0144	0.0140
Earth	93163-01-19 13:12 G	35748164.90	35748165.05	35748165.22	0.0143	0.0112
Moon	93163-01-19 16:05 G	35748165.02	35748165.17	35748165.36	0.0143	0.0105 *
Moon	93164-01-24 11:17 G	35748534.72	35748534.97	35748535.23	0.0143	0.0030

Earth	93164-01-24 14:24 G	35748534.85	35748535.10	35748535.36	0.0143	0.0024 *
Earth	93165-01-28 15:07 G	35748904.90	35748905.13	35748905.36	0.0143	0.0064
Moon	93165-01-28 17:02 G	35748905.00	35748905.21	35748905.44	0.0143	0.0065 *
Venus	93170-09-13 23:02 G	35750959.46	35750959.46	35750959.48	0.0141	0.0141
Venus	93171-04-28 08:38 G	35751185.74	35751185.86	35751186.00	0.0140	0.0113
Venus	93171-12-10 18:14 G	35751412.09	35751412.26	35751412.44	0.0140	0.0085
Venus	93172-07-24 03:22 G	35751638.45	35751638.64	35751638.85	0.0140	0.0057
Venus	93173-03-07 12:29 G	35751864.81	35751865.02	35751865.23	0.0140	0.0029
Venus	93173-10-19 21:07 G	35752091.17	35752091.38	35752091.60	0.0140	0.0003
Venus	93174-06-03 05:46 G	35752317.53	35752317.74	35752317.95	0.0139	0.0026
Venus	93175-01-15 14:10 G	35752543.89	35752544.09	35752544.29	0.0139	0.0053
Venus	93175-08-29 22:05 G	35752770.25	35752770.42	35752770.61	0.0139	0.0080
Venus	93176-04-12 06:14 G	35752996.62	35752996.76	35752996.90	0.0139	0.0106
Venus	93176-11-24 13:26 G	35753223.02	35753223.06	35753223.14	0.0138	0.0132
Mars	93185-09-20 08:24 G	35756444.62	35756444.85	35756445.11	0.0136	0.0067
Mercury	93187-10-02 16:34 G	35757187.09	35757187.19	35757187.31	0.0135	0.0113
Mercury	93187-12-30 00:00 G	35757275.36	35757275.50	35757275.66	0.0135	0.0085
Mercury	93188-03-27 07:26 G	35757363.64	35757363.81	35757363.99	0.0135	0.0058
Mercury	93188-06-23 14:38 G	35757451.93	35757452.11	35757452.31	0.0135	0.0031
Mercury	93188-09-19 22:05 G	35757540.23	35757540.42	35757540.62	0.0135	0.0005
Mercury	93188-12-17 05:17 G	35757628.54	35757628.72	35757628.92	0.0135	0.0024
Mercury	93189-03-15 12:43 G	35757716.85	35757717.03	35757717.21	0.0135	0.0050
Mercury	93189-06-11 19:41 G	35757805.17	35757805.32	35757805.49	0.0135	0.0077
Mercury	93189-09-08 03:07 G	35757893.51	35757893.63	35757893.75	0.0135	0.0103
Mercury	93189-12-05 09:50 G	35757981.88	35757981.91	35757981.98	0.0135	0.0130
Earth	93206-07-21 08:24 G	35764053.66	35764053.85	35764054.07	0.0135	0.0075
Moon	93206-07-21 11:31 G	35764053.78	35764053.98	35764054.18	0.0135	0.0080 *
Moon	93207-07-25 13:26 G	35764422.81	35764423.06	35764423.32	0.0135	0.0006
Earth	93207-07-25 16:05 G	35764422.92	35764423.17	35764423.42	0.0135	0.0003 *
Earth	93208-07-28 23:17 G	35764792.27	35764792.47	35764792.70	0.0136	0.0070

Moon	93208-07-29 02:10 G	35764792.38	35764792.59	35764792.81	0.0136	0.0063 *
Venus	93214-09-06 16:34 G	35767023.13	35767023.19	35767023.28	0.0137	0.0129
Venus	93215-04-21 00:29 G	35767249.39	35767249.52	35767249.67	0.0138	0.0103
Venus	93215-12-03 08:24 G	35767475.68	35767475.85	35767476.04	0.0138	0.0077
Venus	93216-07-16 16:48 G	35767702.00	35767702.20	35767702.41	0.0138	0.0050
Venus	93217-02-28 01:12 G	35767928.34	35767928.55	35767928.77	0.0138	0.0024
Venus	93217-10-12 09:36 G	35768154.69	35768154.90	35768155.12	0.0139	0.0005
Venus	93218-05-26 18:14 G	35768381.06	35768381.26	35768381.48	0.0139	0.0031
Venus	93219-01-08 03:07 G	35768607.44	35768607.63	35768607.84	0.0139	0.0058
Venus	93219-08-22 12:14 G	35768833.85	35768834.01	35768834.19	0.0139	0.0086
Venus	93220-04-04 21:36 G	35769060.28	35769060.40	35769060.53	0.0140	0.0113
Mars	93227-12-17 05:46 G	35771872.52	35771872.74	35771872.98	0.0142	0.0103
Mercury	93230-04-02 06:29 G	35772709.76	35772709.77	35772709.80	0.0143	0.0141
Mercury	93230-06-29 10:05 G	35772797.85	35772797.92	35772798.00	0.0143	0.0119
Mercury	93230-09-25 13:26 G	35772885.98	35772886.06	35772886.17	0.0143	0.0098
Mercury	93230-12-22 17:02 G	35772974.11	35772974.21	35772974.33	0.0143	0.0076
Mercury	93231-03-20 20:38 G	35773062.24	35773062.36	35773062.49	0.0143	0.0054
Mercury	93231-06-17 00:14 G	35773150.38	35773150.51	35773150.64	0.0143	0.0032
Mercury	93231-09-13 03:50 G	35773238.53	35773238.66	35773238.79	0.0143	0.0010
Mercury	93231-12-10 07:26 G	35773326.68	35773326.81	35773326.94	0.0143	0.0012
Mercury	93232-03-07 11:02 G	35773414.83	35773414.96	35773415.09	0.0143	0.0034
Mercury	93232-06-03 14:38 G	35773502.99	35773503.11	35773503.23	0.0143	0.0056
Mercury	93232-08-30 18:14 G	35773591.15	35773591.26	35773591.37	0.0143	0.0079
Mercury	93232-11-26 21:50 G	35773679.32	35773679.41	35773679.50	0.0143	0.0101
Mercury	93233-02-23 01:12 G	35773767.49	35773767.55	35773767.63	0.0144	0.0124
Earth	93247-01-19 21:07 G	35778846.22	35778846.38	35778846.56	0.0143	0.0109
Moon	93247-01-20 00:29 G	35778846.40	35778846.52	35778846.69	0.0143	0.0117 *
Moon	93248-01-24 19:26 G	35779216.05	35779216.31	35779216.57	0.0143	0.0014
Earth	93248-01-24 22:34 G	35779216.18	35779216.44	35779216.70	0.0143	0.0020 *
Earth	93249-01-28 22:48 G	35779586.23	35779586.45	35779586.69	0.0143	0.0068

Moon	93249-01-29 01:55 G	35779586.36	35779586.58	35779586.81	0.0143	0.0066 *
Venus	93254-12-26 15:50 G	35781744.06	35781744.16	35781744.25	0.0141	0.0125
Venus	93255-08-10 00:58 G	35781970.40	35781970.54	35781970.71	0.0140	0.0098
Venus	93256-03-23 10:19 G	35782196.75	35782196.93	35782197.13	0.0140	0.0070
Venus	93256-11-04 19:26 G	35782423.11	35782423.31	35782423.53	0.0140	0.0042
Venus	93257-06-19 04:34 G	35782649.48	35782649.69	35782649.91	0.0140	0.0014
Venus	93258-01-31 13:12 G	35782875.84	35782876.05	35782876.27	0.0139	0.0014
Venus	93258-09-14 21:36 G	35783102.20	35783102.40	35783102.61	0.0139	0.0041
Venus	93259-04-29 05:46 G	35783328.56	35783328.74	35783328.94	0.0139	0.0068
Venus	93259-12-11 14:10 G	35783554.93	35783555.09	35783555.25	0.0139	0.0094
Venus	93260-07-24 21:36 G	35783781.31	35783781.40	35783781.52	0.0139	0.0121
Jupiter	93268-06-04 06:43 G	35786652.33	35786652.78	35786653.29	0.0136	0.0056
Mars	93268-06-15 08:38 G	35786663.64	35786663.86	35786664.11	0.0136	0.0075
Mercury	93271-07-26 16:19 G	35787800.16	35787800.18	35787800.24	0.0135	0.0133
Mercury	93271-10-23 00:00 G	35787888.39	35787888.50	35787888.63	0.0135	0.0105
Mercury	93272-01-19 07:26 G	35787976.66	35787976.81	35787976.97	0.0135	0.0077
Mercury	93272-04-16 14:53 G	35788064.94	35788065.12	35788065.30	0.0135	0.0050
Mercury	93272-07-13 22:05 G	35788153.24	35788153.42	35788153.62	0.0135	0.0024
Mercury	93272-10-10 05:31 G	35788241.54	35788241.73	35788241.93	0.0135	0.0005
Mercury	93273-01-06 12:58 G	35788329.85	35788330.04	35788330.22	0.0135	0.0031
Mercury	93273-04-04 19:55 G	35788418.17	35788418.33	35788418.51	0.0135	0.0058
Mercury	93273-07-02 03:07 G	35788506.49	35788506.63	35788506.79	0.0135	0.0085
Mercury	93273-09-28 10:34 G	35788594.83	35788594.94	35788595.04	0.0135	0.0111
Earth	93290-07-21 21:50 G	35794735.21	35794735.41	35794735.64	0.0135	0.0068
Moon	93290-07-22 00:43 G	35794735.32	35794735.53	35794735.76	0.0135	0.0062 *
Moon	93291-07-26 02:24 G	35795104.34	35795104.60	35795104.85	0.0135	0.0003
Earth	93291-07-26 05:31 G	35795104.48	35795104.73	35795104.98	0.0135	0.0005 *
Earth	93292-07-29 12:58 G	35795473.85	35795474.04	35795474.26	0.0136	0.0078
Moon	93292-07-29 15:36 G	35795473.97	35795474.15	35795474.35	0.0136	0.0085 *
Venus	93298-05-07 03:50 G	35797581.66	35797581.66	35797581.68	0.0137	0.0137

Venus	93298-12-19 11:31 G	35797807.86	35797807.98	35797808.11	0.0138	0.0112
Venus	93299-08-02 19:26 G	35798034.15	35798034.31	35798034.49	0.0138	0.0086
Venus	93300-03-17 03:22 G	35798260.45	35798260.64	35798260.85	0.0138	0.0060
Venus	93300-10-29 11:46 G	35798486.78	35798486.99	35798487.20	0.0138	0.0033
Venus	93301-06-12 20:10 G	35798713.13	35798713.34	35798713.56	0.0138	0.0008
Venus	93302-01-25 04:48 G	35798939.49	35798939.70	35798939.92	0.0139	0.0021
Venus	93302-09-08 13:26 G	35799165.86	35799166.06	35799166.27	0.0139	0.0048
Venus	93303-04-22 22:19 G	35799392.26	35799392.43	35799392.63	0.0139	0.0075
Venus	93303-12-05 07:26 G	35799618.68	35799618.81	35799618.97	0.0139	0.0103
Venus	93304-07-18 17:02 G	35799845.14	35799845.21	35799845.30	0.0140	0.0130
Mars	93312-08-14 00:58 G	35802793.22	35802793.54	35802793.88	0.0142	0.0038
Mercury	93314-04-23 14:38 G	35803411.06	35803411.11	35803411.16	0.0143	0.0132
Mercury	93314-07-20 18:00 G	35803499.17	35803499.25	35803499.34	0.0143	0.0111
Mercury	93314-10-16 21:36 G	35803587.30	35803587.40	35803587.50	0.0143	0.0089
Mercury	93315-01-13 01:12 G	35803675.43	35803675.55	35803675.66	0.0143	0.0067
Mercury	93315-04-11 04:34 G	35803763.57	35803763.69	35803763.82	0.0143	0.0046
Mercury	93315-07-08 08:10 G	35803851.71	35803851.84	35803851.97	0.0143	0.0024
Mercury	93315-10-04 11:46 G	35803939.86	35803939.99	35803940.12	0.0143	0.0002
Mercury	93315-12-31 15:22 G	35804028.01	35804028.14	35804028.27	0.0143	0.0021
Mercury	93316-03-28 18:58 G	35804116.16	35804116.29	35804116.41	0.0143	0.0043
Mercury	93316-06-24 22:19 G	35804204.32	35804204.43	35804204.56	0.0143	0.0065
Mercury	93316-09-21 01:55 G	35804292.48	35804292.58	35804292.69	0.0143	0.0088
Mercury	93316-12-18 05:46 G	35804380.66	35804380.74	35804380.82	0.0143	0.0109
Mercury	93317-03-16 09:22 G	35804468.84	35804468.89	35804468.94	0.0143	0.0132
Earth	93331-01-21 09:22 G	35809527.73	35809527.89	35809528.09	0.0143	0.0102
Moon	93331-01-21 12:58 G	35809527.86	35809528.04	35809528.25	0.0143	0.0094 *
Moon	93332-01-26 06:58 G	35809897.54	35809897.79	35809898.05	0.0143	0.0020
Earth	93332-01-26 10:48 G	35809897.69	35809897.95	35809898.21	0.0143	0.0013 *
Earth	93333-01-30 11:17 G	35810267.75	35810267.97	35810268.19	0.0143	0.0075
Moon	93333-01-30 14:10 G	35810267.89	35810268.09	35810268.31	0.0143	0.0078 *

Venus	93338-08-27 00:29 G	35812302.47	35812302.52	35812302.58	0.0141	0.0136
Venus	93339-04-10 09:50 G	35812528.79	35812528.91	35812529.06	0.0140	0.0109
Venus	93339-11-22 19:41 G	35812755.15	35812755.32	35812755.50	0.0140	0.0080
Venus	93340-07-06 04:48 G	35812981.51	35812981.70	35812981.91	0.0140	0.0053
Venus	93341-02-17 13:55 G	35813207.87	35813208.08	35813208.29	0.0140	0.0025
Venus	93341-10-01 22:34 G	35813434.23	35813434.44	35813434.66	0.0140	0.0003
Venus	93342-05-16 07:12 G	35813660.59	35813660.80	35813661.01	0.0139	0.0030
Venus	93342-12-28 15:22 G	35813886.96	35813887.14	35813887.35	0.0139	0.0057
Venus	93343-08-11 23:46 G	35814113.32	35814113.49	35814113.66	0.0139	0.0083
Venus	93344-03-25 07:12 G	35814339.69	35814339.80	35814339.95	0.0139	0.0110
Venus	93344-11-06 14:53 G	35814566.10	35814566.12	35814566.18	0.0139	0.0136
Mars	93353-02-08 18:43 G	35817582.01	35817582.28	35817582.57	0.0136	0.0024
Mercury	93355-08-17 00:29 G	35818501.44	35818501.52	35818501.60	0.0135	0.0123
Mercury	93355-11-13 07:41 G	35818589.69	35818589.82	35818589.97	0.0135	0.0095
Mercury	93356-02-09 15:07 G	35818677.97	35818678.13	35818678.31	0.0135	0.0068
Mercury	93356-05-07 22:48 G	35818766.26	35818766.45	35818766.63	0.0135	0.0041
Mercury	93356-08-04 06:00 G	35818854.56	35818854.75	35818854.94	0.0135	0.0013
Mercury	93356-10-31 13:12 G	35818942.86	35818943.05	35818943.25	0.0135	0.0014
Mercury	93357-01-27 20:24 G	35819031.18	35819031.35	35819031.54	0.0135	0.0041
Mercury	93357-04-26 03:50 G	35819119.50	35819119.66	35819119.83	0.0135	0.0067
Mercury	93357-07-23 10:48 G	35819207.83	35819207.95	35819208.10	0.0135	0.0094
Mercury	93357-10-19 17:46 G	35819296.18	35819296.24	35819296.35	0.0135	0.0121
Moon	93373-07-19 01:12 G	35825047.49	35825047.55	35825047.64	0.0135	0.0129
Earth	93373-07-19 05:02 G	35825047.66	35825047.71	35825047.75	0.0135	0.0133
Earth	93374-07-23 11:46 G	35825416.77	35825416.99	35825417.22	0.0135	0.0061
Moon	93374-07-23 14:53 G	35825416.92	35825417.12	35825417.35	0.0135	0.0066 *
Moon	93375-07-27 16:19 G	35825785.93	35825786.18	35825786.44	0.0136	0.0020
Earth	93375-07-27 19:26 G	35825786.06	35825786.31	35825786.56	0.0136	0.0012 *
Earth	93376-07-31 02:53 G	35826155.44	35826155.62	35826155.83	0.0136	0.0086
Moon	93376-07-31 06:29 G	35826155.57	35826155.77	35826155.98	0.0136	0.0078 *

Venus	93382-08-19 22:48 G	35828366.35	35828366.45	35828366.55	0.0138	0.0121
Venus	93383-04-03 06:14 G	35828592.62	35828592.76	35828592.93	0.0138	0.0096
Venus	93383-11-15 14:10 G	35828818.92	35828819.09	35828819.29	0.0138	0.0070
Venus	93384-06-28 22:34 G	35829045.24	35829045.44	35829045.65	0.0138	0.0043
Venus	93385-02-10 06:58 G	35829271.58	35829271.79	35829272.01	0.0138	0.0017
Venus	93385-09-24 15:22 G	35829497.93	35829498.14	35829498.36	0.0139	0.0011
Venus	93386-05-09 00:00 G	35829724.30	35829724.50	35829724.72	0.0139	0.0038
Venus	93386-12-21 08:53 G	35829950.68	35829950.87	35829951.07	0.0139	0.0065
Venus	93387-08-04 18:00 G	35830177.10	35830177.25	35830177.42	0.0139	0.0092
Venus	93388-03-18 03:07 G	35830403.54	35830403.63	35830403.76	0.0139	0.0120
Mercury	93398-05-13 22:34 G	35834112.38	35834112.44	35834112.51	0.0143	0.0123
Mercury	93398-08-10 01:55 G	35834200.50	35834200.58	35834200.68	0.0143	0.0102
Mercury	93398-11-06 05:31 G	35834288.62	35834288.73	35834288.84	0.0143	0.0080
Mercury	93399-02-02 08:53 G	35834376.76	35834376.87	35834377.00	0.0143	0.0059
Mercury	93399-05-01 12:29 G	35834464.90	35834465.02	35834465.15	0.0143	0.0037
Mercury	93399-07-28 16:05 G	35834553.04	35834553.17	35834553.30	0.0143	0.0015
Mercury	93399-10-24 19:41 G	35834641.19	35834641.32	35834641.45	0.0143	0.0007
Mercury	93400-01-20 23:17 G	35834729.34	35834729.47	35834729.60	0.0143	0.0029
Mercury	93400-04-19 02:53 G	35834817.50	35834817.62	35834817.74	0.0143	0.0051
Mercury	93400-07-16 06:29 G	35834905.65	35834905.77	35834905.88	0.0143	0.0074
Mercury	93400-10-12 09:50 G	35834993.82	35834993.91	35834994.02	0.0143	0.0096
Mercury	93401-01-08 13:26 G	35835082.00	35835082.06	35835082.14	0.0143	0.0119
Mercury	93401-04-06 17:17 G	35835170.20	35835170.22	35835170.24	0.0143	0.0141
Earth	93415-01-22 22:19 G	35840209.24	35840209.43	35840209.63	0.0143	0.0094
Moon	93415-01-23 01:55 G	35840209.41	35840209.58	35840209.77	0.0143	0.0102 *
Moon	93416-01-27 19:55 G	35840579.07	35840579.33	35840579.59	0.0143	0.0002
Earth	93416-01-27 23:31 G	35840579.22	35840579.48	35840579.74	0.0143	0.0006 *
Earth	93417-01-31 23:46 G	35840949.29	35840949.49	35840949.71	0.0142	0.0083
Moon	93417-02-01 03:07 G	35840949.44	35840949.63	35840949.86	0.0142	0.0080 *
Venus	93422-12-09 18:58 G	35843087.19	35843087.29	35843087.42	0.0141	0.0120

Venus	93423-07-24 04:48 G	35843313.54	35843313.70	35843313.86	0.0140	0.0092
Venus	93424-03-06 13:41 G	35843539.89	35843540.07	35843540.28	0.0140	0.0065
Venus	93424-10-18 23:02 G	35843766.25	35843766.46	35843766.67	0.0140	0.0036
Venus	93425-06-02 07:55 G	35843992.61	35843992.83	35843993.04	0.0140	0.0009
Venus	93426-01-14 16:34 G	35844218.98	35844219.19	35844219.41	0.0140	0.0019
Venus	93426-08-29 00:58 G	35844445.34	35844445.54	35844445.75	0.0139	0.0046
Venus	93427-04-12 09:07 G	35844671.70	35844671.88	35844672.07	0.0139	0.0072
Venus	93427-11-24 16:48 G	35844898.07	35844898.20	35844898.37	0.0139	0.0099
Venus	93428-07-08 00:43 G	35845124.45	35845124.53	35845124.64	0.0139	0.0125
Mars	93435-11-05 18:58 G	35847801.17	35847801.29	35847801.45	0.0136	0.0119
Mars	93437-10-05 02:10 G	35848500.47	35848500.59	35848500.72	0.0136	0.0121
Mercury	93439-09-07 08:10 G	35849202.74	35849202.84	35849202.94	0.0135	0.0114
Mercury	93439-12-04 15:22 G	35849291.00	35849291.14	35849291.30	0.0135	0.0087
Mercury	93440-03-01 22:48 G	35849379.28	35849379.45	35849379.63	0.0135	0.0059
Mercury	93440-05-29 06:14 G	35849467.58	35849467.76	35849467.95	0.0135	0.0032
Mercury	93440-08-25 13:41 G	35849555.88	35849556.07	35849556.26	0.0135	0.0005
Mercury	93440-11-21 20:53 G	35849644.18	35849644.37	35849644.56	0.0135	0.0023
Mercury	93441-02-18 04:19 G	35849732.50	35849732.68	35849732.86	0.0135	0.0049
Mercury	93441-05-17 11:17 G	35849820.82	35849820.97	35849821.14	0.0135	0.0076
Mercury	93441-08-13 18:29 G	35849909.16	35849909.27	35849909.40	0.0135	0.0103
Mercury	93441-11-10 01:41 G	35849997.53	35849997.57	35849997.63	0.0135	0.0129
Moon	93457-07-20 14:10 G	35855729.03	35855729.09	35855729.19	0.0135	0.0128
Earth	93457-07-20 17:31 G	35855729.16	35855729.23	35855729.34	0.0135	0.0127 *
Earth	93458-07-25 00:43 G	35856098.31	35856098.53	35856098.77	0.0135	0.0054
Moon	93458-07-25 04:19 G	35856098.45	35856098.68	35856098.92	0.0135	0.0048 *
Moon	93459-07-29 05:02 G	35856467.46	35856467.71	35856467.96	0.0136	0.0013
Earth	93459-07-29 08:38 G	35856467.61	35856467.86	35856468.11	0.0136	0.0020 *
Earth	93460-08-01 16:19 G	35856837.01	35856837.18	35856837.37	0.0136	0.0093
Moon	93460-08-01 19:41 G	35856837.16	35856837.32	35856837.49	0.0136	0.0100 *
Venus	93466-04-20 08:53 G	35858924.82	35858924.87	35858924.95	0.0137	0.0131

Venus	93466-12-02 16:19 G	35859151.06	35859151.18	35859151.34	0.0138	0.0106
Venus	93467-07-17 00:29 G	35859377.35	35859377.52	35859377.71	0.0138	0.0080
Venus	93468-02-28 08:38 G	35859603.66	35859603.86	35859604.06	0.0138	0.0054
Venus	93468-10-11 16:48 G	35859829.99	35859830.20	35859830.42	0.0138	0.0027
Venus	93469-05-26 01:12 G	35860056.34	35860056.55	35860056.77	0.0139	0.0002
Venus	93470-01-07 09:50 G	35860282.70	35860282.91	35860283.13	0.0139	0.0027
Venus	93470-08-21 18:29 G	35860509.08	35860509.27	35860509.48	0.0139	0.0054
Venus	93471-04-05 03:22 G	35860735.48	35860735.64	35860735.83	0.0139	0.0081
Venus	93471-11-17 12:29 G	35860961.90	35860962.02	35860962.18	0.0139	0.0109
Venus	93472-06-30 22:05 G	35861188.39	35861188.42	35861188.49	0.0140	0.0136
Mars	93479-12-31 18:00 G	35863927.92	35863928.25	35863928.59	0.0142	0.0021
Mercury	93482-03-08 02:53 G	35864725.59	35864725.62	35864725.66	0.0143	0.0137
Mercury	93482-06-04 06:29 G	35864813.69	35864813.77	35864813.84	0.0143	0.0115
Mercury	93482-08-31 09:50 G	35864901.81	35864901.91	35864902.01	0.0143	0.0094
Mercury	93482-11-27 13:26 G	35864989.95	35864990.06	35864990.17	0.0143	0.0072
Mercury	93483-02-23 16:48 G	35865078.08	35865078.20	35865078.33	0.0143	0.0051
Mercury	93483-05-22 20:24 G	35865166.22	35865166.35	35865166.48	0.0143	0.0029
Mercury	93483-08-19 00:00 G	35865254.37	35865254.50	35865254.63	0.0143	0.0007
Mercury	93483-11-15 03:36 G	35865342.52	35865342.65	35865342.78	0.0143	0.0016
Mercury	93484-02-11 06:58 G	35865430.67	35865430.79	35865430.92	0.0143	0.0038
Mercury	93484-05-09 10:34 G	35865518.82	35865518.94	35865519.07	0.0143	0.0060
Mercury	93484-08-05 14:10 G	35865606.99	35865607.09	35865607.20	0.0143	0.0082
Mercury	93484-11-01 17:46 G	35865695.16	35865695.24	35865695.33	0.0143	0.0104
Mercury	93485-01-28 21:22 G	35865783.34	35865783.39	35865783.46	0.0143	0.0127
Earth	93499-01-23 12:43 G	35870890.83	35870891.03	35870891.24	0.0143	0.0086
Moon	93499-01-23 16:19 G	35870890.97	35870891.18	35870891.41	0.0143	0.0078 *
Moon	93500-01-28 10:19 G	35871260.67	35871260.93	35871261.18	0.0143	0.0005
Earth	93500-01-28 13:55 G	35871260.83	35871261.08	35871261.34	0.0143	0.0004 *
Earth	93501-02-02 14:10 G	35871630.91	35871631.09	35871631.30	0.0142	0.0092
Moon	93501-02-02 17:46 G	35871631.06	35871631.24	35871631.44	0.0142	0.0095 *

Venus	93506-08-10 05:17 G	35873645.65	35873645.72	35873645.81	0.0141	0.0130
Venus	93507-03-24 14:38 G	35873871.98	35873872.11	35873872.27	0.0141	0.0103
Venus	93507-11-06 00:14 G	35874098.33	35874098.51	35874098.70	0.0140	0.0075
Venus	93508-06-19 09:22 G	35874324.69	35874324.89	35874325.10	0.0140	0.0047
Venus	93509-01-31 18:29 G	35874551.05	35874551.27	35874551.48	0.0140	0.0019
Venus	93509-09-15 03:07 G	35874777.41	35874777.63	35874777.85	0.0140	0.0008
Venus	93510-04-29 11:31 G	35875003.78	35875003.98	35875004.20	0.0139	0.0035
Venus	93510-12-11 19:41 G	35875230.14	35875230.32	35875230.53	0.0139	0.0063
Venus	93511-07-26 04:05 G	35875456.51	35875456.67	35875456.84	0.0139	0.0088
Venus	93512-03-08 11:46 G	35875682.88	35875682.99	35875683.12	0.0139	0.0115
Mars	93520-07-01 06:29 G	35878719.49	35878719.77	35878720.06	0.0136	0.0017
Mercury	93523-07-02 08:24 G	35879815.82	35879815.85	35879815.91	0.0135	0.0131
Mercury	93523-09-28 16:05 G	35879904.05	35879904.17	35879904.30	0.0135	0.0103
Mercury	93523-12-25 23:17 G	35879992.32	35879992.47	35879992.64	0.0135	0.0077
Mercury	93524-03-23 06:43 G	35880080.61	35880080.78	35880080.97	0.0135	0.0049
Mercury	93524-06-19 14:10 G	35880168.91	35880169.09	35880169.29	0.0135	0.0022
Mercury	93524-09-15 21:36 G	35880257.21	35880257.40	35880257.59	0.0135	0.0006
Mercury	93524-12-13 04:48 G	35880345.52	35880345.70	35880345.89	0.0135	0.0033
Mercury	93525-03-11 12:14 G	35880433.84	35880434.01	35880434.18	0.0135	0.0059
Mercury	93525-06-07 19:12 G	35880522.16	35880522.30	35880522.46	0.0135	0.0086
Mercury	93525-09-04 02:24 G	35880610.51	35880610.60	35880610.72	0.0135	0.0113
Moon	93541-07-22 02:24 G	35886410.49	35886410.60	35886410.74	0.0135	0.0117
Earth	93541-07-22 06:00 G	35886410.66	35886410.75	35886410.88	0.0135	0.0120 *
Earth	93542-07-26 13:12 G	35886779.83	35886780.05	35886780.30	0.0135	0.0048
Moon	93542-07-26 16:48 G	35886779.98	35886780.20	35886780.44	0.0135	0.0052 *
Moon	93543-07-30 17:31 G	35887148.99	35887149.23	35887149.48	0.0135	0.0033
Earth	93543-07-30 21:07 G	35887149.14	35887149.38	35887149.63	0.0135	0.0026 *
Earth	93544-08-03 04:48 G	35887518.54	35887518.70	35887518.88	0.0136	0.0100
Moon	93544-08-03 08:38 G	35887518.68	35887518.86	35887519.04	0.0136	0.0092 *
Venus	93550-08-03 02:10 G	35889709.49	35889709.59	35889709.72	0.0138	0.0116

Venus	93551-03-17 09:50 G	35889935.76	35889935.91	35889936.09	0.0138	0.0090
Venus	93551-10-29 17:46 G	35890162.06	35890162.24	35890162.44	0.0138	0.0064
Venus	93552-06-12 01:55 G	35890388.38	35890388.58	35890388.80	0.0138	0.0038
Venus	93553-01-24 10:19 G	35890614.72	35890614.93	35890615.15	0.0138	0.0012
Venus	93553-09-07 18:43 G	35890841.07	35890841.28	35890841.50	0.0139	0.0016
Venus	93554-04-22 03:22 G	35891067.44	35891067.64	35891067.86	0.0139	0.0043
Venus	93554-12-04 12:29 G	35891293.83	35891294.02	35891294.21	0.0139	0.0069
Venus	93555-07-18 21:36 G	35891520.25	35891520.40	35891520.56	0.0139	0.0097
Venus	93556-03-01 06:43 G	35891746.69	35891746.78	35891746.89	0.0139	0.0124
Mars	93564-08-28 05:31 G	35894848.54	35894848.73	35894848.93	0.0142	0.0115
Mercury	93566-03-29 10:05 G	35895426.88	35895426.92	35895426.98	0.0143	0.0131
Mercury	93566-06-25 13:41 G	35895514.99	35895515.07	35895515.16	0.0143	0.0110
Mercury	93566-09-21 17:17 G	35895603.12	35895603.22	35895603.33	0.0143	0.0088
Mercury	93566-12-18 20:53 G	35895691.25	35895691.37	35895691.48	0.0143	0.0066
Mercury	93567-03-17 00:14 G	35895779.39	35895779.51	35895779.64	0.0143	0.0045
Mercury	93567-06-13 03:50 G	35895867.53	35895867.66	35895867.79	0.0143	0.0023
Mercury	93567-09-09 07:26 G	35895955.68	35895955.81	35895955.94	0.0143	0.0001
Mercury	93567-12-06 11:02 G	35896043.83	35896043.96	35896044.09	0.0143	0.0022
Mercury	93568-03-03 14:24 G	35896131.98	35896132.10	35896132.23	0.0143	0.0044
Mercury	93568-05-30 18:00 G	35896220.14	35896220.25	35896220.37	0.0143	0.0066
Mercury	93568-08-26 21:36 G	35896308.30	35896308.40	35896308.51	0.0143	0.0088
Mercury	93568-11-23 01:12 G	35896396.47	35896396.55	35896396.64	0.0143	0.0111
Mercury	93569-02-19 04:34 G	35896484.66	35896484.69	35896484.75	0.0143	0.0134
Earth	93583-01-24 23:17 G	35901572.26	35901572.47	35901572.69	0.0143	0.0080
Moon	93583-01-25 02:24 G	35901572.41	35901572.60	35901572.82	0.0143	0.0088 *
Moon	93584-01-29 21:07 G	35901942.13	35901942.38	35901942.63	0.0143	0.0016
Earth	93584-01-30 00:43 G	35901942.27	35901942.53	35901942.78	0.0143	0.0009 *
Earth	93585-02-03 00:58 G	35902312.37	35902312.54	35902312.74	0.0142	0.0098
Moon	93585-02-03 04:48 G	35902312.52	35902312.70	35902312.91	0.0142	0.0093 *
Venus	93590-11-21 23:02 G	35904430.34	35904430.46	35904430.60	0.0141	0.0114

Venus	93591-07-06 08:24 G	35904656.70	35904656.85	35904657.04	0.0140	0.0087
Venus	93592-02-17 18:00 G	35904883.05	35904883.25	35904883.45	0.0140	0.0058
Venus	93592-10-01 02:53 G	35905109.41	35905109.62	35905109.84	0.0140	0.0031
Venus	93593-05-15 11:46 G	35905335.78	35905335.99	35905336.21	0.0140	0.0005
Venus	93593-12-27 20:38 G	35905562.15	35905562.36	35905562.58	0.0140	0.0024
Venus	93594-08-11 05:02 G	35905788.51	35905788.71	35905788.92	0.0139	0.0051
Venus	93595-03-25 13:12 G	35906014.88	35906015.05	35906015.24	0.0139	0.0077
Venus	93595-11-06 21:22 G	35906241.25	35906241.39	35906241.53	0.0139	0.0103
Venus	93596-06-20 05:17 G	35906467.64	35906467.72	35906467.80	0.0139	0.0129
Mars	93605-02-23 14:24 G	35909637.88	35909638.10	35909638.33	0.0136	0.0081
Mercury	93607-07-22 16:05 G	35910517.10	35910517.17	35910517.26	0.0135	0.0123
Mercury	93607-10-18 23:17 G	35910605.35	35910605.47	35910605.62	0.0135	0.0096
Mercury	93608-01-15 06:58 G	35910693.63	35910693.79	35910693.96	0.0135	0.0068
Mercury	93608-04-12 14:24 G	35910781.92	35910782.10	35910782.29	0.0135	0.0040
Mercury	93608-07-09 21:50 G	35910870.22	35910870.41	35910870.60	0.0135	0.0013
Mercury	93608-10-06 05:17 G	35910958.52	35910958.72	35910958.91	0.0135	0.0014
Mercury	93609-01-02 12:29 G	35911046.84	35911047.02	35911047.20	0.0135	0.0041
Mercury	93609-03-31 19:26 G	35911135.16	35911135.31	35911135.49	0.0135	0.0068
Mercury	93609-06-28 02:38 G	35911223.49	35911223.61	35911223.76	0.0135	0.0095
Mercury	93609-09-24 10:05 G	35911311.84	35911311.92	35911312.01	0.0135	0.0121
Moon	93625-07-22 14:38 G	35917091.98	35917092.11	35917092.24	0.0135	0.0115
Earth	93625-07-22 18:00 G	35917092.12	35917092.25	35917092.39	0.0135	0.0114 *
Earth	93626-07-27 00:58 G	35917461.31	35917461.54	35917461.79	0.0135	0.0042
Moon	93626-07-27 04:34 G	35917461.46	35917461.69	35917461.94	0.0135	0.0037 *
Moon	93627-07-31 05:02 G	35917830.47	35917830.71	35917830.96	0.0135	0.0026
Earth	93627-07-31 08:38 G	35917830.62	35917830.86	35917831.11	0.0135	0.0032 *
Earth	93628-08-03 16:19 G	35918200.04	35918200.18	35918200.35	0.0136	0.0106
Moon	93628-08-03 19:55 G	35918200.20	35918200.33	35918200.47	0.0136	0.0113 *
Venus	93634-04-02 11:02 G	35920267.89	35920267.96	35920268.06	0.0137	0.0126
Venus	93634-11-14 18:29 G	35920494.14	35920494.27	35920494.43	0.0138	0.0101

Venus	93635-06-29 02:38 G	35920720.43	35920720.61	35920720.79	0.0138	0.0075
Venus	93636-02-10 10:34 G	35920946.74	35920946.94	35920947.15	0.0138	0.0049
Venus	93636-09-23 18:29 G	35921173.06	35921173.27	35921173.49	0.0138	0.0023
Venus	93637-05-08 02:53 G	35921399.41	35921399.62	35921399.84	0.0138	0.0005
Venus	93637-12-20 11:31 G	35921625.77	35921625.98	35921626.19	0.0139	0.0030
Venus	93638-08-03 20:10 G	35921852.15	35921852.34	35921852.55	0.0139	0.0058
Venus	93639-03-18 05:17 G	35922078.55	35922078.72	35922078.90	0.0139	0.0084
Venus	93639-10-30 14:10 G	35922304.97	35922305.09	35922305.23	0.0139	0.0112
Venus	93640-06-12 23:31 G	35922531.48	35922531.48	35922531.52	0.0139	0.0139
Mars	93647-05-18 18:00 G	35925062.01	35925062.25	35925062.52	0.0142	0.0092
Mercury	93650-04-18 17:17 G	35926128.16	35926128.22	35926128.28	0.0143	0.0127
Mercury	93650-07-15 20:53 G	35926216.28	35926216.37	35926216.46	0.0143	0.0105
Mercury	93650-10-12 00:14 G	35926304.41	35926304.51	35926304.62	0.0143	0.0084
Mercury	93651-01-08 03:50 G	35926392.54	35926392.66	35926392.78	0.0143	0.0062
Mercury	93651-04-06 07:26 G	35926480.68	35926480.81	35926480.93	0.0143	0.0040
Mercury	93651-07-03 10:48 G	35926568.82	35926568.95	35926569.09	0.0143	0.0019
Mercury	93651-09-29 14:24 G	35926656.97	35926657.10	35926657.23	0.0143	0.0004
Mercury	93651-12-26 18:00 G	35926745.12	35926745.25	35926745.38	0.0143	0.0026
Mercury	93652-03-23 21:36 G	35926833.27	35926833.40	35926833.52	0.0143	0.0048
Mercury	93652-06-20 00:58 G	35926921.43	35926921.54	35926921.66	0.0143	0.0071
Mercury	93652-09-16 04:48 G	35927009.60	35927009.70	35927009.80	0.0143	0.0092
Mercury	93652-12-13 08:10 G	35927097.77	35927097.84	35927097.93	0.0143	0.0115
Mercury	93653-03-11 11:46 G	35927185.96	35927185.99	35927186.03	0.0143	0.0138
Earth	93667-01-25 07:26 G	35932253.61	35932253.81	35932254.04	0.0143	0.0077
Moon	93667-01-25 10:48 G	35932253.73	35932253.95	35932254.19	0.0143	0.0069 *
Moon	93668-01-30 05:46 G	35932623.49	35932623.74	35932624.00	0.0143	0.0005
Earth	93668-01-30 09:07 G	35932623.63	35932623.88	35932624.14	0.0143	0.0014 *
Earth	93669-02-03 09:50 G	35932993.73	35932993.91	35932994.09	0.0142	0.0102
Moon	93669-02-03 12:58 G	35932993.89	35932994.04	35932994.23	0.0142	0.0107 *
Venus	93674-07-22 06:14 G	35934988.67	35934988.76	35934988.87	0.0141	0.0126

Venus	93675-03-05 15:36 G	35935215.01	35935215.15	35935215.32	0.0141	0.0099
Venus	93675-10-18 01:12 G	35935441.37	35935441.55	35935441.75	0.0140	0.0071
Venus	93676-05-31 10:34 G	35935667.74	35935667.94	35935668.15	0.0140	0.0043
Venus	93677-01-12 19:41 G	35935894.11	35935894.32	35935894.54	0.0140	0.0016
Venus	93677-08-27 04:34 G	35936120.48	35936120.69	35936120.91	0.0140	0.0012
Venus	93678-04-10 13:12 G	35936346.84	35936347.05	35936347.26	0.0140	0.0039
Venus	93678-11-22 21:36 G	35936573.21	35936573.40	35936573.60	0.0139	0.0066
Venus	93679-07-07 05:46 G	35936799.59	35936799.74	35936799.91	0.0139	0.0092
Venus	93680-02-18 13:55 G	35937025.98	35937026.08	35937026.20	0.0139	0.0118
Mars	93687-11-19 13:12 G	35939856.82	35939857.05	35939857.32	0.0136	0.0062
Mercury	93691-08-11 23:17 G	35941218.39	35941218.47	35941218.59	0.0135	0.0115
Mercury	93691-11-08 06:58 G	35941306.65	35941306.79	35941306.95	0.0135	0.0087
Mercury	93692-02-04 14:24 G	35941394.93	35941395.10	35941395.28	0.0135	0.0059
Mercury	93692-05-02 21:50 G	35941483.23	35941483.41	35941483.60	0.0135	0.0032
Mercury	93692-07-30 05:17 G	35941571.53	35941571.72	35941571.91	0.0135	0.0005
Mercury	93692-10-26 12:43 G	35941659.84	35941660.03	35941660.22	0.0135	0.0023
Mercury	93693-01-22 19:55 G	35941748.15	35941748.33	35941748.51	0.0135	0.0050
Mercury	93693-04-21 03:07 G	35941836.48	35941836.63	35941836.79	0.0135	0.0076
Mercury	93693-07-18 10:19 G	35941924.82	35941924.93	35941925.06	0.0135	0.0103
Mercury	93693-10-14 17:17 G	35942013.19	35942013.22	35942013.29	0.0135	0.0130
Moon	93709-07-24 02:24 G	35947773.46	35947773.60	35947773.76	0.0135	0.0107
Earth	93709-07-24 05:46 G	35947773.61	35947773.74	35947773.90	0.0135	0.0109 *
Earth	93710-07-28 12:58 G	35948142.81	35948143.04	35948143.29	0.0135	0.0036
Moon	93710-07-28 16:34 G	35948142.95	35948143.19	35948143.43	0.0135	0.0039 *
Moon	93711-08-01 17:17 G	35948511.98	35948512.22	35948512.45	0.0135	0.0045
Earth	93711-08-01 20:53 G	35948512.12	35948512.37	35948512.61	0.0135	0.0038 *
Earth	93712-08-05 04:19 G	35948881.54	35948881.68	35948881.82	0.0136	0.0112
Moon	93712-08-05 07:26 G	35948881.68	35948881.81	35948882.00	0.0136	0.0105 *
Venus	93717-12-01 20:24 G	35950826.33	35950826.35	35950826.40	0.0137	0.0135
Venus	93718-07-16 03:50 G	35951052.55	35951052.66	35951052.80	0.0137	0.0111

Venus	93719-02-27 11:46 G	35951278.82	35951278.99	35951279.16	0.0138	0.0085
Venus	93719-10-11 19:12 G	35951505.12	35951505.30	35951505.51	0.0138	0.0060
Venus	93720-05-25 03:36 G	35951731.44	35951731.65	35951731.86	0.0138	0.0033
Venus	93721-01-06 11:46 G	35951957.77	35951957.99	35951958.21	0.0138	0.0007
Venus	93721-08-20 20:10 G	35952184.13	35952184.34	35952184.56	0.0138	0.0020
Venus	93722-04-04 04:48 G	35952410.49	35952410.70	35952410.91	0.0139	0.0046
Venus	93722-11-16 13:26 G	35952636.88	35952637.06	35952637.25	0.0139	0.0073
Venus	93723-06-30 22:19 G	35952863.30	35952863.43	35952863.60	0.0139	0.0100
Venus	93724-02-12 07:55 G	35953089.75	35953089.83	35953089.92	0.0139	0.0126
Mars	93732-01-13 23:17 G	35955982.16	35955982.47	35955982.81	0.0142	0.0039
Mercury	93734-05-10 00:14 G	35956829.45	35956829.51	35956829.58	0.0143	0.0122
Mercury	93734-08-06 03:50 G	35956917.57	35956917.66	35956917.75	0.0143	0.0101
Mercury	93734-11-02 07:26 G	35957005.70	35957005.81	35957005.92	0.0143	0.0079
Mercury	93735-01-29 10:48 G	35957093.83	35957093.95	35957094.07	0.0143	0.0058
Mercury	93735-04-27 14:24 G	35957181.97	35957182.10	35957182.23	0.0143	0.0036
Mercury	93735-07-24 18:00 G	35957270.12	35957270.25	35957270.38	0.0143	0.0014
Mercury	93735-10-20 21:22 G	35957358.26	35957358.39	35957358.53	0.0143	0.0010
Mercury	93736-01-17 00:58 G	35957446.41	35957446.54	35957446.67	0.0143	0.0030
Mercury	93736-04-14 04:34 G	35957534.57	35957534.69	35957534.82	0.0143	0.0052
Mercury	93736-07-11 08:10 G	35957622.73	35957622.84	35957622.95	0.0143	0.0074
Mercury	93736-10-07 11:46 G	35957710.89	35957710.99	35957711.09	0.0143	0.0097
Mercury	93737-01-03 15:07 G	35957799.07	35957799.13	35957799.21	0.0143	0.0119
Mercury	93737-04-01 18:58 G	35957887.27	35957887.29	35957887.31	0.0143	0.0141
Earth	93751-01-26 14:10 G	35962934.87	35962935.09	35962935.31	0.0143	0.0074
Moon	93751-01-26 16:34 G	35962934.98	35962935.19	35962935.41	0.0143	0.0081 *
Moon	93752-01-31 12:29 G	35963304.77	35963305.02	35963305.27	0.0143	0.0023
Earth	93752-01-31 15:22 G	35963304.89	35963305.14	35963305.40	0.0143	0.0016 *
Earth	93753-02-04 15:50 G	35963675.00	35963675.16	35963675.35	0.0142	0.0105
Moon	93753-02-04 19:41 G	35963675.14	35963675.32	35963675.51	0.0142	0.0099 *
Venus	93758-03-22 11:17 G	35965546.95	35965546.97	35965547.01	0.0141	0.0139

Venus	93758-11-03 20:53 G	35965773.25	35965773.37	35965773.52	0.0141	0.0112
Venus	93759-06-18 06:43 G	35965999.61	35965999.78	35965999.96	0.0141	0.0084
Venus	93760-01-30 16:05 G	35966225.98	35966226.17	35966226.38	0.0140	0.0056
Venus	93760-09-13 01:12 G	35966452.35	35966452.55	35966452.77	0.0140	0.0029
Venus	93761-04-27 10:19 G	35966678.72	35966678.93	35966679.15	0.0140	0.0003
Venus	93761-12-09 19:12 G	35966905.09	35966905.30	35966905.52	0.0140	0.0026
Venus	93762-07-24 03:50 G	35967131.47	35967131.66	35967131.87	0.0139	0.0053
Venus	93763-03-07 12:14 G	35967357.84	35967358.01	35967358.19	0.0139	0.0079
Venus	93763-10-19 20:38 G	35967584.22	35967584.36	35967584.50	0.0139	0.0105
Venus	93764-06-02 04:34 G	35967810.63	35967810.69	35967810.76	0.0139	0.0131
Mars	93772-07-14 17:17 G	35970774.95	35970775.22	35970775.50	0.0136	0.0033
Mercury	93775-09-02 06:14 G	35971919.65	35971919.76	35971919.87	0.0135	0.0109
Mercury	93775-11-29 13:26 G	35972007.92	35972008.06	35972008.23	0.0135	0.0082
Mercury	93776-02-25 20:53 G	35972096.21	35972096.37	35972096.56	0.0135	0.0055
Mercury	93776-05-24 04:34 G	35972184.50	35972184.69	35972184.88	0.0135	0.0026
Mercury	93776-08-20 12:00 G	35972272.81	35972273.00	35972273.19	0.0135	0.0001
Mercury	93776-11-16 19:12 G	35972361.12	35972361.30	35972361.50	0.0135	0.0028
Mercury	93777-02-13 02:38 G	35972449.44	35972449.61	35972449.79	0.0135	0.0055
Mercury	93777-05-12 09:50 G	35972537.76	35972537.91	35972538.07	0.0135	0.0082
Mercury	93777-08-08 17:02 G	35972626.11	35972626.21	35972626.33	0.0135	0.0109
Moon	93793-07-24 14:38 G	35978454.96	35978455.11	35978455.27	0.0135	0.0103
Earth	93793-07-24 17:17 G	35978455.08	35978455.22	35978455.40	0.0135	0.0103 *
Earth	93794-07-29 00:43 G	35978824.29	35978824.53	35978824.78	0.0135	0.0030
Moon	93794-07-29 04:19 G	35978824.44	35978824.68	35978824.93	0.0135	0.0025 *
Moon	93795-08-02 05:02 G	35979193.48	35979193.71	35979193.95	0.0135	0.0038
Earth	93795-08-02 08:10 G	35979193.61	35979193.84	35979194.08	0.0135	0.0044 *
Earth	93796-08-05 15:36 G	35979563.05	35979563.15	35979563.29	0.0136	0.0119
Moon	93796-08-05 18:58 G	35979563.22	35979563.29	35979563.40	0.0136	0.0126 *
Venus	93802-03-16 13:26 G	35981610.97	35981611.06	35981611.18	0.0137	0.0120
Venus	93802-10-28 21:22 G	35981837.23	35981837.39	35981837.54	0.0137	0.0095

Venus	93803-06-12 04:48 G	35982063.52	35982063.70	35982063.90	0.0138	0.0070
Venus	93804-01-24 12:43 G	35982289.83	35982290.03	35982290.25	0.0138	0.0044
Venus	93804-09-06 20:53 G	35982516.16	35982516.37	35982516.59	0.0138	0.0018
Venus	93805-04-21 05:17 G	35982742.50	35982742.72	35982742.94	0.0138	0.0009
Venus	93805-12-03 13:41 G	35982968.87	35982969.07	35982969.29	0.0138	0.0035
Venus	93806-07-17 22:34 G	35983195.25	35983195.44	35983195.64	0.0139	0.0062
Venus	93807-03-01 07:12 G	35983421.65	35983421.80	35983421.98	0.0139	0.0089
Venus	93807-10-13 16:19 G	35983648.07	35983648.18	35983648.31	0.0139	0.0115
Mercury	93818-03-04 04:05 G	35987442.65	35987442.67	35987442.71	0.0142	0.0138
Mercury	93818-05-31 07:41 G	35987530.75	35987530.82	35987530.90	0.0143	0.0116
Mercury	93818-08-27 11:17 G	35987618.87	35987618.97	35987619.07	0.0143	0.0095
Mercury	93818-11-23 14:38 G	35987707.00	35987707.11	35987707.23	0.0143	0.0073
Mercury	93819-02-19 18:14 G	35987795.14	35987795.26	35987795.38	0.0143	0.0052
Mercury	93819-05-18 21:50 G	35987883.28	35987883.41	35987883.54	0.0143	0.0030
Mercury	93819-08-15 01:12 G	35987971.42	35987971.55	35987971.69	0.0143	0.0009
Mercury	93819-11-11 04:48 G	35988059.57	35988059.70	35988059.83	0.0143	0.0014
Mercury	93820-02-07 08:24 G	35988147.72	35988147.85	35988147.98	0.0143	0.0036
Mercury	93820-05-05 12:00 G	35988235.88	35988236.00	35988236.12	0.0143	0.0058
Mercury	93820-08-01 15:36 G	35988324.04	35988324.15	35988324.26	0.0143	0.0080
Mercury	93820-10-28 19:12 G	35988412.21	35988412.30	35988412.39	0.0143	0.0102
Mercury	93821-01-24 22:48 G	35988500.38	35988500.45	35988500.51	0.0143	0.0125
Earth	93835-01-27 22:19 G	35993616.22	35993616.43	35993616.67	0.0143	0.0071
Moon	93835-01-28 00:29 G	35993616.30	35993616.52	35993616.78	0.0143	0.0064 *
Moon	93836-02-01 21:21 G	35993986.14	35993986.39	35993986.64	0.0143	0.0012
Earth	93836-02-01 23:45 G	35993986.24	35993986.49	35993986.75	0.0143	0.0020 *
Earth	93837-02-06 00:14 G	35994356.35	35994356.51	35994356.68	0.0142	0.0109
Moon	93837-02-06 02:53 G	35994356.49	35994356.62	35994356.80	0.0142	0.0115 *
Venus	93842-07-05 03:21 G	35996331.55	35996331.64	35996331.75	0.0141	0.0124
Venus	93843-02-16 12:57 G	35996557.90	35996558.04	35996558.21	0.0141	0.0097
Venus	93843-09-30 22:48 G	35996784.26	35996784.45	35996784.64	0.0140	0.0069

Venus	93844-05-14 07:55 G	35997010.63	35997010.83	35997011.05	0.0140	0.0042
Venus	93844-12-26 17:31 G	35997237.01	35997237.23	35997237.44	0.0140	0.0014
Venus	93845-08-10 02:24 G	35997463.39	35997463.60	35997463.82	0.0140	0.0013
Venus	93846-03-24 11:02 G	35997689.76	35997689.96	35997690.17	0.0140	0.0040
Venus	93846-11-05 19:26 G	35997916.13	35997916.31	35997916.51	0.0139	0.0067
Venus	93847-06-20 03:50 G	35998142.51	35998142.66	35998142.83	0.0139	0.0094
Venus	93848-02-01 12:14 G	35998368.91	35998369.01	35998369.13	0.0139	0.0119
Mars	93855-04-10 11:02 G	36000993.82	36000993.96	36000994.13	0.0137	0.0115
Mars	93857-03-09 22:48 G	36001693.37	36001693.45	36001693.57	0.0136	0.0127
Mercury	93859-06-27 05:17 G	36002532.68	36002532.72	36002532.78	0.0136	0.0131
Mercury	93859-09-23 12:57 G	36002620.92	36002621.04	36002621.17	0.0136	0.0103
Mercury	93859-12-20 20:24 G	36002709.20	36002709.35	36002709.52	0.0135	0.0075
Mercury	93860-03-18 03:50 G	36002797.49	36002797.66	36002797.85	0.0135	0.0048
Mercury	93860-06-14 11:31 G	36002885.79	36002885.98	36002886.17	0.0135	0.0020
Mercury	93860-09-10 18:57 G	36002974.09	36002974.29	36002974.48	0.0135	0.0008
Mercury	93860-12-08 02:09 G	36003062.41	36003062.59	36003062.78	0.0135	0.0035
Mercury	93861-03-06 09:21 G	36003150.73	36003150.89	36003151.07	0.0135	0.0062
Mercury	93861-06-02 16:33 G	36003239.06	36003239.19	36003239.35	0.0135	0.0089
Mercury	93861-08-30 00:14 G	36003327.41	36003327.51	36003327.61	0.0135	0.0116
Moon	93877-07-26 01:55 G	36009136.43	36009136.58	36009136.77	0.0135	0.0098
Earth	93877-07-26 05:17 G	36009136.56	36009136.72	36009136.90	0.0135	0.0097 *
Earth	93878-07-30 12:29 G	36009505.78	36009506.02	36009506.27	0.0135	0.0024
Moon	93878-07-30 15:21 G	36009505.89	36009506.14	36009506.39	0.0135	0.0027 *
Moon	93879-08-03 16:48 G	36009874.98	36009875.20	36009875.43	0.0136	0.0057
Earth	93879-08-03 19:55 G	36009875.11	36009875.33	36009875.57	0.0136	0.0050 *
Earth	93880-08-07 03:36 G	36010244.57	36010244.65	36010244.76	0.0136	0.0125
Moon	93880-08-07 06:57 G	36010244.67	36010244.79	36010244.92	0.0136	0.0117 *
Venus	93885-11-13 23:31 G	36012169.42	36012169.48	36012169.56	0.0137	0.0130
Venus	93886-06-28 07:12 G	36012395.67	36012395.80	36012395.95	0.0137	0.0105
Venus	93887-02-09 14:38 G	36012621.95	36012622.11	36012622.30	0.0138	0.0080

Venus	93887-09-23 22:33 G	36012848.25	36012848.44	36012848.65	0.0138	0.0054
Venus	93888-05-07 06:43 G	36013074.57	36013074.78	36013075.00	0.0138	0.0028
Venus	93888-12-19 15:07 G	36013300.91	36013301.13	36013301.35	0.0138	0.0002
Venus	93889-08-02 23:31 G	36013527.27	36013527.48	36013527.70	0.0138	0.0025
Venus	93890-03-17 07:55 G	36013753.64	36013753.83	36013754.05	0.0139	0.0052
Venus	93890-10-29 16:48 G	36013980.03	36013980.20	36013980.39	0.0139	0.0078
Venus	93891-06-13 02:09 G	36014206.44	36014206.59	36014206.73	0.0139	0.0104
Venus	93892-01-25 11:02 G	36014432.90	36014432.96	36014433.04	0.0139	0.0131
Mars	93899-06-01 09:07 G	36017116.56	36017116.88	36017117.23	0.0142	0.0028
Mercury	93902-03-25 11:45 G	36018143.95	36018143.99	36018144.05	0.0142	0.0131
Mercury	93902-06-21 15:21 G	36018232.06	36018232.14	36018232.23	0.0142	0.0109
Mercury	93902-09-17 18:57 G	36018320.19	36018320.29	36018320.40	0.0142	0.0087
Mercury	93902-12-14 22:19 G	36018408.32	36018408.43	36018408.55	0.0143	0.0066
Mercury	93903-03-13 01:55 G	36018496.46	36018496.58	36018496.71	0.0143	0.0044
Mercury	93903-06-09 05:31 G	36018584.60	36018584.73	36018584.86	0.0143	0.0022
Mercury	93903-09-05 09:07 G	36018672.74	36018672.88	36018673.01	0.0143	0.0004
Mercury	93903-12-02 12:29 G	36018760.89	36018761.02	36018761.15	0.0143	0.0022
Mercury	93904-02-28 16:05 G	36018849.05	36018849.17	36018849.30	0.0143	0.0044
Mercury	93904-05-26 19:41 G	36018937.20	36018937.32	36018937.44	0.0143	0.0066
Mercury	93904-08-22 23:02 G	36019025.37	36019025.46	36019025.57	0.0143	0.0088
Mercury	93904-11-19 02:38 G	36019113.54	36019113.61	36019113.70	0.0143	0.0110
Mercury	93905-02-15 06:14 G	36019201.72	36019201.76	36019201.82	0.0143	0.0132
Earth	93919-01-29 08:38 G	36024297.64	36024297.86	36024298.10	0.0143	0.0065
Moon	93919-01-29 09:50 G	36024297.69	36024297.91	36024298.16	0.0143	0.0071 *
Moon	93920-02-03 07:41 G	36024667.58	36024667.82	36024668.07	0.0143	0.0033
Earth	93920-02-03 09:36 G	36024667.66	36024667.90	36024668.17	0.0143	0.0026 *
Earth	93921-02-07 10:05 G	36025037.78	36025037.92	36025038.08	0.0142	0.0115
Moon	93921-02-07 12:57 G	36025037.87	36025038.04	36025038.21	0.0142	0.0108 *
Venus	93926-03-05 10:19 G	36026889.88	36026889.93	36026889.99	0.0141	0.0136
Venus	93926-10-17 19:55 G	36027116.21	36027116.33	36027116.48	0.0141	0.0109

Venus	93927-06-01 05:31 G	36027342.57	36027342.73	36027342.92	0.0141	0.0082
Venus	93928-01-13 15:21 G	36027568.94	36027569.14	36027569.35	0.0140	0.0054
Venus	93928-08-27 00:43 G	36027795.32	36027795.53	36027795.74	0.0140	0.0026
Venus	93929-04-10 09:50 G	36028021.69	36028021.91	36028022.12	0.0140	0.0002
Venus	93929-11-22 18:29 G	36028248.06	36028248.27	36028248.49	0.0140	0.0029
Venus	93930-07-07 03:21 G	36028474.44	36028474.64	36028474.84	0.0139	0.0055
Venus	93931-02-18 11:45 G	36028700.82	36028700.99	36028701.17	0.0139	0.0081
Venus	93931-10-02 20:09 G	36028927.21	36028927.34	36028927.48	0.0139	0.0107
Venus	93932-05-16 04:05 G	36029153.62	36029153.67	36029153.74	0.0139	0.0133
Mars	93939-12-04 17:31 G	36031911.95	36031912.23	36031912.51	0.0136	0.0019
Mercury	93943-07-18 12:00 G	36033233.94	36033234.00	36033234.09	0.0136	0.0125
Mercury	93943-10-14 19:41 G	36033322.19	36033322.32	36033322.46	0.0135	0.0097
Mercury	93944-01-11 03:07 G	36033410.47	36033410.63	36033410.80	0.0135	0.0069
Mercury	93944-04-08 10:48 G	36033498.76	36033498.95	36033499.13	0.0135	0.0042
Mercury	93944-07-05 18:14 G	36033587.07	36033587.26	36033587.45	0.0135	0.0014
Mercury	93944-10-02 01:41 G	36033675.38	36033675.57	36033675.76	0.0135	0.0013
Mercury	93944-12-29 08:53 G	36033763.69	36033763.87	36033764.06	0.0135	0.0041
Mercury	93945-03-27 16:19 G	36033852.02	36033852.18	36033852.35	0.0135	0.0068
Mercury	93945-06-23 23:45 G	36033940.35	36033940.49	36033940.62	0.0135	0.0095
Mercury	93945-09-20 06:57 G	36034028.71	36034028.79	36034028.87	0.0135	0.0121
Moon	93961-07-27 13:55 G	36039817.91	36039818.08	36039818.27	0.0135	0.0091
Earth	93961-07-27 16:05 G	36039818.01	36039818.17	36039818.37	0.0135	0.0092 *
Earth	93962-07-31 23:31 G	36040187.24	36040187.48	36040187.74	0.0135	0.0019
Moon	93962-08-01 02:38 G	36040187.36	36040187.61	36040187.87	0.0135	0.0014 *
Moon	93963-08-05 04:33 G	36040556.47	36040556.69	36040556.93	0.0136	0.0052
Earth	93963-08-05 06:57 G	36040556.58	36040556.79	36040557.03	0.0136	0.0057 *
Earth	93964-08-08 14:53 G	36040926.07	36040926.12	36040926.19	0.0136	0.0131
Venus	93970-02-26 16:48 G	36042954.09	36042954.20	36042954.33	0.0137	0.0115
Venus	93970-10-11 00:14 G	36043180.36	36043180.51	36043180.69	0.0137	0.0090
Venus	93971-05-25 08:24 G	36043406.66	36043406.85	36043407.04	0.0138	0.0064

Venus	93972-01-06 16:33 G	36043632.98	36043633.19	36043633.39	0.0138	0.0038
Venus	93972-08-20 00:43 G	36043859.31	36043859.53	36043859.74	0.0138	0.0012
Venus	93973-04-03 08:53 G	36044085.65	36044085.87	36044086.09	0.0138	0.0014
Venus	93973-11-15 17:17 G	36044312.02	36044312.22	36044312.44	0.0138	0.0041
Venus	93974-06-30 02:09 G	36044538.40	36044538.59	36044538.79	0.0139	0.0067
Venus	93975-02-11 11:02 G	36044764.81	36044764.96	36044765.13	0.0139	0.0093
Venus	93975-09-25 19:55 G	36044991.23	36044991.33	36044991.45	0.0139	0.0120
Mars	93984-01-27 22:19 G	36048037.22	36048037.43	36048037.65	0.0142	0.0110
Mercury	93986-04-14 19:41 G	36048845.26	36048845.32	36048845.39	0.0142	0.0122
Mercury	93986-07-11 23:02 G	36048933.38	36048933.46	36048933.56	0.0142	0.0101
Mercury	93986-10-08 02:38 G	36049021.51	36049021.61	36049021.72	0.0143	0.0080
Mercury	93987-01-04 06:14 G	36049109.64	36049109.76	36049109.88	0.0143	0.0058
Mercury	93987-04-02 09:36 G	36049197.78	36049197.90	36049198.03	0.0143	0.0037
Mercury	93987-06-29 13:12 G	36049285.92	36049286.05	36049286.18	0.0143	0.0015
Mercury	93987-09-25 16:48 G	36049374.07	36049374.20	36049374.33	0.0143	0.0008
Mercury	93987-12-22 20:09 G	36049462.22	36049462.34	36049462.48	0.0143	0.0030
Mercury	93988-03-19 23:45 G	36049550.37	36049550.49	36049550.62	0.0143	0.0051
Mercury	93988-06-16 03:21 G	36049638.53	36049638.64	36049638.76	0.0143	0.0073
Mercury	93988-09-12 06:43 G	36049726.69	36049726.78	36049726.89	0.0143	0.0096
Mercury	93988-12-09 10:19 G	36049814.87	36049814.93	36049815.01	0.0143	0.0118
Mercury	93989-03-07 13:55 G	36049903.07	36049903.08	36049903.11	0.0143	0.0140

95TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 95th millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Earth	94003-01-29 21:07 G	36054979.16	36054979.38	36054979.63	0.0143	0.0058
Moon	94003-01-29 22:19 G	36054979.20	36054979.43	36054979.69	0.0143	0.0052 *
Moon	94004-02-03 20:38 G	36055349.13	36055349.36	36055349.62	0.0143	0.0026
Earth	94004-02-03 22:19 G	36055349.18	36055349.43	36055349.68	0.0143	0.0033 *
Earth	94005-02-07 21:50 G	36055719.31	36055719.41	36055719.57	0.0142	0.0123
Moon	94005-02-08 00:00 G	36055719.41	36055719.50	36055719.64	0.0142	0.0129 *
Venus	94010-06-17 04:33 G	36057674.59	36057674.69	36057674.82	0.0141	0.0120
Venus	94011-01-29 14:09 G	36057900.95	36057901.09	36057901.27	0.0141	0.0093
Venus	94011-09-13 00:00 G	36058127.31	36058127.50	36058127.70	0.0140	0.0065
Venus	94012-04-26 09:21 G	36058353.69	36058353.89	36058354.11	0.0140	0.0038
Venus	94012-12-08 18:43 G	36058580.07	36058580.28	36058580.50	0.0140	0.0010
Venus	94013-07-23 03:50 G	36058806.44	36058806.66	36058806.87	0.0140	0.0017
Venus	94014-03-06 12:29 G	36059032.82	36059033.02	36059033.23	0.0140	0.0044
Venus	94014-10-18 20:53 G	36059259.19	36059259.37	36059259.56	0.0139	0.0070
Venus	94015-06-02 05:17 G	36059485.57	36059485.72	36059485.88	0.0139	0.0096
Venus	94016-01-14 13:26 G	36059711.98	36059712.06	36059712.18	0.0139	0.0122
Mars	94024-07-29 00:57 G	36062830.33	36062830.54	36062830.79	0.0136	0.0080
Mercury	94027-08-07 19:26 G	36063935.22	36063935.31	36063935.41	0.0135	0.0117
Mercury	94027-11-04 02:53 G	36064023.48	36064023.62	36064023.78	0.0135	0.0089
Mercury	94028-01-31 10:19 G	36064111.77	36064111.93	36064112.11	0.0135	0.0062
Mercury	94028-04-28 18:00 G	36064200.07	36064200.25	36064200.44	0.0135	0.0034
Mercury	94028-07-26 01:26 G	36064288.37	36064288.56	36064288.76	0.0135	0.0007
Mercury	94028-10-22 08:53 G	36064376.68	36064376.87	36064377.06	0.0135	0.0021
Mercury	94029-01-18 16:05 G	36064465.00	36064465.17	36064465.36	0.0135	0.0049
Mercury	94029-04-16 23:31 G	36064553.33	36064553.48	36064553.65	0.0135	0.0075
Mercury	94029-07-14 06:43 G	36064641.67	36064641.78	36064641.92	0.0135	0.0103
Mercury	94029-10-10 13:55 G	36064730.04	36064730.08	36064730.15	0.0135	0.0129
Moon	94045-07-28 00:57 G	36070499.37	36070499.54	36070499.74	0.0135	0.0088

Earth	94045-07-28 03:21 G	36070499.46	36070499.64	36070499.84	0.0135	0.0087	*
Earth	94046-08-01 10:33 G	36070868.69	36070868.94	36070869.19	0.0135	0.0012	
Moon	94046-08-01 12:29 G	36070868.77	36070869.02	36070869.28	0.0135	0.0014	*
Moon	94047-08-05 15:21 G	36071237.94	36071238.14	36071238.36	0.0136	0.0068	
Earth	94047-08-05 18:00 G	36071238.03	36071238.25	36071238.48	0.0136	0.0062	*
Moon	94048-08-09 03:50 G	36071607.61	36071607.66	36071607.76	0.0136	0.0130	
Venus	94053-10-27 02:09 G	36073512.51	36073512.59	36073512.68	0.0137	0.0124	
Venus	94054-06-10 09:50 G	36073738.77	36073738.91	36073739.06	0.0137	0.0100	
Venus	94055-01-22 17:31 G	36073965.05	36073965.23	36073965.42	0.0138	0.0075	
Venus	94055-09-06 01:26 G	36074191.36	36074191.56	36074191.77	0.0138	0.0049	
Venus	94056-04-19 09:36 G	36074417.68	36074417.90	36074418.11	0.0138	0.0023	
Venus	94056-12-01 17:45 G	36074644.02	36074644.24	36074644.46	0.0138	0.0003	
Venus	94057-07-16 02:09 G	36074870.38	36074870.59	36074870.81	0.0138	0.0029	
Venus	94058-02-27 10:33 G	36075096.75	36075096.94	36075097.15	0.0139	0.0056	
Venus	94058-10-11 19:26 G	36075323.14	36075323.31	36075323.49	0.0139	0.0082	
Venus	94059-05-26 04:19 G	36075549.56	36075549.68	36075549.83	0.0139	0.0109	
Venus	94060-01-07 13:41 G	36075776.02	36075776.07	36075776.13	0.0139	0.0135	
Mars	94066-10-17 22:05 G	36078251.18	36078251.42	36078251.70	0.0141	0.0090	
Mercury	94070-02-05 23:45 G	36079458.46	36079458.49	36079458.53	0.0142	0.0137	
Mercury	94070-05-05 03:21 G	36079546.57	36079546.64	36079546.72	0.0142	0.0116	
Mercury	94070-08-01 06:43 G	36079634.69	36079634.78	36079634.88	0.0142	0.0094	
Mercury	94070-10-28 10:19 G	36079722.82	36079722.93	36079723.04	0.0143	0.0073	
Mercury	94071-01-24 13:41 G	36079810.95	36079811.07	36079811.20	0.0143	0.0051	
Mercury	94071-04-22 17:17 G	36079899.09	36079899.22	36079899.35	0.0143	0.0029	
Mercury	94071-07-19 20:53 G	36079987.24	36079987.37	36079987.50	0.0143	0.0008	
Mercury	94071-10-16 00:14 G	36080075.38	36080075.51	36080075.65	0.0143	0.0015	
Mercury	94072-01-12 03:50 G	36080163.53	36080163.66	36080163.79	0.0143	0.0036	
Mercury	94072-04-09 07:26 G	36080251.69	36080251.81	36080251.93	0.0143	0.0058	
Mercury	94072-07-06 11:02 G	36080339.85	36080339.96	36080340.07	0.0143	0.0080	
Mercury	94072-10-02 14:38 G	36080428.02	36080428.11	36080428.20	0.0143	0.0102	

Mercury	94072-12-29 18:00 G	36080516.19	36080516.25	36080516.32	0.0143	0.0125
Moon	94086-01-25 07:41 G	36085290.79	36085290.82	36085290.89	0.0143	0.0140
Earth	94086-01-25 07:41 G	36085290.80	36085290.82	36085290.88	0.0143	0.0141 *
Moon	94087-01-30 09:07 G	36085660.64	36085660.88	36085661.14	0.0143	0.0056
Earth	94087-01-30 08:53 G	36085660.65	36085660.87	36085661.13	0.0143	0.0051 *
Moon	94088-02-04 08:53 G	36086030.63	36086030.87	36086031.10	0.0143	0.0047
Earth	94088-02-04 09:50 G	36086030.66	36086030.91	36086031.16	0.0143	0.0040 *
Earth	94089-02-08 09:36 G	36086400.81	36086400.90	36086401.02	0.0142	0.0130
Moon	94089-02-08 11:31 G	36086400.86	36086400.98	36086401.13	0.0142	0.0122 *
Venus	94094-02-14 12:57 G	36088232.97	36088233.04	36088233.13	0.0141	0.0131
Venus	94094-09-28 22:33 G	36088459.31	36088459.44	36088459.60	0.0141	0.0104
Venus	94095-05-13 08:24 G	36088685.68	36088685.85	36088686.04	0.0140	0.0076
Venus	94095-12-25 18:00 G	36088912.05	36088912.25	36088912.46	0.0140	0.0049
Venus	94096-08-08 03:21 G	36089138.43	36089138.64	36089138.86	0.0140	0.0022
Venus	94097-03-22 12:29 G	36089364.80	36089365.02	36089365.24	0.0140	0.0005
Venus	94097-11-03 21:07 G	36089591.18	36089591.38	36089591.60	0.0140	0.0032
Venus	94098-06-18 05:45 G	36089817.55	36089817.74	36089817.95	0.0139	0.0059
Venus	94099-01-30 14:09 G	36090043.94	36090044.09	36090044.28	0.0139	0.0085
Venus	94099-09-13 22:48 G	36090270.32	36090270.45	36090270.58	0.0139	0.0110
Venus	94100-04-28 06:29 G	36090496.74	36090496.77	36090496.83	0.0139	0.0136
Mars	94107-04-24 20:09 G	36093049.11	36093049.34	36093049.61	0.0137	0.0067
Mercury	94111-08-29 02:24 G	36094636.50	36094636.60	36094636.73	0.0135	0.0110
Mercury	94111-11-25 10:05 G	36094724.77	36094724.92	36094725.08	0.0135	0.0082
Mercury	94112-02-21 17:31 G	36094813.06	36094813.23	36094813.41	0.0135	0.0054
Mercury	94112-05-20 01:12 G	36094901.36	36094901.55	36094901.74	0.0135	0.0027
Mercury	94112-08-16 08:38 G	36094989.66	36094989.86	36094990.05	0.0135	0.0002
Mercury	94112-11-12 15:50 G	36095077.98	36095078.16	36095078.35	0.0135	0.0028
Mercury	94113-02-08 23:17 G	36095166.30	36095166.47	36095166.65	0.0135	0.0055
Mercury	94113-05-08 06:29 G	36095254.63	36095254.77	36095254.93	0.0135	0.0082
Mercury	94113-08-04 13:41 G	36095342.97	36095343.07	36095343.19	0.0135	0.0109

Moon	94129-07-29 11:31 G	36101180.80	36101180.98	36101181.19	0.0135	0.0081
Earth	94129-07-29 12:57 G	36101180.85	36101181.04	36101181.25	0.0135	0.0082 *
Earth	94130-08-02 20:09 G	36101550.10	36101550.34	36101550.60	0.0135	0.0009
Moon	94130-08-02 22:19 G	36101550.17	36101550.43	36101550.69	0.0135	0.0006 *
Moon	94131-08-07 02:24 G	36101919.38	36101919.60	36101919.81	0.0136	0.0063
Earth	94131-08-07 03:36 G	36101919.44	36101919.65	36101919.88	0.0136	0.0067 *
Venus	94137-06-27 10:33 G	36104070.92	36104070.94	36104070.99	0.0137	0.0135
Venus	94138-02-08 18:00 G	36104297.14	36104297.25	36104297.39	0.0137	0.0111
Venus	94138-09-23 01:41 G	36104523.41	36104523.57	36104523.75	0.0137	0.0086
Venus	94139-05-07 09:21 G	36104749.71	36104749.89	36104750.10	0.0138	0.0061
Venus	94139-12-19 17:31 G	36104976.02	36104976.23	36104976.44	0.0138	0.0035
Venus	94140-08-02 01:41 G	36105202.35	36105202.57	36105202.79	0.0138	0.0009
Venus	94141-03-16 09:50 G	36105428.70	36105428.91	36105429.13	0.0138	0.0017
Venus	94141-10-28 18:14 G	36105655.06	36105655.26	36105655.47	0.0139	0.0043
Venus	94142-06-12 02:53 G	36105881.44	36105881.62	36105881.82	0.0139	0.0070
Venus	94143-01-24 11:45 G	36106107.84	36106107.99	36106108.15	0.0139	0.0096
Venus	94143-09-07 20:38 G	36106334.27	36106334.36	36106334.47	0.0139	0.0123
Mars	94151-06-15 02:09 G	36109171.27	36109171.59	36109171.91	0.0142	0.0041
Mercury	94154-02-27 06:43 G	36110159.75	36110159.78	36110159.84	0.0142	0.0133
Mercury	94154-05-26 10:19 G	36110247.86	36110247.93	36110248.02	0.0142	0.0111
Mercury	94154-08-22 13:55 G	36110335.98	36110336.08	36110336.18	0.0143	0.0090
Mercury	94154-11-18 17:17 G	36110424.11	36110424.22	36110424.34	0.0143	0.0068
Mercury	94155-02-14 20:53 G	36110512.25	36110512.37	36110512.50	0.0143	0.0046
Mercury	94155-05-14 00:29 G	36110600.39	36110600.52	36110600.65	0.0143	0.0025
Mercury	94155-08-10 03:50 G	36110688.53	36110688.66	36110688.80	0.0143	0.0005
Mercury	94155-11-06 07:26 G	36110776.68	36110776.81	36110776.94	0.0143	0.0019
Mercury	94156-02-02 11:02 G	36110864.83	36110864.96	36110865.08	0.0143	0.0041
Mercury	94156-04-30 14:24 G	36110952.99	36110953.10	36110953.22	0.0143	0.0063
Mercury	94156-07-27 18:00 G	36111041.15	36111041.25	36111041.36	0.0143	0.0085
Mercury	94156-10-23 21:36 G	36111129.32	36111129.40	36111129.49	0.0143	0.0107

Mercury	94157-01-20 01:12 G	36111217.50	36111217.55	36111217.61	0.0143	0.0129
Earth	94170-01-26 16:48 G	36115972.15	36115972.20	36115972.29	0.0143	0.0137
Moon	94170-01-26 18:00 G	36115972.21	36115972.25	36115972.35	0.0143	0.0137 *
Moon	94171-01-31 18:14 G	36116342.00	36116342.26	36116342.52	0.0143	0.0041
Earth	94171-01-31 18:14 G	36116342.02	36116342.26	36116342.51	0.0143	0.0046 *
Moon	94172-02-05 18:43 G	36116712.05	36116712.28	36116712.53	0.0143	0.0038
Earth	94172-02-05 18:57 G	36116712.05	36116712.29	36116712.54	0.0143	0.0045 *
Earth	94173-02-09 18:43 G	36117082.22	36117082.28	36117082.39	0.0142	0.0135
Moon	94173-02-09 19:55 G	36117082.31	36117082.33	36117082.39	0.0142	0.0141 *
Venus	94178-05-30 06:29 G	36119017.65	36119017.77	36119017.90	0.0141	0.0115
Venus	94179-01-11 16:19 G	36119244.02	36119244.18	36119244.36	0.0141	0.0088
Venus	94179-08-26 01:55 G	36119470.39	36119470.58	36119470.79	0.0140	0.0061
Venus	94180-04-08 11:31 G	36119696.77	36119696.98	36119697.19	0.0140	0.0033
Venus	94180-11-20 20:38 G	36119923.15	36119923.36	36119923.58	0.0140	0.0007
Venus	94181-07-05 05:45 G	36120149.52	36120149.74	36120149.95	0.0140	0.0021
Venus	94182-02-16 14:24 G	36120375.90	36120376.10	36120376.31	0.0140	0.0047
Venus	94182-09-30 23:02 G	36120602.28	36120602.46	36120602.65	0.0139	0.0073
Venus	94183-05-15 07:12 G	36120828.66	36120828.80	36120828.96	0.0139	0.0100
Venus	94183-12-27 15:21 G	36121055.06	36121055.14	36121055.25	0.0139	0.0125
Mars	94191-12-18 04:48 G	36123967.43	36123967.70	36123967.98	0.0136	0.0033
Mercury	94195-06-22 02:09 G	36125249.55	36125249.59	36125249.66	0.0136	0.0130
Mercury	94195-09-18 09:50 G	36125337.79	36125337.91	36125338.04	0.0135	0.0102
Mercury	94195-12-15 17:17 G	36125426.07	36125426.22	36125426.39	0.0135	0.0074
Mercury	94196-03-13 00:57 G	36125514.36	36125514.54	36125514.72	0.0135	0.0047
Mercury	94196-06-09 08:24 G	36125602.66	36125602.85	36125603.04	0.0135	0.0019
Mercury	94196-09-05 15:50 G	36125690.96	36125691.16	36125691.35	0.0135	0.0008
Mercury	94196-12-02 23:17 G	36125779.28	36125779.47	36125779.65	0.0135	0.0036
Mercury	94197-03-01 06:14 G	36125867.60	36125867.76	36125867.94	0.0135	0.0063
Mercury	94197-05-28 13:55 G	36125955.94	36125956.08	36125956.22	0.0135	0.0090
Mercury	94197-08-24 21:07 G	36126044.29	36126044.38	36126044.48	0.0135	0.0116

Moon	94213-07-30 21:36 G	36131862.22	36131862.40	36131862.61	0.0135	0.0080
Earth	94213-07-30 22:33 G	36131862.25	36131862.44	36131862.66	0.0135	0.0079 *
Earth	94214-08-04 06:00 G	36132231.50	36132231.75	36132232.00	0.0135	0.0004
Moon	94214-08-04 06:43 G	36132231.52	36132231.78	36132232.04	0.0135	0.0004 *
Moon	94215-08-08 11:31 G	36132600.80	36132600.98	36132601.20	0.0136	0.0076
Earth	94215-08-08 13:12 G	36132600.85	36132601.05	36132601.27	0.0136	0.0071 *
Venus	94221-10-10 01:55 G	36134855.50	36134855.58	36134855.70	0.0137	0.0122
Venus	94222-05-24 09:36 G	36135081.76	36135081.90	36135082.07	0.0137	0.0097
Venus	94223-01-05 17:17 G	36135308.04	36135308.22	36135308.42	0.0138	0.0072
Venus	94223-08-20 01:12 G	36135534.35	36135534.55	36135534.76	0.0138	0.0046
Venus	94224-04-02 09:07 G	36135760.67	36135760.88	36135761.10	0.0138	0.0021
Venus	94224-11-14 17:17 G	36135987.00	36135987.22	36135987.44	0.0138	0.0005
Venus	94225-06-29 01:26 G	36136213.36	36136213.56	36136213.78	0.0138	0.0032
Venus	94226-02-10 09:50 G	36136439.72	36136439.91	36136440.12	0.0139	0.0058
Venus	94226-09-24 18:29 G	36136666.11	36136666.27	36136666.45	0.0139	0.0084
Venus	94227-05-09 03:07 G	36136892.51	36136892.63	36136892.78	0.0139	0.0110
Venus	94227-12-21 12:00 G	36137118.98	36137119.00	36137119.07	0.0139	0.0137
Mercury	94238-03-20 13:41 G	36140861.02	36140861.07	36140861.13	0.0142	0.0129
Mercury	94238-06-16 17:17 G	36140949.14	36140949.22	36140949.30	0.0142	0.0108
Mercury	94238-09-12 20:38 G	36141037.26	36141037.36	36141037.47	0.0143	0.0087
Mercury	94238-12-10 00:14 G	36141125.39	36141125.51	36141125.63	0.0143	0.0065
Mercury	94239-03-08 03:36 G	36141213.53	36141213.65	36141213.78	0.0143	0.0044
Mercury	94239-06-04 07:12 G	36141301.67	36141301.80	36141301.93	0.0143	0.0022
Mercury	94239-08-31 10:48 G	36141389.82	36141389.95	36141390.08	0.0143	0.0002
Mercury	94239-11-27 14:09 G	36141477.96	36141478.09	36141478.23	0.0143	0.0022
Mercury	94240-02-23 17:45 G	36141566.12	36141566.24	36141566.37	0.0143	0.0044
Mercury	94240-05-21 21:21 G	36141654.27	36141654.39	36141654.51	0.0143	0.0066
Mercury	94240-08-18 00:43 G	36141742.43	36141742.53	36141742.64	0.0143	0.0088
Mercury	94240-11-14 04:19 G	36141830.60	36141830.68	36141830.77	0.0143	0.0110
Mercury	94241-02-10 07:55 G	36141918.79	36141918.83	36141918.88	0.0143	0.0132

Earth	94254-01-27 23:31 G	36146653.40	36146653.48	36146653.57	0.0143	0.0134
Moon	94254-01-28 00:43 G	36146653.47	36146653.53	36146653.63	0.0143	0.0135 *
Moon	94255-02-01 23:02 G	36147023.22	36147023.46	36147023.72	0.0143	0.0047
Earth	94255-02-02 00:29 G	36147023.29	36147023.52	36147023.78	0.0143	0.0044 *
Earth	94256-02-07 01:12 G	36147393.31	36147393.55	36147393.80	0.0143	0.0047
Moon	94256-02-07 01:41 G	36147393.35	36147393.57	36147393.80	0.0143	0.0054 *
Moon	94257-02-11 01:41 G	36147763.47	36147763.57	36147763.69	0.0142	0.0129
Earth	94257-02-11 01:26 G	36147763.50	36147763.56	36147763.64	0.0142	0.0137 *
Venus	94262-01-28 11:45 G	36149575.92	36149575.99	36149576.10	0.0141	0.0128
Venus	94262-09-11 21:50 G	36149802.27	36149802.41	36149802.57	0.0141	0.0101
Venus	94263-04-26 07:41 G	36150028.64	36150028.82	36150029.01	0.0140	0.0074
Venus	94263-12-08 17:17 G	36150255.02	36150255.22	36150255.44	0.0140	0.0047
Venus	94264-07-22 02:53 G	36150481.40	36150481.62	36150481.84	0.0140	0.0019
Venus	94265-03-05 12:00 G	36150707.78	36150708.00	36150708.22	0.0140	0.0008
Venus	94265-10-17 20:38 G	36150934.16	36150934.36	36150934.58	0.0140	0.0035
Venus	94266-06-01 05:31 G	36151160.54	36151160.73	36151160.93	0.0140	0.0061
Venus	94267-01-13 13:55 G	36151386.92	36151387.08	36151387.26	0.0139	0.0087
Venus	94267-08-27 22:19 G	36151613.31	36151613.43	36151613.56	0.0139	0.0113
Venus	94268-04-10 06:00 G	36151839.75	36151839.75	36151839.80	0.0139	0.0138
Mars	94274-09-12 17:45 G	36154186.12	36154186.24	36154186.41	0.0137	0.0117
Mars	94276-08-12 08:24 G	36154885.78	36154885.85	36154885.97	0.0136	0.0129
Mercury	94279-07-13 08:38 G	36155950.80	36155950.86	36155950.95	0.0136	0.0125
Mercury	94279-10-09 16:19 G	36156039.05	36156039.18	36156039.32	0.0136	0.0097
Mercury	94280-01-05 23:45 G	36156127.33	36156127.49	36156127.66	0.0135	0.0069
Mercury	94280-04-03 07:26 G	36156215.62	36156215.81	36156215.99	0.0135	0.0041
Mercury	94280-06-30 14:53 G	36156303.93	36156304.12	36156304.31	0.0135	0.0014
Mercury	94280-09-26 22:19 G	36156392.24	36156392.43	36156392.62	0.0135	0.0013
Mercury	94280-12-24 05:45 G	36156480.55	36156480.74	36156480.92	0.0135	0.0041
Mercury	94281-03-22 12:57 G	36156568.88	36156569.04	36156569.21	0.0135	0.0068
Mercury	94281-06-18 20:24 G	36156657.21	36156657.35	36156657.49	0.0135	0.0095

Mercury	94281-09-15 03:36 G	36156745.57	36156745.65	36156745.73	0.0135	0.0121
Moon	94297-07-31 07:55 G	36162543.64	36162543.83	36162544.05	0.0135	0.0071
Earth	94297-07-31 08:09 G	36162543.64	36162543.84	36162544.06	0.0135	0.0074 *
Earth	94298-08-04 15:21 G	36162912.89	36162913.14	36162913.39	0.0135	0.0002
Moon	94298-08-04 16:05 G	36162912.91	36162913.17	36162913.43	0.0135	0.0001 *
Moon	94299-08-08 22:33 G	36163282.24	36163282.44	36163282.65	0.0136	0.0073
Earth	94299-08-08 22:33 G	36163282.25	36163282.44	36163282.66	0.0136	0.0076 *
Venus	94305-06-10 10:33 G	36165413.90	36165413.94	36165414.02	0.0137	0.0131
Venus	94306-01-22 17:45 G	36165640.13	36165640.24	36165640.40	0.0137	0.0108
Venus	94306-09-06 01:26 G	36165866.40	36165866.56	36165866.74	0.0137	0.0082
Venus	94307-04-20 08:53 G	36166092.69	36166092.87	36166093.08	0.0138	0.0058
Venus	94307-12-02 17:02 G	36166319.00	36166319.21	36166319.42	0.0138	0.0032
Venus	94308-07-16 01:12 G	36166545.33	36166545.55	36166545.77	0.0138	0.0007
Venus	94309-02-27 09:21 G	36166771.67	36166771.89	36166772.10	0.0138	0.0020
Venus	94309-10-11 17:17 G	36166998.02	36166998.22	36166998.44	0.0138	0.0046
Venus	94310-05-26 01:41 G	36167224.40	36167224.57	36167224.77	0.0139	0.0072
Venus	94311-01-07 10:19 G	36167450.79	36167450.93	36167451.10	0.0139	0.0098
Venus	94311-08-21 19:12 G	36167677.22	36167677.30	36167677.42	0.0139	0.0124
Mars	94318-10-31 21:07 G	36170305.05	36170305.38	36170305.70	0.0141	0.0035
Mercury	94322-04-10 20:38 G	36171562.30	36171562.36	36171562.42	0.0142	0.0126
Mercury	94322-07-08 00:00 G	36171650.42	36171650.50	36171650.59	0.0142	0.0105
Mercury	94322-10-04 03:21 G	36171738.54	36171738.64	36171738.76	0.0142	0.0084
Mercury	94322-12-31 06:57 G	36171826.68	36171826.79	36171826.91	0.0143	0.0062
Mercury	94323-03-29 10:33 G	36171914.81	36171914.94	36171915.07	0.0143	0.0040
Mercury	94323-06-25 14:09 G	36172002.96	36172003.09	36172003.22	0.0143	0.0019
Mercury	94323-09-21 17:31 G	36172091.10	36172091.23	36172091.36	0.0143	0.0004
Mercury	94323-12-18 21:07 G	36172179.25	36172179.38	36172179.51	0.0143	0.0025
Mercury	94324-03-16 00:29 G	36172267.40	36172267.52	36172267.65	0.0143	0.0047
Mercury	94324-06-12 04:05 G	36172355.56	36172355.67	36172355.79	0.0143	0.0069
Mercury	94324-09-08 07:26 G	36172443.72	36172443.81	36172443.92	0.0143	0.0091

Mercury	94324-12-05 11:02 G	36172531.89	36172531.96	36172532.05	0.0143	0.0113
Mercury	94325-03-03 14:38 G	36172620.08	36172620.11	36172620.16	0.0143	0.0135
Earth	94338-01-29 04:48 G	36177334.63	36177334.70	36177334.81	0.0143	0.0133
Moon	94338-01-29 07:26 G	36177334.73	36177334.81	36177334.93	0.0143	0.0131 *
Moon	94339-02-03 04:05 G	36177704.43	36177704.67	36177704.94	0.0143	0.0040
Earth	94339-02-03 06:14 G	36177704.51	36177704.76	36177705.01	0.0143	0.0042 *
Earth	94340-02-08 06:43 G	36178074.55	36178074.78	36178075.03	0.0143	0.0049
Moon	94340-02-08 07:55 G	36178074.61	36178074.83	36178075.08	0.0143	0.0043 *
Earth	94341-02-12 06:57 G	36178444.75	36178444.79	36178444.86	0.0142	0.0138
Venus	94345-09-28 16:48 G	36180134.20	36180134.20	36180134.22	0.0141	0.0141
Venus	94346-05-13 02:53 G	36180360.50	36180360.62	36180360.76	0.0141	0.0114
Venus	94346-12-25 12:57 G	36180586.88	36180587.04	36180587.22	0.0141	0.0087
Venus	94347-08-08 22:33 G	36180813.26	36180813.44	36180813.65	0.0140	0.0060
Venus	94348-03-22 08:09 G	36181039.63	36181039.84	36181040.06	0.0140	0.0032
Venus	94348-11-03 17:31 G	36181266.01	36181266.23	36181266.45	0.0140	0.0005
Venus	94349-06-18 02:24 G	36181492.39	36181492.60	36181492.82	0.0140	0.0022
Venus	94350-01-30 11:31 G	36181718.78	36181718.98	36181719.19	0.0140	0.0048
Venus	94350-09-13 19:55 G	36181945.16	36181945.33	36181945.52	0.0139	0.0074
Venus	94351-04-28 04:05 G	36182171.54	36182171.67	36182171.84	0.0139	0.0101
Venus	94351-12-10 12:43 G	36182397.94	36182398.03	36182398.13	0.0139	0.0125
Mars	94359-05-08 22:48 G	36185104.17	36185104.45	36185104.74	0.0137	0.0021
Mercury	94363-08-03 15:07 G	36186652.05	36186652.13	36186652.22	0.0136	0.0120
Mercury	94363-10-30 22:19 G	36186740.31	36186740.43	36186740.59	0.0136	0.0093
Mercury	94364-01-27 06:00 G	36186828.59	36186828.75	36186828.93	0.0136	0.0065
Mercury	94364-04-24 13:41 G	36186916.89	36186917.07	36186917.26	0.0136	0.0037
Mercury	94364-07-21 21:07 G	36187005.19	36187005.38	36187005.58	0.0136	0.0010
Mercury	94364-10-18 04:33 G	36187093.50	36187093.69	36187093.89	0.0135	0.0018
Mercury	94365-01-14 11:45 G	36187181.82	36187181.99	36187182.18	0.0135	0.0046
Mercury	94365-04-12 19:12 G	36187270.15	36187270.30	36187270.47	0.0135	0.0073
Mercury	94365-07-10 02:24 G	36187358.49	36187358.60	36187358.74	0.0135	0.0100

Mercury	94365-10-06 09:50 G	36187446.85	36187446.91	36187446.99	0.0135	0.0126
Earth	94381-08-01 17:45 G	36193225.05	36193225.24	36193225.48	0.0135	0.0071
Moon	94381-08-01 18:14 G	36193225.07	36193225.26	36193225.47	0.0135	0.0074 *
Moon	94382-08-06 00:43 G	36193594.27	36193594.53	36193594.79	0.0135	0.0007
Earth	94382-08-06 01:26 G	36193594.31	36193594.56	36193594.81	0.0135	0.0005 *
Earth	94383-08-10 08:53 G	36193963.67	36193963.87	36193964.08	0.0136	0.0080
Moon	94383-08-10 08:38 G	36193963.68	36193963.86	36193964.06	0.0136	0.0083 *
Venus	94389-09-22 02:38 G	36196198.52	36196198.61	36196198.74	0.0137	0.0117
Venus	94390-05-06 10:19 G	36196424.78	36196424.93	36196425.10	0.0137	0.0092
Venus	94390-12-18 17:45 G	36196651.06	36196651.24	36196651.44	0.0137	0.0068
Venus	94391-08-02 01:41 G	36196877.37	36196877.57	36196877.78	0.0138	0.0042
Venus	94392-03-15 09:36 G	36197103.68	36197103.90	36197104.12	0.0138	0.0017
Venus	94392-10-27 17:31 G	36197330.01	36197330.23	36197330.45	0.0138	0.0009
Venus	94393-06-11 01:41 G	36197556.37	36197556.57	36197556.79	0.0138	0.0035
Venus	94394-01-23 10:05 G	36197782.73	36197782.92	36197783.12	0.0138	0.0060
Venus	94394-09-06 18:29 G	36198009.11	36198009.27	36198009.45	0.0139	0.0087
Venus	94395-04-21 03:07 G	36198235.52	36198235.63	36198235.77	0.0139	0.0113
Venus	94395-12-03 12:14 G	36198462.00	36198462.01	36198462.04	0.0139	0.0139
Mars	94403-06-28 01:55 G	36201225.35	36201225.58	36201225.83	0.0142	0.0097
Mercury	94406-02-02 00:29 G	36202175.52	36202175.52	36202175.53	0.0142	0.0142
Mercury	94406-05-01 03:50 G	36202263.60	36202263.66	36202263.73	0.0142	0.0121
Mercury	94406-07-28 07:12 G	36202351.72	36202351.80	36202351.90	0.0142	0.0100
Mercury	94406-10-24 10:48 G	36202439.84	36202439.95	36202440.06	0.0142	0.0078
Mercury	94407-01-20 14:24 G	36202527.98	36202528.10	36202528.22	0.0142	0.0057
Mercury	94407-04-18 17:45 G	36202616.11	36202616.24	36202616.37	0.0143	0.0035
Mercury	94407-07-15 21:21 G	36202704.26	36202704.39	36202704.52	0.0143	0.0014
Mercury	94407-10-12 00:43 G	36202792.40	36202792.53	36202792.66	0.0143	0.0009
Mercury	94408-01-08 04:19 G	36202880.55	36202880.68	36202880.81	0.0143	0.0030
Mercury	94408-04-05 07:41 G	36202968.70	36202968.82	36202968.95	0.0143	0.0052
Mercury	94408-07-02 11:17 G	36203056.86	36203056.97	36203057.09	0.0143	0.0074

Mercury	94408-09-28 14:38 G	36203145.02	36203145.11	36203145.22	0.0143	0.0096
Mercury	94408-12-25 18:14 G	36203233.20	36203233.26	36203233.34	0.0143	0.0118
Mercury	94409-03-23 21:50 G	36203321.39	36203321.41	36203321.44	0.0143	0.0140
Earth	94422-01-29 12:14 G	36208015.92	36208016.01	36208016.13	0.0143	0.0130
Moon	94422-01-29 15:21 G	36208016.05	36208016.14	36208016.23	0.0143	0.0132 *
Moon	94423-02-03 10:48 G	36208385.70	36208385.95	36208386.20	0.0143	0.0040
Earth	94423-02-03 13:26 G	36208385.82	36208386.06	36208386.32	0.0143	0.0039 *
Earth	94424-02-08 14:09 G	36208755.85	36208756.09	36208756.33	0.0143	0.0052
Moon	94424-02-08 15:50 G	36208755.94	36208756.16	36208756.40	0.0143	0.0058 *
Moon	94425-02-12 12:57 G	36209125.96	36209126.04	36209126.14	0.0142	0.0134
Earth	94425-02-12 14:09 G	36209126.09	36209126.09	36209126.12	0.0142	0.0142 *
Venus	94430-01-10 08:53 G	36210918.78	36210918.87	36210918.96	0.0141	0.0126
Venus	94430-08-24 18:29 G	36211145.13	36211145.27	36211145.44	0.0141	0.0100
Venus	94431-04-08 04:19 G	36211371.50	36211371.68	36211371.88	0.0141	0.0073
Venus	94431-11-20 13:55 G	36211597.88	36211598.08	36211598.30	0.0140	0.0045
Venus	94432-07-03 23:31 G	36211824.26	36211824.48	36211824.69	0.0140	0.0018
Venus	94433-02-15 08:38 G	36212050.64	36212050.86	36212051.08	0.0140	0.0009
Venus	94433-09-29 17:31 G	36212277.02	36212277.23	36212277.44	0.0140	0.0035
Venus	94434-05-14 01:55 G	36212503.40	36212503.58	36212503.79	0.0140	0.0062
Venus	94434-12-26 10:33 G	36212729.79	36212729.94	36212730.12	0.0139	0.0088
Venus	94435-08-09 18:43 G	36212956.17	36212956.28	36212956.43	0.0139	0.0113
Venus	94436-03-23 02:53 G	36213182.61	36213182.62	36213182.66	0.0139	0.0138
Mars	94444-01-01 02:38 G	36216022.39	36216022.61	36216022.86	0.0137	0.0074
Mercury	94447-08-23 20:53 G	36217353.29	36217353.37	36217353.48	0.0136	0.0117
Mercury	94447-11-20 04:33 G	36217441.55	36217441.69	36217441.85	0.0136	0.0089
Mercury	94448-02-16 12:00 G	36217529.84	36217530.00	36217530.19	0.0136	0.0062
Mercury	94448-05-14 19:41 G	36217618.14	36217618.32	36217618.51	0.0136	0.0034
Mercury	94448-08-11 03:07 G	36217706.44	36217706.63	36217706.83	0.0136	0.0007
Mercury	94448-11-07 10:33 G	36217794.75	36217794.94	36217795.14	0.0136	0.0022
Mercury	94449-02-03 18:00 G	36217883.07	36217883.25	36217883.43	0.0135	0.0049

Mercury	94449-05-03 01:26 G	36217971.40	36217971.56	36217971.72	0.0135	0.0076
Mercury	94449-07-30 08:38 G	36218059.74	36218059.86	36218059.99	0.0135	0.0103
Mercury	94449-10-26 16:05 G	36218148.12	36218148.17	36218148.22	0.0135	0.0130
Earth	94465-08-02 03:36 G	36223906.43	36223906.65	36223906.87	0.0135	0.0066
Moon	94465-08-02 04:33 G	36223906.49	36223906.69	36223906.92	0.0135	0.0062 *
Moon	94466-08-06 10:19 G	36224275.67	36224275.93	36224276.19	0.0135	0.0008
Earth	94466-08-06 11:02 G	36224275.71	36224275.96	36224276.21	0.0135	0.0009 *
Earth	94467-08-10 18:43 G	36224645.09	36224645.28	36224645.48	0.0136	0.0085
Moon	94467-08-10 19:55 G	36224645.14	36224645.33	36224645.52	0.0136	0.0084 *
Venus	94473-05-22 11:45 G	36226756.93	36226756.99	36226757.09	0.0137	0.0127
Venus	94474-01-03 19:26 G	36226983.17	36226983.31	36226983.46	0.0137	0.0103
Venus	94474-08-18 02:53 G	36227209.44	36227209.62	36227209.80	0.0137	0.0078
Venus	94475-04-01 10:33 G	36227435.74	36227435.94	36227436.14	0.0138	0.0053
Venus	94475-11-13 18:14 G	36227662.05	36227662.26	36227662.47	0.0138	0.0028
Venus	94476-06-27 02:24 G	36227888.38	36227888.60	36227888.81	0.0138	0.0003
Venus	94477-02-08 10:19 G	36228114.72	36228114.93	36228115.15	0.0138	0.0024
Venus	94477-09-22 18:29 G	36228341.08	36228341.27	36228341.48	0.0138	0.0050
Venus	94478-05-07 02:53 G	36228567.45	36228567.62	36228567.82	0.0139	0.0076
Venus	94478-12-19 11:45 G	36228793.85	36228793.99	36228794.14	0.0139	0.0101
Venus	94479-08-02 20:38 G	36229020.29	36229020.36	36229020.46	0.0139	0.0127
Mars	94486-03-18 07:41 G	36231439.58	36231439.82	36231440.05	0.0141	0.0101
Mercury	94490-02-22 07:55 G	36232876.80	36232876.83	36232876.87	0.0142	0.0136
Mercury	94490-05-21 11:17 G	36232964.90	36232964.97	36232965.06	0.0142	0.0115
Mercury	94490-08-17 14:53 G	36233053.02	36233053.12	36233053.22	0.0142	0.0093
Mercury	94490-11-13 18:29 G	36233141.15	36233141.27	36233141.38	0.0142	0.0072
Mercury	94491-02-09 21:50 G	36233229.29	36233229.41	36233229.53	0.0142	0.0050
Mercury	94491-05-09 01:12 G	36233317.43	36233317.55	36233317.68	0.0143	0.0029
Mercury	94491-08-05 04:48 G	36233405.57	36233405.70	36233405.83	0.0143	0.0007
Mercury	94491-11-01 08:09 G	36233493.71	36233493.84	36233493.98	0.0143	0.0016
Mercury	94492-01-28 11:45 G	36233581.86	36233581.99	36233582.12	0.0143	0.0036

Mercury	94492-04-25 15:07 G	36233670.02	36233670.13	36233670.26	0.0143	0.0059
Mercury	94492-07-22 18:43 G	36233758.18	36233758.28	36233758.39	0.0143	0.0080
Mercury	94492-10-18 22:19 G	36233846.34	36233846.43	36233846.52	0.0143	0.0102
Mercury	94493-01-15 01:55 G	36233934.52	36233934.58	36233934.64	0.0143	0.0124
Earth	94506-01-30 22:19 G	36238697.33	36238697.43	36238697.57	0.0143	0.0125
Moon	94506-01-31 01:55 G	36238697.46	36238697.58	36238697.73	0.0143	0.0121 *
Moon	94507-02-04 20:38 G	36239067.11	36239067.36	36239067.62	0.0143	0.0033
Earth	94507-02-04 23:31 G	36239067.24	36239067.48	36239067.74	0.0143	0.0034 *
Earth	94508-02-10 00:00 G	36239437.28	36239437.50	36239437.75	0.0142	0.0058
Moon	94508-02-10 02:53 G	36239437.39	36239437.62	36239437.85	0.0142	0.0052 *
Venus	94513-09-10 15:36 G	36241477.12	36241477.15	36241477.20	0.0141	0.0138
Venus	94514-04-25 01:41 G	36241703.45	36241703.57	36241703.71	0.0141	0.0111
Venus	94514-12-07 11:45 G	36241929.82	36241929.99	36241930.17	0.0141	0.0084
Venus	94515-07-21 21:07 G	36242156.19	36242156.38	36242156.59	0.0140	0.0058
Venus	94516-03-04 06:43 G	36242382.57	36242382.78	36242383.00	0.0140	0.0030
Venus	94516-10-16 15:50 G	36242608.95	36242609.16	36242609.38	0.0140	0.0005
Venus	94517-05-31 00:57 G	36242835.33	36242835.54	36242835.75	0.0140	0.0023
Venus	94518-01-12 09:50 G	36243061.71	36243061.91	36243062.12	0.0140	0.0049
Venus	94518-08-26 18:14 G	36243288.09	36243288.26	36243288.45	0.0139	0.0076
Venus	94519-04-10 02:38 G	36243514.47	36243514.61	36243514.77	0.0139	0.0101
Venus	94519-11-22 11:02 G	36243740.88	36243740.96	36243741.05	0.0139	0.0126
Mars	94526-09-26 16:19 G	36246240.95	36246241.18	36246241.42	0.0137	0.0076
Mercury	94531-09-14 03:21 G	36248054.55	36248054.64	36248054.77	0.0136	0.0112
Mercury	94531-12-11 11:02 G	36248142.82	36248142.96	36248143.12	0.0136	0.0084
Mercury	94532-03-08 18:43 G	36248231.11	36248231.28	36248231.46	0.0136	0.0056
Mercury	94532-06-05 02:09 G	36248319.41	36248319.59	36248319.79	0.0136	0.0029
Mercury	94532-09-01 09:50 G	36248407.71	36248407.91	36248408.10	0.0136	0.0002
Mercury	94532-11-28 17:17 G	36248496.03	36248496.22	36248496.41	0.0135	0.0027
Mercury	94533-02-25 00:43 G	36248584.35	36248584.53	36248584.70	0.0135	0.0054
Mercury	94533-05-24 07:41 G	36248672.68	36248672.82	36248672.99	0.0135	0.0082

Mercury	94533-08-20 15:07 G	36248761.03	36248761.13	36248761.26	0.0135	0.0108
Mercury	94533-11-16 22:19 G	36248849.43	36248849.43	36248849.46	0.0135	0.0135
Moon	94548-07-30 03:50 G	36254218.61	36254218.66	36254218.76	0.0135	0.0130
Earth	94549-08-03 13:12 G	36254587.84	36254588.05	36254588.29	0.0135	0.0062
Moon	94549-08-03 14:53 G	36254587.91	36254588.12	36254588.34	0.0135	0.0066 *
Moon	94550-08-07 18:57 G	36254957.04	36254957.29	36254957.55	0.0136	0.0018
Earth	94550-08-07 20:53 G	36254957.13	36254957.37	36254957.63	0.0136	0.0015 *
Earth	94551-08-12 04:48 G	36255326.52	36255326.70	36255326.89	0.0136	0.0090
Moon	94551-08-12 05:45 G	36255326.58	36255326.74	36255326.93	0.0136	0.0092 *
Venus	94557-01-20 20:53 G	36257315.37	36257315.37	36257315.39	0.0137	0.0137
Venus	94557-09-04 03:50 G	36257541.56	36257541.66	36257541.80	0.0137	0.0114
Venus	94558-04-18 11:17 G	36257767.82	36257767.97	36257768.15	0.0137	0.0089
Venus	94558-11-30 18:57 G	36257994.11	36257994.29	36257994.49	0.0138	0.0064
Venus	94559-07-15 02:53 G	36258220.41	36258220.62	36258220.83	0.0138	0.0039
Venus	94560-02-26 10:48 G	36258446.73	36258446.95	36258447.17	0.0138	0.0013
Venus	94560-10-09 18:43 G	36258673.07	36258673.28	36258673.50	0.0138	0.0013
Venus	94561-05-24 02:53 G	36258899.42	36258899.62	36258899.84	0.0138	0.0038
Venus	94562-01-05 11:31 G	36259125.79	36259125.98	36259126.17	0.0139	0.0064
Venus	94562-08-19 20:09 G	36259352.18	36259352.34	36259352.51	0.0139	0.0090
Venus	94563-04-03 04:48 G	36259578.59	36259578.70	36259578.83	0.0139	0.0116
Mars	94570-11-13 13:55 G	36262359.77	36262360.08	36262360.42	0.0141	0.0032
Mercury	94574-03-15 15:21 G	36263578.10	36263578.14	36263578.20	0.0142	0.0129
Mercury	94574-06-11 18:43 G	36263666.21	36263666.28	36263666.38	0.0142	0.0109
Mercury	94574-09-07 22:19 G	36263754.33	36263754.43	36263754.54	0.0142	0.0087
Mercury	94574-12-05 01:55 G	36263842.46	36263842.58	36263842.70	0.0142	0.0065
Mercury	94575-03-03 05:17 G	36263930.60	36263930.72	36263930.85	0.0142	0.0044
Mercury	94575-05-30 08:53 G	36264018.74	36264018.87	36264019.00	0.0143	0.0022
Mercury	94575-08-26 12:29 G	36264106.88	36264107.02	36264107.15	0.0143	0.0005
Mercury	94575-11-22 15:50 G	36264195.03	36264195.16	36264195.29	0.0143	0.0021
Mercury	94576-02-18 19:12 G	36264283.18	36264283.30	36264283.43	0.0143	0.0044

Mercury	94576-05-16 22:48 G	36264371.34	36264371.45	36264371.57	0.0143	0.0065
Mercury	94576-08-13 02:24 G	36264459.50	36264459.60	36264459.71	0.0143	0.0087
Mercury	94576-11-09 06:00 G	36264547.66	36264547.75	36264547.83	0.0143	0.0109
Mercury	94577-02-05 09:21 G	36264635.85	36264635.89	36264635.95	0.0143	0.0131
Earth	94590-01-31 10:33 G	36269378.81	36269378.94	36269379.09	0.0143	0.0118
Moon	94590-01-31 13:41 G	36269378.96	36269379.07	36269379.22	0.0143	0.0122 *
Moon	94591-02-05 07:55 G	36269748.59	36269748.83	36269749.10	0.0143	0.0027
Earth	94591-02-05 11:45 G	36269748.74	36269748.99	36269749.25	0.0143	0.0027 *
Earth	94592-02-10 12:14 G	36270118.78	36270119.01	36270119.24	0.0142	0.0065
Moon	94592-02-10 14:53 G	36270118.91	36270119.12	36270119.36	0.0142	0.0069 *
Venus	94597-12-23 10:05 G	36272261.82	36272261.92	36272262.03	0.0141	0.0122
Venus	94598-08-06 19:41 G	36272488.17	36272488.32	36272488.49	0.0141	0.0096
Venus	94599-03-21 05:31 G	36272714.54	36272714.73	36272714.92	0.0140	0.0069
Venus	94599-11-02 14:38 G	36272940.92	36272941.11	36272941.33	0.0140	0.0043
Venus	94600-06-17 00:14 G	36273167.29	36273167.51	36273167.73	0.0140	0.0015
Venus	94601-01-29 09:21 G	36273393.68	36273393.89	36273394.11	0.0140	0.0012
Venus	94601-09-12 18:14 G	36273620.05	36273620.26	36273620.47	0.0140	0.0038
Venus	94602-04-27 02:53 G	36273846.43	36273846.62	36273846.81	0.0139	0.0064
Venus	94602-12-09 11:31 G	36274072.81	36274072.98	36274073.14	0.0139	0.0090
Venus	94603-07-23 19:26 G	36274299.20	36274299.31	36274299.44	0.0139	0.0115
Mars	94611-05-23 00:14 G	36277159.24	36277159.51	36277159.80	0.0137	0.0023
Mercury	94615-07-09 02:38 G	36278667.59	36278667.61	36278667.65	0.0136	0.0134
Mercury	94615-10-05 10:19 G	36278755.81	36278755.93	36278756.06	0.0136	0.0106
Mercury	94616-01-01 18:00 G	36278844.09	36278844.25	36278844.41	0.0136	0.0078
Mercury	94616-03-30 01:12 G	36278932.38	36278932.55	36278932.74	0.0136	0.0051
Mercury	94616-06-26 08:53 G	36279020.68	36279020.87	36279021.06	0.0135	0.0023
Mercury	94616-09-22 16:19 G	36279108.99	36279109.18	36279109.38	0.0135	0.0005
Mercury	94616-12-19 23:45 G	36279197.30	36279197.49	36279197.68	0.0135	0.0032
Mercury	94617-03-18 06:57 G	36279285.63	36279285.79	36279285.97	0.0135	0.0060
Mercury	94617-06-14 14:24 G	36279373.96	36279374.10	36279374.26	0.0135	0.0087

Mercury	94617-09-10 21:50 G	36279462.31	36279462.41	36279462.52	0.0135	0.0113
Earth	94632-07-31 15:07 G	36284900.10	36284900.13	36284900.20	0.0135	0.0133
Earth	94633-08-04 22:33 G	36285269.22	36285269.44	36285269.67	0.0135	0.0057
Moon	94633-08-05 00:57 G	36285269.32	36285269.54	36285269.78	0.0135	0.0052 *
Moon	94634-08-09 04:19 G	36285638.42	36285638.68	36285638.94	0.0136	0.0015
Earth	94634-08-09 06:14 G	36285638.52	36285638.76	36285639.01	0.0136	0.0019 *
Earth	94635-08-13 13:55 G	36286007.92	36286008.08	36286008.27	0.0136	0.0095
Moon	94635-08-13 16:05 G	36286008.02	36286008.17	36286008.37	0.0136	0.0096 *
Venus	94641-05-05 12:14 G	36288099.93	36288100.01	36288100.12	0.0137	0.0124
Venus	94641-12-17 19:26 G	36288326.18	36288326.31	36288326.48	0.0137	0.0100
Venus	94642-08-01 03:07 G	36288552.46	36288552.63	36288552.82	0.0138	0.0075
Venus	94643-03-15 10:48 G	36288778.75	36288778.95	36288779.16	0.0138	0.0050
Venus	94643-10-27 18:29 G	36289005.06	36289005.27	36289005.49	0.0138	0.0025
Venus	94644-06-10 02:38 G	36289231.39	36289231.61	36289231.83	0.0138	0.0002
Venus	94645-01-22 10:48 G	36289457.74	36289457.95	36289458.17	0.0138	0.0027
Venus	94645-09-05 18:57 G	36289684.10	36289684.29	36289684.51	0.0139	0.0053
Venus	94646-04-20 03:50 G	36289910.48	36289910.66	36289910.84	0.0139	0.0078
Venus	94646-12-02 12:14 G	36290136.88	36290137.01	36290137.17	0.0139	0.0104
Venus	94647-07-16 21:21 G	36290363.33	36290363.39	36290363.48	0.0139	0.0130
Mercury	94658-04-05 22:48 G	36294279.39	36294279.45	36294279.51	0.0142	0.0124
Mercury	94658-07-03 02:09 G	36294367.51	36294367.59	36294367.69	0.0142	0.0103
Mercury	94658-09-29 05:31 G	36294455.63	36294455.73	36294455.85	0.0142	0.0082
Mercury	94658-12-26 09:07 G	36294543.77	36294543.88	36294544.00	0.0142	0.0060
Mercury	94659-03-24 12:43 G	36294631.90	36294632.03	36294632.16	0.0143	0.0038
Mercury	94659-06-20 16:05 G	36294720.04	36294720.17	36294720.31	0.0143	0.0017
Mercury	94659-09-16 19:41 G	36294808.19	36294808.32	36294808.45	0.0143	0.0006
Mercury	94659-12-13 23:02 G	36294896.34	36294896.46	36294896.60	0.0143	0.0028
Mercury	94660-03-11 02:38 G	36294984.49	36294984.61	36294984.74	0.0143	0.0049
Mercury	94660-06-07 06:14 G	36295072.65	36295072.76	36295072.87	0.0143	0.0071
Mercury	94660-09-03 09:36 G	36295160.81	36295160.90	36295161.01	0.0143	0.0093

Mercury	94660-11-30 13:12 G	36295248.98	36295249.05	36295249.13	0.0143	0.0115
Mercury	94661-02-26 16:48 G	36295337.17	36295337.20	36295337.24	0.0143	0.0137
Earth	94674-02-01 21:50 G	36300060.26	36300060.41	36300060.57	0.0143	0.0112
Moon	94674-02-02 01:26 G	36300060.40	36300060.56	36300060.74	0.0143	0.0107 *
Moon	94675-02-06 19:41 G	36300430.06	36300430.32	36300430.57	0.0143	0.0021
Earth	94675-02-06 22:48 G	36300430.21	36300430.45	36300430.72	0.0143	0.0021 *
Earth	94676-02-11 23:17 G	36300800.26	36300800.47	36300800.71	0.0142	0.0072
Moon	94676-02-12 02:53 G	36300800.41	36300800.62	36300800.85	0.0142	0.0067 *
Venus	94681-08-23 18:00 G	36302820.19	36302820.25	36302820.33	0.0141	0.0133
Venus	94682-04-07 03:50 G	36303046.53	36303046.66	36303046.82	0.0141	0.0107
Venus	94682-11-19 13:41 G	36303272.90	36303273.07	36303273.26	0.0141	0.0080
Venus	94683-07-03 23:17 G	36303499.28	36303499.47	36303499.68	0.0140	0.0053
Venus	94684-02-15 08:38 G	36303725.65	36303725.86	36303726.08	0.0140	0.0027
Venus	94684-09-28 18:00 G	36303952.03	36303952.25	36303952.47	0.0140	0.0001
Venus	94685-05-13 02:53 G	36304178.41	36304178.62	36304178.84	0.0140	0.0027
Venus	94685-12-25 11:45 G	36304404.79	36304404.99	36304405.19	0.0140	0.0053
Venus	94686-08-08 20:24 G	36304631.17	36304631.35	36304631.53	0.0139	0.0079
Venus	94687-03-23 04:33 G	36304857.56	36304857.69	36304857.84	0.0139	0.0104
Venus	94687-11-04 12:43 G	36305083.96	36305084.03	36305084.12	0.0139	0.0129
Mars	94694-02-14 15:21 G	36307378.03	36307378.14	36307378.25	0.0137	0.0125
Mars	94696-01-15 08:09 G	36308077.74	36308077.84	36308077.99	0.0136	0.0123
Mercury	94699-07-29 09:36 G	36309368.85	36309368.90	36309368.98	0.0136	0.0127
Mercury	94699-10-25 17:17 G	36309457.10	36309457.22	36309457.36	0.0136	0.0099
Mercury	94700-01-22 00:57 G	36309545.38	36309545.54	36309545.71	0.0136	0.0071
Mercury	94700-04-20 08:24 G	36309633.67	36309633.85	36309634.04	0.0135	0.0044
Mercury	94700-07-17 15:50 G	36309721.97	36309722.16	36309722.36	0.0135	0.0016
Mercury	94700-10-13 23:31 G	36309810.28	36309810.48	36309810.67	0.0135	0.0012
Mercury	94701-01-10 06:43 G	36309898.60	36309898.78	36309898.97	0.0135	0.0039
Mercury	94701-04-08 14:09 G	36309986.93	36309987.09	36309987.26	0.0135	0.0066
Mercury	94701-07-05 21:21 G	36310075.26	36310075.39	36310075.54	0.0135	0.0094

Mercury	94701-10-02 04:48 G	36310163.62	36310163.70	36310163.79	0.0135	0.0120
Moon	94716-08-01 21:36 G	36315581.30	36315581.40	36315581.52	0.0135	0.0121
Earth	94716-08-02 00:14 G	36315581.46	36315581.51	36315581.61	0.0135	0.0129 *
Earth	94717-08-06 07:55 G	36315950.60	36315950.83	36315951.06	0.0135	0.0053
Moon	94717-08-06 10:33 G	36315950.72	36315950.94	36315951.16	0.0135	0.0060 *
Moon	94718-08-10 12:29 G	36316319.78	36316320.02	36316320.28	0.0135	0.0027
Earth	94718-08-10 15:36 G	36316319.91	36316320.15	36316320.40	0.0135	0.0022 *
Earth	94719-08-14 23:02 G	36316689.30	36316689.46	36316689.65	0.0136	0.0099
Moon	94719-08-15 01:41 G	36316689.41	36316689.57	36316689.74	0.0136	0.0098 *
Venus	94725-01-03 19:55 G	36318658.31	36318658.33	36318658.40	0.0137	0.0134
Venus	94725-08-18 03:07 G	36318884.52	36318884.63	36318884.78	0.0137	0.0111
Venus	94726-04-01 10:33 G	36319110.78	36319110.94	36319111.12	0.0137	0.0086
Venus	94726-11-13 18:14 G	36319337.07	36319337.26	36319337.46	0.0138	0.0061
Venus	94727-06-28 02:09 G	36319563.38	36319563.59	36319563.80	0.0138	0.0036
Venus	94728-02-09 09:50 G	36319789.70	36319789.91	36319790.13	0.0138	0.0011
Venus	94728-09-22 18:00 G	36320016.03	36320016.25	36320016.47	0.0138	0.0015
Venus	94729-05-07 01:55 G	36320242.38	36320242.58	36320242.80	0.0138	0.0041
Venus	94729-12-19 10:33 G	36320468.75	36320468.94	36320469.14	0.0139	0.0066
Venus	94730-08-02 19:12 G	36320695.15	36320695.30	36320695.48	0.0139	0.0092
Venus	94731-03-17 04:19 G	36320921.57	36320921.68	36320921.80	0.0139	0.0117
Mars	94738-04-01 16:33 G	36323493.87	36323494.19	36323494.51	0.0141	0.0040
Mercury	94742-01-29 02:09 G	36324892.59	36324892.59	36324892.61	0.0142	0.0141
Mercury	94742-04-27 05:31 G	36324980.67	36324980.73	36324980.81	0.0142	0.0121
Mercury	94742-07-24 09:07 G	36325068.79	36325068.88	36325068.98	0.0142	0.0099
Mercury	94742-10-20 12:29 G	36325156.92	36325157.02	36325157.14	0.0142	0.0078
Mercury	94743-01-16 16:05 G	36325245.05	36325245.17	36325245.29	0.0143	0.0056
Mercury	94743-04-14 19:41 G	36325333.19	36325333.32	36325333.45	0.0143	0.0034
Mercury	94743-07-11 23:02 G	36325421.33	36325421.46	36325421.60	0.0143	0.0013
Mercury	94743-10-08 02:38 G	36325509.48	36325509.61	36325509.74	0.0143	0.0009
Mercury	94744-01-04 06:14 G	36325597.63	36325597.76	36325597.89	0.0143	0.0031

Mercury	94744-04-01 09:36 G	36325685.78	36325685.90	36325686.03	0.0143	0.0053
Mercury	94744-06-28 13:12 G	36325773.94	36325774.05	36325774.16	0.0143	0.0075
Mercury	94744-09-24 16:48 G	36325862.10	36325862.20	36325862.30	0.0143	0.0097
Mercury	94744-12-21 20:09 G	36325950.28	36325950.34	36325950.42	0.0143	0.0119
Mercury	94745-03-19 23:45 G	36326038.48	36326038.49	36326038.52	0.0143	0.0141
Earth	94758-02-03 06:29 G	36330741.61	36330741.77	36330741.94	0.0143	0.0108
Moon	94758-02-03 09:50 G	36330741.77	36330741.91	36330742.08	0.0143	0.0113 *
Moon	94759-02-08 04:05 G	36331111.41	36331111.67	36331111.93	0.0143	0.0014
Earth	94759-02-08 07:55 G	36331111.58	36331111.83	36331112.09	0.0143	0.0016 *
Earth	94760-02-13 08:24 G	36331481.64	36331481.85	36331482.08	0.0142	0.0076
Moon	94760-02-13 12:00 G	36331481.79	36331482.00	36331482.22	0.0142	0.0079 *
Venus	94765-12-06 10:48 G	36333604.85	36333604.95	36333605.08	0.0141	0.0118
Venus	94766-07-20 20:38 G	36333831.21	36333831.36	36333831.54	0.0141	0.0092
Venus	94767-03-04 06:29 G	36334057.58	36334057.77	36334057.97	0.0141	0.0065
Venus	94767-10-16 15:50 G	36334283.96	36334284.16	36334284.38	0.0140	0.0038
Venus	94768-05-30 01:26 G	36334510.34	36334510.56	36334510.77	0.0140	0.0011
Venus	94769-01-11 10:33 G	36334736.73	36334736.94	36334737.16	0.0140	0.0015
Venus	94769-08-25 19:26 G	36334963.11	36334963.31	36334963.52	0.0140	0.0041
Venus	94770-04-09 03:50 G	36335189.49	36335189.66	36335189.87	0.0139	0.0068
Venus	94770-11-21 12:14 G	36335415.87	36335416.01	36335416.19	0.0139	0.0094
Venus	94771-07-05 20:38 G	36335642.27	36335642.36	36335642.49	0.0139	0.0118
Mars	94778-10-10 22:33 G	36338296.17	36338296.44	36338296.73	0.0137	0.0026
Mercury	94783-08-19 16:19 G	36340070.11	36340070.18	36340070.28	0.0136	0.0121
Mercury	94783-11-16 00:00 G	36340158.37	36340158.50	36340158.65	0.0136	0.0093
Mercury	94784-02-12 07:26 G	36340246.65	36340246.81	36340246.99	0.0135	0.0066
Mercury	94784-05-10 15:07 G	36340334.95	36340335.13	36340335.32	0.0135	0.0038
Mercury	94784-08-06 22:48 G	36340423.25	36340423.45	36340423.64	0.0135	0.0010
Mercury	94784-11-03 06:14 G	36340511.57	36340511.76	36340511.95	0.0135	0.0018
Mercury	94785-01-30 13:26 G	36340599.89	36340600.06	36340600.25	0.0135	0.0045
Mercury	94785-04-28 20:53 G	36340688.21	36340688.37	36340688.54	0.0135	0.0072

Mercury	94785-07-26 04:05 G	36340776.55	36340776.67	36340776.81	0.0135	0.0100
Mercury	94785-10-22 11:31 G	36340864.92	36340864.98	36340865.06	0.0135	0.0126
Moon	94800-08-02 05:45 G	36346262.72	36346262.74	36346262.80	0.0135	0.0133
Earth	94800-08-02 09:21 G	36346262.81	36346262.89	36346262.99	0.0135	0.0125
Earth	94801-08-06 16:33 G	36346631.97	36346632.19	36346632.43	0.0135	0.0051
Moon	94801-08-06 19:55 G	36346632.10	36346632.33	36346632.57	0.0135	0.0043 *
Moon	94802-08-10 21:07 G	36347001.13	36347001.38	36347001.64	0.0135	0.0021
Earth	94802-08-11 00:14 G	36347001.27	36347001.51	36347001.76	0.0135	0.0026 *
Earth	94803-08-15 07:55 G	36347370.67	36347370.83	36347371.00	0.0136	0.0102
Moon	94803-08-15 10:48 G	36347370.81	36347370.95	36347371.13	0.0136	0.0105 *
Venus	94809-04-17 10:48 G	36349442.86	36349442.95	36349443.06	0.0137	0.0121
Venus	94809-11-29 18:00 G	36349669.10	36349669.25	36349669.41	0.0137	0.0097
Venus	94810-07-14 01:26 G	36349895.39	36349895.56	36349895.75	0.0137	0.0072
Venus	94811-02-25 09:07 G	36350121.68	36350121.88	36350122.09	0.0138	0.0048
Venus	94811-10-09 16:48 G	36350347.99	36350348.20	36350348.42	0.0138	0.0023
Venus	94812-05-23 00:57 G	36350574.32	36350574.54	36350574.75	0.0138	0.0003
Venus	94813-01-04 08:53 G	36350800.66	36350800.87	36350801.09	0.0138	0.0029
Venus	94813-08-18 17:31 G	36351027.03	36351027.23	36351027.43	0.0138	0.0054
Venus	94814-04-02 01:41 G	36351253.41	36351253.57	36351253.76	0.0139	0.0080
Venus	94814-11-14 10:33 G	36351479.81	36351479.94	36351480.09	0.0139	0.0105
Venus	94815-06-28 19:12 G	36351706.25	36351706.30	36351706.40	0.0139	0.0131
Mars	94822-11-26 11:17 G	36354413.73	36354413.97	36354414.26	0.0141	0.0086
Mercury	94826-02-18 09:07 G	36355593.85	36355593.88	36355593.90	0.0142	0.0139
Mercury	94826-05-17 12:29 G	36355681.95	36355682.02	36355682.09	0.0142	0.0117
Mercury	94826-08-13 15:50 G	36355770.07	36355770.16	36355770.26	0.0142	0.0096
Mercury	94826-11-09 19:26 G	36355858.20	36355858.31	36355858.42	0.0142	0.0075
Mercury	94827-02-05 22:48 G	36355946.33	36355946.45	36355946.58	0.0142	0.0053
Mercury	94827-05-05 02:24 G	36356034.47	36356034.60	36356034.73	0.0143	0.0031
Mercury	94827-08-01 06:00 G	36356122.61	36356122.75	36356122.88	0.0143	0.0011
Mercury	94827-10-28 09:21 G	36356210.76	36356210.89	36356211.02	0.0143	0.0012

Mercury	94828-01-24 12:57 G	36356298.91	36356299.04	36356299.17	0.0143	0.0034
Mercury	94828-04-21 16:19 G	36356387.06	36356387.18	36356387.31	0.0143	0.0056
Mercury	94828-07-18 19:55 G	36356475.22	36356475.33	36356475.44	0.0143	0.0078
Mercury	94828-10-14 23:17 G	36356563.39	36356563.47	36356563.57	0.0143	0.0100
Mercury	94829-01-11 02:53 G	36356651.56	36356651.62	36356651.70	0.0143	0.0122
Earth	94842-02-03 12:29 G	36361422.87	36361423.02	36361423.21	0.0143	0.0107
Moon	94842-02-03 16:05 G	36361423.00	36361423.17	36361423.37	0.0143	0.0100 *
Moon	94843-02-08 10:48 G	36361792.70	36361792.95	36361793.21	0.0143	0.0016
Earth	94843-02-08 14:24 G	36361792.84	36361793.10	36361793.35	0.0143	0.0014 *
Earth	94844-02-13 14:38 G	36362162.91	36362163.11	36362163.34	0.0142	0.0078
Moon	94844-02-13 18:29 G	36362163.07	36362163.27	36362163.50	0.0142	0.0075 *
Venus	94849-08-05 15:50 G	36364163.10	36364163.16	36364163.26	0.0141	0.0131
Venus	94850-03-20 02:09 G	36364389.45	36364389.59	36364389.74	0.0141	0.0104
Venus	94850-11-01 11:45 G	36364615.82	36364615.99	36364616.19	0.0141	0.0078
Venus	94851-06-15 21:36 G	36364842.20	36364842.40	36364842.61	0.0140	0.0051
Venus	94852-01-28 07:26 G	36365068.59	36365068.81	36365069.02	0.0140	0.0024
Venus	94852-09-10 16:33 G	36365294.98	36365295.19	36365295.41	0.0140	0.0004
Venus	94853-04-25 01:41 G	36365521.36	36365521.57	36365521.78	0.0140	0.0029
Venus	94853-12-07 10:19 G	36365747.74	36365747.93	36365748.14	0.0140	0.0056
Venus	94854-07-21 19:26 G	36365974.13	36365974.31	36365974.48	0.0139	0.0081
Venus	94855-03-05 03:36 G	36366200.53	36366200.65	36366200.80	0.0139	0.0107
Venus	94855-10-17 12:00 G	36366426.94	36366427.00	36366427.08	0.0139	0.0131
Mars	94863-06-05 04:19 G	36369214.45	36369214.68	36369214.94	0.0137	0.0071
Mercury	94867-09-08 22:48 G	36370771.37	36370771.45	36370771.57	0.0136	0.0116
Mercury	94867-12-06 06:29 G	36370859.63	36370859.77	36370859.93	0.0136	0.0088
Mercury	94868-03-03 14:09 G	36370947.92	36370948.09	36370948.27	0.0136	0.0060
Mercury	94868-05-30 21:50 G	36371036.22	36371036.41	36371036.60	0.0135	0.0032
Mercury	94868-08-27 05:17 G	36371124.53	36371124.72	36371124.92	0.0135	0.0005
Mercury	94868-11-23 12:43 G	36371212.84	36371213.03	36371213.22	0.0135	0.0023
Mercury	94869-02-19 20:09 G	36371301.16	36371301.34	36371301.52	0.0135	0.0050

Mercury	94869-05-19 03:36 G	36371389.50	36371389.65	36371389.81	0.0135	0.0078
Mercury	94869-08-15 10:33 G	36371477.84	36371477.94	36371478.08	0.0135	0.0106
Mercury	94869-11-11 18:00 G	36371566.23	36371566.25	36371566.31	0.0135	0.0132
Moon	94884-08-02 15:07 G	36376944.02	36376944.13	36376944.28	0.0135	0.0115
Earth	94884-08-02 18:29 G	36376944.19	36376944.27	36376944.40	0.0135	0.0122 *
Earth	94885-08-07 01:55 G	36377313.36	36377313.58	36377313.83	0.0135	0.0047
Moon	94885-08-07 05:17 G	36377313.50	36377313.72	36377313.96	0.0135	0.0053 *
Moon	94886-08-11 06:00 G	36377682.51	36377682.75	36377683.00	0.0135	0.0036
Earth	94886-08-11 09:21 G	36377682.66	36377682.89	36377683.15	0.0135	0.0031 *
Earth	94887-08-15 16:48 G	36378052.06	36378052.20	36378052.37	0.0136	0.0107
Moon	94887-08-15 19:55 G	36378052.19	36378052.33	36378052.51	0.0136	0.0105 *
Venus	94892-12-15 19:12 G	36380001.24	36380001.30	36380001.36	0.0137	0.0130
Venus	94893-07-30 02:24 G	36380227.46	36380227.60	36380227.73	0.0137	0.0107
Venus	94894-03-13 09:21 G	36380453.73	36380453.89	36380454.07	0.0137	0.0083
Venus	94894-10-25 16:48 G	36380680.01	36380680.20	36380680.41	0.0137	0.0058
Venus	94895-06-09 00:29 G	36380906.32	36380906.52	36380906.74	0.0138	0.0034
Venus	94896-01-21 08:38 G	36381132.64	36381132.86	36381133.08	0.0138	0.0008
Venus	94896-09-03 16:33 G	36381358.98	36381359.19	36381359.41	0.0138	0.0017
Venus	94897-04-18 00:43 G	36381585.33	36381585.53	36381585.74	0.0138	0.0042
Venus	94897-11-30 09:07 G	36381811.69	36381811.88	36381812.07	0.0138	0.0068
Venus	94898-07-14 17:31 G	36382038.09	36382038.23	36382038.41	0.0139	0.0094
Venus	94899-02-26 02:24 G	36382264.50	36382264.60	36382264.73	0.0139	0.0119
Mars	94905-08-17 14:09 G	36384627.93	36384628.09	36384628.31	0.0141	0.0116
Mercury	94910-03-11 15:50 G	36386295.13	36386295.16	36386295.20	0.0142	0.0135
Mercury	94910-06-07 19:12 G	36386383.23	36386383.30	36386383.39	0.0142	0.0114
Mercury	94910-09-03 22:48 G	36386471.36	36386471.45	36386471.55	0.0142	0.0093
Mercury	94910-12-01 02:09 G	36386559.48	36386559.59	36386559.71	0.0142	0.0072
Mercury	94911-02-27 05:45 G	36386647.62	36386647.74	36386647.86	0.0142	0.0050
Mercury	94911-05-26 09:21 G	36386735.76	36386735.89	36386736.02	0.0142	0.0028
Mercury	94911-08-22 12:43 G	36386823.90	36386824.03	36386824.16	0.0143	0.0007

Mercury	94911-11-18 16:19 G	36386912.05	36386912.18	36386912.31	0.0143	0.0015
Mercury	94912-02-14 19:41 G	36387000.20	36387000.32	36387000.45	0.0143	0.0037
Mercury	94912-05-12 23:17 G	36387088.35	36387088.47	36387088.59	0.0143	0.0059
Mercury	94912-08-09 02:53 G	36387176.51	36387176.62	36387176.73	0.0143	0.0081
Mercury	94912-11-05 06:14 G	36387264.68	36387264.76	36387264.86	0.0143	0.0103
Mercury	94913-02-01 09:50 G	36387352.85	36387352.91	36387352.98	0.0143	0.0125
Earth	94926-02-04 18:43 G	36392104.13	36392104.28	36392104.48	0.0143	0.0105
Moon	94926-02-04 22:19 G	36392104.27	36392104.43	36392104.60	0.0143	0.0110 *
Moon	94927-02-09 17:02 G	36392473.96	36392474.21	36392474.47	0.0143	0.0009
Earth	94927-02-09 20:38 G	36392474.10	36392474.36	36392474.62	0.0143	0.0012 *
Earth	94928-02-14 21:07 G	36392844.18	36392844.38	36392844.60	0.0142	0.0081
Moon	94928-02-15 00:29 G	36392844.32	36392844.52	36392844.75	0.0142	0.0082 *
Venus	94933-11-18 06:57 G	36394947.68	36394947.79	36394947.93	0.0141	0.0117
Venus	94934-07-02 17:02 G	36395174.05	36395174.21	36395174.39	0.0141	0.0090
Venus	94935-02-14 03:07 G	36395400.43	36395400.63	36395400.82	0.0141	0.0063
Venus	94935-09-28 12:29 G	36395626.82	36395627.02	36395627.24	0.0140	0.0037
Venus	94936-05-11 22:05 G	36395853.20	36395853.42	36395853.64	0.0140	0.0010
Venus	94936-12-24 07:26 G	36396079.59	36396079.81	36396080.03	0.0140	0.0017
Venus	94937-08-07 16:19 G	36396305.98	36396306.18	36396306.39	0.0140	0.0043
Venus	94938-03-22 00:57 G	36396532.37	36396532.54	36396532.74	0.0139	0.0069
Venus	94938-11-03 09:36 G	36396758.76	36396758.90	36396759.07	0.0139	0.0094
Venus	94939-06-17 18:00 G	36396985.16	36396985.25	36396985.38	0.0139	0.0119
Mars	94946-02-28 12:14 G	36399432.79	36399433.01	36399433.25	0.0137	0.0084
Mercury	94951-09-30 05:02 G	36401472.61	36401472.71	36401472.83	0.0136	0.0112
Mercury	94951-12-27 12:43 G	36401560.88	36401561.03	36401561.19	0.0136	0.0084
Mercury	94952-03-24 20:24 G	36401649.17	36401649.35	36401649.53	0.0136	0.0056
Mercury	94952-06-21 03:50 G	36401737.47	36401737.66	36401737.85	0.0136	0.0028
Mercury	94952-09-17 11:31 G	36401825.78	36401825.98	36401826.17	0.0135	0.0003
Mercury	94952-12-14 18:43 G	36401914.10	36401914.28	36401914.48	0.0135	0.0027
Mercury	94953-03-13 02:09 G	36402002.42	36402002.59	36402002.78	0.0135	0.0055

Mercury	94953-06-09 09:36 G	36402090.76	36402090.90	36402091.06	0.0135	0.0082
Mercury	94953-09-05 17:17 G	36402179.10	36402179.22	36402179.33	0.0135	0.0109
Moon	94968-08-03 23:45 G	36407625.42	36407625.49	36407625.60	0.0135	0.0126
Earth	94968-08-04 03:36 G	36407625.55	36407625.65	36407625.78	0.0135	0.0118 *
Earth	94969-08-08 11:02 G	36407994.73	36407994.96	36407995.20	0.0135	0.0043
Moon	94969-08-08 14:24 G	36407994.87	36407995.10	36407995.35	0.0135	0.0036 *
Moon	94970-08-12 14:53 G	36408363.88	36408364.12	36408364.37	0.0135	0.0028
Earth	94970-08-12 18:29 G	36408364.03	36408364.27	36408364.51	0.0135	0.0034 *
Earth	94971-08-17 01:41 G	36408733.45	36408733.57	36408733.73	0.0136	0.0111
Moon	94971-08-17 05:17 G	36408733.61	36408733.72	36408733.88	0.0136	0.0115 *
Venus	94977-03-30 10:33 G	36410785.83	36410785.94	36410786.05	0.0137	0.0117
Venus	94977-11-11 17:45 G	36411012.08	36411012.24	36411012.40	0.0137	0.0093
Venus	94978-06-26 01:12 G	36411238.37	36411238.55	36411238.74	0.0137	0.0069
Venus	94979-02-07 08:53 G	36411464.67	36411464.87	36411465.08	0.0138	0.0044
Venus	94979-09-21 16:48 G	36411690.98	36411691.20	36411691.41	0.0138	0.0019
Venus	94980-05-05 00:29 G	36411917.31	36411917.52	36411917.74	0.0138	0.0007
Venus	94980-12-17 08:38 G	36412143.65	36412143.86	36412144.08	0.0138	0.0031
Venus	94981-07-31 17:02 G	36412370.02	36412370.21	36412370.42	0.0138	0.0057
Venus	94982-03-15 01:41 G	36412596.40	36412596.57	36412596.75	0.0139	0.0082
Venus	94982-10-27 10:05 G	36412822.80	36412822.92	36412823.07	0.0139	0.0108
Venus	94983-06-10 18:57 G	36413049.24	36413049.29	36413049.36	0.0139	0.0133
Mars	94990-04-13 14:24 G	36415547.77	36415548.10	36415548.43	0.0141	0.0011
Mercury	94994-03-31 23:02 G	36416996.42	36416996.46	36416996.52	0.0142	0.0130
Mercury	94994-06-28 02:38 G	36417084.53	36417084.61	36417084.70	0.0142	0.0109
Mercury	94994-09-24 06:00 G	36417172.66	36417172.75	36417172.86	0.0142	0.0088
Mercury	94994-12-21 09:36 G	36417260.79	36417260.90	36417261.02	0.0142	0.0066
Mercury	94995-03-19 12:57 G	36417348.92	36417349.04	36417349.17	0.0142	0.0045
Mercury	94995-06-15 16:33 G	36417437.06	36417437.19	36417437.32	0.0142	0.0023
Mercury	94995-09-11 20:09 G	36417525.20	36417525.34	36417525.47	0.0143	0.0004
Mercury	94995-12-08 23:31 G	36417613.35	36417613.48	36417613.61	0.0143	0.0021

Mercury	94996-03-06 03:07 G	36417701.50	36417701.63	36417701.75	0.0143	0.0042
Mercury	94996-06-02 06:29 G	36417789.66	36417789.77	36417789.89	0.0143	0.0064
Mercury	94996-08-29 10:05 G	36417877.82	36417877.92	36417878.03	0.0143	0.0086
Mercury	94996-11-25 13:41 G	36417965.98	36417966.07	36417966.15	0.0143	0.0108
Mercury	94997-02-21 17:02 G	36418054.17	36418054.21	36418054.27	0.0143	0.0130

96TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 96th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	95010-02-06 03:21 G		36422785.47	36422785.64	36422785.84	0.0143	0.0101	
Moon	95010-02-06 06:00 G		36422785.56	36422785.75	36422785.96	0.0143	0.0093	*
Moon	95011-02-11 02:09 G		36423155.33	36423155.59	36423155.84	0.0143	0.0012	
Earth	95011-02-11 04:48 G		36423155.44	36423155.70	36423155.96	0.0143	0.0008	*
Earth	95012-02-16 05:02 G		36423525.51	36423525.71	36423525.93	0.0142	0.0085	
Moon	95012-02-16 08:24 G		36423525.66	36423525.85	36423526.08	0.0142	0.0084	*
Venus	95017-07-19 13:12 G		36425505.96	36425506.05	36425506.14	0.0141	0.0128	
Venus	95018-03-02 23:02 G		36425732.32	36425732.46	36425732.62	0.0141	0.0102	
Venus	95018-10-15 08:53 G		36425958.70	36425958.87	36425959.06	0.0141	0.0075	
Venus	95019-05-29 18:43 G		36426185.08	36426185.28	36426185.49	0.0140	0.0049	
Venus	95020-01-11 04:33 G		36426411.47	36426411.69	36426411.91	0.0140	0.0022	
Venus	95020-08-24 13:55 G		36426637.86	36426638.08	36426638.30	0.0140	0.0004	
Venus	95021-04-07 22:48 G		36426864.25	36426864.45	36426864.67	0.0140	0.0031	
Venus	95021-11-20 07:41 G		36427090.63	36427090.82	36427091.03	0.0140	0.0057	

Venus	95022-07-04 16:48 G	36427317.03	36427317.20	36427317.38	0.0139	0.0082
Venus	95023-02-16 01:12 G	36427543.43	36427543.55	36427543.70	0.0139	0.0107
Venus	95023-09-30 09:36 G	36427769.85	36427769.90	36427769.98	0.0139	0.0132
Mars	95030-10-24 19:12 G	36430351.01	36430351.30	36430351.59	0.0137	0.0013
Mercury	95035-07-25 03:50 G	36432085.65	36432085.66	36432085.69	0.0136	0.0135
Mercury	95035-10-21 11:31 G	36432173.87	36432173.98	36432174.10	0.0136	0.0107
Mercury	95036-01-17 19:12 G	36432262.14	36432262.30	36432262.46	0.0136	0.0079
Mercury	95036-04-15 02:38 G	36432350.44	36432350.61	36432350.80	0.0136	0.0051
Mercury	95036-07-12 10:19 G	36432438.74	36432438.93	36432439.12	0.0136	0.0023
Mercury	95036-10-08 17:45 G	36432527.05	36432527.24	36432527.44	0.0135	0.0005
Mercury	95037-01-05 01:12 G	36432615.37	36432615.55	36432615.74	0.0135	0.0032
Mercury	95037-04-03 08:38 G	36432703.69	36432703.86	36432704.04	0.0135	0.0059
Mercury	95037-06-30 16:05 G	36432792.03	36432792.17	36432792.32	0.0135	0.0086
Mercury	95037-09-26 23:31 G	36432880.38	36432880.48	36432880.59	0.0135	0.0114
Moon	95052-08-05 09:36 G	36438306.78	36438306.90	36438307.07	0.0135	0.0109
Earth	95052-08-05 13:12 G	36438306.93	36438307.05	36438307.20	0.0135	0.0115 *
Earth	95053-08-09 20:24 G	36438676.12	36438676.35	36438676.60	0.0135	0.0038
Moon	95053-08-10 00:00 G	36438676.27	36438676.50	36438676.74	0.0135	0.0046 *
Moon	95054-08-14 00:14 G	36439045.29	36439045.51	36439045.76	0.0136	0.0046
Earth	95054-08-14 03:50 G	36439045.43	36439045.66	36439045.91	0.0136	0.0039 *
Earth	95055-08-18 11:17 G	36439414.86	36439414.97	36439415.12	0.0136	0.0116
Moon	95055-08-18 14:53 G	36439414.99	36439415.12	36439415.27	0.0136	0.0112 *
Venus	95060-11-28 19:26 G	36441344.23	36441344.31	36441344.39	0.0137	0.0126
Venus	95061-07-13 02:24 G	36441570.47	36441570.60	36441570.76	0.0137	0.0103
Venus	95062-02-24 10:05 G	36441796.74	36441796.92	36441797.10	0.0137	0.0079
Venus	95062-10-08 17:17 G	36442023.03	36442023.22	36442023.43	0.0138	0.0055
Venus	95063-05-23 01:12 G	36442249.34	36442249.55	36442249.77	0.0138	0.0030
Venus	95064-01-04 09:07 G	36442475.67	36442475.88	36442476.10	0.0138	0.0005
Venus	95064-08-17 17:17 G	36442702.01	36442702.22	36442702.44	0.0138	0.0020
Venus	95065-04-01 01:26 G	36442928.36	36442928.56	36442928.77	0.0138	0.0046

Venus	95065-11-13 09:50 G	36443154.73	36443154.91	36443155.10	0.0139	0.0071
Venus	95066-06-27 18:14 G	36443381.12	36443381.26	36443381.43	0.0139	0.0097
Venus	95067-02-09 03:07 G	36443607.54	36443607.63	36443607.75	0.0139	0.0122
Mercury	95078-04-22 06:43 G	36447697.72	36447697.78	36447697.85	0.0142	0.0124
Mercury	95078-07-19 10:05 G	36447785.84	36447785.92	36447786.02	0.0142	0.0103
Mercury	95078-10-15 13:26 G	36447873.96	36447874.06	36447874.18	0.0142	0.0082
Mercury	95079-01-11 17:02 G	36447962.10	36447962.21	36447962.33	0.0142	0.0060
Mercury	95079-04-09 20:38 G	36448050.23	36448050.36	36448050.49	0.0142	0.0038
Mercury	95079-07-07 00:00 G	36448138.37	36448138.50	36448138.63	0.0142	0.0017
Mercury	95079-10-03 03:36 G	36448226.52	36448226.65	36448226.78	0.0143	0.0005
Mercury	95079-12-30 06:57 G	36448314.67	36448314.79	36448314.92	0.0143	0.0027
Mercury	95080-03-27 10:33 G	36448402.82	36448402.94	36448403.06	0.0143	0.0049
Mercury	95080-06-23 13:55 G	36448490.97	36448491.08	36448491.20	0.0143	0.0071
Mercury	95080-09-19 17:31 G	36448579.13	36448579.23	36448579.33	0.0143	0.0093
Mercury	95080-12-16 20:53 G	36448667.30	36448667.37	36448667.46	0.0143	0.0115
Mercury	95081-03-15 00:29 G	36448755.49	36448755.52	36448755.56	0.0143	0.0137
Earth	95094-02-06 14:24 G	36453466.92	36453467.10	36453467.31	0.0143	0.0095
Moon	95094-02-06 16:33 G	36453467.01	36453467.19	36453467.39	0.0143	0.0101 *
Moon	95095-02-11 12:57 G	36453836.79	36453837.04	36453837.30	0.0143	0.0004
Earth	95095-02-11 15:36 G	36453836.89	36453837.15	36453837.41	0.0143	0.0002 *
Earth	95096-02-16 15:50 G	36454206.97	36454207.16	36454207.36	0.0142	0.0091
Moon	95096-02-16 18:29 G	36454207.08	36454207.27	36454207.49	0.0142	0.0090 *
Venus	95101-03-19 19:55 G	36456064.33	36456064.33	36456064.38	0.0141	0.0140
Venus	95101-11-01 06:29 G	36456290.65	36456290.77	36456290.90	0.0141	0.0113
Venus	95102-06-15 16:19 G	36456517.02	36456517.18	36456517.36	0.0141	0.0087
Venus	95103-01-28 02:09 G	36456743.41	36456743.59	36456743.80	0.0140	0.0061
Venus	95103-09-11 12:14 G	36456969.80	36456970.01	36456970.22	0.0140	0.0034
Venus	95104-04-24 21:36 G	36457196.18	36457196.40	36457196.62	0.0140	0.0007
Venus	95104-12-07 06:57 G	36457422.57	36457422.79	36457423.00	0.0140	0.0019
Venus	95105-07-21 15:50 G	36457648.96	36457649.16	36457649.37	0.0140	0.0045

Venus	95106-03-05 00:43 G	36457875.35	36457875.53	36457875.72	0.0139	0.0071
Venus	95106-10-17 09:07 G	36458101.74	36458101.88	36458102.05	0.0139	0.0096
Venus	95107-05-31 18:00 G	36458328.14	36458328.25	36458328.36	0.0139	0.0120
Mars	95115-06-20 01:41 G	36461269.44	36461269.57	36461269.77	0.0137	0.0112
Mercury	95119-08-15 10:19 G	36462786.89	36462786.93	36462787.00	0.0136	0.0130
Mercury	95119-11-11 18:00 G	36462875.13	36462875.25	36462875.39	0.0136	0.0102
Mercury	95120-02-08 01:41 G	36462963.41	36462963.57	36462963.74	0.0136	0.0074
Mercury	95120-05-06 09:21 G	36463051.71	36463051.89	36463052.07	0.0135	0.0046
Mercury	95120-08-02 16:48 G	36463140.01	36463140.20	36463140.40	0.0135	0.0018
Mercury	95120-10-30 00:29 G	36463228.32	36463228.52	36463228.71	0.0135	0.0010
Mercury	95121-01-26 07:41 G	36463316.64	36463316.82	36463317.01	0.0135	0.0037
Mercury	95121-04-24 15:07 G	36463404.97	36463405.13	36463405.31	0.0135	0.0064
Mercury	95121-07-21 22:33 G	36463493.31	36463493.44	36463493.59	0.0135	0.0092
Mercury	95121-10-18 06:00 G	36463581.67	36463581.75	36463581.85	0.0135	0.0119
Moon	95136-08-06 18:43 G	36468988.16	36468988.28	36468988.40	0.0135	0.0118
Earth	95136-08-06 22:05 G	36468988.29	36468988.42	36468988.57	0.0135	0.0111 *
Earth	95137-08-11 05:17 G	36469357.48	36469357.72	36469357.97	0.0135	0.0034
Moon	95137-08-11 08:38 G	36469357.61	36469357.86	36469358.11	0.0135	0.0027 *
Moon	95138-08-15 09:07 G	36469726.65	36469726.88	36469727.13	0.0136	0.0037
Earth	95138-08-15 12:43 G	36469726.80	36469727.03	36469727.27	0.0136	0.0043 *
Earth	95139-08-19 19:55 G	36470096.24	36470096.33	36470096.47	0.0136	0.0120
Moon	95139-08-19 23:31 G	36470096.41	36470096.48	36470096.60	0.0136	0.0125 *
Venus	95144-07-30 03:50 G	36471902.65	36471902.66	36471902.68	0.0137	0.0136
Venus	95145-03-13 10:33 G	36472128.84	36472128.94	36472129.08	0.0137	0.0114
Venus	95145-10-25 18:00 G	36472355.10	36472355.25	36472355.43	0.0137	0.0090
Venus	95146-06-09 01:55 G	36472581.39	36472581.58	36472581.77	0.0138	0.0065
Venus	95147-01-21 09:21 G	36472807.69	36472807.89	36472808.11	0.0138	0.0041
Venus	95147-09-04 17:17 G	36473034.01	36473034.22	36473034.44	0.0138	0.0016
Venus	95148-04-18 01:12 G	36473260.34	36473260.55	36473260.77	0.0138	0.0010
Venus	95148-11-30 09:21 G	36473486.68	36473486.89	36473487.11	0.0138	0.0034

Venus	95149-07-14 17:45 G	36473713.05	36473713.24	36473713.44	0.0139	0.0060
Venus	95150-02-26 02:09 G	36473939.43	36473939.59	36473939.77	0.0139	0.0085
Venus	95150-10-10 11:02 G	36474165.83	36474165.96	36474166.09	0.0139	0.0110
Venus	95151-05-24 19:55 G	36474392.28	36474392.33	36474392.38	0.0139	0.0135
Mars	95157-08-31 04:19 G	36476682.39	36476682.68	36476683.00	0.0141	0.0054
Mercury	95162-02-14 10:48 G	36478310.92	36478310.95	36478310.98	0.0142	0.0139
Mercury	95162-05-13 14:09 G	36478399.02	36478399.09	36478399.17	0.0142	0.0117
Mercury	95162-08-09 17:31 G	36478487.14	36478487.23	36478487.33	0.0142	0.0096
Mercury	95162-11-05 21:07 G	36478575.27	36478575.38	36478575.49	0.0142	0.0075
Mercury	95163-02-02 00:29 G	36478663.40	36478663.52	36478663.65	0.0142	0.0054
Mercury	95163-05-01 04:05 G	36478751.54	36478751.67	36478751.80	0.0143	0.0032
Mercury	95163-07-28 07:41 G	36478839.69	36478839.82	36478839.95	0.0143	0.0010
Mercury	95163-10-24 11:02 G	36478927.83	36478927.96	36478928.09	0.0143	0.0012
Mercury	95164-01-20 14:38 G	36479015.98	36479016.11	36479016.24	0.0143	0.0034
Mercury	95164-04-17 18:00 G	36479104.13	36479104.25	36479104.38	0.0143	0.0055
Mercury	95164-07-14 21:36 G	36479192.29	36479192.40	36479192.51	0.0143	0.0077
Mercury	95164-10-11 01:12 G	36479280.45	36479280.55	36479280.64	0.0143	0.0099
Mercury	95165-01-07 04:33 G	36479368.63	36479368.69	36479368.76	0.0143	0.0121
Earth	95178-02-08 03:07 G	36484148.43	36484148.63	36484148.83	0.0143	0.0087
Moon	95178-02-08 04:19 G	36484148.47	36484148.68	36484148.91	0.0143	0.0079 *
Moon	95179-02-13 02:09 G	36484518.34	36484518.59	36484518.84	0.0143	0.0002
Earth	95179-02-13 03:50 G	36484518.41	36484518.66	36484518.92	0.0143	0.0006 *
Earth	95180-02-18 03:36 G	36484888.48	36484888.65	36484888.85	0.0142	0.0099
Moon	95180-02-18 06:29 G	36484888.60	36484888.77	36484888.98	0.0142	0.0099 *
Venus	95185-07-01 14:38 G	36486849.03	36486849.11	36486849.23	0.0141	0.0124
Venus	95186-02-13 01:12 G	36487075.39	36487075.55	36487075.71	0.0141	0.0097
Venus	95186-09-27 10:48 G	36487301.77	36487301.95	36487302.15	0.0140	0.0071
Venus	95187-05-11 20:38 G	36487528.16	36487528.36	36487528.57	0.0140	0.0044
Venus	95187-12-24 06:14 G	36487754.55	36487754.76	36487754.98	0.0140	0.0019
Venus	95188-08-06 15:36 G	36487980.94	36487981.15	36487981.37	0.0140	0.0009

Venus	95189-03-21 00:57 G	36488207.32	36488207.54	36488207.75	0.0140	0.0034
Venus	95189-11-02 09:36 G	36488433.71	36488433.90	36488434.10	0.0139	0.0060
Venus	95190-06-16 18:14 G	36488660.10	36488660.26	36488660.44	0.0139	0.0085
Venus	95191-01-29 02:53 G	36488886.50	36488886.62	36488886.76	0.0139	0.0110
Venus	95191-09-12 11:17 G	36489112.93	36489112.97	36489113.03	0.0139	0.0134
Mars	95198-03-14 15:21 G	36491487.88	36491488.14	36491488.43	0.0137	0.0038
Mercury	95203-09-04 17:45 G	36493488.16	36493488.24	36493488.32	0.0136	0.0122
Mercury	95203-12-02 00:57 G	36493576.42	36493576.54	36493576.69	0.0136	0.0095
Mercury	95204-02-28 08:38 G	36493664.70	36493664.86	36493665.04	0.0135	0.0067
Mercury	95204-05-26 16:19 G	36493753.00	36493753.18	36493753.37	0.0135	0.0039
Mercury	95204-08-23 00:00 G	36493841.30	36493841.50	36493841.69	0.0135	0.0011
Mercury	95204-11-19 07:26 G	36493929.62	36493929.81	36493930.00	0.0135	0.0016
Mercury	95205-02-15 14:53 G	36494017.94	36494018.12	36494018.30	0.0135	0.0044
Mercury	95205-05-14 22:05 G	36494106.27	36494106.42	36494106.59	0.0135	0.0071
Mercury	95205-08-11 05:31 G	36494194.61	36494194.73	36494194.87	0.0135	0.0098
Mercury	95205-11-07 12:43 G	36494282.98	36494283.03	36494283.12	0.0135	0.0126
Moon	95220-08-07 04:33 G	36499669.55	36499669.69	36499669.87	0.0135	0.0102
Earth	95220-08-07 07:26 G	36499669.67	36499669.81	36499669.97	0.0135	0.0107 *
Earth	95221-08-11 14:24 G	36500038.86	36500039.10	36500039.35	0.0135	0.0030
Moon	95221-08-11 17:45 G	36500039.00	36500039.24	36500039.49	0.0135	0.0038 *
Moon	95222-08-15 18:57 G	36500408.07	36500408.29	36500408.52	0.0136	0.0054
Earth	95222-08-15 21:50 G	36500408.18	36500408.41	36500408.65	0.0136	0.0047 *
Earth	95223-08-20 05:17 G	36500777.64	36500777.72	36500777.84	0.0136	0.0124
Moon	95223-08-20 08:24 G	36500777.75	36500777.85	36500777.99	0.0136	0.0119 *
Venus	95228-11-10 18:57 G	36502687.21	36502687.29	36502687.40	0.0137	0.0123
Venus	95229-06-25 02:24 G	36502913.46	36502913.60	36502913.76	0.0137	0.0100
Venus	95230-02-06 09:50 G	36503139.74	36503139.91	36503140.10	0.0137	0.0076
Venus	95230-09-20 17:17 G	36503366.03	36503366.22	36503366.43	0.0138	0.0052
Venus	95231-05-05 01:12 G	36503592.34	36503592.55	36503592.76	0.0138	0.0027
Venus	95231-12-17 09:07 G	36503818.66	36503818.88	36503819.09	0.0138	0.0003

Venus	95232-07-30 17:02 G	36504045.00	36504045.21	36504045.43	0.0138	0.0023
Venus	95233-03-14 01:26 G	36504271.35	36504271.56	36504271.76	0.0138	0.0048
Venus	95233-10-26 09:36 G	36504497.72	36504497.90	36504498.09	0.0139	0.0073
Venus	95234-06-09 17:45 G	36504724.11	36504724.24	36504724.41	0.0139	0.0099
Venus	95235-01-22 02:38 G	36504950.53	36504950.61	36504950.72	0.0139	0.0124
Mars	95242-04-27 03:50 G	36507602.39	36507602.66	36507602.95	0.0141	0.0075
Mercury	95246-03-06 18:00 G	36509012.21	36509012.25	36509012.29	0.0142	0.0134
Mercury	95246-06-02 21:21 G	36509100.31	36509100.39	36509100.47	0.0142	0.0112
Mercury	95246-08-30 00:43 G	36509188.44	36509188.53	36509188.64	0.0142	0.0091
Mercury	95246-11-26 04:19 G	36509276.57	36509276.68	36509276.80	0.0142	0.0070
Mercury	95247-02-22 07:41 G	36509364.70	36509364.82	36509364.95	0.0143	0.0049
Mercury	95247-05-21 11:17 G	36509452.84	36509452.97	36509453.10	0.0143	0.0027
Mercury	95247-08-17 14:53 G	36509540.98	36509541.12	36509541.25	0.0143	0.0006
Mercury	95247-11-13 18:14 G	36509629.13	36509629.26	36509629.39	0.0143	0.0017
Mercury	95248-02-09 21:50 G	36509717.28	36509717.41	36509717.54	0.0143	0.0039
Mercury	95248-05-08 01:12 G	36509805.44	36509805.55	36509805.67	0.0143	0.0061
Mercury	95248-08-04 04:48 G	36509893.59	36509893.70	36509893.81	0.0143	0.0082
Mercury	95248-10-31 08:24 G	36509981.76	36509981.85	36509981.94	0.0143	0.0104
Mercury	95249-01-27 11:45 G	36510069.94	36510069.99	36510070.06	0.0143	0.0126
Earth	95262-02-08 14:09 G	36514829.88	36514830.09	36514830.30	0.0143	0.0081
Moon	95262-02-08 14:38 G	36514829.91	36514830.11	36514830.33	0.0143	0.0088 *
Moon	95263-02-13 13:26 G	36515199.81	36515200.06	36515200.30	0.0143	0.0018
Earth	95263-02-13 14:53 G	36515199.86	36515200.12	36515200.38	0.0143	0.0012 *
Earth	95264-02-18 14:53 G	36515569.96	36515570.12	36515570.31	0.0142	0.0105
Moon	95264-02-18 16:48 G	36515570.03	36515570.20	36515570.39	0.0142	0.0103 *
Venus	95269-02-28 23:02 G	36517407.41	36517407.46	36517407.54	0.0141	0.0134
Venus	95269-10-13 09:07 G	36517633.76	36517633.88	36517634.04	0.0141	0.0108
Venus	95270-05-27 19:12 G	36517860.14	36517860.30	36517860.49	0.0141	0.0082
Venus	95271-01-09 05:31 G	36518086.53	36518086.73	36518086.93	0.0140	0.0055
Venus	95271-08-23 15:07 G	36518312.92	36518313.13	36518313.35	0.0140	0.0029

Venus	95272-04-06 00:29 G	36518539.31	36518539.52	36518539.74	0.0140	0.0003
Venus	95272-11-18 09:36 G	36518765.69	36518765.90	36518766.12	0.0140	0.0024
Venus	95273-07-02 18:43 G	36518992.08	36518992.28	36518992.49	0.0140	0.0049
Venus	95274-02-14 03:36 G	36519218.47	36519218.65	36519218.84	0.0139	0.0074
Venus	95274-09-28 12:00 G	36519444.86	36519445.00	36519445.16	0.0139	0.0100
Venus	95275-05-12 20:24 G	36519671.27	36519671.35	36519671.46	0.0139	0.0124
Mars	95282-11-07 01:55 G	36522406.34	36522406.58	36522406.85	0.0137	0.0065
Mercury	95287-09-25 00:43 G	36524189.43	36524189.53	36524189.64	0.0135	0.0115
Mercury	95287-12-22 08:09 G	36524277.70	36524277.84	36524278.00	0.0135	0.0087
Mercury	95288-03-19 15:50 G	36524365.99	36524366.16	36524366.34	0.0135	0.0060
Mercury	95288-06-15 23:17 G	36524454.29	36524454.47	36524454.67	0.0135	0.0032
Mercury	95288-09-12 06:57 G	36524542.59	36524542.79	36524542.98	0.0135	0.0004
Mercury	95288-12-09 14:24 G	36524630.91	36524631.10	36524631.29	0.0135	0.0023
Mercury	95289-03-07 21:50 G	36524719.23	36524719.41	36524719.59	0.0135	0.0050
Mercury	95289-06-04 05:17 G	36524807.56	36524807.72	36524807.88	0.0135	0.0077
Mercury	95289-08-31 12:29 G	36524895.91	36524896.02	36524896.15	0.0135	0.0105
Mercury	95289-11-27 19:55 G	36524984.29	36524984.33	36524984.38	0.0135	0.0131
Moon	95304-08-08 12:43 G	36530350.91	36530351.03	36530351.19	0.0135	0.0110
Earth	95304-08-08 15:50 G	36530351.00	36530351.16	36530351.32	0.0135	0.0104 *
Earth	95305-08-12 22:48 G	36530720.20	36530720.45	36530720.69	0.0135	0.0027
Moon	95305-08-13 00:57 G	36530720.29	36530720.54	36530720.80	0.0135	0.0021 *
Moon	95306-08-17 03:21 G	36531089.41	36531089.64	36531089.87	0.0136	0.0043
Earth	95306-08-17 06:00 G	36531089.52	36531089.75	36531089.99	0.0136	0.0050 *
Earth	95307-08-21 13:12 G	36531458.98	36531459.05	36531459.16	0.0136	0.0127
Moon	95307-08-21 16:05 G	36531459.14	36531459.17	36531459.24	0.0136	0.0133 *
Venus	95312-07-12 02:53 G	36533245.58	36533245.62	36533245.67	0.0137	0.0133
Venus	95313-02-23 09:50 G	36533471.79	36533471.91	36533472.05	0.0137	0.0110
Venus	95313-10-07 17:02 G	36533698.05	36533698.21	36533698.39	0.0137	0.0087
Venus	95314-05-22 00:29 G	36533924.33	36533924.52	36533924.72	0.0138	0.0063
Venus	95315-01-03 07:55 G	36534150.63	36534150.83	36534151.05	0.0138	0.0039

Venus	95315-08-17 15:50 G	36534376.95	36534377.16	36534377.38	0.0138	0.0014
Venus	95316-03-30 23:45 G	36534603.28	36534603.49	36534603.71	0.0138	0.0011
Venus	95316-11-12 07:41 G	36534829.62	36534829.82	36534830.04	0.0138	0.0036
Venus	95317-06-26 15:50 G	36535055.98	36535056.16	36535056.37	0.0139	0.0062
Venus	95318-02-08 00:29 G	36535282.36	36535282.52	36535282.70	0.0139	0.0086
Venus	95318-09-22 09:07 G	36535508.75	36535508.88	36535509.01	0.0139	0.0111
Venus	95319-05-06 17:45 G	36535735.21	36535735.24	36535735.29	0.0139	0.0136
Mars	95325-01-16 10:19 G	36537816.79	36537816.93	36537817.08	0.0141	0.0125
Mercury	95330-03-28 00:43 G	36539713.49	36539713.53	36539713.59	0.0142	0.0131
Mercury	95330-06-24 04:05 G	36539801.60	36539801.67	36539801.76	0.0142	0.0110
Mercury	95330-09-20 07:41 G	36539889.72	36539889.82	36539889.92	0.0143	0.0088
Mercury	95330-12-17 11:02 G	36539977.85	36539977.96	36539978.08	0.0143	0.0067
Mercury	95331-03-15 14:38 G	36540065.99	36540066.11	36540066.24	0.0143	0.0045
Mercury	95331-06-11 18:14 G	36540154.13	36540154.26	36540154.39	0.0143	0.0024
Mercury	95331-09-07 21:36 G	36540242.27	36540242.40	36540242.53	0.0143	0.0002
Mercury	95331-12-05 01:12 G	36540330.42	36540330.55	36540330.68	0.0143	0.0020
Mercury	95332-03-02 04:33 G	36540418.57	36540418.69	36540418.82	0.0143	0.0042
Mercury	95332-05-29 08:09 G	36540506.72	36540506.84	36540506.96	0.0143	0.0064
Mercury	95332-08-25 11:31 G	36540594.88	36540594.98	36540595.09	0.0143	0.0086
Mercury	95332-11-21 15:07 G	36540683.05	36540683.13	36540683.22	0.0143	0.0108
Mercury	95333-02-17 18:43 G	36540771.23	36540771.28	36540771.34	0.0143	0.0129
Moon	95346-02-09 21:50 G	36545511.20	36545511.41	36545511.66	0.0143	0.0070
Earth	95346-02-09 22:05 G	36545511.22	36545511.42	36545511.65	0.0143	0.0078 *
Moon	95347-02-14 22:48 G	36545881.20	36545881.45	36545881.70	0.0143	0.0010
Earth	95347-02-14 23:17 G	36545881.22	36545881.47	36545881.73	0.0143	0.0016 *
Earth	95348-02-19 23:31 G	36546251.32	36546251.48	36546251.65	0.0142	0.0109
Moon	95348-02-20 00:57 G	36546251.39	36546251.54	36546251.72	0.0142	0.0111 *
Venus	95353-06-13 16:05 G	36548192.07	36548192.17	36548192.30	0.0141	0.0119
Venus	95354-01-26 02:24 G	36548418.45	36548418.60	36548418.78	0.0141	0.0093
Venus	95354-09-09 12:29 G	36548644.84	36548645.02	36548645.23	0.0141	0.0067

Venus	95355-04-23 22:19 G	36548871.23	36548871.43	36548871.65	0.0140	0.0040
Venus	95355-12-06 08:09 G	36549097.62	36549097.84	36549098.06	0.0140	0.0014
Venus	95356-07-19 17:31 G	36549324.01	36549324.23	36549324.45	0.0140	0.0012
Venus	95357-03-03 02:38 G	36549550.40	36549550.61	36549550.82	0.0140	0.0038
Venus	95357-10-15 11:17 G	36549776.79	36549776.97	36549777.18	0.0140	0.0064
Venus	95358-05-29 20:09 G	36550003.18	36550003.34	36550003.51	0.0139	0.0089
Venus	95359-01-11 04:33 G	36550229.58	36550229.69	36550229.83	0.0139	0.0114
Venus	95359-08-25 13:12 G	36550456.02	36550456.05	36550456.08	0.0139	0.0137
Mars	95365-08-02 12:00 G	36552624.79	36552625.00	36552625.23	0.0137	0.0087
Jupiter	95367-10-22 10:19 G	36553435.80	36553435.93	36553436.14	0.0136	0.0129
Mercury	95371-07-20 00:14 G	36554802.51	36554802.51	36554802.51	0.0136	0.0136
Mercury	95371-10-16 07:41 G	36554890.71	36554890.82	36554890.94	0.0136	0.0108
Mercury	95372-01-12 15:07 G	36554978.99	36554979.13	36554979.30	0.0135	0.0081
Mercury	95372-04-09 22:48 G	36555067.28	36555067.45	36555067.64	0.0135	0.0053
Mercury	95372-07-07 06:29 G	36555155.58	36555155.77	36555155.96	0.0135	0.0025
Mercury	95372-10-03 13:55 G	36555243.89	36555244.08	36555244.28	0.0135	0.0003
Mercury	95372-12-30 21:21 G	36555332.20	36555332.39	36555332.58	0.0135	0.0030
Mercury	95373-03-29 04:48 G	36555420.53	36555420.70	36555420.88	0.0135	0.0057
Mercury	95373-06-25 12:00 G	36555508.86	36555509.00	36555509.16	0.0135	0.0085
Mercury	95373-09-21 19:26 G	36555597.21	36555597.31	36555597.43	0.0135	0.0111
Moon	95388-08-08 23:02 G	36561032.31	36561032.46	36561032.65	0.0135	0.0097
Earth	95388-08-09 00:43 G	36561032.38	36561032.53	36561032.71	0.0135	0.0100 *
Earth	95389-08-13 07:41 G	36561401.58	36561401.82	36561402.07	0.0135	0.0024
Moon	95389-08-13 10:05 G	36561401.67	36561401.92	36561402.17	0.0135	0.0031 *
Moon	95390-08-17 13:12 G	36561770.83	36561771.05	36561771.27	0.0135	0.0061
Earth	95390-08-17 14:53 G	36561770.90	36561771.12	36561771.36	0.0135	0.0053 *
Earth	95391-08-21 22:19 G	36562140.38	36562140.43	36562140.51	0.0136	0.0131
Moon	95391-08-22 00:29 G	36562140.44	36562140.52	36562140.64	0.0136	0.0125 *
Venus	95396-10-23 17:45 G	36564030.15	36564030.24	36564030.35	0.0137	0.0120
Venus	95397-06-07 00:43 G	36564256.39	36564256.53	36564256.70	0.0137	0.0097

Venus	95398-01-19 07:55 G	36564482.66	36564482.83	36564483.03	0.0137	0.0074
Venus	95398-09-02 15:21 G	36564708.95	36564709.14	36564709.36	0.0138	0.0050
Venus	95399-04-16 23:02 G	36564935.25	36564935.46	36564935.68	0.0138	0.0025
Venus	95399-11-29 06:57 G	36565161.57	36565161.79	36565162.00	0.0138	0.0002
Venus	95400-07-13 14:53 G	36565387.91	36565388.12	36565388.34	0.0138	0.0024
Venus	95401-02-24 22:48 G	36565614.25	36565614.45	36565614.66	0.0138	0.0049
Venus	95401-10-09 06:57 G	36565840.62	36565840.79	36565840.98	0.0139	0.0074
Venus	95402-05-23 15:36 G	36566067.00	36566067.15	36566067.30	0.0139	0.0099
Venus	95403-01-05 00:00 G	36566293.41	36566293.50	36566293.60	0.0139	0.0124
Mars	95409-09-13 02:38 G	36568736.28	36568736.61	36568736.94	0.0141	0.0003
Mercury	95414-04-18 07:26 G	36570414.76	36570414.81	36570414.87	0.0142	0.0128
Mercury	95414-07-15 10:48 G	36570502.87	36570502.95	36570503.04	0.0142	0.0107
Mercury	95414-10-11 14:24 G	36570591.00	36570591.10	36570591.20	0.0143	0.0086
Mercury	95415-01-07 17:45 G	36570679.13	36570679.24	36570679.36	0.0143	0.0065
Mercury	95415-04-05 21:21 G	36570767.26	36570767.39	36570767.51	0.0143	0.0043
Mercury	95415-07-03 00:43 G	36570855.40	36570855.53	36570855.66	0.0143	0.0022
Mercury	95415-09-29 04:19 G	36570943.55	36570943.68	36570943.81	0.0143	0.0002
Mercury	95415-12-26 07:41 G	36571031.69	36571031.82	36571031.95	0.0143	0.0022
Mercury	95416-03-23 11:17 G	36571119.84	36571119.97	36571120.09	0.0143	0.0044
Mercury	95416-06-19 14:38 G	36571208.00	36571208.11	36571208.23	0.0143	0.0066
Mercury	95416-09-15 18:14 G	36571296.16	36571296.26	36571296.37	0.0143	0.0088
Mercury	95416-12-12 21:50 G	36571384.33	36571384.41	36571384.49	0.0143	0.0109
Mercury	95417-03-11 01:26 G	36571472.51	36571472.56	36571472.61	0.0143	0.0131
Moon	95430-02-11 03:07 G	36576192.43	36576192.63	36576192.87	0.0143	0.0083
Earth	95430-02-11 04:19 G	36576192.47	36576192.68	36576192.91	0.0143	0.0076 *
Earth	95431-02-16 05:17 G	36576562.47	36576562.72	36576562.98	0.0143	0.0018
Moon	95431-02-16 05:31 G	36576562.48	36576562.73	36576562.97	0.0143	0.0025 *
Moon	95432-02-21 05:45 G	36576932.58	36576932.74	36576932.94	0.0142	0.0107
Earth	95432-02-21 05:45 G	36576932.59	36576932.74	36576932.91	0.0142	0.0111 *
Venus	95437-02-11 21:21 G	36578750.33	36578750.39	36578750.49	0.0141	0.0131

Venus	95437-09-26 07:55 G	36578976.70	36578976.83	36578976.99	0.0141	0.0105
Venus	95438-05-10 18:00 G	36579203.08	36579203.25	36579203.45	0.0141	0.0079
Venus	95438-12-23 04:19 G	36579429.48	36579429.68	36579429.89	0.0141	0.0052
Venus	95439-08-06 14:09 G	36579655.87	36579656.09	36579656.30	0.0140	0.0026
Venus	95440-03-19 23:31 G	36579882.27	36579882.48	36579882.70	0.0140	0.0002
Venus	95440-11-01 08:53 G	36580108.65	36580108.87	36580109.08	0.0140	0.0026
Venus	95441-06-15 17:45 G	36580335.05	36580335.24	36580335.45	0.0140	0.0052
Venus	95442-01-28 02:53 G	36580561.44	36580561.62	36580561.80	0.0140	0.0077
Venus	95442-09-11 11:31 G	36580787.84	36580787.98	36580788.13	0.0139	0.0102
Venus	95443-04-25 19:41 G	36581014.25	36581014.32	36581014.42	0.0139	0.0126
Mars	95450-03-28 21:07 G	36583543.10	36583543.38	36583543.67	0.0137	0.0013
Mercury	95455-08-10 06:29 G	36585503.73	36585503.77	36585503.83	0.0136	0.0131
Mercury	95455-11-06 14:09 G	36585591.97	36585592.09	36585592.22	0.0136	0.0103
Mercury	95456-02-02 21:36 G	36585680.25	36585680.40	36585680.57	0.0136	0.0076
Mercury	95456-05-01 05:17 G	36585768.54	36585768.72	36585768.91	0.0135	0.0048
Mercury	95456-07-28 12:57 G	36585856.85	36585857.04	36585857.23	0.0135	0.0020
Mercury	95456-10-24 20:24 G	36585945.16	36585945.35	36585945.55	0.0135	0.0007
Mercury	95457-01-21 03:50 G	36586033.47	36586033.66	36586033.85	0.0135	0.0035
Mercury	95457-04-19 11:02 G	36586121.80	36586121.96	36586122.14	0.0135	0.0063
Mercury	95457-07-16 18:29 G	36586210.14	36586210.27	36586210.43	0.0135	0.0089
Mercury	95457-10-13 01:55 G	36586298.49	36586298.58	36586298.69	0.0135	0.0116
Moon	95472-08-10 08:09 G	36591713.68	36591713.84	36591714.00	0.0135	0.0102
Earth	95472-08-10 09:07 G	36591713.73	36591713.88	36591714.07	0.0135	0.0097 *
Earth	95473-08-14 16:33 G	36592082.94	36592083.19	36592083.44	0.0135	0.0020
Moon	95473-08-14 17:31 G	36592082.97	36592083.23	36592083.49	0.0135	0.0014 *
Moon	95474-08-18 22:05 G	36592452.21	36592452.42	36592452.66	0.0135	0.0051
Earth	95474-08-18 23:45 G	36592452.27	36592452.49	36592452.72	0.0135	0.0057 *
Earth	95475-08-23 07:26 G	36592821.78	36592821.81	36592821.85	0.0136	0.0134
Venus	95480-06-24 01:41 G	36594588.52	36594588.57	36594588.65	0.0137	0.0130
Venus	95481-02-05 08:38 G	36594814.74	36594814.86	36594815.01	0.0137	0.0107

Venus	95481-09-19 15:50 G	36595041.00	36595041.16	36595041.34	0.0137	0.0084
Venus	95482-05-03 23:17 G	36595267.28	36595267.47	36595267.67	0.0137	0.0060
Venus	95482-12-16 06:29 G	36595493.57	36595493.77	36595493.99	0.0138	0.0036
Venus	95483-07-30 14:24 G	36595719.88	36595720.10	36595720.32	0.0138	0.0011
Venus	95484-03-12 22:05 G	36595946.21	36595946.42	36595946.64	0.0138	0.0014
Venus	95484-10-25 06:00 G	36596172.54	36596172.75	36596172.96	0.0138	0.0038
Venus	95485-06-08 13:55 G	36596398.90	36596399.08	36596399.29	0.0138	0.0063
Venus	95486-01-20 22:19 G	36596625.27	36596625.43	36596625.61	0.0139	0.0088
Venus	95486-09-04 06:43 G	36596851.67	36596851.78	36596851.92	0.0139	0.0113
Venus	95487-04-18 15:21 G	36597078.13	36597078.14	36597078.18	0.0139	0.0138
Mars	95494-05-09 21:36 G	36599656.26	36599656.40	36599656.58	0.0141	0.0124
Mercury	95498-05-08 14:09 G	36601116.04	36601116.09	36601116.16	0.0142	0.0126
Mercury	95498-08-04 18:00 G	36601204.16	36601204.25	36601204.33	0.0142	0.0104
Mercury	95498-10-31 21:21 G	36601292.28	36601292.39	36601292.50	0.0143	0.0083
Mercury	95499-01-28 00:43 G	36601380.41	36601380.53	36601380.65	0.0143	0.0061
Mercury	95499-04-26 04:19 G	36601468.55	36601468.68	36601468.80	0.0143	0.0040
Mercury	95499-07-23 07:41 G	36601556.69	36601556.82	36601556.95	0.0143	0.0018
Mercury	95499-10-19 11:17 G	36601644.83	36601644.97	36601645.10	0.0143	0.0005
Mercury	95500-01-15 14:38 G	36601732.98	36601733.11	36601733.24	0.0143	0.0025
Mercury	95500-04-13 18:14 G	36601821.13	36601821.26	36601821.38	0.0143	0.0047
Mercury	95500-07-10 21:36 G	36601909.29	36601909.40	36601909.52	0.0143	0.0069
Mercury	95500-10-07 00:57 G	36601997.45	36601997.54	36601997.65	0.0143	0.0091
Mercury	95501-01-03 04:33 G	36602085.62	36602085.69	36602085.78	0.0143	0.0113
Mercury	95501-04-01 07:55 G	36602173.80	36602173.83	36602173.89	0.0143	0.0135
Moon	95514-02-12 09:07 G	36606873.65	36606873.88	36606874.12	0.0143	0.0066
Earth	95514-02-12 10:48 G	36606873.74	36606873.95	36606874.19	0.0143	0.0074 *
Earth	95515-02-17 12:00 G	36607243.75	36607244.00	36607244.26	0.0143	0.0021
Moon	95515-02-17 13:26 G	36607243.81	36607244.06	36607244.31	0.0143	0.0013 *
Moon	95516-02-22 12:29 G	36607613.88	36607614.02	36607614.18	0.0142	0.0118
Earth	95516-02-22 12:29 G	36607613.88	36607614.02	36607614.19	0.0142	0.0114 *

Venus	95521-05-27 13:41 G	36609534.95	36609535.07	36609535.19	0.0141	0.0116
Venus	95522-01-08 23:45 G	36609761.34	36609761.49	36609761.67	0.0141	0.0091
Venus	95522-08-23 10:05 G	36609987.73	36609987.92	36609988.12	0.0141	0.0064
Venus	95523-04-06 19:41 G	36610214.12	36610214.32	36610214.54	0.0140	0.0038
Venus	95523-11-19 05:31 G	36610440.51	36610440.73	36610440.95	0.0140	0.0012
Venus	95524-07-02 14:53 G	36610666.90	36610667.12	36610667.34	0.0140	0.0014
Venus	95525-02-14 00:00 G	36610893.30	36610893.50	36610893.72	0.0140	0.0040
Venus	95525-09-28 09:07 G	36611119.69	36611119.88	36611120.07	0.0140	0.0065
Venus	95526-05-12 17:45 G	36611346.08	36611346.24	36611346.41	0.0139	0.0090
Venus	95526-12-25 02:24 G	36611572.49	36611572.60	36611572.73	0.0139	0.0115
Venus	95527-08-08 10:48 G	36611798.95	36611798.95	36611798.97	0.0139	0.0139
Mars	95534-11-22 04:33 G	36614461.54	36614461.69	36614461.88	0.0137	0.0111
Mercury	95539-08-31 12:57 G	36616204.98	36616205.04	36616205.12	0.0136	0.0126
Mercury	95539-11-27 20:24 G	36616293.23	36616293.35	36616293.50	0.0136	0.0099
Mercury	95540-02-24 04:04 G	36616381.51	36616381.67	36616381.85	0.0136	0.0071
Mercury	95540-05-22 11:45 G	36616469.81	36616469.99	36616470.18	0.0136	0.0043
Mercury	95540-08-18 19:26 G	36616558.11	36616558.31	36616558.50	0.0135	0.0016
Mercury	95540-11-15 02:52 G	36616646.42	36616646.62	36616646.81	0.0135	0.0012
Mercury	95541-02-11 10:19 G	36616734.74	36616734.93	36616735.12	0.0135	0.0039
Mercury	95541-05-10 17:45 G	36616823.07	36616823.24	36616823.41	0.0135	0.0067
Mercury	95541-08-07 00:43 G	36616911.41	36616911.53	36616911.69	0.0135	0.0095
Mercury	95541-11-03 08:09 G	36616999.77	36616999.84	36616999.94	0.0135	0.0121
Moon	95556-08-11 19:26 G	36622395.13	36622395.31	36622395.48	0.0135	0.0091
Earth	95556-08-11 18:57 G	36622395.13	36622395.29	36622395.49	0.0135	0.0093 *
Earth	95557-08-16 02:09 G	36622764.35	36622764.59	36622764.85	0.0135	0.0016
Moon	95557-08-16 03:07 G	36622764.37	36622764.63	36622764.89	0.0135	0.0022 *
Moon	95558-08-20 09:21 G	36623133.68	36623133.89	36623134.10	0.0135	0.0069
Earth	95558-08-20 09:36 G	36623133.68	36623133.90	36623134.13	0.0135	0.0062 *
Moon	95559-08-24 17:45 G	36623503.21	36623503.24	36623503.31	0.0136	0.0133
Venus	95564-10-06 17:45 G	36625373.14	36625373.24	36625373.36	0.0137	0.0116

Venus	95565-05-21 00:43 G	36625599.38	36625599.53	36625599.70	0.0137	0.0093
Venus	95566-01-02 07:55 G	36625825.65	36625825.83	36625826.02	0.0137	0.0070
Venus	95566-08-16 15:21 G	36626051.94	36626052.14	36626052.35	0.0138	0.0046
Venus	95567-03-30 22:48 G	36626278.24	36626278.45	36626278.67	0.0138	0.0022
Venus	95567-11-12 06:28 G	36626504.56	36626504.77	36626504.99	0.0138	0.0003
Venus	95568-06-25 14:24 G	36626730.89	36626731.10	36626731.32	0.0138	0.0028
Venus	95569-02-06 22:19 G	36626957.24	36626957.43	36626957.64	0.0138	0.0053
Venus	95569-09-21 06:28 G	36627183.60	36627183.77	36627183.96	0.0138	0.0077
Venus	95570-05-05 14:52 G	36627409.98	36627410.12	36627410.28	0.0139	0.0102
Venus	95570-12-17 23:16 G	36627636.40	36627636.47	36627636.58	0.0139	0.0127
Mars	95577-01-29 12:57 G	36629870.77	36629871.04	36629871.33	0.0141	0.0073
Mercury	95582-03-02 18:00 G	36631729.25	36631729.25	36631729.28	0.0142	0.0142
Mercury	95582-05-29 21:36 G	36631817.34	36631817.40	36631817.47	0.0142	0.0120
Mercury	95582-08-26 01:12 G	36631905.46	36631905.55	36631905.64	0.0142	0.0099
Mercury	95582-11-22 04:33 G	36631993.58	36631993.69	36631993.80	0.0143	0.0077
Mercury	95583-02-18 08:09 G	36632081.72	36632081.84	36632081.96	0.0143	0.0056
Mercury	95583-05-17 11:31 G	36632169.85	36632169.98	36632170.11	0.0143	0.0034
Mercury	95583-08-13 14:52 G	36632257.99	36632258.12	36632258.26	0.0143	0.0014
Mercury	95583-11-09 18:28 G	36632346.14	36632346.27	36632346.40	0.0143	0.0009
Mercury	95584-02-05 21:50 G	36632434.29	36632434.41	36632434.54	0.0143	0.0031
Mercury	95584-05-04 01:26 G	36632522.44	36632522.56	36632522.68	0.0143	0.0052
Mercury	95584-07-31 05:02 G	36632610.59	36632610.71	36632610.82	0.0143	0.0074
Mercury	95584-10-27 08:24 G	36632698.76	36632698.85	36632698.95	0.0143	0.0096
Mercury	95585-01-23 12:00 G	36632786.93	36632787.00	36632787.07	0.0143	0.0118
Mercury	95585-04-21 15:21 G	36632875.13	36632875.14	36632875.17	0.0143	0.0140
Moon	95598-02-12 17:31 G	36637555.01	36637555.23	36637555.46	0.0143	0.0075
Earth	95598-02-12 20:09 G	36637555.12	36637555.34	36637555.57	0.0143	0.0069 *
Earth	95599-02-17 21:07 G	36637925.13	36637925.38	36637925.63	0.0143	0.0025
Moon	95599-02-17 22:48 G	36637925.21	36637925.45	36637925.70	0.0143	0.0033 *
Moon	95600-02-22 19:40 G	36638295.18	36638295.32	36638295.51	0.0142	0.0113

Earth	95600-02-22 21:36 G	36638295.27	36638295.40	36638295.55	0.0142	0.0119	*
Venus	95605-01-24 19:55 G	36640093.26	36640093.33	36640093.44	0.0141	0.0128	
Venus	95605-09-08 06:14 G	36640319.63	36640319.76	36640319.93	0.0141	0.0102	
Venus	95606-04-22 16:33 G	36640546.01	36640546.19	36640546.38	0.0141	0.0076	
Venus	95606-12-05 02:24 G	36640772.41	36640772.60	36640772.82	0.0141	0.0050	
Venus	95607-07-19 12:14 G	36640998.80	36640999.01	36640999.23	0.0140	0.0024	
Venus	95608-03-01 21:50 G	36641225.19	36641225.41	36641225.63	0.0140	0.0003	
Venus	95608-10-14 07:12 G	36641451.59	36641451.80	36641452.01	0.0140	0.0028	
Venus	95609-05-28 16:04 G	36641677.98	36641678.17	36641678.38	0.0140	0.0054	
Venus	95610-01-10 00:57 G	36641904.37	36641904.54	36641904.73	0.0140	0.0079	
Venus	95610-08-24 09:36 G	36642130.77	36642130.90	36642131.06	0.0139	0.0104	
Venus	95611-04-07 18:00 G	36642357.19	36642357.25	36642357.35	0.0139	0.0128	
Mars	95617-08-16 11:02 G	36644679.69	36644679.96	36644680.24	0.0137	0.0044	
Mercury	95623-09-20 19:40 G	36646906.23	36646906.32	36646906.40	0.0136	0.0121	
Mercury	95623-12-18 02:52 G	36646994.49	36646994.62	36646994.78	0.0136	0.0094	
Mercury	95624-03-15 10:48 G	36647082.78	36647082.95	36647083.12	0.0136	0.0066	
Mercury	95624-06-11 18:14 G	36647171.08	36647171.26	36647171.45	0.0135	0.0038	
Mercury	95624-09-08 01:55 G	36647259.38	36647259.58	36647259.77	0.0135	0.0011	
Mercury	95624-12-05 09:21 G	36647347.70	36647347.89	36647348.08	0.0135	0.0017	
Mercury	95625-03-03 16:48 G	36647436.02	36647436.20	36647436.38	0.0135	0.0044	
Mercury	95625-05-31 00:14 G	36647524.35	36647524.51	36647524.68	0.0135	0.0072	
Mercury	95625-08-27 07:40 G	36647612.69	36647612.82	36647612.95	0.0135	0.0099	
Mercury	95625-11-23 15:07 G	36647701.06	36647701.13	36647701.20	0.0135	0.0126	
Earth	95640-08-12 03:50 G	36653076.49	36653076.66	36653076.87	0.0135	0.0090	
Moon	95640-08-12 04:33 G	36653076.51	36653076.69	36653076.87	0.0135	0.0092	*
Moon	95641-08-16 10:48 G	36653445.70	36653445.95	36653446.21	0.0135	0.0008	
Earth	95641-08-16 11:31 G	36653445.73	36653445.98	36653446.23	0.0135	0.0012	*
Moon	95642-08-20 19:12 G	36653815.08	36653815.30	36653815.52	0.0136	0.0060	
Earth	95642-08-20 18:43 G	36653815.08	36653815.28	36653815.51	0.0136	0.0067	*
Venus	95648-06-06 02:24 G	36655931.53	36655931.60	36655931.69	0.0137	0.0126	

Venus	95649-01-18 09:07 G	36656157.76	36656157.88	36656158.04	0.0137	0.0104
Venus	95649-09-01 16:33 G	36656384.02	36656384.19	36656384.37	0.0137	0.0080
Venus	95650-04-15 23:45 G	36656610.29	36656610.49	36656610.69	0.0137	0.0056
Venus	95650-11-28 07:12 G	36656836.59	36656836.80	36656837.01	0.0138	0.0032
Venus	95651-07-12 14:52 G	36657062.90	36657063.12	36657063.34	0.0138	0.0008
Venus	95652-02-23 22:33 G	36657289.23	36657289.44	36657289.66	0.0138	0.0017
Venus	95652-10-07 06:28 G	36657515.57	36657515.77	36657515.98	0.0138	0.0041
Venus	95653-05-21 14:24 G	36657741.92	36657742.10	36657742.30	0.0138	0.0067
Venus	95654-01-02 23:02 G	36657968.30	36657968.46	36657968.62	0.0139	0.0091
Venus	95654-08-17 07:26 G	36658194.71	36658194.81	36658194.94	0.0139	0.0116
Mars	95661-09-25 12:43 G	36660790.75	36660791.03	36660791.35	0.0141	0.0057
Mercury	95666-03-23 01:40 G	36662430.54	36662430.57	36662430.61	0.0142	0.0135
Mercury	95666-06-19 05:02 G	36662518.64	36662518.71	36662518.79	0.0142	0.0114
Mercury	95666-09-15 08:38 G	36662606.76	36662606.86	36662606.96	0.0143	0.0093
Mercury	95666-12-12 12:00 G	36662694.89	36662695.00	36662695.12	0.0143	0.0071
Mercury	95667-03-10 15:36 G	36662783.03	36662783.15	36662783.27	0.0143	0.0050
Mercury	95667-06-06 18:57 G	36662871.16	36662871.29	36662871.42	0.0143	0.0028
Mercury	95667-09-02 22:33 G	36662959.31	36662959.44	36662959.57	0.0143	0.0007
Mercury	95667-11-30 01:55 G	36663047.45	36663047.58	36663047.71	0.0143	0.0016
Mercury	95668-02-26 05:31 G	36663135.60	36663135.73	36663135.86	0.0143	0.0037
Mercury	95668-05-24 08:52 G	36663223.76	36663223.87	36663223.99	0.0143	0.0059
Mercury	95668-08-20 12:28 G	36663311.91	36663312.02	36663312.13	0.0143	0.0081
Mercury	95668-11-16 15:50 G	36663400.08	36663400.16	36663400.26	0.0143	0.0103
Mercury	95669-02-12 19:26 G	36663488.25	36663488.31	36663488.38	0.0143	0.0125
Moon	95682-02-13 05:16 G	36668236.48	36668236.72	36668236.96	0.0143	0.0055
Earth	95682-02-13 08:09 G	36668236.62	36668236.84	36668237.08	0.0143	0.0062 *
Earth	95683-02-18 09:07 G	36668606.64	36668606.88	36668607.14	0.0143	0.0033
Moon	95683-02-18 12:00 G	36668606.75	36668607.00	36668607.25	0.0143	0.0025 *
Moon	95684-02-23 08:09 G	36668976.76	36668976.84	36668976.95	0.0142	0.0132
Earth	95684-02-23 10:04 G	36668976.81	36668976.92	36668977.04	0.0142	0.0126 *

Venus	95688-09-24 04:04 G	36670651.64	36670651.67	36670651.72	0.0141	0.0139
Venus	95689-05-08 14:38 G	36670877.99	36670878.11	36670878.25	0.0141	0.0112
Venus	95689-12-21 00:57 G	36671104.37	36671104.54	36671104.72	0.0141	0.0086
Venus	95690-08-04 10:48 G	36671330.76	36671330.95	36671331.16	0.0141	0.0061
Venus	95691-03-18 20:38 G	36671557.15	36671557.36	36671557.58	0.0140	0.0034
Venus	95691-10-31 06:14 G	36671783.54	36671783.76	36671783.98	0.0140	0.0008
Venus	95692-06-13 15:36 G	36672009.94	36672010.15	36672010.37	0.0140	0.0017
Venus	95693-01-26 00:57 G	36672236.33	36672236.54	36672236.75	0.0140	0.0043
Venus	95693-09-09 09:50 G	36672462.73	36672462.91	36672463.11	0.0140	0.0068
Venus	95694-04-23 18:43 G	36672689.12	36672689.28	36672689.44	0.0139	0.0093
Venus	95694-12-06 03:07 G	36672915.52	36672915.63	36672915.75	0.0139	0.0117
Mars	95702-04-12 00:28 G	36675598.27	36675598.52	36675598.79	0.0137	0.0060
Mercury	95707-10-12 02:24 G	36677607.51	36677607.60	36677607.72	0.0136	0.0115
Mercury	95708-01-08 10:04 G	36677695.78	36677695.92	36677696.08	0.0135	0.0087
Mercury	95708-04-05 17:45 G	36677784.07	36677784.24	36677784.42	0.0135	0.0059
Mercury	95708-07-03 01:12 G	36677872.37	36677872.55	36677872.75	0.0135	0.0032
Mercury	95708-09-29 08:52 G	36677960.68	36677960.87	36677961.07	0.0135	0.0004
Mercury	95708-12-26 16:19 G	36678048.99	36678049.18	36678049.38	0.0135	0.0024
Mercury	95709-03-24 23:45 G	36678137.32	36678137.49	36678137.68	0.0135	0.0051
Mercury	95709-06-21 07:12 G	36678225.65	36678225.80	36678225.96	0.0135	0.0079
Mercury	95709-09-17 14:52 G	36678314.00	36678314.12	36678314.24	0.0135	0.0106
Mercury	95709-12-14 22:19 G	36678402.39	36678402.43	36678402.46	0.0135	0.0133
Earth	95724-08-13 14:24 G	36683757.92	36683758.10	36683758.31	0.0135	0.0085
Moon	95724-08-13 15:50 G	36683757.99	36683758.16	36683758.37	0.0135	0.0085 *
Moon	95725-08-17 21:07 G	36684127.13	36684127.38	36684127.64	0.0135	0.0011
Earth	95725-08-17 22:04 G	36684127.17	36684127.42	36684127.67	0.0135	0.0007 *
Earth	95726-08-22 05:16 G	36684496.52	36684496.72	36684496.95	0.0136	0.0072
Moon	95726-08-22 06:43 G	36684496.58	36684496.78	36684496.98	0.0136	0.0078 *
Venus	95732-02-05 11:45 G	36686489.97	36686489.99	36686490.02	0.0137	0.0135
Venus	95732-09-18 18:14 G	36686716.15	36686716.26	36686716.40	0.0137	0.0113

Venus	95733-05-03 01:26 G	36686942.40	36686942.56	36686942.73	0.0137	0.0089
Venus	95733-12-15 08:24 G	36687168.67	36687168.85	36687169.05	0.0137	0.0066
Venus	95734-07-29 16:04 G	36687394.96	36687395.17	36687395.38	0.0138	0.0042
Venus	95735-03-12 23:31 G	36687621.27	36687621.48	36687621.70	0.0138	0.0018
Venus	95735-10-25 07:12 G	36687847.58	36687847.80	36687848.02	0.0138	0.0006
Venus	95736-06-07 14:52 G	36688073.92	36688074.12	36688074.34	0.0138	0.0032
Venus	95737-01-19 23:02 G	36688300.27	36688300.46	36688300.67	0.0138	0.0056
Venus	95737-09-03 07:12 G	36688526.64	36688526.80	36688526.99	0.0139	0.0081
Venus	95738-04-17 15:50 G	36688753.03	36688753.16	36688753.31	0.0139	0.0105
Venus	95738-11-30 00:14 G	36688979.46	36688979.51	36688979.61	0.0139	0.0130
Mars	95744-06-17 09:50 G	36691005.85	36691005.91	36691006.01	0.0141	0.0136
Mercury	95750-04-13 08:52 G	36693131.83	36693131.87	36693131.94	0.0142	0.0130
Mercury	95750-07-10 12:28 G	36693219.94	36693220.02	36693220.11	0.0142	0.0108
Mercury	95750-10-06 16:04 G	36693308.07	36693308.17	36693308.28	0.0143	0.0086
Mercury	95751-01-02 19:26 G	36693396.20	36693396.31	36693396.43	0.0143	0.0065
Mercury	95751-03-31 23:02 G	36693484.34	36693484.46	36693484.59	0.0143	0.0043
Mercury	95751-06-28 02:38 G	36693572.48	36693572.61	36693572.74	0.0143	0.0022
Mercury	95751-09-24 06:00 G	36693660.62	36693660.75	36693660.88	0.0143	0.0002
Mercury	95751-12-21 09:36 G	36693748.77	36693748.90	36693749.03	0.0143	0.0022
Mercury	95752-03-18 12:57 G	36693836.92	36693837.04	36693837.17	0.0143	0.0044
Mercury	95752-06-14 16:33 G	36693925.07	36693925.19	36693925.31	0.0143	0.0066
Mercury	95752-09-10 19:55 G	36694013.23	36694013.33	36694013.44	0.0143	0.0088
Mercury	95752-12-07 23:31 G	36694101.40	36694101.48	36694101.57	0.0143	0.0110
Mercury	95753-03-06 02:52 G	36694189.58	36694189.62	36694189.68	0.0143	0.0132
Moon	95766-02-14 17:31 G	36698918.01	36698918.23	36698918.48	0.0143	0.0060
Earth	95766-02-14 20:52 G	36698918.15	36698918.37	36698918.63	0.0143	0.0055 *
Earth	95767-02-19 22:04 G	36699288.19	36699288.42	36699288.68	0.0143	0.0041
Moon	95767-02-20 00:57 G	36699288.31	36699288.54	36699288.79	0.0143	0.0049 *
Moon	95768-02-24 20:09 G	36699658.23	36699658.34	36699658.47	0.0142	0.0127
Earth	95768-02-24 22:48 G	36699658.39	36699658.45	36699658.55	0.0142	0.0135 *

Venus	95773-01-06 23:31 G	36701436.39	36701436.48	36701436.60	0.0141	0.0123
Venus	95773-08-21 10:04 G	36701662.76	36701662.92	36701663.08	0.0141	0.0096
Venus	95774-04-04 19:40 G	36701889.15	36701889.32	36701889.52	0.0141	0.0071
Venus	95774-11-17 05:45 G	36702115.54	36702115.74	36702115.95	0.0141	0.0045
Venus	95775-07-01 15:36 G	36702341.93	36702342.15	36702342.36	0.0140	0.0019
Venus	95776-02-13 01:12 G	36702568.33	36702568.55	36702568.76	0.0140	0.0008
Venus	95776-09-26 10:19 G	36702794.72	36702794.93	36702795.14	0.0140	0.0033
Venus	95777-05-10 19:26 G	36703021.11	36703021.31	36703021.51	0.0140	0.0058
Venus	95777-12-23 04:19 G	36703247.51	36703247.68	36703247.86	0.0140	0.0083
Venus	95778-08-06 12:57 G	36703473.91	36703474.04	36703474.18	0.0139	0.0107
Venus	95779-03-20 21:36 G	36703700.33	36703700.40	36703700.47	0.0139	0.0132
Mars	95785-01-04 09:36 G	36705816.69	36705816.90	36705817.13	0.0137	0.0091
Mercury	95791-08-05 02:24 G	36708220.58	36708220.60	36708220.63	0.0135	0.0134
Mercury	95791-11-01 09:50 G	36708308.80	36708308.91	36708309.04	0.0135	0.0106
Mercury	95792-01-28 17:31 G	36708397.08	36708397.23	36708397.40	0.0135	0.0078
Mercury	95792-04-26 01:12 G	36708485.37	36708485.55	36708485.73	0.0135	0.0051
Mercury	95792-07-23 08:38 G	36708573.67	36708573.86	36708574.06	0.0135	0.0024
Mercury	95792-10-19 16:19 G	36708661.99	36708662.18	36708662.38	0.0135	0.0004
Mercury	95793-01-15 23:45 G	36708750.30	36708750.49	36708750.68	0.0135	0.0032
Mercury	95793-04-14 07:12 G	36708838.63	36708838.80	36708838.98	0.0135	0.0059
Mercury	95793-07-11 14:38 G	36708926.96	36708927.11	36708927.26	0.0135	0.0086
Mercury	95793-10-07 22:04 G	36709015.32	36709015.42	36709015.53	0.0135	0.0113
Earth	95808-08-15 00:00 G	36714439.32	36714439.50	36714439.72	0.0135	0.0080
Moon	95808-08-15 01:40 G	36714439.39	36714439.57	36714439.78	0.0135	0.0081 *
Moon	95809-08-19 05:31 G	36714808.48	36714808.73	36714808.99	0.0135	0.0002
Earth	95809-08-19 07:40 G	36714808.57	36714808.82	36714809.07	0.0135	0.0002 *
Earth	95810-08-23 15:07 G	36715177.92	36715178.13	36715178.34	0.0135	0.0076
Moon	95810-08-23 16:33 G	36715177.99	36715178.19	36715178.40	0.0135	0.0071 *
Venus	95816-05-20 02:38 G	36717274.52	36717274.61	36717274.71	0.0137	0.0122
Venus	95817-01-01 09:36 G	36717500.75	36717500.90	36717501.05	0.0137	0.0100

Venus	95817-08-15 16:33 G	36717727.02	36717727.19	36717727.38	0.0137	0.0076
Venus	95818-03-29 23:45 G	36717953.29	36717953.49	36717953.69	0.0138	0.0053
Venus	95818-11-11 07:12 G	36718179.59	36718179.80	36718180.01	0.0138	0.0029
Venus	95819-06-25 14:52 G	36718405.90	36718406.12	36718406.34	0.0138	0.0005
Venus	95820-02-06 22:33 G	36718632.23	36718632.44	36718632.66	0.0138	0.0020
Venus	95820-09-20 06:28 G	36718858.57	36718858.77	36718858.98	0.0138	0.0045
Venus	95821-05-04 14:38 G	36719084.93	36719085.11	36719085.31	0.0138	0.0069
Venus	95821-12-16 22:48 G	36719311.31	36719311.45	36719311.63	0.0139	0.0094
Venus	95822-07-31 07:40 G	36719537.72	36719537.82	36719537.95	0.0139	0.0118
Mars	95829-02-12 04:04 G	36721925.35	36721925.67	36721926.00	0.0141	0.0012
Mercury	95834-05-04 16:04 G	36723833.12	36723833.17	36723833.25	0.0143	0.0125
Mercury	95834-07-31 19:40 G	36723921.24	36723921.32	36723921.42	0.0143	0.0103
Mercury	95834-10-27 23:16 G	36724009.36	36724009.47	36724009.58	0.0143	0.0081
Mercury	95835-01-24 02:38 G	36724097.50	36724097.61	36724097.74	0.0143	0.0060
Mercury	95835-04-22 06:14 G	36724185.63	36724185.76	36724185.89	0.0143	0.0038
Mercury	95835-07-19 09:50 G	36724273.78	36724273.91	36724274.04	0.0143	0.0017
Mercury	95835-10-15 13:12 G	36724361.92	36724362.05	36724362.18	0.0143	0.0006
Mercury	95836-01-11 16:48 G	36724450.07	36724450.20	36724450.33	0.0143	0.0027
Mercury	95836-04-08 20:09 G	36724538.22	36724538.34	36724538.47	0.0143	0.0049
Mercury	95836-07-05 23:45 G	36724626.38	36724626.49	36724626.61	0.0143	0.0071
Mercury	95836-10-02 03:21 G	36724714.54	36724714.64	36724714.74	0.0143	0.0093
Mercury	95836-12-29 06:43 G	36724802.71	36724802.78	36724802.86	0.0143	0.0115
Mercury	95837-03-27 10:19 G	36724890.90	36724890.93	36724890.97	0.0143	0.0137
Earth	95849-02-11 07:12 G	36729229.80	36729229.80	36729229.83	0.0143	0.0143
Moon	95850-02-16 05:16 G	36729599.48	36729599.72	36729599.98	0.0143	0.0042
Earth	95850-02-16 09:07 G	36729599.64	36729599.88	36729600.13	0.0143	0.0048 *
Earth	95851-02-21 10:19 G	36729969.70	36729969.93	36729970.18	0.0143	0.0048
Moon	95851-02-21 13:40 G	36729969.84	36729970.07	36729970.32	0.0143	0.0041 *
Earth	95852-02-26 11:16 G	36730339.96	36730339.97	36730340.01	0.0142	0.0142
Venus	95856-09-07 08:09 G	36731994.78	36731994.84	36731994.93	0.0141	0.0132

Venus	95857-04-21 18:43 G	36732221.14	36732221.28	36732221.43	0.0141	0.0106
Venus	95857-12-04 05:02 G	36732447.53	36732447.71	36732447.89	0.0141	0.0080
Venus	95858-07-18 14:52 G	36732673.92	36732674.12	36732674.33	0.0141	0.0055
Venus	95859-03-02 00:43 G	36732900.32	36732900.53	36732900.75	0.0141	0.0029
Venus	95859-10-14 10:19 G	36733126.72	36733126.93	36733127.15	0.0140	0.0004
Venus	95860-05-27 19:40 G	36733353.11	36733353.32	36733353.54	0.0140	0.0023
Venus	95861-01-09 05:02 G	36733579.51	36733579.71	36733579.92	0.0140	0.0048
Venus	95861-08-23 14:09 G	36733805.91	36733806.09	36733806.28	0.0140	0.0073
Venus	95862-04-06 22:48 G	36734032.30	36734032.45	36734032.61	0.0139	0.0098
Venus	95862-11-19 07:12 G	36734258.71	36734258.80	36734258.92	0.0139	0.0122
Mars	95869-08-31 02:09 G	36736735.31	36736735.59	36736735.88	0.0137	0.0016
Mercury	95875-08-26 10:04 G	36738921.85	36738921.92	36738922.00	0.0135	0.0124
Mercury	95875-11-22 17:45 G	36739010.11	36739010.24	36739010.38	0.0135	0.0097
Mercury	95876-02-19 01:12 G	36739098.39	36739098.55	36739098.73	0.0135	0.0069
Mercury	95876-05-17 08:52 G	36739186.69	36739186.87	36739187.06	0.0135	0.0041
Mercury	95876-08-13 16:33 G	36739274.99	36739275.19	36739275.38	0.0135	0.0014
Mercury	95876-11-10 00:00 G	36739363.31	36739363.50	36739363.70	0.0135	0.0014
Mercury	95877-02-06 07:26 G	36739451.63	36739451.81	36739452.00	0.0135	0.0041
Mercury	95877-05-05 14:52 G	36739539.96	36739540.12	36739540.29	0.0135	0.0068
Mercury	95877-08-01 22:19 G	36739628.30	36739628.43	36739628.57	0.0135	0.0095
Mercury	95877-10-29 05:45 G	36739716.66	36739716.74	36739716.82	0.0135	0.0122
Earth	95892-08-15 10:48 G	36745120.75	36745120.95	36745121.17	0.0135	0.0075
Moon	95892-08-15 13:40 G	36745120.87	36745121.07	36745121.27	0.0135	0.0076 *
Moon	95893-08-19 16:04 G	36745489.91	36745490.17	36745490.43	0.0135	0.0001
Earth	95893-08-19 18:14 G	36745490.01	36745490.26	36745490.51	0.0135	0.0003 *
Earth	95894-08-24 01:12 G	36745859.36	36745859.55	36745859.76	0.0135	0.0081
Moon	95894-08-24 03:21 G	36745859.47	36745859.64	36745859.84	0.0135	0.0087 *
Venus	95900-01-18 11:16 G	36747832.93	36747832.97	36747833.04	0.0137	0.0132
Venus	95900-09-01 18:00 G	36748059.13	36748059.25	36748059.39	0.0137	0.0109
Venus	95901-04-16 00:43 G	36748285.38	36748285.53	36748285.71	0.0137	0.0087

Venus	95901-11-28 08:09 G	36748511.65	36748511.84	36748512.03	0.0137	0.0063
Venus	95902-07-12 15:36 G	36748737.94	36748738.15	36748738.36	0.0138	0.0039
Venus	95903-02-23 23:02 G	36748964.24	36748964.46	36748964.68	0.0138	0.0015
Venus	95903-10-08 06:43 G	36749190.56	36749190.78	36749190.99	0.0138	0.0009
Venus	95904-05-21 14:24 G	36749416.89	36749417.10	36749417.31	0.0138	0.0033
Venus	95905-01-02 22:33 G	36749643.24	36749643.44	36749643.64	0.0138	0.0058
Venus	95905-08-17 06:43 G	36749869.62	36749869.78	36749869.96	0.0138	0.0082
Venus	95906-03-31 15:07 G	36750096.00	36750096.13	36750096.28	0.0139	0.0107
Venus	95906-11-12 23:45 G	36750322.43	36750322.49	36750322.57	0.0139	0.0131
Mars	95913-10-09 21:36 G	36752845.23	36752845.40	36752845.61	0.0141	0.0114
Mercury	95918-02-26 19:55 G	36754446.32	36754446.33	36754446.34	0.0142	0.0142
Mercury	95918-05-25 23:16 G	36754534.41	36754534.47	36754534.54	0.0143	0.0120
Mercury	95918-08-22 02:52 G	36754622.53	36754622.62	36754622.71	0.0143	0.0099
Mercury	95918-11-18 06:14 G	36754710.65	36754710.76	36754710.87	0.0143	0.0077
Mercury	95919-02-14 09:50 G	36754798.79	36754798.91	36754799.03	0.0143	0.0056
Mercury	95919-05-13 13:12 G	36754886.93	36754887.05	36754887.18	0.0143	0.0034
Mercury	95919-08-09 16:48 G	36754975.07	36754975.20	36754975.33	0.0143	0.0012
Mercury	95919-11-05 20:09 G	36755063.21	36755063.34	36755063.48	0.0143	0.0010
Mercury	95920-02-01 23:45 G	36755151.36	36755151.49	36755151.62	0.0143	0.0031
Mercury	95920-04-30 03:21 G	36755239.52	36755239.64	36755239.76	0.0143	0.0053
Mercury	95920-07-27 06:43 G	36755327.67	36755327.78	36755327.90	0.0143	0.0075
Mercury	95920-10-23 10:19 G	36755415.84	36755415.93	36755416.03	0.0143	0.0097
Mercury	95921-01-19 13:40 G	36755504.01	36755504.07	36755504.15	0.0143	0.0119
Mercury	95921-04-17 17:16 G	36755592.21	36755592.22	36755592.25	0.0143	0.0141
Earth	95933-02-12 16:04 G	36759911.13	36759911.17	36759911.24	0.0143	0.0139
Moon	95933-02-12 19:55 G	36759911.28	36759911.33	36759911.41	0.0143	0.0139
Moon	95934-02-17 14:52 G	36760280.88	36760281.12	36760281.36	0.0143	0.0047
Earth	95934-02-17 18:28 G	36760281.02	36760281.27	36760281.51	0.0143	0.0043 *
Earth	95935-02-22 19:40 G	36760651.09	36760651.32	36760651.57	0.0143	0.0052
Moon	95935-02-22 23:16 G	36760651.24	36760651.47	36760651.70	0.0143	0.0060 *

Moon	95936-02-27 16:48 G	36761021.16	36761021.20	36761021.28	0.0143	0.0139
Venus	95940-12-21 01:26 G	36762779.46	36762779.56	36762779.70	0.0141	0.0118
Venus	95941-08-04 12:00 G	36763005.84	36763006.00	36763006.18	0.0141	0.0091
Venus	95942-03-18 22:19 G	36763232.24	36763232.43	36763232.63	0.0141	0.0065
Venus	95942-10-31 08:09 G	36763458.64	36763458.84	36763459.06	0.0141	0.0039
Venus	95943-06-14 18:00 G	36763685.04	36763685.25	36763685.47	0.0140	0.0014
Venus	95944-01-27 03:50 G	36763911.44	36763911.66	36763911.88	0.0140	0.0012
Venus	95944-09-09 13:12 G	36764137.84	36764138.05	36764138.26	0.0140	0.0038
Venus	95945-04-23 22:19 G	36764364.24	36764364.43	36764364.63	0.0140	0.0063
Venus	95945-12-06 07:12 G	36764590.64	36764590.80	36764590.98	0.0140	0.0088
Venus	95946-07-20 16:19 G	36764817.05	36764817.18	36764817.31	0.0139	0.0112
Venus	95947-03-04 00:43 G	36765043.50	36765043.53	36765043.59	0.0139	0.0136
Mars	95954-04-26 15:36 G	36767654.03	36767654.15	36767654.31	0.0137	0.0119
Mercury	95959-09-16 17:45 G	36769623.14	36769623.24	36769623.34	0.0135	0.0116
Mercury	95959-12-14 01:12 G	36769711.41	36769711.55	36769711.70	0.0135	0.0088
Mercury	95960-03-11 08:52 G	36769799.70	36769799.87	36769800.05	0.0135	0.0060
Mercury	95960-06-07 16:19 G	36769888.00	36769888.18	36769888.38	0.0135	0.0033
Mercury	95960-09-04 00:00 G	36769976.31	36769976.50	36769976.70	0.0135	0.0005
Mercury	95960-12-01 07:26 G	36770064.62	36770064.81	36770065.01	0.0135	0.0022
Mercury	95961-02-27 14:52 G	36770152.94	36770153.12	36770153.31	0.0135	0.0049
Mercury	95961-05-26 22:04 G	36770241.28	36770241.42	36770241.60	0.0135	0.0077
Mercury	95961-08-23 05:31 G	36770329.62	36770329.73	36770329.87	0.0135	0.0104
Mercury	95961-11-19 12:57 G	36770418.01	36770418.04	36770418.10	0.0135	0.0131
Earth	95976-08-16 20:52 G	36775802.17	36775802.37	36775802.60	0.0135	0.0071
Moon	95976-08-16 23:45 G	36775802.28	36775802.49	36775802.70	0.0135	0.0070 *
Moon	95977-08-21 00:57 G	36776171.29	36776171.54	36776171.80	0.0135	0.0009
Earth	95977-08-21 04:04 G	36776171.42	36776171.67	36776171.92	0.0135	0.0007 *
Earth	95978-08-25 10:48 G	36776540.77	36776540.95	36776541.16	0.0135	0.0086
Moon	95978-08-25 13:12 G	36776540.88	36776541.05	36776541.27	0.0135	0.0082 *
Venus	95984-05-02 02:09 G	36778617.50	36778617.59	36778617.71	0.0137	0.0119

Venus	95984-12-14 08:52 G	36778843.73	36778843.87	36778844.04	0.0137	0.0096
Venus	95985-07-28 16:19 G	36779070.00	36779070.18	36779070.36	0.0137	0.0073
Venus	95986-03-11 23:16 G	36779296.27	36779296.47	36779296.68	0.0137	0.0049
Venus	95986-10-24 06:43 G	36779522.57	36779522.78	36779522.99	0.0137	0.0026
Venus	95987-06-07 14:09 G	36779748.88	36779749.09	36779749.31	0.0138	0.0003
Venus	95988-01-19 21:50 G	36779975.20	36779975.41	36779975.63	0.0138	0.0023
Venus	95988-09-02 05:45 G	36780201.54	36780201.74	36780201.95	0.0138	0.0047
Venus	95989-04-16 13:40 G	36780427.90	36780428.07	36780428.27	0.0138	0.0072
Venus	95989-11-28 22:04 G	36780654.27	36780654.42	36780654.59	0.0138	0.0095
Venus	95990-07-13 06:28 G	36780880.68	36780880.77	36780880.90	0.0139	0.0120
Mars	95996-06-30 12:57 G	36783059.78	36783060.04	36783060.29	0.0141	0.0085

97TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 97th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	96002-03-19 02:38 G	36785147.59	36785147.61	36785147.64	0.0142	0.0139		
Mercury	96002-06-15 06:00 G	36785235.69	36785235.75	36785235.83	0.0143	0.0118		
Mercury	96002-09-11 09:36 G	36785323.81	36785323.90	36785324.00	0.0143	0.0096		
Mercury	96002-12-08 12:57 G	36785411.94	36785412.04	36785412.16	0.0143	0.0075		
Mercury	96003-03-06 16:33 G	36785500.07	36785500.19	36785500.32	0.0143	0.0053		
Mercury	96003-06-02 20:09 G	36785588.21	36785588.34	36785588.47	0.0143	0.0031		
Mercury	96003-08-29 23:31 G	36785676.35	36785676.48	36785676.61	0.0143	0.0010		
Mercury	96003-11-26 03:07 G	36785764.50	36785764.63	36785764.76	0.0143	0.0012		

Mercury	96004-02-22 06:28 G	36785852.65	36785852.77	36785852.90	0.0143	0.0035
Mercury	96004-05-20 10:04 G	36785940.80	36785940.92	36785941.04	0.0143	0.0056
Mercury	96004-08-16 13:26 G	36786028.96	36786029.06	36786029.18	0.0143	0.0078
Mercury	96004-11-12 17:02 G	36786117.12	36786117.21	36786117.31	0.0143	0.0100
Mercury	96005-02-08 20:38 G	36786205.30	36786205.36	36786205.43	0.0143	0.0122
Earth	96017-02-12 23:45 G	36790592.43	36790592.49	36790592.59	0.0143	0.0136
Moon	96017-02-13 03:36 G	36790592.57	36790592.65	36790592.73	0.0143	0.0136 *
Moon	96018-02-17 22:19 G	36790962.19	36790962.43	36790962.69	0.0143	0.0036
Earth	96018-02-18 02:09 G	36790962.35	36790962.59	36790962.84	0.0143	0.0040 *
Earth	96019-02-23 03:36 G	36791332.42	36791332.65	36791332.89	0.0143	0.0056
Moon	96019-02-23 07:12 G	36791332.57	36791332.80	36791333.05	0.0143	0.0049 *
Venus	96024-08-20 07:40 G	36793337.74	36793337.82	36793337.92	0.0141	0.0129
Venus	96025-04-03 18:14 G	36793564.12	36793564.26	36793564.42	0.0141	0.0103
Venus	96025-11-16 04:48 G	36793790.51	36793790.70	36793790.88	0.0141	0.0077
Venus	96026-06-30 14:38 G	36794016.92	36794017.11	36794017.33	0.0141	0.0051
Venus	96027-02-12 00:57 G	36794243.33	36794243.54	36794243.76	0.0141	0.0025
Venus	96027-09-26 10:48 G	36794469.73	36794469.95	36794470.17	0.0140	0.0001
Venus	96028-05-09 20:24 G	36794696.13	36794696.35	36794696.56	0.0140	0.0027
Venus	96028-12-22 05:45 G	36794922.54	36794922.74	36794922.94	0.0140	0.0052
Venus	96029-08-05 14:52 G	36795148.95	36795149.12	36795149.31	0.0140	0.0077
Venus	96030-03-19 23:45 G	36795375.35	36795375.49	36795375.65	0.0140	0.0102
Venus	96030-11-01 08:38 G	36795601.78	36795601.86	36795601.96	0.0139	0.0125
Mars	96037-01-18 21:50 G	36797872.13	36797872.41	36797872.70	0.0137	0.0035
Mercury	96043-10-07 00:43 G	36800324.43	36800324.53	36800324.66	0.0135	0.0109
Mercury	96044-01-03 08:24 G	36800412.71	36800412.85	36800413.02	0.0135	0.0081
Mercury	96044-03-31 16:19 G	36800501.00	36800501.18	36800501.36	0.0135	0.0053
Mercury	96044-06-27 23:45 G	36800589.30	36800589.49	36800589.68	0.0135	0.0025
Mercury	96044-09-24 07:26 G	36800677.61	36800677.81	36800678.00	0.0135	0.0003
Mercury	96044-12-21 14:52 G	36800765.93	36800766.12	36800766.31	0.0135	0.0030
Mercury	96045-03-19 22:19 G	36800854.26	36800854.43	36800854.61	0.0135	0.0057

Mercury	96045-06-16 05:45 G	36800942.59	36800942.74	36800942.89	0.0135	0.0085
Mercury	96045-09-12 12:57 G	36801030.95	36801031.04	36801031.16	0.0135	0.0112
Earth	96060-08-17 08:24 G	36806483.65	36806483.85	36806484.08	0.0135	0.0065
Moon	96060-08-17 11:45 G	36806483.79	36806483.99	36806484.22	0.0135	0.0067 *
Moon	96061-08-21 12:43 G	36806852.78	36806853.03	36806853.29	0.0135	0.0011
Earth	96061-08-21 15:36 G	36806852.90	36806853.15	36806853.40	0.0135	0.0013 *
Earth	96062-08-25 22:04 G	36807222.25	36807222.42	36807222.62	0.0135	0.0092
Moon	96062-08-26 01:12 G	36807222.39	36807222.55	36807222.74	0.0135	0.0097 *
Venus	96067-12-31 12:00 G	36809175.94	36809176.00	36809176.09	0.0137	0.0127
Venus	96068-08-13 18:57 G	36809402.16	36809402.29	36809402.43	0.0137	0.0104
Venus	96069-03-28 01:55 G	36809628.41	36809628.58	36809628.75	0.0137	0.0081
Venus	96069-11-09 08:38 G	36809854.67	36809854.86	36809855.07	0.0137	0.0059
Venus	96070-06-23 16:04 G	36810080.97	36810081.17	36810081.39	0.0137	0.0035
Venus	96071-02-04 23:31 G	36810307.27	36810307.48	36810307.70	0.0137	0.0012
Venus	96071-09-19 07:12 G	36810533.59	36810533.80	36810534.02	0.0138	0.0013
Venus	96072-05-02 14:52 G	36810759.92	36810760.12	36810760.33	0.0138	0.0037
Venus	96072-12-14 22:48 G	36810986.26	36810986.45	36810986.65	0.0138	0.0061
Venus	96073-07-29 06:57 G	36811212.63	36811212.79	36811212.97	0.0138	0.0086
Venus	96074-03-12 15:21 G	36811439.02	36811439.14	36811439.28	0.0139	0.0110
Venus	96074-10-24 23:45 G	36811665.45	36811665.49	36811665.56	0.0139	0.0134
Mars	96081-02-24 08:09 G	36813979.53	36813979.84	36813980.15	0.0141	0.0040
Mercury	96086-04-08 09:50 G	36815848.88	36815848.91	36815848.96	0.0142	0.0134
Mercury	96086-07-05 13:26 G	36815936.99	36815937.06	36815937.14	0.0143	0.0112
Mercury	96086-10-01 17:02 G	36816025.11	36816025.21	36816025.31	0.0143	0.0091
Mercury	96086-12-28 20:24 G	36816113.24	36816113.35	36816113.47	0.0143	0.0069
Mercury	96087-03-27 00:00 G	36816201.37	36816201.50	36816201.62	0.0143	0.0048
Mercury	96087-06-23 03:21 G	36816289.51	36816289.64	36816289.77	0.0143	0.0026
Mercury	96087-09-19 06:57 G	36816377.66	36816377.79	36816377.92	0.0143	0.0005
Mercury	96087-12-16 10:19 G	36816465.80	36816465.93	36816466.06	0.0143	0.0018
Mercury	96088-03-13 13:55 G	36816553.95	36816554.08	36816554.20	0.0143	0.0039

Mercury	96088-06-09 17:16 G	36816642.11	36816642.22	36816642.34	0.0143	0.0061
Mercury	96088-09-05 20:52 G	36816730.26	36816730.37	36816730.48	0.0143	0.0083
Mercury	96088-12-03 00:14 G	36816818.43	36816818.51	36816818.60	0.0143	0.0105
Mercury	96089-03-01 03:50 G	36816906.61	36816906.66	36816906.72	0.0143	0.0127
Earth	96101-02-14 08:24 G	36821273.77	36821273.85	36821273.97	0.0143	0.0132
Moon	96101-02-14 12:14 G	36821273.92	36821274.01	36821274.11	0.0143	0.0133 *
Moon	96102-02-19 07:26 G	36821643.57	36821643.81	36821644.06	0.0143	0.0039
Earth	96102-02-19 10:33 G	36821643.70	36821643.94	36821644.20	0.0143	0.0037 *
Earth	96103-02-24 12:00 G	36822013.78	36822014.00	36822014.25	0.0143	0.0060
Moon	96103-02-24 15:50 G	36822013.94	36822014.16	36822014.40	0.0143	0.0068 *
Venus	96108-04-20 13:40 G	36823896.05	36823896.07	36823896.11	0.0142	0.0140
Venus	96108-12-03 00:28 G	36824122.40	36824122.52	36824122.66	0.0141	0.0114
Venus	96109-07-17 10:48 G	36824348.79	36824348.95	36824349.14	0.0141	0.0088
Venus	96110-02-28 21:21 G	36824575.20	36824575.39	36824575.59	0.0141	0.0062
Venus	96110-10-13 07:26 G	36824801.61	36824801.81	36824802.03	0.0141	0.0036
Venus	96111-05-27 17:31 G	36825028.01	36825028.23	36825028.45	0.0141	0.0010
Venus	96112-01-09 03:21 G	36825254.43	36825254.64	36825254.86	0.0140	0.0016
Venus	96112-08-22 12:43 G	36825480.83	36825481.03	36825481.25	0.0140	0.0042
Venus	96113-04-05 22:04 G	36825707.24	36825707.42	36825707.62	0.0140	0.0066
Venus	96113-11-18 07:12 G	36825933.65	36825933.80	36825933.98	0.0140	0.0091
Venus	96114-07-02 16:19 G	36826160.06	36826160.18	36826160.31	0.0139	0.0115
Venus	96115-02-14 01:12 G	36826386.54	36826386.55	36826386.58	0.0139	0.0138
Mars	96121-09-14 11:02 G	36828790.70	36828790.96	36828791.21	0.0137	0.0067
Mercury	96127-08-01 00:28 G	36830937.47	36830937.52	36830937.59	0.0136	0.0129
Mercury	96127-10-28 08:09 G	36831025.72	36831025.84	36831025.97	0.0135	0.0101
Mercury	96128-01-24 15:36 G	36831114.00	36831114.15	36831114.33	0.0135	0.0074
Mercury	96128-04-21 23:16 G	36831202.29	36831202.47	36831202.66	0.0135	0.0046
Mercury	96128-07-19 06:57 G	36831290.60	36831290.79	36831290.98	0.0135	0.0018
Mercury	96128-10-15 14:24 G	36831378.91	36831379.10	36831379.30	0.0135	0.0010
Mercury	96129-01-11 21:50 G	36831467.23	36831467.41	36831467.61	0.0135	0.0037

Mercury	96129-04-10 05:31 G	36831555.56	36831555.73	36831555.90	0.0135	0.0064
Mercury	96129-07-07 12:57 G	36831643.90	36831644.04	36831644.18	0.0135	0.0092
Mercury	96129-10-03 19:55 G	36831732.26	36831732.33	36831732.44	0.0135	0.0120
Earth	96144-08-18 19:26 G	36837165.09	36837165.31	36837165.54	0.0135	0.0059
Moon	96144-08-18 22:33 G	36837165.22	36837165.44	36837165.67	0.0135	0.0058 *
Moon	96145-08-22 22:48 G	36837534.20	36837534.45	36837534.70	0.0135	0.0019
Earth	96145-08-23 02:09 G	36837534.35	36837534.59	36837534.85	0.0135	0.0019 *
Earth	96146-08-27 08:52 G	36837903.71	36837903.87	36837904.06	0.0135	0.0097
Moon	96146-08-27 12:00 G	36837903.84	36837904.00	36837904.19	0.0135	0.0093 *
Venus	96151-08-31 21:36 G	36839734.39	36839734.40	36839734.44	0.0136	0.0136
Venus	96152-04-14 04:33 G	36839960.57	36839960.69	36839960.81	0.0137	0.0113
Venus	96152-11-26 11:02 G	36840186.81	36840186.96	36840187.13	0.0137	0.0091
Venus	96153-07-10 18:00 G	36840413.08	36840413.25	36840413.45	0.0137	0.0068
Venus	96154-02-22 01:26 G	36840639.36	36840639.56	36840639.77	0.0137	0.0044
Venus	96154-10-06 08:38 G	36840865.65	36840865.86	36840866.08	0.0137	0.0021
Venus	96155-05-20 16:19 G	36841091.96	36841092.18	36841092.40	0.0138	0.0003
Venus	96156-01-01 23:45 G	36841318.29	36841318.49	36841318.71	0.0138	0.0027
Venus	96156-08-15 07:40 G	36841544.63	36841544.82	36841545.03	0.0138	0.0051
Venus	96157-03-29 15:36 G	36841770.98	36841771.15	36841771.35	0.0138	0.0075
Venus	96157-11-10 23:45 G	36841997.35	36841997.49	36841997.66	0.0138	0.0099
Venus	96158-06-25 08:09 G	36842223.76	36842223.84	36842223.95	0.0139	0.0124
Mercury	96170-04-29 17:16 G	36846550.18	36846550.22	36846550.29	0.0142	0.0128
Mercury	96170-07-26 21:07 G	36846638.29	36846638.38	36846638.46	0.0143	0.0106
Mercury	96170-10-23 00:14 G	36846726.41	36846726.51	36846726.62	0.0143	0.0085
Mercury	96171-01-19 03:50 G	36846814.55	36846814.66	36846814.78	0.0143	0.0063
Mercury	96171-04-17 07:26 G	36846902.68	36846902.81	36846902.93	0.0143	0.0041
Mercury	96171-07-14 10:48 G	36846990.82	36846990.95	36846991.08	0.0143	0.0020
Mercury	96171-10-10 14:24 G	36847078.97	36847079.10	36847079.23	0.0143	0.0002
Mercury	96172-01-06 17:45 G	36847167.11	36847167.24	36847167.37	0.0143	0.0024
Mercury	96172-04-03 21:21 G	36847255.27	36847255.39	36847255.51	0.0143	0.0045

Mercury	96172-07-01 00:57 G	36847343.42	36847343.54	36847343.65	0.0143	0.0067
Mercury	96172-09-27 04:19 G	36847431.58	36847431.68	36847431.78	0.0143	0.0089
Mercury	96172-12-24 07:40 G	36847519.75	36847519.82	36847519.91	0.0143	0.0111
Mercury	96173-03-22 11:16 G	36847607.93	36847607.97	36847608.02	0.0143	0.0133
Earth	96185-02-14 20:09 G	36851955.23	36851955.34	36851955.47	0.0143	0.0126
Moon	96185-02-14 22:48 G	36851955.34	36851955.45	36851955.60	0.0143	0.0124 *
Moon	96186-02-19 18:43 G	36852325.03	36852325.28	36852325.53	0.0143	0.0025
Earth	96186-02-19 22:04 G	36852325.17	36852325.42	36852325.68	0.0143	0.0029 *
Earth	96187-02-24 23:16 G	36852695.25	36852695.47	36852695.70	0.0143	0.0067
Moon	96187-02-25 02:38 G	36852695.39	36852695.61	36852695.86	0.0143	0.0061 *
Venus	96192-08-02 07:55 G	36854680.75	36854680.83	36854680.96	0.0141	0.0125
Venus	96193-03-16 18:43 G	36854907.14	36854907.28	36854907.45	0.0141	0.0099
Venus	96193-10-29 05:16 G	36855133.54	36855133.72	36855133.92	0.0141	0.0072
Venus	96194-06-12 15:36 G	36855359.95	36855360.15	36855360.36	0.0141	0.0047
Venus	96195-01-25 01:55 G	36855586.37	36855586.58	36855586.80	0.0141	0.0021
Venus	96195-09-08 12:00 G	36855812.78	36855813.00	36855813.21	0.0140	0.0006
Venus	96196-04-21 21:36 G	36856039.19	36856039.40	36856039.61	0.0140	0.0030
Venus	96196-12-04 06:57 G	36856265.59	36856265.79	36856265.99	0.0140	0.0055
Venus	96197-07-18 16:19 G	36856492.00	36856492.18	36856492.36	0.0140	0.0080
Venus	96198-03-02 01:12 G	36856718.42	36856718.55	36856718.71	0.0140	0.0105
Venus	96198-10-14 10:04 G	36856944.85	36856944.92	36856945.01	0.0139	0.0129
Mars	96204-06-09 14:24 G	36859008.89	36859009.10	36859009.34	0.0137	0.0088
Mercury	96211-08-22 07:55 G	36861638.76	36861638.83	36861638.93	0.0135	0.0120
Mercury	96211-11-18 15:36 G	36861727.02	36861727.15	36861727.30	0.0135	0.0093
Mercury	96212-02-14 23:16 G	36861815.31	36861815.47	36861815.65	0.0135	0.0065
Mercury	96212-05-13 06:57 G	36861903.61	36861903.79	36861903.98	0.0135	0.0037
Mercury	96212-08-09 14:38 G	36861991.91	36861992.11	36861992.30	0.0135	0.0009
Mercury	96212-11-05 22:04 G	36862080.23	36862080.42	36862080.61	0.0135	0.0018
Mercury	96213-02-02 05:31 G	36862168.55	36862168.73	36862168.92	0.0135	0.0046
Mercury	96213-05-01 12:43 G	36862256.88	36862257.03	36862257.21	0.0135	0.0074

Mercury	96213-07-28 20:24 G	36862345.23	36862345.35	36862345.49	0.0135	0.0100
Mercury	96213-10-25 03:36 G	36862433.60	36862433.65	36862433.73	0.0135	0.0128
Moon	96227-08-16 21:36 G	36867477.32	36867477.40	36867477.50	0.0135	0.0125
Earth	96227-08-17 01:12 G	36867477.49	36867477.55	36867477.62	0.0135	0.0130 *
Earth	96228-08-20 07:40 G	36867846.59	36867846.82	36867847.05	0.0135	0.0053
Moon	96228-08-20 11:02 G	36867846.75	36867846.96	36867847.20	0.0135	0.0056 *
Moon	96229-08-24 11:16 G	36868215.72	36868215.97	36868216.22	0.0135	0.0024
Earth	96229-08-24 14:38 G	36868215.86	36868216.11	36868216.35	0.0135	0.0026 *
Earth	96230-08-28 21:21 G	36868585.23	36868585.39	36868585.55	0.0135	0.0104
Moon	96230-08-29 00:43 G	36868585.39	36868585.53	36868585.69	0.0135	0.0108 *
Venus	96235-12-14 14:52 G	36870519.04	36870519.12	36870519.23	0.0137	0.0122
Venus	96236-07-27 21:50 G	36870745.27	36870745.41	36870745.57	0.0137	0.0099
Venus	96237-03-11 04:48 G	36870971.53	36870971.70	36870971.89	0.0137	0.0076
Venus	96237-10-23 11:45 G	36871197.80	36871197.99	36871198.20	0.0137	0.0054
Venus	96238-06-06 19:12 G	36871424.09	36871424.30	36871424.51	0.0137	0.0030
Venus	96239-01-19 02:38 G	36871650.39	36871650.61	36871650.83	0.0138	0.0006
Venus	96239-09-02 10:19 G	36871876.71	36871876.93	36871877.14	0.0138	0.0018
Venus	96240-04-15 18:00 G	36872103.04	36872103.25	36872103.46	0.0138	0.0041
Venus	96240-11-28 01:55 G	36872329.39	36872329.58	36872329.77	0.0138	0.0065
Venus	96241-07-12 09:50 G	36872555.76	36872555.91	36872556.09	0.0138	0.0090
Venus	96242-02-23 18:14 G	36872782.15	36872782.26	36872782.39	0.0139	0.0114
Venus	96242-10-08 02:24 G	36873008.60	36873008.60	36873008.65	0.0139	0.0138
Mars	96248-07-14 11:45 G	36875114.68	36875114.99	36875115.32	0.0141	0.0021
Jupiter	96251-04-21 06:00 G	36876125.41	36876125.75	36876126.16	0.0142	0.0097
Mercury	96254-02-21 21:50 G	36877163.40	36877163.41	36877163.43	0.0142	0.0140
Mercury	96254-05-21 01:12 G	36877251.49	36877251.55	36877251.63	0.0143	0.0119
Mercury	96254-08-17 04:48 G	36877339.61	36877339.70	36877339.80	0.0143	0.0098
Mercury	96254-11-13 08:09 G	36877427.74	36877427.84	36877427.96	0.0143	0.0077
Mercury	96255-02-09 11:45 G	36877515.87	36877515.99	36877516.11	0.0143	0.0055
Mercury	96255-05-08 15:07 G	36877604.01	36877604.13	36877604.26	0.0143	0.0034

Mercury	96255-08-04 18:43 G	36877692.15	36877692.28	36877692.41	0.0143	0.0012
Mercury	96255-10-31 22:19 G	36877780.30	36877780.43	36877780.56	0.0143	0.0011
Mercury	96256-01-28 01:40 G	36877868.44	36877868.57	36877868.70	0.0143	0.0032
Mercury	96256-04-25 05:02 G	36877956.60	36877956.71	36877956.84	0.0143	0.0054
Mercury	96256-07-22 08:38 G	36878044.75	36878044.86	36878044.97	0.0143	0.0076
Mercury	96256-10-18 12:14 G	36878132.92	36878133.01	36878133.11	0.0143	0.0097
Mercury	96257-01-14 15:50 G	36878221.09	36878221.16	36878221.23	0.0143	0.0119
Mercury	96257-04-12 19:12 G	36878309.29	36878309.30	36878309.32	0.0143	0.0141
Earth	96269-02-16 10:19 G	36882636.79	36882636.93	36882637.09	0.0143	0.0117
Moon	96269-02-16 12:57 G	36882636.91	36882637.04	36882637.21	0.0143	0.0118 *
Moon	96270-02-21 09:21 G	36883006.64	36883006.89	36883007.14	0.0143	0.0022
Earth	96270-02-21 12:14 G	36883006.76	36883007.01	36883007.27	0.0143	0.0020 *
Earth	96271-02-26 13:26 G	36883376.84	36883377.06	36883377.28	0.0143	0.0076
Moon	96271-02-26 16:48 G	36883377.00	36883377.20	36883377.42	0.0143	0.0084 *
Venus	96276-04-02 17:16 G	36885239.16	36885239.22	36885239.30	0.0142	0.0134
Venus	96276-11-15 04:19 G	36885465.54	36885465.68	36885465.82	0.0141	0.0108
Venus	96277-06-29 14:38 G	36885691.94	36885692.11	36885692.30	0.0141	0.0082
Venus	96278-02-11 01:12 G	36885918.36	36885918.55	36885918.76	0.0141	0.0056
Venus	96278-09-25 11:16 G	36886144.77	36886144.97	36886145.20	0.0141	0.0031
Venus	96279-05-09 21:36 G	36886371.18	36886371.40	36886371.62	0.0141	0.0005
Venus	96279-12-22 07:26 G	36886597.59	36886597.81	36886598.02	0.0140	0.0021
Venus	96280-08-04 16:48 G	36886824.00	36886824.20	36886824.41	0.0140	0.0046
Venus	96281-03-19 02:09 G	36887050.41	36887050.59	36887050.78	0.0140	0.0071
Venus	96281-10-31 11:31 G	36887276.82	36887276.98	36887277.14	0.0140	0.0095
Venus	96282-06-14 19:55 G	36887503.24	36887503.33	36887503.46	0.0139	0.0120
Mars	96289-02-02 11:02 G	36889927.68	36889927.96	36889928.26	0.0137	0.0021
Mercury	96295-09-11 15:50 G	36892340.06	36892340.16	36892340.29	0.0135	0.0111
Mercury	96295-12-08 23:31 G	36892428.34	36892428.48	36892428.65	0.0135	0.0083
Mercury	96296-03-06 07:26 G	36892516.63	36892516.81	36892516.99	0.0135	0.0055
Mercury	96296-06-02 14:52 G	36892604.93	36892605.12	36892605.31	0.0135	0.0027

Mercury	96296-08-29 22:33 G	36892693.24	36892693.44	36892693.63	0.0135	0.0002
Mercury	96296-11-26 05:45 G	36892781.56	36892781.74	36892781.94	0.0135	0.0029
Mercury	96297-02-22 13:26 G	36892869.88	36892870.06	36892870.24	0.0135	0.0055
Mercury	96297-05-21 20:52 G	36892958.22	36892958.37	36892958.53	0.0135	0.0082
Mercury	96297-08-18 04:19 G	36893046.57	36893046.68	36893046.80	0.0135	0.0109
Moon	96311-08-18 09:21 G	36898158.84	36898158.89	36898158.96	0.0135	0.0130
Earth	96311-08-18 12:43 G	36898158.95	36898159.03	36898159.14	0.0135	0.0124 *
Earth	96312-08-21 19:26 G	36898528.08	36898528.31	36898528.55	0.0135	0.0046
Moon	96312-08-21 23:02 G	36898528.22	36898528.46	36898528.69	0.0135	0.0044 *
Moon	96313-08-25 22:19 G	36898897.19	36898897.43	36898897.68	0.0135	0.0031
Earth	96313-08-26 01:55 G	36898897.34	36898897.58	36898897.83	0.0135	0.0032 *
Earth	96314-08-30 08:38 G	36899266.73	36899266.86	36899267.02	0.0135	0.0110
Moon	96314-08-30 12:14 G	36899266.87	36899267.01	36899267.17	0.0135	0.0107 *
Venus	96319-08-15 01:26 G	36901077.50	36901077.56	36901077.62	0.0137	0.0130
Venus	96320-03-28 07:40 G	36901303.70	36901303.82	36901303.96	0.0137	0.0108
Venus	96320-11-09 14:24 G	36901529.95	36901530.10	36901530.28	0.0137	0.0086
Venus	96321-06-23 21:50 G	36901756.21	36901756.41	36901756.60	0.0137	0.0063
Venus	96322-02-05 04:48 G	36901982.50	36901982.70	36901982.91	0.0137	0.0039
Venus	96322-09-19 12:00 G	36902208.79	36902209.00	36902209.22	0.0137	0.0016
Venus	96323-05-03 19:26 G	36902435.10	36902435.31	36902435.53	0.0138	0.0008
Venus	96323-12-16 03:07 G	36902661.42	36902661.63	36902661.84	0.0138	0.0031
Venus	96324-07-29 10:48 G	36902887.76	36902887.95	36902888.16	0.0138	0.0055
Venus	96325-03-12 18:43 G	36903114.11	36903114.28	36903114.47	0.0138	0.0079
Venus	96325-10-25 03:07 G	36903340.49	36903340.63	36903340.77	0.0139	0.0103
Venus	96326-06-08 11:16 G	36903566.89	36903566.97	36903567.06	0.0139	0.0127
Mars	96333-03-11 10:04 G	36906034.73	36906034.92	36906035.14	0.0141	0.0109
Mercury	96338-03-15 05:31 G	36907864.69	36907864.73	36907864.77	0.0143	0.0134
Mercury	96338-06-11 08:52 G	36907952.79	36907952.87	36907952.95	0.0143	0.0113
Mercury	96338-09-07 12:28 G	36908040.92	36908041.02	36908041.12	0.0143	0.0091
Mercury	96338-12-04 15:50 G	36908129.05	36908129.16	36908129.28	0.0143	0.0070

Mercury	96339-03-02 19:12 G	36908217.18	36908217.30	36908217.43	0.0143	0.0048
Mercury	96339-05-29 22:48 G	36908305.32	36908305.45	36908305.58	0.0143	0.0026
Mercury	96339-08-26 02:09 G	36908393.46	36908393.59	36908393.73	0.0143	0.0007
Mercury	96339-11-22 05:45 G	36908481.61	36908481.74	36908481.87	0.0143	0.0017
Mercury	96340-02-18 09:07 G	36908569.76	36908569.88	36908570.01	0.0143	0.0039
Mercury	96340-05-16 12:43 G	36908657.91	36908658.03	36908658.15	0.0143	0.0061
Mercury	96340-08-12 16:19 G	36908746.07	36908746.18	36908746.29	0.0143	0.0082
Mercury	96340-11-08 19:40 G	36908834.24	36908834.32	36908834.41	0.0143	0.0105
Mercury	96341-02-04 23:16 G	36908922.41	36908922.47	36908922.53	0.0143	0.0126
Earth	96353-02-18 00:28 G	36913318.36	36913318.52	36913318.70	0.0143	0.0108
Moon	96353-02-18 02:38 G	36913318.45	36913318.61	36913318.80	0.0143	0.0106 *
Moon	96354-02-22 23:31 G	36913688.23	36913688.48	36913688.74	0.0143	0.0009
Earth	96354-02-23 02:38 G	36913688.35	36913688.61	36913688.87	0.0143	0.0011 *
Earth	96355-02-28 03:21 G	36914058.45	36914058.64	36914058.87	0.0143	0.0086
Moon	96355-02-28 06:28 G	36914058.57	36914058.77	36914059.00	0.0143	0.0080 *
Venus	96360-07-16 14:24 G	36916023.98	36916024.10	36916024.23	0.0142	0.0117
Venus	96361-02-28 00:57 G	36916250.38	36916250.54	36916250.72	0.0141	0.0091
Venus	96361-10-12 11:31 G	36916476.79	36916476.98	36916477.18	0.0141	0.0065
Venus	96362-05-26 21:50 G	36916703.21	36916703.41	36916703.63	0.0141	0.0040
Venus	96363-01-08 08:09 G	36916929.63	36916929.84	36916930.06	0.0141	0.0014
Venus	96363-08-22 18:14 G	36917156.04	36917156.26	36917156.47	0.0140	0.0012
Venus	96364-04-05 03:50 G	36917382.45	36917382.66	36917382.87	0.0140	0.0037
Venus	96364-11-17 13:12 G	36917608.85	36917609.05	36917609.25	0.0140	0.0062
Venus	96365-07-01 22:19 G	36917835.26	36917835.43	36917835.61	0.0140	0.0086
Venus	96366-02-13 07:12 G	36918061.69	36918061.80	36918061.95	0.0140	0.0111
Venus	96366-09-27 16:19 G	36918288.13	36918288.18	36918288.24	0.0139	0.0134
Mars	96371-10-29 17:45 G	36920146.16	36920146.24	36920146.33	0.0138	0.0131
Mars	96373-09-29 07:12 G	36920846.74	36920846.80	36920846.90	0.0137	0.0131
Jupiter	96376-02-01 07:12 G	36921701.29	36921701.80	36921702.32	0.0136	0.0014
Mercury	96379-07-06 16:33 G	36922953.14	36922953.19	36922953.28	0.0135	0.0127

Mercury	96379-10-03 00:28 G	36923041.39	36923041.52	36923041.66	0.0135	0.0099
Mercury	96379-12-30 07:55 G	36923129.68	36923129.83	36923130.01	0.0135	0.0071
Mercury	96380-03-27 15:36 G	36923217.97	36923218.15	36923218.34	0.0135	0.0044
Mercury	96380-06-23 23:16 G	36923306.28	36923306.47	36923306.67	0.0135	0.0016
Mercury	96380-09-20 06:43 G	36923394.59	36923394.78	36923394.98	0.0135	0.0012
Mercury	96380-12-17 14:09 G	36923482.91	36923483.09	36923483.28	0.0135	0.0039
Mercury	96381-03-15 21:36 G	36923571.24	36923571.40	36923571.58	0.0135	0.0066
Mercury	96381-06-12 05:02 G	36923659.58	36923659.71	36923659.86	0.0135	0.0093
Mercury	96381-09-08 12:28 G	36923747.94	36923748.02	36923748.12	0.0135	0.0120
Moon	96395-08-18 22:04 G	36928840.29	36928840.42	36928840.56	0.0135	0.0112
Earth	96395-08-19 01:26 G	36928840.46	36928840.56	36928840.70	0.0135	0.0118 *
Earth	96396-08-22 07:40 G	36929209.59	36929209.82	36929210.07	0.0135	0.0040
Moon	96396-08-22 11:16 G	36929209.74	36929209.97	36929210.22	0.0135	0.0044 *
Moon	96397-08-26 11:02 G	36929578.73	36929578.96	36929579.21	0.0135	0.0038
Earth	96397-08-26 14:24 G	36929578.87	36929579.10	36929579.35	0.0135	0.0038 *
Earth	96398-08-30 21:07 G	36929948.27	36929948.38	36929948.52	0.0135	0.0117
Moon	96398-08-31 00:43 G	36929948.44	36929948.53	36929948.66	0.0135	0.0121 *
Venus	96403-11-26 18:28 G	36931862.16	36931862.27	36931862.38	0.0137	0.0116
Venus	96404-07-10 00:57 G	36932088.40	36932088.54	36932088.71	0.0137	0.0094
Venus	96405-02-21 07:55 G	36932314.65	36932314.83	36932315.02	0.0137	0.0071
Venus	96405-10-05 14:52 G	36932540.92	36932541.12	36932541.33	0.0137	0.0048
Venus	96406-05-19 22:04 G	36932767.21	36932767.42	36932767.63	0.0137	0.0025
Venus	96407-01-01 05:16 G	36932993.51	36932993.72	36932993.94	0.0138	0.0003
Venus	96407-08-15 12:57 G	36933219.82	36933220.04	36933220.25	0.0138	0.0022
Venus	96408-03-28 20:38 G	36933446.15	36933446.36	36933446.56	0.0138	0.0045
Venus	96408-11-10 04:04 G	36933672.49	36933672.67	36933672.87	0.0138	0.0069
Venus	96409-06-24 12:00 G	36933898.86	36933899.00	36933899.18	0.0138	0.0094
Venus	96410-02-05 20:24 G	36934125.24	36934125.35	36934125.47	0.0139	0.0117
Mars	96415-12-01 15:36 G	36936249.91	36936250.15	36936250.43	0.0141	0.0081
Mercury	96422-04-04 12:57 G	36938565.99	36938566.04	36938566.10	0.0143	0.0127

Mercury	96422-07-01 16:33 G	36938654.10	36938654.19	36938654.27	0.0143	0.0106
Mercury	96422-09-27 19:55 G	36938742.23	36938742.33	36938742.44	0.0143	0.0085
Mercury	96422-12-24 23:16 G	36938830.36	36938830.47	36938830.59	0.0143	0.0063
Mercury	96423-03-23 02:52 G	36938918.49	36938918.62	36938918.75	0.0143	0.0041
Mercury	96423-06-19 06:14 G	36939006.63	36939006.76	36939006.89	0.0143	0.0020
Mercury	96423-09-15 09:50 G	36939094.78	36939094.91	36939095.04	0.0143	0.0002
Mercury	96423-12-12 13:12 G	36939182.92	36939183.05	36939183.18	0.0143	0.0024
Mercury	96424-03-09 16:48 G	36939271.08	36939271.20	36939271.33	0.0143	0.0045
Mercury	96424-06-05 20:24 G	36939359.23	36939359.35	36939359.46	0.0143	0.0067
Mercury	96424-09-01 23:45 G	36939447.39	36939447.49	36939447.60	0.0143	0.0089
Mercury	96424-11-29 03:07 G	36939535.56	36939535.63	36939535.72	0.0143	0.0112
Mercury	96425-02-25 06:43 G	36939623.74	36939623.78	36939623.83	0.0143	0.0133
Earth	96437-02-18 13:12 G	36943999.89	36944000.05	36944000.25	0.0143	0.0101
Moon	96437-02-18 15:21 G	36943999.97	36944000.14	36944000.34	0.0143	0.0103 *
Moon	96438-02-23 13:12 G	36944369.80	36944370.05	36944370.31	0.0143	0.0005
Earth	96438-02-23 15:21 G	36944369.89	36944370.14	36944370.40	0.0143	0.0004 *
Earth	96439-02-28 16:48 G	36944740.01	36944740.20	36944740.40	0.0143	0.0093
Moon	96439-02-28 19:55 G	36944740.15	36944740.33	36944740.53	0.0143	0.0100 *
Venus	96444-03-15 23:31 G	36946582.39	36946582.48	36946582.59	0.0142	0.0126
Venus	96444-10-28 10:19 G	36946808.79	36946808.93	36946809.10	0.0141	0.0100
Venus	96445-06-11 21:07 G	36947035.20	36947035.38	36947035.57	0.0141	0.0075
Venus	96446-01-24 07:40 G	36947261.63	36947261.82	36947262.04	0.0141	0.0049
Venus	96446-09-07 18:14 G	36947488.04	36947488.26	36947488.47	0.0141	0.0023
Venus	96447-04-22 04:04 G	36947714.46	36947714.67	36947714.89	0.0141	0.0003
Venus	96447-12-04 13:55 G	36947940.87	36947941.08	36947941.30	0.0140	0.0028
Venus	96448-07-17 23:31 G	36948167.28	36948167.48	36948167.68	0.0140	0.0052
Venus	96449-03-01 08:52 G	36948393.69	36948393.87	36948394.06	0.0140	0.0077
Venus	96449-10-13 18:14 G	36948620.11	36948620.26	36948620.40	0.0140	0.0101
Venus	96450-05-28 03:07 G	36948846.53	36948846.63	36948846.72	0.0140	0.0125
Mars	96456-06-23 16:19 G	36951064.90	36951065.18	36951065.48	0.0137	0.0019

Mercury	96463-07-27 01:12 G	36953654.46	36953654.55	36953654.66	0.0135	0.0115
Mercury	96463-10-23 08:38 G	36953742.73	36953742.86	36953743.03	0.0135	0.0088
Mercury	96464-01-19 16:33 G	36953831.02	36953831.19	36953831.37	0.0135	0.0059
Mercury	96464-04-17 00:00 G	36953919.32	36953919.50	36953919.70	0.0135	0.0032
Mercury	96464-07-14 07:40 G	36954007.62	36954007.82	36954008.01	0.0135	0.0005
Mercury	96464-10-10 15:07 G	36954095.94	36954096.13	36954096.32	0.0135	0.0023
Mercury	96465-01-06 22:33 G	36954184.26	36954184.44	36954184.63	0.0135	0.0050
Mercury	96465-04-05 06:00 G	36954272.60	36954272.75	36954272.91	0.0135	0.0077
Mercury	96465-07-02 13:26 G	36954360.94	36954361.06	36954361.19	0.0135	0.0104
Mercury	96465-09-28 20:38 G	36954449.33	36954449.36	36954449.42	0.0135	0.0131
Moon	96479-08-19 10:33 G	36959521.83	36959521.94	36959522.06	0.0135	0.0118
Earth	96479-08-19 13:26 G	36959521.94	36959522.06	36959522.22	0.0135	0.0112 *
Earth	96480-08-22 19:55 G	36959891.09	36959891.33	36959891.57	0.0135	0.0034
Moon	96480-08-22 23:31 G	36959891.23	36959891.48	36959891.72	0.0135	0.0031 *
Moon	96481-08-26 22:48 G	36960260.22	36960260.45	36960260.69	0.0135	0.0043
Earth	96481-08-27 02:24 G	36960260.36	36960260.60	36960260.84	0.0135	0.0044 *
Earth	96482-08-31 08:38 G	36960629.78	36960629.86	36960629.98	0.0135	0.0123
Moon	96482-08-31 12:00 G	36960629.91	36960630.00	36960630.14	0.0135	0.0120 *
Venus	96487-07-27 04:04 G	36962420.60	36962420.67	36962420.77	0.0136	0.0125
Venus	96488-03-09 10:33 G	36962646.81	36962646.94	36962647.09	0.0136	0.0103
Venus	96488-10-21 17:02 G	36962873.05	36962873.21	36962873.40	0.0137	0.0081
Venus	96489-06-05 00:00 G	36963099.31	36963099.50	36963099.70	0.0137	0.0058
Venus	96490-01-17 06:57 G	36963325.59	36963325.79	36963326.01	0.0137	0.0035
Venus	96490-08-31 14:09 G	36963551.88	36963552.09	36963552.31	0.0137	0.0012
Venus	96491-04-14 21:36 G	36963778.18	36963778.40	36963778.61	0.0138	0.0012
Venus	96491-11-27 04:48 G	36964004.50	36964004.70	36964004.92	0.0138	0.0035
Venus	96492-07-10 12:28 G	36964230.83	36964231.02	36964231.22	0.0138	0.0059
Venus	96493-02-21 20:24 G	36964457.18	36964457.35	36964457.53	0.0138	0.0082
Venus	96493-10-06 04:04 G	36964683.55	36964683.67	36964683.83	0.0138	0.0107
Venus	96494-05-20 12:28 G	36964909.95	36964910.02	36964910.10	0.0139	0.0130

Mars	96500-07-28 06:14 G	36967169.47	36967169.76	36967170.08	0.0141	0.0044
Mercury	96506-04-25 19:55 G	36969267.27	36969267.33	36969267.40	0.0143	0.0124
Mercury	96506-07-22 23:16 G	36969355.39	36969355.47	36969355.57	0.0143	0.0103
Mercury	96506-10-19 02:52 G	36969443.51	36969443.62	36969443.73	0.0143	0.0081
Mercury	96507-01-15 06:14 G	36969531.65	36969531.76	36969531.88	0.0143	0.0060
Mercury	96507-04-13 09:50 G	36969619.78	36969619.91	36969620.04	0.0143	0.0038
Mercury	96507-07-10 13:12 G	36969707.92	36969708.05	36969708.19	0.0143	0.0017
Mercury	96507-10-06 16:48 G	36969796.07	36969796.20	36969796.33	0.0143	0.0005
Mercury	96508-01-02 20:09 G	36969884.22	36969884.34	36969884.47	0.0143	0.0028
Mercury	96508-03-30 23:45 G	36969972.37	36969972.49	36969972.61	0.0143	0.0049
Mercury	96508-06-27 03:07 G	36970060.52	36970060.63	36970060.75	0.0143	0.0071
Mercury	96508-09-23 06:43 G	36970148.68	36970148.78	36970148.88	0.0143	0.0093
Mercury	96508-12-20 10:19 G	36970236.85	36970236.93	36970237.01	0.0143	0.0115
Mercury	96509-03-18 13:55 G	36970325.04	36970325.08	36970325.11	0.0143	0.0137
Earth	96521-02-19 22:48 G	36974681.26	36974681.45	36974681.64	0.0144	0.0096
Moon	96521-02-19 23:31 G	36974681.29	36974681.48	36974681.70	0.0144	0.0093 *
Moon	96522-02-24 22:48 G	36975051.20	36975051.45	36975051.70	0.0143	0.0003
Earth	96522-02-25 00:57 G	36975051.28	36975051.54	36975051.79	0.0143	0.0003 *
Earth	96523-03-02 01:55 G	36975421.42	36975421.58	36975421.79	0.0143	0.0100
Moon	96523-03-02 04:33 G	36975421.50	36975421.69	36975421.90	0.0143	0.0093 *
Venus	96527-11-15 06:57 G	36977140.74	36977140.79	36977140.85	0.0142	0.0136
Venus	96528-06-28 17:45 G	36977367.12	36977367.24	36977367.39	0.0142	0.0111
Venus	96529-02-10 05:02 G	36977593.54	36977593.71	36977593.89	0.0141	0.0085
Venus	96529-09-24 15:36 G	36977819.96	36977820.15	36977820.36	0.0141	0.0059
Venus	96530-05-09 02:09 G	36978046.38	36978046.59	36978046.81	0.0141	0.0033
Venus	96530-12-21 12:28 G	36978272.80	36978273.02	36978273.24	0.0141	0.0008
Venus	96531-08-04 22:19 G	36978499.22	36978499.43	36978499.65	0.0141	0.0018
Venus	96532-03-18 08:09 G	36978725.64	36978725.84	36978726.05	0.0140	0.0043
Venus	96532-10-30 17:31 G	36978952.05	36978952.23	36978952.43	0.0140	0.0068
Venus	96533-06-14 02:38 G	36979178.47	36979178.61	36979178.79	0.0140	0.0092

Venus	96534-01-26 12:00 G	36979404.89	36979405.00	36979405.13	0.0140	0.0116
Venus	96534-09-09 20:52 G	36979631.37	36979631.37	36979631.40	0.0140	0.0139
Mars	96541-02-17 12:14 G	36981983.82	36981984.01	36981984.25	0.0137	0.0092
Mercury	96547-05-21 01:40 G	36984267.54	36984267.57	36984267.63	0.0136	0.0132
Mercury	96547-08-17 09:36 G	36984355.78	36984355.90	36984356.03	0.0135	0.0104
Mercury	96547-11-13 17:02 G	36984444.06	36984444.21	36984444.38	0.0135	0.0076
Mercury	96548-02-10 00:43 G	36984532.35	36984532.53	36984532.72	0.0135	0.0049
Mercury	96548-05-08 08:24 G	36984620.65	36984620.85	36984621.04	0.0135	0.0021
Mercury	96548-08-04 15:50 G	36984708.97	36984709.16	36984709.36	0.0135	0.0006
Mercury	96548-10-31 23:16 G	36984797.29	36984797.47	36984797.66	0.0135	0.0034
Mercury	96549-01-28 06:28 G	36984885.61	36984885.77	36984885.96	0.0135	0.0062
Mercury	96549-04-26 13:55 G	36984973.95	36984974.08	36984974.24	0.0135	0.0088
Mercury	96549-07-23 21:21 G	36985062.31	36985062.39	36985062.51	0.0135	0.0115
Moon	96563-08-20 23:31 G	36990203.32	36990203.48	36990203.65	0.0135	0.0099
Earth	96563-08-21 02:52 G	36990203.47	36990203.62	36990203.78	0.0135	0.0105 *
Earth	96564-08-24 08:52 G	36990572.63	36990572.87	36990573.12	0.0135	0.0027
Moon	96564-08-24 12:00 G	36990572.76	36990573.00	36990573.26	0.0135	0.0032 *
Moon	96565-08-28 12:00 G	36990941.78	36990942.00	36990942.24	0.0135	0.0052
Earth	96565-08-28 15:21 G	36990941.91	36990942.14	36990942.38	0.0135	0.0051 *
Earth	96566-09-01 22:19 G	36991311.36	36991311.43	36991311.49	0.0135	0.0129
Moon	96566-09-02 01:26 G	36991311.52	36991311.56	36991311.62	0.0135	0.0132
Venus	96571-03-27 14:38 G	36992979.08	36992979.11	36992979.19	0.0136	0.0133
Venus	96571-11-08 21:07 G	36993205.27	36993205.38	36993205.52	0.0136	0.0111
Venus	96572-06-22 03:36 G	36993431.51	36993431.65	36993431.83	0.0136	0.0089
Venus	96573-02-03 10:33 G	36993657.76	36993657.94	36993658.14	0.0137	0.0066
Venus	96573-09-17 17:31 G	36993884.02	36993884.23	36993884.43	0.0137	0.0043
Venus	96574-05-02 00:14 G	36994110.30	36994110.51	36994110.73	0.0137	0.0020
Venus	96574-12-14 07:26 G	36994336.59	36994336.81	36994337.03	0.0137	0.0003
Venus	96575-07-28 14:52 G	36994562.91	36994563.12	36994563.33	0.0138	0.0026
Venus	96576-03-10 22:04 G	36994789.23	36994789.42	36994789.63	0.0138	0.0050

Venus	96576-10-23 05:45 G	36995015.56	36995015.74	36995015.93	0.0138	0.0073
Venus	96577-06-06 13:40 G	36995241.92	36995242.07	36995242.23	0.0138	0.0097
Venus	96578-01-18 21:21 G	36995468.31	36995468.39	36995468.52	0.0138	0.0121
Mercury	96590-02-16 23:45 G	36999880.47	36999880.49	36999880.52	0.0143	0.0140
Mercury	96590-05-16 03:07 G	36999968.57	36999968.63	36999968.71	0.0143	0.0119
Mercury	96590-08-12 06:28 G	37000056.69	37000056.77	37000056.88	0.0143	0.0098
Mercury	96590-11-08 10:04 G	37000144.81	37000144.92	37000145.04	0.0143	0.0076
Mercury	96591-02-04 13:26 G	37000232.95	37000233.06	37000233.19	0.0143	0.0055
Mercury	96591-05-03 17:02 G	37000321.08	37000321.21	37000321.34	0.0143	0.0033
Mercury	96591-07-30 20:38 G	37000409.23	37000409.36	37000409.49	0.0143	0.0012
Mercury	96591-10-27 00:00 G	37000497.37	37000497.50	37000497.63	0.0143	0.0011
Mercury	96592-01-23 03:36 G	37000585.52	37000585.65	37000585.78	0.0143	0.0032
Mercury	96592-04-20 06:57 G	37000673.67	37000673.79	37000673.91	0.0143	0.0054
Mercury	96592-07-17 10:19 G	37000761.83	37000761.93	37000762.05	0.0143	0.0076
Mercury	96592-10-13 13:55 G	37000849.99	37000850.08	37000850.18	0.0143	0.0098
Mercury	96593-01-09 17:16 G	37000938.16	37000938.22	37000938.30	0.0143	0.0120
Mercury	96593-04-07 21:07 G	37001026.36	37001026.38	37001026.39	0.0143	0.0142
Earth	96605-02-21 07:55 G	37005362.63	37005362.83	37005363.03	0.0144	0.0092
Moon	96605-02-21 08:24 G	37005362.66	37005362.85	37005363.06	0.0144	0.0096 *
Moon	96606-02-26 08:52 G	37005732.63	37005732.87	37005733.12	0.0143	0.0007
Earth	96606-02-26 09:50 G	37005732.66	37005732.91	37005733.17	0.0143	0.0007 *
Earth	96607-03-03 11:31 G	37006102.82	37006102.98	37006103.17	0.0143	0.0103
Moon	96607-03-03 13:40 G	37006102.92	37006103.07	37006103.26	0.0143	0.0109 *
Venus	96612-02-28 00:43 G	37007925.43	37007925.53	37007925.65	0.0142	0.0121
Venus	96612-10-11 11:31 G	37008151.83	37008151.98	37008152.16	0.0142	0.0096
Venus	96613-05-25 22:33 G	37008378.25	37008378.44	37008378.63	0.0141	0.0070
Venus	96614-01-07 09:07 G	37008604.68	37008604.88	37008605.10	0.0141	0.0044
Venus	96614-08-21 19:40 G	37008831.10	37008831.32	37008831.54	0.0141	0.0019
Venus	96615-04-05 05:45 G	37009057.52	37009057.74	37009057.96	0.0141	0.0007
Venus	96615-11-17 15:36 G	37009283.94	37009284.15	37009284.37	0.0141	0.0032

Venus	96616-07-01 01:26 G	37009510.36	37009510.56	37009510.76	0.0140	0.0057
Venus	96617-02-12 10:48 G	37009736.78	37009736.95	37009737.14	0.0140	0.0082
Venus	96617-09-26 19:55 G	37009963.20	37009963.33	37009963.49	0.0140	0.0106
Venus	96618-05-11 05:16 G	37010189.64	37010189.72	37010189.80	0.0140	0.0129
Mars	96623-11-13 12:14 G	37012201.76	37012202.01	37012202.28	0.0138	0.0067
Mercury	96631-06-11 09:36 G	37014968.83	37014968.90	37014968.99	0.0136	0.0123
Mercury	96631-09-07 17:16 G	37015057.09	37015057.22	37015057.36	0.0136	0.0095
Mercury	96631-12-05 00:43 G	37015145.37	37015145.53	37015145.71	0.0135	0.0068
Mercury	96632-03-02 08:38 G	37015233.67	37015233.86	37015234.04	0.0135	0.0040
Mercury	96632-05-29 16:04 G	37015321.98	37015322.17	37015322.37	0.0135	0.0012
Mercury	96632-08-25 23:31 G	37015410.29	37015410.48	37015410.68	0.0135	0.0015
Mercury	96632-11-22 07:12 G	37015498.61	37015498.80	37015498.98	0.0135	0.0043
Mercury	96633-02-18 14:24 G	37015586.94	37015587.10	37015587.28	0.0135	0.0070
Mercury	96633-05-17 21:50 G	37015675.29	37015675.41	37015675.55	0.0135	0.0097
Mercury	96633-08-14 05:16 G	37015763.66	37015763.72	37015763.81	0.0135	0.0124
Moon	96647-08-22 12:57 G	37020884.90	37020885.04	37020885.20	0.0135	0.0105
Earth	96647-08-22 15:36 G	37020884.99	37020885.15	37020885.33	0.0135	0.0098 *
Earth	96648-08-25 21:50 G	37021254.17	37021254.41	37021254.66	0.0135	0.0020
Moon	96648-08-26 00:57 G	37021254.29	37021254.54	37021254.80	0.0135	0.0017 *
Moon	96649-08-30 01:26 G	37021623.33	37021623.56	37021623.78	0.0135	0.0056
Earth	96649-08-30 04:04 G	37021623.46	37021623.67	37021623.91	0.0135	0.0059 *
Moon	96650-09-03 13:55 G	37021993.08	37021993.08	37021993.10	0.0135	0.0135
Venus	96655-07-10 07:55 G	37023763.74	37023763.83	37023763.96	0.0136	0.0119
Venus	96656-02-21 14:24 G	37023989.96	37023990.10	37023990.27	0.0136	0.0097
Venus	96656-10-04 20:52 G	37024216.20	37024216.37	37024216.56	0.0137	0.0074
Venus	96657-05-19 03:36 G	37024442.45	37024442.65	37024442.86	0.0137	0.0052
Venus	96657-12-31 10:33 G	37024668.73	37024668.94	37024669.15	0.0137	0.0029
Venus	96658-08-14 17:31 G	37024895.02	37024895.23	37024895.45	0.0137	0.0006
Venus	96659-03-29 00:28 G	37025121.31	37025121.52	37025121.74	0.0137	0.0018
Venus	96659-11-10 07:40 G	37025347.62	37025347.82	37025348.04	0.0138	0.0041

Venus	96660-06-23 15:21 G	37025573.95	37025574.14	37025574.34	0.0138	0.0064
Venus	96661-02-04 23:02 G	37025800.30	37025800.46	37025800.64	0.0138	0.0087
Venus	96661-09-19 07:12 G	37026026.67	37026026.80	37026026.93	0.0138	0.0111
Venus	96662-05-03 14:52 G	37026253.09	37026253.12	37026253.19	0.0138	0.0134
Mars	96667-12-15 08:38 G	37028304.55	37028304.86	37028305.18	0.0140	0.0020
Mercury	96674-03-10 06:57 G	37030581.76	37030581.79	37030581.84	0.0142	0.0135
Mercury	96674-06-06 10:19 G	37030669.86	37030669.93	37030670.02	0.0143	0.0114
Mercury	96674-09-02 13:40 G	37030757.98	37030758.07	37030758.18	0.0143	0.0093
Mercury	96674-11-29 17:16 G	37030846.11	37030846.22	37030846.34	0.0143	0.0071
Mercury	96675-02-25 20:52 G	37030934.25	37030934.37	37030934.49	0.0143	0.0049
Mercury	96675-05-25 00:28 G	37031022.39	37031022.52	37031022.64	0.0143	0.0028
Mercury	96675-08-21 03:50 G	37031110.53	37031110.66	37031110.79	0.0143	0.0006
Mercury	96675-11-17 07:12 G	37031198.67	37031198.80	37031198.93	0.0143	0.0016
Mercury	96676-02-13 10:48 G	37031286.82	37031286.95	37031287.08	0.0143	0.0037
Mercury	96676-05-11 14:09 G	37031374.98	37031375.09	37031375.22	0.0143	0.0059
Mercury	96676-08-07 17:45 G	37031463.13	37031463.24	37031463.35	0.0143	0.0081
Mercury	96676-11-03 21:07 G	37031551.30	37031551.38	37031551.48	0.0143	0.0103
Mercury	96677-01-31 00:43 G	37031639.47	37031639.53	37031639.60	0.0143	0.0125
Moon	96689-02-21 16:04 G	37036043.97	37036044.17	37036044.41	0.0144	0.0083
Earth	96689-02-21 16:33 G	37036044.00	37036044.19	37036044.41	0.0144	0.0088 *
Moon	96690-02-26 18:14 G	37036414.02	37036414.26	37036414.51	0.0143	0.0011
Earth	96690-02-26 19:12 G	37036414.04	37036414.30	37036414.56	0.0143	0.0011 *
Earth	96691-03-03 20:52 G	37036784.21	37036784.37	37036784.55	0.0143	0.0109
Moon	96691-03-03 21:50 G	37036784.24	37036784.41	37036784.60	0.0143	0.0105 *
Venus	96695-10-28 06:57 G	37038483.73	37038483.79	37038483.89	0.0142	0.0132
Venus	96696-06-10 18:28 G	37038710.13	37038710.27	37038710.42	0.0142	0.0106
Venus	96697-01-23 05:31 G	37038936.56	37038936.73	37038936.92	0.0142	0.0081
Venus	96697-09-06 16:04 G	37039162.98	37039163.17	37039163.39	0.0141	0.0056
Venus	96698-04-21 02:52 G	37039389.41	37039389.62	37039389.83	0.0141	0.0029
Venus	96698-12-03 13:12 G	37039615.83	37039616.05	37039616.27	0.0141	0.0004

Venus	96699-07-17 23:02 G	37039842.25	37039842.46	37039842.68	0.0141	0.0022
Venus	96700-03-01 08:52 G	37040068.68	37040068.87	37040069.09	0.0141	0.0047
Venus	96700-10-13 18:28 G	37040295.10	37040295.27	37040295.47	0.0140	0.0071
Venus	96701-05-28 04:04 G	37040521.52	37040521.67	37040521.83	0.0140	0.0095
Venus	96702-01-09 13:26 G	37040747.95	37040748.06	37040748.17	0.0140	0.0119
Mars	96708-07-09 06:57 G	37043120.52	37043120.79	37043121.09	0.0138	0.0042
Mercury	96715-07-02 17:16 G	37045670.13	37045670.22	37045670.34	0.0136	0.0114
Mercury	96715-09-29 01:12 G	37045758.40	37045758.55	37045758.70	0.0136	0.0086
Mercury	96715-12-26 08:38 G	37045846.69	37045846.86	37045847.04	0.0136	0.0058
Mercury	96716-03-23 16:19 G	37045934.99	37045935.18	37045935.37	0.0135	0.0031
Mercury	96716-06-19 23:45 G	37046023.30	37046023.49	37046023.69	0.0135	0.0005
Mercury	96716-09-16 07:26 G	37046111.62	37046111.81	37046112.00	0.0135	0.0024
Mercury	96716-12-13 14:52 G	37046199.94	37046200.12	37046200.30	0.0135	0.0052
Mercury	96717-03-11 22:04 G	37046288.28	37046288.42	37046288.59	0.0135	0.0080
Mercury	96717-06-08 05:45 G	37046376.63	37046376.74	37046376.87	0.0135	0.0106
Mercury	96717-09-04 13:12 G	37046465.03	37046465.05	37046465.09	0.0135	0.0133
Moon	96731-08-24 02:09 G	37051566.42	37051566.59	37051566.80	0.0135	0.0085
Earth	96731-08-24 05:02 G	37051566.54	37051566.71	37051566.91	0.0135	0.0091 *
Earth	96732-08-27 11:16 G	37051935.73	37051935.97	37051936.23	0.0135	0.0013
Moon	96732-08-27 13:55 G	37051935.83	37051936.08	37051936.34	0.0135	0.0018 *
Moon	96733-08-31 15:07 G	37052304.93	37052305.13	37052305.35	0.0135	0.0068
Earth	96733-08-31 18:14 G	37052305.04	37052305.26	37052305.47	0.0135	0.0066 *
Venus	96739-03-10 19:55 G	37054322.25	37054322.33	37054322.42	0.0136	0.0125
Venus	96739-10-23 01:55 G	37054548.46	37054548.58	37054548.73	0.0136	0.0104
Venus	96740-06-05 08:38 G	37054774.69	37054774.86	37054775.03	0.0136	0.0082
Venus	96741-01-17 15:07 G	37055000.94	37055001.13	37055001.33	0.0137	0.0060
Venus	96741-08-31 21:50 G	37055227.21	37055227.41	37055227.62	0.0137	0.0037
Venus	96742-04-15 04:48 G	37055453.48	37055453.70	37055453.91	0.0137	0.0014
Venus	96742-11-27 11:45 G	37055679.77	37055679.99	37055680.21	0.0137	0.0009
Venus	96743-07-11 19:12 G	37055906.09	37055906.30	37055906.51	0.0137	0.0032

Venus	96744-02-23 02:38 G	37056132.41	37056132.61	37056132.81	0.0138	0.0055
Venus	96744-10-06 09:50 G	37056358.75	37056358.91	37056359.10	0.0138	0.0079
Venus	96745-05-20 17:45 G	37056585.10	37056585.24	37056585.40	0.0138	0.0102
Venus	96746-01-02 01:40 G	37056811.50	37056811.57	37056811.68	0.0138	0.0126
Mars	96752-08-11 09:07 G	37059224.71	37059224.88	37059225.09	0.0141	0.0112
Mercury	96758-03-31 14:52 G	37061283.07	37061283.12	37061283.18	0.0142	0.0126
Mercury	96758-06-27 18:28 G	37061371.18	37061371.27	37061371.36	0.0143	0.0105
Mercury	96758-09-23 21:50 G	37061459.31	37061459.41	37061459.52	0.0143	0.0084
Mercury	96758-12-21 01:12 G	37061547.44	37061547.55	37061547.67	0.0143	0.0063
Mercury	96759-03-19 04:48 G	37061635.58	37061635.70	37061635.83	0.0143	0.0041
Mercury	96759-06-15 08:09 G	37061723.72	37061723.84	37061723.98	0.0143	0.0020
Mercury	96759-09-11 11:45 G	37061811.86	37061811.99	37061812.12	0.0143	0.0003
Mercury	96759-12-08 15:07 G	37061900.01	37061900.13	37061900.27	0.0143	0.0025
Mercury	96760-03-05 18:43 G	37061988.16	37061988.28	37061988.41	0.0143	0.0046
Mercury	96760-06-01 22:04 G	37062076.31	37062076.42	37062076.54	0.0143	0.0068
Mercury	96760-08-29 01:40 G	37062164.47	37062164.57	37062164.68	0.0143	0.0090
Mercury	96760-11-25 05:02 G	37062252.64	37062252.71	37062252.80	0.0143	0.0112
Mercury	96761-02-21 08:38 G	37062340.82	37062340.86	37062340.91	0.0143	0.0134
Moon	96773-02-23 05:16 G	37066725.53	37066725.72	37066725.96	0.0144	0.0085
Earth	96773-02-23 06:00 G	37066725.56	37066725.75	37066725.99	0.0144	0.0080 *
Earth	96774-02-28 08:38 G	37067095.60	37067095.86	37067096.12	0.0143	0.0019
Moon	96774-02-28 08:52 G	37067095.63	37067095.87	37067096.12	0.0143	0.0021 *
Earth	96775-03-05 10:19 G	37067465.80	37067465.93	37067466.09	0.0143	0.0117
Moon	96775-03-05 11:16 G	37067465.85	37067465.97	37067466.13	0.0143	0.0122 *
Venus	96779-06-28 15:50 G	37069042.15	37069042.16	37069042.18	0.0142	0.0141
Venus	96780-02-10 02:52 G	37069268.51	37069268.62	37069268.76	0.0142	0.0116
Venus	96780-09-23 13:55 G	37069494.93	37069495.08	37069495.26	0.0142	0.0091
Venus	96781-05-08 00:57 G	37069721.35	37069721.54	37069721.74	0.0142	0.0065
Venus	96781-12-20 11:31 G	37069947.78	37069947.98	37069948.20	0.0141	0.0039
Venus	96782-08-03 22:04 G	37070174.20	37070174.42	37070174.64	0.0141	0.0014

Venus	96783-03-18 08:09 G	37070400.63	37070400.84	37070401.06	0.0141	0.0012
Venus	96783-10-30 18:00 G	37070627.05	37070627.25	37070627.47	0.0141	0.0037
Venus	96784-06-13 03:36 G	37070853.47	37070853.65	37070853.86	0.0141	0.0062
Venus	96785-01-25 13:12 G	37071079.90	37071080.05	37071080.24	0.0140	0.0087
Venus	96785-09-08 22:33 G	37071306.32	37071306.44	37071306.59	0.0140	0.0110
Venus	96786-04-23 07:40 G	37071532.78	37071532.82	37071532.90	0.0140	0.0134
Mars	96791-04-03 06:00 G	37073338.61	37073338.75	37073338.92	0.0138	0.0117
Mercury	96799-04-25 17:31 G	37076283.20	37076283.23	37076283.29	0.0136	0.0132
Mercury	96799-07-23 01:26 G	37076371.44	37076371.56	37076371.69	0.0136	0.0104
Mercury	96799-10-19 09:07 G	37076459.72	37076459.88	37076460.04	0.0136	0.0076
Mercury	96800-01-15 16:33 G	37076548.02	37076548.19	37076548.38	0.0135	0.0049
Mercury	96800-04-13 00:14 G	37076636.32	37076636.51	37076636.71	0.0135	0.0021
Mercury	96800-07-10 07:55 G	37076724.63	37076724.83	37076725.02	0.0135	0.0007
Mercury	96800-10-06 15:21 G	37076812.96	37076813.14	37076813.33	0.0135	0.0034
Mercury	96801-01-02 22:48 G	37076901.28	37076901.45	37076901.63	0.0135	0.0062
Mercury	96801-04-01 06:14 G	37076989.62	37076989.76	37076989.92	0.0135	0.0089
Mercury	96801-06-28 13:40 G	37077077.99	37077078.07	37077078.18	0.0135	0.0116
Moon	96815-08-24 17:02 G	37082248.03	37082248.21	37082248.39	0.0135	0.0090
Earth	96815-08-24 18:43 G	37082248.09	37082248.28	37082248.49	0.0135	0.0083 *
Earth	96816-08-28 01:12 G	37082617.30	37082617.55	37082617.80	0.0135	0.0005
Moon	96816-08-28 03:50 G	37082617.40	37082617.66	37082617.92	0.0135	0.0001 *
Moon	96817-09-01 05:16 G	37082986.53	37082986.72	37082986.94	0.0135	0.0072
Earth	96817-09-01 07:40 G	37082986.63	37082986.82	37082987.04	0.0135	0.0075 *
Venus	96822-11-08 06:57 G	37084880.77	37084880.79	37084880.86	0.0136	0.0134
Venus	96823-06-22 13:26 G	37085106.95	37085107.06	37085107.19	0.0136	0.0112
Venus	96824-02-03 19:55 G	37085333.17	37085333.33	37085333.49	0.0136	0.0090
Venus	96824-09-17 02:09 G	37085559.41	37085559.59	37085559.79	0.0137	0.0068
Venus	96825-05-01 08:38 G	37085785.67	37085785.86	37085786.08	0.0137	0.0046
Venus	96825-12-13 15:36 G	37086011.94	37086012.15	37086012.37	0.0137	0.0023
Venus	96826-07-27 22:48 G	37086238.23	37086238.45	37086238.67	0.0137	0.0001

Venus	96827-03-11 05:45 G	37086464.53	37086464.74	37086464.96	0.0137	0.0023
Venus	96827-10-23 12:57 G	37086690.85	37086691.04	37086691.25	0.0138	0.0046
Venus	96828-06-05 20:24 G	37086917.18	37086917.35	37086917.55	0.0138	0.0070
Venus	96829-01-18 04:04 G	37087143.53	37087143.67	37087143.85	0.0138	0.0093
Venus	96829-09-01 12:14 G	37087369.91	37087370.01	37087370.14	0.0138	0.0116
Mars	96835-05-04 00:43 G	37089440.28	37089440.53	37089440.82	0.0140	0.0074
Mercury	96842-01-22 19:26 G	37091896.29	37091896.31	37091896.33	0.0142	0.0140
Mercury	96842-04-20 22:33 G	37091984.38	37091984.44	37091984.52	0.0142	0.0119
Mercury	96842-07-18 02:09 G	37092072.50	37092072.59	37092072.69	0.0142	0.0097
Mercury	96842-10-14 05:45 G	37092160.63	37092160.74	37092160.85	0.0143	0.0076
Mercury	96843-01-10 09:07 G	37092248.76	37092248.88	37092249.00	0.0143	0.0054
Mercury	96843-04-08 12:28 G	37092336.90	37092337.02	37092337.15	0.0143	0.0033
Mercury	96843-07-05 16:04 G	37092425.04	37092425.17	37092425.30	0.0143	0.0011
Mercury	96843-10-01 19:26 G	37092513.18	37092513.31	37092513.45	0.0143	0.0012
Mercury	96843-12-28 23:02 G	37092601.33	37092601.46	37092601.59	0.0143	0.0032
Mercury	96844-03-26 02:38 G	37092689.48	37092689.61	37092689.73	0.0143	0.0054
Mercury	96844-06-22 06:00 G	37092777.64	37092777.75	37092777.86	0.0143	0.0076
Mercury	96844-09-18 09:21 G	37092865.80	37092865.89	37092865.99	0.0143	0.0098
Mercury	96844-12-15 12:57 G	37092953.98	37092954.04	37092954.12	0.0143	0.0120
Mercury	96845-03-13 16:19 G	37093042.18	37093042.18	37093042.21	0.0143	0.0142
Moon	96857-02-23 18:43 G	37097407.05	37097407.28	37097407.52	0.0144	0.0065
Earth	96857-02-23 20:09 G	37097407.13	37097407.34	37097407.57	0.0144	0.0071 *
Earth	96858-02-28 22:33 G	37097777.20	37097777.44	37097777.70	0.0143	0.0029
Moon	96858-02-28 23:02 G	37097777.22	37097777.46	37097777.71	0.0143	0.0027 *
Moon	96859-03-06 00:28 G	37098147.40	37098147.52	37098147.66	0.0143	0.0124
Earth	96859-03-06 00:28 G	37098147.42	37098147.52	37098147.66	0.0143	0.0127 *
Venus	96863-10-10 12:14 G	37099826.92	37099827.01	37099827.12	0.0142	0.0125
Venus	96864-05-23 23:16 G	37100053.32	37100053.47	37100053.63	0.0142	0.0100
Venus	96865-01-05 10:33 G	37100279.75	37100279.94	37100280.12	0.0142	0.0074
Venus	96865-08-19 21:07 G	37100506.18	37100506.38	37100506.59	0.0142	0.0049

Venus	96866-04-03 07:40 G	37100732.60	37100732.82	37100733.03	0.0141	0.0023
Venus	96866-11-15 17:45 G	37100959.03	37100959.24	37100959.46	0.0141	0.0004
Venus	96867-06-30 03:50 G	37101185.45	37101185.66	37101185.88	0.0141	0.0027
Venus	96868-02-11 13:55 G	37101411.88	37101412.08	37101412.29	0.0141	0.0052
Venus	96868-09-24 23:31 G	37101638.31	37101638.48	37101638.67	0.0140	0.0077
Venus	96869-05-09 09:07 G	37101864.73	37101864.88	37101865.03	0.0140	0.0101
Venus	96869-12-21 18:28 G	37102091.17	37102091.27	37102091.37	0.0140	0.0124
Mars	96875-11-27 07:55 G	37104257.53	37104257.83	37104258.12	0.0138	0.0003
Mercury	96883-05-16 02:09 G	37106984.51	37106984.59	37106984.69	0.0136	0.0120
Mercury	96883-08-12 09:36 G	37107072.77	37107072.90	37107073.06	0.0136	0.0093
Mercury	96883-11-08 17:31 G	37107161.06	37107161.23	37107161.41	0.0135	0.0064
Mercury	96884-02-05 01:12 G	37107249.36	37107249.55	37107249.74	0.0135	0.0037
Mercury	96884-05-03 08:52 G	37107337.67	37107337.87	37107338.06	0.0135	0.0009
Mercury	96884-07-30 16:19 G	37107425.99	37107426.18	37107426.38	0.0135	0.0019
Mercury	96884-10-26 23:45 G	37107514.31	37107514.49	37107514.68	0.0135	0.0046
Mercury	96885-01-23 07:12 G	37107602.65	37107602.80	37107602.97	0.0135	0.0074
Mercury	96885-04-21 14:52 G	37107690.99	37107691.12	37107691.25	0.0135	0.0101
Mercury	96885-07-18 22:04 G	37107779.37	37107779.42	37107779.50	0.0135	0.0128
Moon	96899-08-25 06:57 G	37112929.59	37112929.79	37112930.01	0.0135	0.0069
Earth	96899-08-25 08:52 G	37112929.68	37112929.87	37112930.09	0.0135	0.0076 *
Earth	96900-08-29 15:36 G	37113298.90	37113299.15	37113299.40	0.0135	0.0004
Moon	96900-08-29 17:16 G	37113298.96	37113299.22	37113299.48	0.0135	0.0002 *
Moon	96901-09-02 19:55 G	37113668.15	37113668.33	37113668.53	0.0135	0.0085
Earth	96901-09-02 21:50 G	37113668.23	37113668.41	37113668.62	0.0135	0.0083 *
Venus	96907-02-21 00:57 G	37115665.46	37115665.54	37115665.66	0.0136	0.0119
Venus	96907-10-05 07:26 G	37115891.67	37115891.81	37115891.97	0.0136	0.0097
Venus	96908-05-18 13:40 G	37116117.90	37116118.07	37116118.26	0.0136	0.0076
Venus	96908-12-30 20:09 G	37116344.15	37116344.34	37116344.55	0.0137	0.0054
Venus	96909-08-14 03:07 G	37116570.42	37116570.63	37116570.84	0.0137	0.0031
Venus	96910-03-28 09:50 G	37116796.70	37116796.91	37116797.13	0.0137	0.0009

Venus	96910-11-09 17:02 G	37117022.99	37117023.21	37117023.42	0.0137	0.0015
Venus	96911-06-24 00:14 G	37117249.30	37117249.51	37117249.72	0.0137	0.0038
Venus	96912-02-05 07:40 G	37117475.63	37117475.82	37117476.02	0.0138	0.0061
Venus	96912-09-18 15:07 G	37117701.97	37117702.13	37117702.31	0.0138	0.0084
Venus	96913-05-02 23:02 G	37117928.33	37117928.46	37117928.61	0.0138	0.0107
Venus	96913-12-15 06:57 G	37118154.74	37118154.79	37118154.88	0.0138	0.0131
Mars	96919-12-29 23:31 G	37120360.21	37120360.48	37120360.79	0.0140	0.0058
Mercury	96926-02-13 03:07 G	37122597.59	37122597.63	37122597.69	0.0142	0.0131
Mercury	96926-05-12 06:43 G	37122685.70	37122685.78	37122685.86	0.0142	0.0110
Mercury	96926-08-08 10:04 G	37122773.82	37122773.92	37122774.03	0.0143	0.0089
Mercury	96926-11-04 13:40 G	37122861.95	37122862.07	37122862.19	0.0143	0.0067
Mercury	96927-01-31 17:02 G	37122950.09	37122950.21	37122950.34	0.0143	0.0046
Mercury	96927-04-29 20:38 G	37123038.23	37123038.36	37123038.49	0.0143	0.0024
Mercury	96927-07-27 00:00 G	37123126.37	37123126.50	37123126.63	0.0143	0.0004
Mercury	96927-10-23 03:36 G	37123214.52	37123214.65	37123214.78	0.0143	0.0020
Mercury	96928-01-19 06:57 G	37123302.67	37123302.79	37123302.92	0.0143	0.0042
Mercury	96928-04-16 10:33 G	37123390.82	37123390.94	37123391.06	0.0143	0.0063
Mercury	96928-07-13 13:55 G	37123478.98	37123479.08	37123479.19	0.0143	0.0085
Mercury	96928-10-09 17:31 G	37123567.15	37123567.23	37123567.32	0.0143	0.0107
Mercury	96929-01-05 20:52 G	37123655.33	37123655.37	37123655.44	0.0143	0.0129
Moon	96941-02-25 10:04 G	37128088.70	37128088.92	37128089.17	0.0144	0.0067
Earth	96941-02-25 12:00 G	37128088.77	37128089.00	37128089.24	0.0144	0.0061 *
Earth	96942-03-02 14:24 G	37128458.86	37128459.10	37128459.36	0.0143	0.0039
Moon	96942-03-02 15:36 G	37128458.92	37128459.15	37128459.40	0.0143	0.0042 *
Earth	96943-03-07 16:04 G	37128829.13	37128829.17	37128829.27	0.0143	0.0138
Moon	96943-03-07 16:04 G	37128829.14	37128829.17	37128829.25	0.0143	0.0141 *
Venus	96947-06-10 22:33 G	37130385.37	37130385.44	37130385.51	0.0142	0.0134
Venus	96948-01-23 09:50 G	37130611.77	37130611.91	37130612.05	0.0142	0.0108
Venus	96948-09-05 20:38 G	37130838.19	37130838.36	37130838.55	0.0142	0.0083
Venus	96949-04-20 07:26 G	37131064.62	37131064.81	37131065.02	0.0142	0.0058

Venus	96949-12-02 18:14 G	37131291.05	37131291.26	37131291.47	0.0141	0.0032
Venus	96950-07-17 04:33 G	37131517.48	37131517.69	37131517.91	0.0141	0.0007
Venus	96951-02-28 14:52 G	37131743.91	37131744.12	37131744.34	0.0141	0.0019
Venus	96951-10-13 00:43 G	37131970.33	37131970.53	37131970.75	0.0141	0.0044
Venus	96952-05-26 10:48 G	37132196.76	37132196.95	37132197.14	0.0141	0.0068
Venus	96953-01-07 20:09 G	37132423.19	37132423.34	37132423.51	0.0140	0.0093
Venus	96953-08-22 05:31 G	37132649.62	37132649.73	37132649.86	0.0140	0.0116
Venus	96954-04-05 14:52 G	37132876.12	37132876.12	37132876.14	0.0140	0.0140
Mars	96960-07-23 08:38 G	37135176.71	37135176.86	37135177.05	0.0138	0.0113
Mercury	96967-03-10 03:21 G	37137597.63	37137597.64	37137597.66	0.0136	0.0135
Mercury	96967-06-06 10:48 G	37137685.84	37137685.95	37137686.08	0.0136	0.0108
Mercury	96967-09-02 18:28 G	37137774.12	37137774.27	37137774.44	0.0135	0.0080
Mercury	96967-11-30 02:24 G	37137862.42	37137862.60	37137862.78	0.0135	0.0052
Mercury	96968-02-26 09:50 G	37137950.72	37137950.91	37137951.11	0.0135	0.0024
Mercury	96968-05-24 17:31 G	37138039.03	37138039.23	37138039.43	0.0135	0.0004
Mercury	96968-08-21 00:57 G	37138127.36	37138127.54	37138127.74	0.0135	0.0031
Mercury	96968-11-17 08:38 G	37138215.68	37138215.86	37138216.04	0.0135	0.0058
Mercury	96969-02-13 15:50 G	37138304.02	37138304.16	37138304.32	0.0135	0.0086
Mercury	96969-05-12 23:16 G	37138392.38	37138392.47	37138392.59	0.0135	0.0113
Moon	96983-08-26 22:04 G	37143611.23	37143611.42	37143611.63	0.0134	0.0075
Earth	96983-08-26 22:48 G	37143611.25	37143611.45	37143611.68	0.0134	0.0068 *
Earth	96984-08-30 05:16 G	37143980.48	37143980.72	37143980.98	0.0135	0.0012
Moon	96984-08-30 06:57 G	37143980.54	37143980.79	37143981.05	0.0135	0.0016 *
Moon	96985-09-03 10:19 G	37144349.76	37144349.93	37144350.13	0.0135	0.0087
Earth	96985-09-03 11:31 G	37144349.81	37144349.98	37144350.18	0.0135	0.0091 *
Venus	96990-10-21 12:14 G	37146223.95	37146224.01	37146224.10	0.0136	0.0126
Venus	96991-06-04 18:14 G	37146450.14	37146450.26	37146450.41	0.0136	0.0105
Venus	96992-01-17 00:43 G	37146676.37	37146676.53	37146676.71	0.0136	0.0083
Venus	96992-08-30 06:57 G	37146902.61	37146902.79	37146902.99	0.0136	0.0062
Venus	96993-04-13 13:26 G	37147128.87	37147129.06	37147129.28	0.0137	0.0040

Venus	96993-11-25 20:24 G	37147355.14	37147355.35	37147355.57	0.0137	0.0017
Venus	96994-07-10 03:21 G	37147581.43	37147581.64	37147581.86	0.0137	0.0007
Venus	96995-02-21 10:19 G	37147807.73	37147807.93	37147808.15	0.0137	0.0030
Venus	96995-10-05 17:45 G	37148034.04	37148034.24	37148034.45	0.0137	0.0052
Venus	96996-05-19 01:12 G	37148260.38	37148260.55	37148260.74	0.0138	0.0075
Venus	96996-12-31 08:38 G	37148486.73	37148486.86	37148487.03	0.0138	0.0098
Venus	96997-08-14 16:33 G	37148713.11	37148713.19	37148713.32	0.0138	0.0121

98TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 98th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	97002-09-21 15:36 G		37150576.05	37150576.15	37150576.31	0.0140	0.0128	
Mercury	97010-03-06 10:33 G		37153298.89	37153298.94	37153299.01	0.0142	0.0125	
Mercury	97010-06-02 14:09 G		37153387.00	37153387.09	37153387.18	0.0142	0.0104	
Mercury	97010-08-29 17:31 G		37153475.13	37153475.23	37153475.34	0.0143	0.0083	
Mercury	97010-11-25 21:07 G		37153563.26	37153563.38	37153563.50	0.0143	0.0061	
Mercury	97011-02-22 00:28 G		37153651.40	37153651.52	37153651.65	0.0143	0.0040	
Mercury	97011-05-21 04:04 G		37153739.54	37153739.67	37153739.80	0.0143	0.0018	
Mercury	97011-08-17 07:26 G		37153827.68	37153827.81	37153827.94	0.0143	0.0005	
Mercury	97011-11-13 11:02 G		37153915.83	37153915.96	37153916.09	0.0143	0.0026	
Mercury	97012-02-09 14:24 G		37154003.98	37154004.10	37154004.23	0.0143	0.0047	
Mercury	97012-05-07 18:00 G		37154092.13	37154092.25	37154092.36	0.0143	0.0069	
Mercury	97012-08-03 21:21 G		37154180.29	37154180.39	37154180.50	0.0143	0.0091	

Mercury	97012-10-31 00:43 G	37154268.46	37154268.53	37154268.62	0.0143	0.0113
Mercury	97013-01-27 04:19 G	37154356.65	37154356.68	37154356.73	0.0143	0.0135
Moon	97025-02-26 20:38 G	37158770.12	37158770.36	37158770.62	0.0144	0.0048
Earth	97025-02-26 23:02 G	37158770.24	37158770.46	37158770.71	0.0144	0.0055 *
Earth	97026-03-04 01:40 G	37159140.34	37159140.57	37159140.83	0.0143	0.0046
Moon	97026-03-04 03:07 G	37159140.41	37159140.63	37159140.88	0.0143	0.0044 *
Moon	97027-03-09 02:24 G	37159510.59	37159510.60	37159510.66	0.0143	0.0143
Venus	97031-09-23 17:31 G	37161170.12	37161170.23	37161170.37	0.0142	0.0118
Venus	97032-05-07 05:02 G	37161396.54	37161396.71	37161396.88	0.0142	0.0092
Venus	97032-12-19 15:50 G	37161622.98	37161623.16	37161623.36	0.0142	0.0067
Venus	97033-08-03 02:38 G	37161849.41	37161849.61	37161849.83	0.0142	0.0042
Venus	97034-03-17 13:26 G	37162075.84	37162076.06	37162076.28	0.0141	0.0016
Venus	97034-10-30 00:00 G	37162302.28	37162302.50	37162302.71	0.0141	0.0010
Venus	97035-06-13 10:04 G	37162528.71	37162528.92	37162529.13	0.0141	0.0034
Venus	97036-01-25 20:09 G	37162755.15	37162755.34	37162755.54	0.0141	0.0059
Venus	97036-09-08 05:45 G	37162981.58	37162981.74	37162981.93	0.0141	0.0084
Venus	97037-04-22 15:21 G	37163208.01	37163208.14	37163208.29	0.0140	0.0107
Venus	97037-12-05 00:28 G	37163434.47	37163434.52	37163434.62	0.0140	0.0132
Mars	97043-04-18 10:04 G	37165394.64	37165394.92	37165395.20	0.0138	0.0044
Mercury	97051-03-31 11:45 G	37168298.93	37168298.99	37168299.09	0.0136	0.0123
Mercury	97051-06-27 19:40 G	37168387.19	37168387.32	37168387.46	0.0136	0.0095
Mercury	97051-09-24 03:07 G	37168475.47	37168475.63	37168475.81	0.0135	0.0068
Mercury	97051-12-21 10:48 G	37168563.77	37168563.95	37168564.15	0.0135	0.0040
Mercury	97052-03-18 18:28 G	37168652.08	37168652.27	37168652.47	0.0135	0.0012
Mercury	97052-06-15 02:09 G	37168740.40	37168740.59	37168740.79	0.0135	0.0016
Mercury	97052-09-11 09:36 G	37168828.72	37168828.90	37168829.09	0.0135	0.0044
Mercury	97052-12-08 17:16 G	37168917.05	37168917.22	37168917.39	0.0135	0.0071
Mercury	97053-03-07 00:28 G	37169005.40	37169005.52	37169005.67	0.0135	0.0098
Mercury	97053-06-03 07:55 G	37169093.78	37169093.83	37169093.92	0.0135	0.0126
Moon	97067-08-28 12:00 G	37174292.79	37174293.00	37174293.23	0.0134	0.0054

Earth	97067-08-28 12:43 G	37174292.82	37174293.03	37174293.27	0.0134	0.0061	*
Earth	97068-08-31 19:12 G	37174662.06	37174662.30	37174662.55	0.0135	0.0019	
Moon	97068-08-31 19:40 G	37174662.07	37174662.32	37174662.59	0.0135	0.0013	*
Moon	97069-09-05 00:00 G	37175031.37	37175031.50	37175031.68	0.0135	0.0102	
Earth	97069-09-05 01:12 G	37175031.39	37175031.55	37175031.74	0.0135	0.0098	*
Venus	97074-06-21 23:45 G	37176782.46	37176782.49	37176782.54	0.0136	0.0133	
Venus	97075-02-03 05:31 G	37177008.62	37177008.73	37177008.86	0.0136	0.0112	
Venus	97075-09-17 11:31 G	37177234.84	37177234.98	37177235.16	0.0136	0.0091	
Venus	97076-04-30 17:45 G	37177461.07	37177461.24	37177461.44	0.0136	0.0069	
Venus	97076-12-13 00:14 G	37177687.32	37177687.51	37177687.72	0.0136	0.0047	
Venus	97077-07-27 07:12 G	37177913.59	37177913.80	37177914.01	0.0137	0.0025	
Venus	97078-03-10 13:55 G	37178139.87	37178140.08	37178140.30	0.0137	0.0003	
Venus	97078-10-22 20:52 G	37178366.16	37178366.37	37178366.59	0.0137	0.0020	
Venus	97079-06-06 03:50 G	37178592.46	37178592.66	37178592.88	0.0137	0.0043	
Venus	97080-01-18 11:16 G	37178818.79	37178818.97	37178819.17	0.0137	0.0066	
Venus	97080-08-31 18:57 G	37179045.13	37179045.29	37179045.46	0.0138	0.0089	
Venus	97081-04-15 02:24 G	37179271.49	37179271.60	37179271.75	0.0138	0.0112	
Venus	97081-11-27 10:33 G	37179497.90	37179497.94	37179498.00	0.0138	0.0134	
Mars	97087-05-18 06:57 G	37181495.47	37181495.79	37181496.11	0.0140	0.0005	
Mercury	97093-12-28 14:38 G	37183912.10	37183912.11	37183912.13	0.0142	0.0140	
Mercury	97094-03-26 18:00 G	37184000.19	37184000.25	37184000.33	0.0142	0.0119	
Mercury	97094-06-22 21:36 G	37184088.31	37184088.40	37184088.49	0.0142	0.0098	
Mercury	97094-09-19 00:57 G	37184176.43	37184176.54	37184176.65	0.0143	0.0077	
Mercury	97094-12-16 04:19 G	37184264.57	37184264.68	37184264.81	0.0143	0.0056	
Mercury	97095-03-14 07:55 G	37184352.70	37184352.83	37184352.96	0.0143	0.0034	
Mercury	97095-06-10 11:31 G	37184440.84	37184440.98	37184441.11	0.0143	0.0013	
Mercury	97095-09-06 14:52 G	37184528.99	37184529.12	37184529.25	0.0143	0.0010	
Mercury	97095-12-03 18:14 G	37184617.14	37184617.26	37184617.39	0.0143	0.0032	
Mercury	97096-02-29 21:50 G	37184705.29	37184705.41	37184705.53	0.0143	0.0053	
Mercury	97096-05-28 01:12 G	37184793.44	37184793.55	37184793.67	0.0143	0.0075	

Mercury	97096-08-24 04:33 G	37184881.61	37184881.69	37184881.80	0.0143	0.0097
Mercury	97096-11-20 08:24 G	37184969.78	37184969.85	37184969.92	0.0143	0.0119
Mercury	97097-02-16 11:45 G	37185057.97	37185057.99	37185058.02	0.0143	0.0141
Moon	97108-02-24 09:36 G	37189081.89	37189081.90	37189081.97	0.0144	0.0142
Moon	97109-02-28 07:12 G	37189451.56	37189451.80	37189452.04	0.0144	0.0056
Earth	97109-02-28 10:04 G	37189451.68	37189451.92	37189452.16	0.0144	0.0049 *
Earth	97110-03-05 12:28 G	37189821.79	37189822.02	37189822.27	0.0144	0.0051
Moon	97110-03-05 15:07 G	37189821.90	37189822.13	37189822.37	0.0144	0.0055 *
Venus	97115-05-25 00:43 G	37191728.44	37191728.53	37191728.63	0.0142	0.0128
Venus	97116-01-06 12:14 G	37191954.86	37191955.01	37191955.16	0.0142	0.0102
Venus	97116-08-19 23:16 G	37192181.29	37192181.47	37192181.66	0.0142	0.0077
Venus	97117-04-03 10:04 G	37192407.73	37192407.92	37192408.14	0.0142	0.0052
Venus	97117-11-15 21:07 G	37192634.17	37192634.38	37192634.60	0.0142	0.0026
Venus	97118-06-30 07:40 G	37192860.61	37192860.82	37192861.04	0.0141	0.0003
Venus	97119-02-11 18:14 G	37193087.05	37193087.26	37193087.48	0.0141	0.0025
Venus	97119-09-26 04:33 G	37193313.49	37193313.69	37193313.90	0.0141	0.0049
Venus	97120-05-09 14:24 G	37193539.92	37193540.10	37193540.29	0.0141	0.0074
Venus	97120-12-22 00:14 G	37193766.36	37193766.51	37193766.67	0.0141	0.0098
Venus	97121-08-05 09:50 G	37193992.81	37193992.91	37193993.02	0.0140	0.0122
Mars	97127-12-13 07:55 G	37196313.58	37196313.83	37196314.10	0.0138	0.0068
Mercury	97135-04-21 20:09 G	37199000.24	37199000.34	37199000.46	0.0136	0.0112
Mercury	97135-07-19 03:50 G	37199088.52	37199088.66	37199088.82	0.0136	0.0084
Mercury	97135-10-15 11:45 G	37199176.81	37199176.99	37199177.17	0.0136	0.0056
Mercury	97136-01-11 19:12 G	37199265.11	37199265.30	37199265.50	0.0135	0.0029
Mercury	97136-04-09 02:52 G	37199353.43	37199353.62	37199353.82	0.0135	0.0002
Mercury	97136-07-06 10:19 G	37199441.75	37199441.93	37199442.13	0.0135	0.0027
Mercury	97136-10-02 18:00 G	37199530.07	37199530.25	37199530.43	0.0135	0.0054
Mercury	97136-12-30 01:12 G	37199618.41	37199618.55	37199618.72	0.0135	0.0083
Mercury	97137-03-28 08:52 G	37199706.77	37199706.87	37199706.99	0.0135	0.0109
Moon	97150-08-25 21:21 G	37204605.30	37204605.39	37204605.50	0.0134	0.0123

Earth	97150-08-25 21:21 G	37204605.34	37204605.39	37204605.44	0.0134	0.0131	*
Earth	97151-08-30 03:07 G	37204974.41	37204974.63	37204974.87	0.0134	0.0052	
Moon	97151-08-30 03:21 G	37204974.43	37204974.64	37204974.86	0.0134	0.0059	*
Earth	97152-09-02 09:07 G	37205343.64	37205343.88	37205344.13	0.0134	0.0027	
Moon	97152-09-02 09:21 G	37205343.65	37205343.89	37205344.16	0.0134	0.0033	*
Moon	97153-09-06 14:38 G	37205712.98	37205713.11	37205713.29	0.0135	0.0102	
Earth	97153-09-06 15:07 G	37205712.99	37205713.13	37205713.29	0.0135	0.0106	*
Venus	97158-10-04 17:02 G	37207567.12	37207567.21	37207567.32	0.0136	0.0119	
Venus	97159-05-18 22:48 G	37207793.32	37207793.45	37207793.62	0.0136	0.0098	
Venus	97159-12-31 05:16 G	37208019.54	37208019.72	37208019.90	0.0136	0.0076	
Venus	97160-08-13 11:45 G	37208245.79	37208245.99	37208246.19	0.0136	0.0054	
Venus	97161-03-27 18:14 G	37208472.05	37208472.26	37208472.47	0.0136	0.0033	
Venus	97161-11-09 00:43 G	37208698.32	37208698.53	37208698.75	0.0137	0.0011	
Venus	97162-06-23 07:40 G	37208924.60	37208924.82	37208925.04	0.0137	0.0012	
Venus	97163-02-04 14:38 G	37209150.90	37209151.11	37209151.32	0.0137	0.0035	
Venus	97163-09-18 21:50 G	37209377.22	37209377.41	37209377.61	0.0137	0.0057	
Venus	97164-05-02 05:02 G	37209603.54	37209603.71	37209603.90	0.0137	0.0080	
Venus	97164-12-14 12:28 G	37209829.89	37209830.02	37209830.18	0.0138	0.0103	
Venus	97165-07-28 20:38 G	37210056.27	37210056.36	37210056.45	0.0138	0.0125	
Mars	97172-01-12 20:52 G	37212415.23	37212415.37	37212415.57	0.0140	0.0120	
Mercury	97178-01-18 21:50 G	37214613.38	37214613.41	37214613.45	0.0142	0.0136	
Mercury	97178-04-17 01:12 G	37214701.48	37214701.55	37214701.63	0.0142	0.0114	
Mercury	97178-07-14 04:33 G	37214789.60	37214789.69	37214789.80	0.0142	0.0094	
Mercury	97178-10-10 08:09 G	37214877.73	37214877.84	37214877.95	0.0142	0.0072	
Mercury	97179-01-06 11:31 G	37214965.86	37214965.98	37214966.11	0.0142	0.0051	
Mercury	97179-04-04 15:07 G	37215054.00	37215054.13	37215054.26	0.0143	0.0029	
Mercury	97179-07-01 18:28 G	37215142.14	37215142.27	37215142.40	0.0143	0.0008	
Mercury	97179-09-27 22:04 G	37215230.29	37215230.42	37215230.55	0.0143	0.0014	
Mercury	97179-12-25 01:26 G	37215318.44	37215318.56	37215318.69	0.0143	0.0036	
Mercury	97180-03-22 04:48 G	37215406.59	37215406.70	37215406.83	0.0143	0.0058	

Mercury	97180-06-18 08:24 G	37215494.74	37215494.85	37215494.96	0.0143	0.0079
Mercury	97180-09-14 11:45 G	37215582.91	37215582.99	37215583.09	0.0143	0.0101
Mercury	97180-12-11 15:07 G	37215671.08	37215671.13	37215671.21	0.0143	0.0123
Moon	97193-02-28 13:40 G	37220132.83	37220133.07	37220133.33	0.0144	0.0039
Earth	97193-02-28 17:02 G	37220132.98	37220133.21	37220133.47	0.0144	0.0047 *
Earth	97194-03-05 19:55 G	37220503.09	37220503.33	37220503.57	0.0144	0.0054
Moon	97194-03-05 22:19 G	37220503.21	37220503.43	37220503.68	0.0144	0.0051 *
Venus	97199-01-22 05:45 G	37222286.70	37222286.74	37222286.79	0.0143	0.0139
Venus	97199-09-05 17:16 G	37222513.10	37222513.22	37222513.36	0.0142	0.0114
Venus	97200-04-19 04:33 G	37222739.53	37222739.69	37222739.87	0.0142	0.0088
Venus	97200-12-01 15:36 G	37222965.96	37222966.15	37222966.36	0.0142	0.0063
Venus	97201-07-16 02:52 G	37223192.41	37223192.62	37223192.83	0.0142	0.0037
Venus	97202-02-27 13:40 G	37223418.85	37223419.07	37223419.29	0.0142	0.0012
Venus	97202-10-12 00:14 G	37223645.30	37223645.51	37223645.73	0.0141	0.0014
Venus	97203-05-26 10:33 G	37223871.74	37223871.94	37223872.16	0.0141	0.0039
Venus	97204-01-07 20:52 G	37224098.18	37224098.37	37224098.57	0.0141	0.0063
Venus	97204-08-21 06:43 G	37224324.62	37224324.78	37224324.96	0.0141	0.0088
Venus	97205-04-04 16:19 G	37224551.07	37224551.18	37224551.33	0.0140	0.0112
Venus	97205-11-17 02:09 G	37224777.54	37224777.59	37224777.66	0.0140	0.0135
Mars	97210-09-05 20:38 G	37226531.16	37226531.36	37226531.58	0.0139	0.0099
Mercury	97219-02-12 20:09 G	37229613.30	37229613.34	37229613.40	0.0136	0.0131
Mercury	97219-05-12 03:50 G	37229701.54	37229701.66	37229701.80	0.0136	0.0103
Mercury	97219-08-08 11:45 G	37229789.83	37229789.99	37229790.15	0.0136	0.0075
Mercury	97219-11-04 19:12 G	37229878.13	37229878.30	37229878.49	0.0136	0.0048
Mercury	97220-02-01 02:52 G	37229966.43	37229966.62	37229966.82	0.0136	0.0020
Mercury	97220-04-29 10:33 G	37230054.75	37230054.94	37230055.14	0.0136	0.0009
Mercury	97220-07-26 18:14 G	37230143.07	37230143.26	37230143.45	0.0136	0.0036
Mercury	97220-10-23 01:40 G	37230231.40	37230231.57	37230231.75	0.0135	0.0063
Mercury	97221-01-19 09:21 G	37230319.75	37230319.89	37230320.03	0.0135	0.0091
Mercury	97221-04-17 16:33 G	37230408.11	37230408.19	37230408.30	0.0135	0.0118

Moon	97234-08-26 09:36 G	37235286.85	37235286.90	37235286.99	0.0134	0.0129
Earth	97234-08-26 10:33 G	37235286.86	37235286.94	37235287.06	0.0134	0.0123 *
Earth	97235-08-30 16:48 G	37235655.97	37235656.20	37235656.44	0.0134	0.0045
Moon	97235-08-30 17:02 G	37235655.98	37235656.21	37235656.44	0.0134	0.0038 *
Moon	97236-09-02 22:04 G	37236025.17	37236025.42	37236025.68	0.0135	0.0028
Earth	97236-09-02 22:48 G	37236025.21	37236025.45	37236025.69	0.0135	0.0035 *
Earth	97237-09-07 04:19 G	37236394.57	37236394.68	37236394.84	0.0135	0.0114
Moon	97237-09-07 04:33 G	37236394.60	37236394.69	37236394.83	0.0135	0.0119 *
Venus	97242-06-04 04:48 G	37238125.64	37238125.70	37238125.79	0.0136	0.0126
Venus	97243-01-16 10:48 G	37238351.83	37238351.95	37238352.10	0.0136	0.0105
Venus	97243-08-30 17:02 G	37238578.04	37238578.21	37238578.38	0.0136	0.0083
Venus	97244-04-12 23:02 G	37238804.28	37238804.46	37238804.66	0.0136	0.0062
Venus	97244-11-25 05:31 G	37239030.53	37239030.73	37239030.94	0.0136	0.0040
Venus	97245-07-09 12:14 G	37239256.80	37239257.01	37239257.23	0.0136	0.0018
Venus	97246-02-20 19:11 G	37239483.08	37239483.30	37239483.51	0.0137	0.0004
Venus	97246-10-05 01:55 G	37239709.37	37239709.58	37239709.80	0.0137	0.0027
Venus	97247-05-19 08:52 G	37239935.67	37239935.87	37239936.08	0.0137	0.0049
Venus	97247-12-31 16:19 G	37240161.99	37240162.18	37240162.36	0.0137	0.0072
Venus	97248-08-13 23:31 G	37240388.34	37240388.48	37240388.65	0.0137	0.0095
Venus	97249-03-28 07:11 G	37240614.70	37240614.80	37240614.92	0.0138	0.0117
Mars	97254-10-04 20:38 G	37242631.09	37242631.36	37242631.66	0.0140	0.0064
Jupiter	97259-08-03 10:48 G	37244394.52	37244394.95	37244395.41	0.0141	0.0071
Mercury	97262-02-08 05:31 G	37245314.68	37245314.73	37245314.79	0.0142	0.0128
Mercury	97262-05-07 08:52 G	37245402.79	37245402.87	37245402.96	0.0142	0.0107
Mercury	97262-08-03 12:28 G	37245490.92	37245491.02	37245491.12	0.0142	0.0086
Mercury	97262-10-30 15:50 G	37245579.05	37245579.16	37245579.28	0.0142	0.0064
Mercury	97263-01-26 19:11 G	37245667.18	37245667.30	37245667.43	0.0142	0.0043
Mercury	97263-04-24 22:48 G	37245755.32	37245755.45	37245755.58	0.0143	0.0022
Mercury	97263-07-22 02:09 G	37245843.46	37245843.59	37245843.73	0.0143	0.0004
Mercury	97263-10-18 05:45 G	37245931.61	37245931.74	37245931.87	0.0143	0.0021

Mercury	97264-01-14 09:07 G	37246019.76	37246019.88	37246020.01	0.0143	0.0043
Mercury	97264-04-11 12:28 G	37246107.91	37246108.02	37246108.14	0.0143	0.0065
Mercury	97264-07-08 16:04 G	37246196.07	37246196.17	37246196.28	0.0143	0.0086
Mercury	97264-10-04 19:26 G	37246284.23	37246284.31	37246284.40	0.0143	0.0108
Mercury	97264-12-31 23:02 G	37246372.41	37246372.46	37246372.52	0.0143	0.0130
Earth	97276-02-25 01:11 G	37250444.51	37250444.55	37250444.62	0.0144	0.0140
Moon	97276-02-25 04:48 G	37250444.62	37250444.70	37250444.81	0.0144	0.0133 *
Moon	97277-03-01 00:28 G	37250814.29	37250814.52	37250814.78	0.0144	0.0048
Earth	97277-03-01 04:19 G	37250814.44	37250814.68	37250814.93	0.0144	0.0040 *
Earth	97278-03-06 06:28 G	37251184.55	37251184.77	37251185.02	0.0144	0.0061
Moon	97278-03-06 09:50 G	37251184.70	37251184.91	37251185.15	0.0144	0.0067 *
Venus	97283-05-06 00:00 G	37253071.40	37253071.50	37253071.62	0.0142	0.0124
Venus	97283-12-18 11:31 G	37253297.83	37253297.98	37253298.15	0.0142	0.0098
Venus	97284-07-31 22:48 G	37253524.27	37253524.45	37253524.65	0.0142	0.0073
Venus	97285-03-15 09:50 G	37253750.72	37253750.91	37253751.13	0.0142	0.0048
Venus	97285-10-27 21:07 G	37253977.16	37253977.38	37253977.59	0.0142	0.0022
Venus	97286-06-11 07:40 G	37254203.61	37254203.82	37254204.04	0.0141	0.0004
Venus	97287-01-23 18:28 G	37254430.06	37254430.27	37254430.49	0.0141	0.0028
Venus	97287-09-07 04:33 G	37254656.50	37254656.69	37254656.90	0.0141	0.0053
Venus	97288-04-20 14:52 G	37254882.94	37254883.12	37254883.31	0.0141	0.0077
Venus	97288-12-03 00:28 G	37255109.38	37255109.52	37255109.69	0.0141	0.0102
Venus	97289-07-17 10:19 G	37255335.84	37255335.93	37255336.04	0.0140	0.0125
Mars	97295-05-01 18:43 G	37257449.99	37257450.28	37257450.58	0.0138	0.0012
Mercury	97303-03-06 03:50 G	37260314.59	37260314.66	37260314.75	0.0136	0.0122
Mercury	97303-06-02 11:45 G	37260402.85	37260402.99	37260403.13	0.0136	0.0094
Mercury	97303-08-29 19:26 G	37260491.14	37260491.31	37260491.48	0.0136	0.0066
Mercury	97303-11-26 02:52 G	37260579.44	37260579.62	37260579.82	0.0136	0.0039
Mercury	97304-02-22 10:48 G	37260667.75	37260667.95	37260668.14	0.0136	0.0011
Mercury	97304-05-20 18:14 G	37260756.07	37260756.26	37260756.46	0.0136	0.0017
Mercury	97304-08-17 01:55 G	37260844.40	37260844.58	37260844.76	0.0136	0.0045

Mercury	97304-11-13 09:21 G	37260932.73	37260932.89	37260933.06	0.0136	0.0072
Mercury	97305-02-09 16:48 G	37261021.08	37261021.20	37261021.34	0.0135	0.0100
Mercury	97305-05-09 00:14 G	37261109.46	37261109.51	37261109.59	0.0135	0.0127
Moon	97318-08-27 23:02 G	37265968.33	37265968.46	37265968.63	0.0134	0.0109
Earth	97318-08-28 00:14 G	37265968.40	37265968.51	37265968.65	0.0134	0.0116 *
Earth	97319-09-01 06:28 G	37266337.53	37266337.77	37266338.01	0.0135	0.0037
Moon	97319-09-01 07:55 G	37266337.60	37266337.83	37266338.06	0.0135	0.0044 *
Moon	97320-09-04 11:16 G	37266706.74	37266706.97	37266707.22	0.0135	0.0049
Earth	97320-09-04 12:14 G	37266706.78	37266707.01	37266707.26	0.0135	0.0043 *
Earth	97321-09-08 18:14 G	37267076.17	37267076.26	37267076.38	0.0135	0.0122
Moon	97321-09-08 19:11 G	37267076.20	37267076.30	37267076.44	0.0135	0.0117 *
Venus	97326-02-02 16:48 G	37268684.18	37268684.20	37268684.26	0.0136	0.0133
Venus	97326-09-16 22:48 G	37268910.34	37268910.45	37268910.58	0.0136	0.0112
Venus	97327-05-01 04:48 G	37269136.55	37269136.70	37269136.87	0.0136	0.0091
Venus	97327-12-13 11:02 G	37269362.78	37269362.96	37269363.15	0.0136	0.0069
Venus	97328-07-26 17:45 G	37269589.04	37269589.24	37269589.44	0.0136	0.0048
Venus	97329-03-10 00:14 G	37269815.30	37269815.51	37269815.72	0.0136	0.0026
Venus	97329-10-22 06:43 G	37270041.57	37270041.78	37270042.00	0.0137	0.0004
Venus	97330-06-05 13:26 G	37270267.85	37270268.06	37270268.28	0.0137	0.0019
Venus	97331-01-17 20:24 G	37270494.15	37270494.35	37270494.56	0.0137	0.0041
Venus	97331-09-01 03:50 G	37270720.47	37270720.66	37270720.85	0.0137	0.0064
Venus	97332-04-14 10:48 G	37270946.79	37270946.95	37270947.13	0.0137	0.0086
Venus	97332-11-26 18:14 G	37271173.14	37271173.26	37271173.40	0.0138	0.0109
Venus	97333-07-11 01:55 G	37271399.53	37271399.58	37271399.66	0.0138	0.0131
Mars	97339-06-01 15:21 G	37273550.88	37273551.14	37273551.44	0.0140	0.0064
Mercury	97345-12-03 09:50 G	37275927.91	37275927.91	37275927.93	0.0142	0.0141
Mercury	97346-03-01 13:26 G	37276015.99	37276016.06	37276016.13	0.0142	0.0120
Mercury	97346-05-28 16:48 G	37276104.11	37276104.20	37276104.30	0.0142	0.0099
Mercury	97346-08-24 20:09 G	37276192.24	37276192.34	37276192.45	0.0142	0.0078
Mercury	97346-11-20 23:45 G	37276280.37	37276280.49	37276280.61	0.0142	0.0057

Mercury	97347-02-17 03:07 G	37276368.50	37276368.63	37276368.76	0.0142	0.0035
Mercury	97347-05-16 06:28 G	37276456.64	37276456.77	37276456.90	0.0142	0.0014
Mercury	97347-08-12 10:04 G	37276544.79	37276544.92	37276545.05	0.0143	0.0008
Mercury	97347-11-08 13:26 G	37276632.93	37276633.06	37276633.19	0.0143	0.0029
Mercury	97348-02-04 16:48 G	37276721.08	37276721.20	37276721.33	0.0143	0.0051
Mercury	97348-05-02 20:24 G	37276809.24	37276809.35	37276809.46	0.0143	0.0072
Mercury	97348-07-29 23:45 G	37276897.40	37276897.49	37276897.59	0.0143	0.0094
Mercury	97348-10-26 03:07 G	37276985.57	37276985.63	37276985.72	0.0143	0.0116
Mercury	97349-01-22 06:43 G	37277073.75	37277073.78	37277073.82	0.0143	0.0137
Earth	97360-02-26 12:57 G	37281125.97	37281126.04	37281126.16	0.0144	0.0133
Moon	97360-02-26 17:16 G	37281126.17	37281126.22	37281126.28	0.0144	0.0140
Moon	97361-03-02 12:28 G	37281495.77	37281496.02	37281496.28	0.0144	0.0025
Earth	97361-03-02 16:04 G	37281495.92	37281496.17	37281496.42	0.0144	0.0033 *
Earth	97362-03-07 18:00 G	37281866.03	37281866.25	37281866.49	0.0144	0.0068
Moon	97362-03-07 21:21 G	37281866.17	37281866.39	37281866.63	0.0144	0.0063 *
Venus	97367-01-04 07:11 G	37283629.74	37283629.80	37283629.88	0.0143	0.0134
Venus	97367-08-18 18:43 G	37283856.15	37283856.28	37283856.43	0.0142	0.0109
Venus	97368-04-01 06:00 G	37284082.59	37284082.75	37284082.94	0.0142	0.0084
Venus	97368-11-13 17:16 G	37284309.03	37284309.22	37284309.43	0.0142	0.0058
Venus	97369-06-28 04:19 G	37284535.48	37284535.68	37284535.90	0.0142	0.0033
Venus	97370-02-09 15:35 G	37284761.93	37284762.15	37284762.37	0.0142	0.0007
Venus	97370-09-24 02:09 G	37284988.38	37284988.59	37284988.81	0.0141	0.0018
Venus	97371-05-08 12:43 G	37285214.82	37285215.03	37285215.24	0.0141	0.0043
Venus	97371-12-20 22:48 G	37285441.26	37285441.45	37285441.65	0.0141	0.0067
Venus	97372-08-03 08:52 G	37285667.71	37285667.87	37285668.04	0.0141	0.0091
Venus	97373-03-17 18:43 G	37285894.16	37285894.28	37285894.41	0.0141	0.0115
Venus	97373-10-30 04:04 G	37286120.65	37286120.67	37286120.72	0.0140	0.0139
Mars	97379-12-26 16:48 G	37288369.07	37288369.20	37288369.34	0.0138	0.0123
Mercury	97387-03-26 11:31 G	37291015.89	37291015.98	37291016.10	0.0136	0.0113
Mercury	97387-06-22 19:26 G	37291104.16	37291104.31	37291104.46	0.0136	0.0085

Mercury	97387-09-19 03:07 G	37291192.45	37291192.63	37291192.81	0.0136	0.0057
Mercury	97387-12-16 10:33 G	37291280.76	37291280.94	37291281.14	0.0136	0.0030
Mercury	97388-03-13 18:28 G	37291369.07	37291369.27	37291369.46	0.0136	0.0002
Mercury	97388-06-10 01:55 G	37291457.39	37291457.58	37291457.78	0.0136	0.0026
Mercury	97388-09-06 09:35 G	37291545.72	37291545.90	37291546.08	0.0136	0.0054
Mercury	97388-12-03 17:02 G	37291634.06	37291634.21	37291634.37	0.0136	0.0081
Mercury	97389-03-02 00:28 G	37291722.42	37291722.52	37291722.65	0.0136	0.0109
Moon	97402-08-29 11:45 G	37296649.86	37296649.99	37296650.13	0.0135	0.0113
Earth	97402-08-29 13:40 G	37296649.94	37296650.07	37296650.23	0.0135	0.0109 *
Earth	97403-09-02 19:40 G	37297019.09	37297019.32	37297019.58	0.0135	0.0030
Moon	97403-09-02 21:07 G	37297019.15	37297019.38	37297019.63	0.0135	0.0023 *
Moon	97404-09-05 23:45 G	37297388.26	37297388.49	37297388.75	0.0135	0.0043
Earth	97404-09-06 01:40 G	37297388.35	37297388.57	37297388.82	0.0135	0.0051 *
Earth	97405-09-10 07:40 G	37297757.77	37297757.82	37297757.90	0.0135	0.0130
Venus	97410-05-18 10:48 G	37299468.86	37299468.95	37299469.06	0.0136	0.0119
Venus	97410-12-30 16:48 G	37299695.06	37299695.20	37299695.36	0.0136	0.0098
Venus	97411-08-13 22:48 G	37299921.29	37299921.45	37299921.64	0.0136	0.0077
Venus	97412-03-27 05:16 G	37300147.53	37300147.72	37300147.92	0.0136	0.0055
Venus	97412-11-08 11:45 G	37300373.78	37300373.99	37300374.20	0.0136	0.0033
Venus	97413-06-22 18:28 G	37300600.05	37300600.27	37300600.48	0.0137	0.0012
Venus	97414-02-04 01:11 G	37300826.33	37300826.55	37300826.76	0.0137	0.0011
Venus	97414-09-18 07:55 G	37301052.62	37301052.83	37301053.05	0.0137	0.0033
Venus	97415-05-02 14:52 G	37301278.93	37301279.12	37301279.32	0.0137	0.0055
Venus	97415-12-14 22:04 G	37301505.25	37301505.42	37301505.60	0.0137	0.0078
Venus	97416-07-28 05:45 G	37301731.59	37301731.74	37301731.88	0.0138	0.0100
Venus	97417-03-11 12:43 G	37301957.95	37301958.03	37301958.15	0.0138	0.0123
Mars	97422-02-22 21:07 G	37303767.22	37303767.38	37303767.58	0.0139	0.0114
Mercury	97429-12-24 18:00 G	37306629.21	37306629.25	37306629.30	0.0142	0.0132
Mercury	97430-03-22 21:21 G	37306717.32	37306717.39	37306717.48	0.0142	0.0111
Mercury	97430-06-19 00:43 G	37306805.44	37306805.53	37306805.64	0.0142	0.0090

Mercury	97430-09-15 04:04 G	37306893.57	37306893.67	37306893.79	0.0142	0.0070
Mercury	97430-12-12 07:40 G	37306981.70	37306981.82	37306981.95	0.0142	0.0048
Mercury	97431-03-10 11:02 G	37307069.84	37307069.96	37307070.09	0.0142	0.0027
Mercury	97431-06-06 14:38 G	37307157.98	37307158.11	37307158.24	0.0142	0.0005
Mercury	97431-09-02 18:00 G	37307246.12	37307246.25	37307246.38	0.0143	0.0017
Mercury	97431-11-29 21:21 G	37307334.27	37307334.39	37307334.52	0.0143	0.0038
Mercury	97432-02-26 00:57 G	37307422.42	37307422.54	37307422.66	0.0143	0.0060
Mercury	97432-05-24 04:19 G	37307510.58	37307510.68	37307510.79	0.0143	0.0081
Mercury	97432-08-20 07:40 G	37307598.74	37307598.82	37307598.92	0.0143	0.0103
Mercury	97432-11-16 11:16 G	37307686.91	37307686.97	37307687.04	0.0143	0.0125
Earth	97444-02-28 04:33 G	37311807.57	37311807.69	37311807.84	0.0144	0.0123
Moon	97444-02-28 07:40 G	37311807.69	37311807.82	37311808.00	0.0144	0.0117 *
Moon	97445-03-04 03:35 G	37312177.40	37312177.65	37312177.90	0.0144	0.0031
Earth	97445-03-04 07:11 G	37312177.56	37312177.80	37312178.06	0.0144	0.0023 *
Earth	97446-03-09 09:07 G	37312547.68	37312547.88	37312548.11	0.0144	0.0078
Moon	97446-03-09 12:43 G	37312547.84	37312548.03	37312548.26	0.0144	0.0085 *
Venus	97450-09-04 16:48 G	37314188.20	37314188.20	37314188.22	0.0143	0.0142
Venus	97451-04-19 04:04 G	37314414.57	37314414.67	37314414.81	0.0142	0.0118
Venus	97451-12-01 15:35 G	37314641.00	37314641.15	37314641.34	0.0142	0.0093
Venus	97452-07-15 03:07 G	37314867.45	37314867.63	37314867.83	0.0142	0.0067
Venus	97453-02-26 14:38 G	37315093.90	37315094.11	37315094.32	0.0142	0.0041
Venus	97453-10-11 01:26 G	37315320.35	37315320.56	37315320.78	0.0142	0.0016
Venus	97454-05-25 12:14 G	37315546.79	37315547.01	37315547.23	0.0141	0.0009
Venus	97455-01-06 22:48 G	37315773.24	37315773.45	37315773.67	0.0141	0.0034
Venus	97455-08-21 09:07 G	37315999.68	37315999.88	37316000.08	0.0141	0.0058
Venus	97456-04-03 19:11 G	37316226.13	37316226.30	37316226.48	0.0141	0.0082
Venus	97456-11-16 05:02 G	37316452.57	37316452.71	37316452.86	0.0141	0.0106
Venus	97457-06-30 14:24 G	37316679.04	37316679.10	37316679.20	0.0140	0.0130
Mars	97462-09-20 11:45 G	37318586.70	37318586.99	37318587.28	0.0139	0.0038
Jupiter	97467-04-15 20:09 G	37320255.20	37320255.34	37320255.52	0.0137	0.0130

Mercury	97471-01-18 12:14 G	37321628.96	37321629.01	37321629.07	0.0136	0.0130
Mercury	97471-04-16 19:55 G	37321717.21	37321717.33	37321717.47	0.0136	0.0102
Mercury	97471-07-14 03:35 G	37321805.49	37321805.65	37321805.82	0.0136	0.0074
Mercury	97471-10-10 11:31 G	37321893.79	37321893.98	37321894.16	0.0136	0.0046
Mercury	97472-01-06 18:57 G	37321982.10	37321982.29	37321982.49	0.0136	0.0019
Mercury	97472-04-04 02:38 G	37322070.42	37322070.61	37322070.81	0.0136	0.0009
Mercury	97472-07-01 10:19 G	37322158.74	37322158.93	37322159.12	0.0136	0.0037
Mercury	97472-09-27 17:45 G	37322247.07	37322247.24	37322247.42	0.0136	0.0065
Mercury	97472-12-25 01:26 G	37322335.42	37322335.56	37322335.70	0.0136	0.0092
Mercury	97473-03-23 08:38 G	37322423.78	37322423.86	37322423.96	0.0135	0.0120
Moon	97486-08-30 00:57 G	37327331.38	37327331.54	37327331.74	0.0134	0.0096
Earth	97486-08-30 03:35 G	37327331.49	37327331.65	37327331.82	0.0134	0.0101 *
Earth	97487-09-03 09:21 G	37327700.65	37327700.89	37327701.14	0.0135	0.0022
Moon	97487-09-03 11:45 G	37327700.76	37327700.99	37327701.24	0.0135	0.0029 *
Moon	97488-09-06 12:57 G	37328069.83	37328070.04	37328070.28	0.0135	0.0065
Earth	97488-09-06 15:21 G	37328069.92	37328070.14	37328070.37	0.0135	0.0058 *
Moon	97489-09-10 23:45 G	37328439.45	37328439.49	37328439.55	0.0135	0.0131
Venus	97494-01-15 22:33 G	37330027.38	37330027.44	37330027.54	0.0136	0.0126
Venus	97494-08-30 04:33 G	37330253.57	37330253.69	37330253.84	0.0136	0.0105
Venus	97495-04-13 10:33 G	37330479.79	37330479.94	37330480.13	0.0136	0.0084
Venus	97495-11-25 17:02 G	37330706.02	37330706.21	37330706.40	0.0136	0.0063
Venus	97496-07-08 23:16 G	37330932.27	37330932.47	37330932.69	0.0136	0.0041
Venus	97497-02-20 05:45 G	37331158.53	37331158.74	37331158.96	0.0136	0.0020
Venus	97497-10-04 12:28 G	37331384.80	37331385.02	37331385.24	0.0137	0.0003
Venus	97498-05-18 19:11 G	37331611.09	37331611.30	37331611.51	0.0137	0.0025
Venus	97498-12-31 01:55 G	37331837.38	37331837.58	37331837.79	0.0137	0.0047
Venus	97499-08-14 09:07 G	37332063.70	37332063.88	37332064.07	0.0137	0.0069
Venus	97500-03-28 16:19 G	37332290.03	37332290.18	37332290.35	0.0137	0.0092
Venus	97500-11-09 23:31 G	37332516.38	37332516.48	37332516.62	0.0138	0.0114
Venus	97501-06-24 07:11 G	37332742.78	37332742.80	37332742.84	0.0138	0.0136

Mars	97506-10-20 14:24 G	37334686.79	37334687.10	37334687.42	0.0140	0.0013
Mercury	97514-01-15 01:40 G	37337330.52	37337330.57	37337330.64	0.0142	0.0125
Mercury	97514-04-13 05:02 G	37337418.63	37337418.71	37337418.81	0.0142	0.0104
Mercury	97514-07-10 08:38 G	37337506.75	37337506.86	37337506.97	0.0142	0.0083
Mercury	97514-10-06 12:00 G	37337594.88	37337595.00	37337595.12	0.0142	0.0062
Mercury	97515-01-02 15:21 G	37337683.02	37337683.14	37337683.27	0.0142	0.0041
Mercury	97515-03-31 18:57 G	37337771.16	37337771.29	37337771.42	0.0142	0.0019
Mercury	97515-06-27 22:19 G	37337859.30	37337859.43	37337859.56	0.0142	0.0003
Mercury	97515-09-24 01:40 G	37337947.44	37337947.57	37337947.70	0.0143	0.0024
Mercury	97515-12-21 05:16 G	37338035.59	37338035.72	37338035.84	0.0143	0.0045
Mercury	97516-03-18 08:38 G	37338123.75	37338123.86	37338123.98	0.0143	0.0067
Mercury	97516-06-14 12:00 G	37338211.90	37338212.00	37338212.11	0.0143	0.0089
Mercury	97516-09-10 15:35 G	37338300.07	37338300.15	37338300.23	0.0143	0.0110
Mercury	97516-12-07 18:57 G	37338388.25	37338388.29	37338388.34	0.0143	0.0132
Earth	97528-02-29 17:31 G	37342489.08	37342489.23	37342489.38	0.0144	0.0115
Moon	97528-02-29 20:38 G	37342489.24	37342489.36	37342489.51	0.0144	0.0122 *
Moon	97529-03-05 16:48 G	37342858.95	37342859.20	37342859.45	0.0144	0.0007
Earth	97529-03-05 19:55 G	37342859.08	37342859.33	37342859.59	0.0144	0.0015 *
Earth	97530-03-10 21:35 G	37343229.21	37343229.40	37343229.62	0.0144	0.0086
Moon	97530-03-11 01:40 G	37343229.36	37343229.57	37343229.79	0.0144	0.0079 *
Venus	97534-12-18 12:28 G	37344972.94	37344973.02	37344973.14	0.0142	0.0127
Venus	97535-08-02 00:14 G	37345199.37	37345199.51	37345199.68	0.0142	0.0101
Venus	97536-03-15 11:45 G	37345425.81	37345425.99	37345426.19	0.0142	0.0076
Venus	97536-10-27 23:02 G	37345652.26	37345652.46	37345652.67	0.0142	0.0051
Venus	97537-06-11 10:04 G	37345878.71	37345878.92	37345879.15	0.0142	0.0026
Venus	97538-01-23 21:21 G	37346105.17	37346105.39	37346105.61	0.0142	0.0002
Venus	97538-09-07 07:55 G	37346331.62	37346331.83	37346332.05	0.0141	0.0024
Venus	97539-04-21 18:00 G	37346558.06	37346558.25	37346558.47	0.0141	0.0050
Venus	97539-12-04 04:19 G	37346784.50	37346784.68	37346784.87	0.0141	0.0073
Venus	97540-07-17 14:09 G	37347010.95	37347011.09	37347011.26	0.0141	0.0097

Venus	97541-03-01 00:00 G	37347237.41	37347237.50	37347237.63	0.0141	0.0121
Mars	97547-05-17 13:11 G	37349505.83	37349506.05	37349506.32	0.0138	0.0079
Mercury	97555-02-08 20:38 G	37352330.27	37352330.36	37352330.45	0.0136	0.0119
Mercury	97555-05-08 03:50 G	37352418.53	37352418.66	37352418.82	0.0136	0.0092
Mercury	97555-08-04 11:45 G	37352506.82	37352506.99	37352507.17	0.0136	0.0064
Mercury	97555-10-31 19:26 G	37352595.13	37352595.31	37352595.50	0.0136	0.0036
Mercury	97556-01-28 03:07 G	37352683.44	37352683.63	37352683.83	0.0136	0.0008
Mercury	97556-04-25 10:48 G	37352771.76	37352771.95	37352772.14	0.0136	0.0020
Mercury	97556-07-22 18:14 G	37352860.08	37352860.26	37352860.45	0.0136	0.0047
Mercury	97556-10-19 01:40 G	37352948.42	37352948.57	37352948.74	0.0136	0.0075
Mercury	97557-01-15 09:07 G	37353036.77	37353036.88	37353037.02	0.0136	0.0103
Mercury	97557-04-13 16:33 G	37353125.16	37353125.19	37353125.27	0.0135	0.0130
Saturn	97565-06-09 17:31 G	37356103.89	37356104.23	37356104.66	0.0134	0.0105
Moon	97570-08-31 13:26 G	37358012.89	37358013.06	37358013.24	0.0134	0.0098
Earth	97570-08-31 16:19 G	37358013.02	37358013.18	37358013.37	0.0134	0.0094 *
Earth	97571-09-04 22:19 G	37358382.18	37358382.43	37358382.68	0.0135	0.0015
Moon	97571-09-05 00:57 G	37358382.29	37358382.54	37358382.78	0.0135	0.0008 *
Moon	97572-09-08 01:26 G	37358751.33	37358751.56	37358751.79	0.0135	0.0057
Earth	97572-09-08 04:19 G	37358751.47	37358751.68	37358751.91	0.0135	0.0065 *
Venus	97577-09-16 10:04 G	37360585.89	37360585.92	37360585.98	0.0135	0.0133
Venus	97578-04-30 16:04 G	37360812.06	37360812.17	37360812.30	0.0136	0.0112
Venus	97578-12-12 22:04 G	37361038.26	37361038.42	37361038.58	0.0136	0.0091
Venus	97579-07-27 04:04 G	37361264.49	37361264.67	37361264.86	0.0136	0.0070
Venus	97580-03-09 10:19 G	37361490.73	37361490.93	37361491.14	0.0136	0.0049
Venus	97580-10-21 16:33 G	37361716.98	37361717.19	37361717.41	0.0136	0.0028
Venus	97581-06-04 23:02 G	37361943.25	37361943.46	37361943.68	0.0136	0.0006
Venus	97582-01-17 05:31 G	37362169.52	37362169.73	37362169.95	0.0137	0.0017
Venus	97582-08-31 12:14 G	37362395.82	37362396.01	37362396.23	0.0137	0.0039
Venus	97583-04-14 19:26 G	37362622.12	37362622.31	37362622.51	0.0137	0.0060
Venus	97583-11-27 02:24 G	37362848.43	37362848.60	37362848.78	0.0137	0.0083

Venus	97584-07-10 09:50 G	37363074.77	37363074.91	37363075.05	0.0137	0.0105
Venus	97585-02-21 17:16 G	37363301.14	37363301.22	37363301.30	0.0138	0.0127
Mars	97591-06-16 05:02 G	37365606.68	37365606.71	37365606.78	0.0140	0.0138
Mercury	97597-11-08 05:31 G	37367943.72	37367943.73	37367943.76	0.0142	0.0140
Mercury	97598-02-04 09:07 G	37368031.82	37368031.88	37368031.96	0.0142	0.0119
Mercury	97598-05-03 12:43 G	37368119.93	37368120.03	37368120.12	0.0142	0.0098
Mercury	97598-07-30 16:04 G	37368208.06	37368208.17	37368208.28	0.0142	0.0077
Mercury	97598-10-26 19:26 G	37368296.19	37368296.31	37368296.43	0.0142	0.0055
Mercury	97599-01-22 22:48 G	37368384.33	37368384.45	37368384.58	0.0142	0.0035
Mercury	97599-04-21 02:24 G	37368472.47	37368472.60	37368472.73	0.0142	0.0013
Mercury	97599-07-18 05:45 G	37368560.61	37368560.74	37368560.87	0.0142	0.0009
Mercury	97599-10-14 09:07 G	37368648.76	37368648.88	37368649.01	0.0143	0.0031
Mercury	97600-01-10 12:43 G	37368736.91	37368737.03	37368737.15	0.0143	0.0052
Mercury	97600-04-07 16:04 G	37368825.06	37368825.17	37368825.29	0.0143	0.0073
Mercury	97600-07-04 19:40 G	37368913.22	37368913.32	37368913.42	0.0143	0.0095
Mercury	97600-09-30 23:02 G	37369001.39	37369001.46	37369001.54	0.0143	0.0117
Mercury	97600-12-28 02:38 G	37369089.58	37369089.61	37369089.64	0.0143	0.0138
Earth	97612-03-01 04:33 G	37373170.55	37373170.69	37373170.88	0.0144	0.0110
Moon	97612-03-01 07:26 G	37373170.64	37373170.81	37373171.00	0.0144	0.0104 *
Moon	97613-03-06 04:04 G	37373540.42	37373540.67	37373540.93	0.0144	0.0017
Earth	97613-03-06 07:26 G	37373540.56	37373540.81	37373541.07	0.0144	0.0009 *
Earth	97614-03-11 09:35 G	37373910.71	37373910.90	37373911.11	0.0144	0.0092
Moon	97614-03-11 13:11 G	37373910.86	37373911.05	37373911.24	0.0144	0.0099 *
Venus	97618-08-17 20:24 G	37375531.30	37375531.35	37375531.43	0.0143	0.0136
Venus	97619-04-01 08:09 G	37375757.72	37375757.84	37375757.99	0.0142	0.0111
Venus	97619-11-13 19:40 G	37375984.16	37375984.32	37375984.51	0.0142	0.0086
Venus	97620-06-27 07:11 G	37376210.61	37376210.80	37376211.01	0.0142	0.0060
Venus	97621-02-08 18:43 G	37376437.07	37376437.28	37376437.50	0.0142	0.0035
Venus	97621-09-23 05:45 G	37376663.53	37376663.74	37376663.96	0.0142	0.0010
Venus	97622-05-07 16:33 G	37376889.97	37376890.19	37376890.41	0.0142	0.0015

Venus	97622-12-20 03:07 G	37377116.42	37377116.63	37377116.84	0.0141	0.0040
Venus	97623-08-03 13:11 G	37377342.87	37377343.05	37377343.26	0.0141	0.0064
Venus	97624-03-16 23:31 G	37377569.32	37377569.48	37377569.66	0.0141	0.0088
Venus	97624-10-29 09:21 G	37377795.77	37377795.89	37377796.03	0.0141	0.0112
Venus	97625-06-12 18:57 G	37378022.25	37378022.29	37378022.37	0.0141	0.0135
Mars	97630-02-08 03:50 G	37379723.44	37379723.66	37379723.91	0.0139	0.0087
Mercury	97639-03-01 04:33 G	37383031.59	37383031.69	37383031.82	0.0136	0.0109
Mercury	97639-05-28 12:14 G	37383119.86	37383120.01	37383120.18	0.0136	0.0081
Mercury	97639-08-24 19:55 G	37383208.16	37383208.33	37383208.52	0.0136	0.0053
Mercury	97639-11-21 03:50 G	37383296.47	37383296.66	37383296.85	0.0136	0.0025
Mercury	97640-02-17 11:16 G	37383384.78	37383384.97	37383385.17	0.0136	0.0004
Mercury	97640-05-15 18:43 G	37383473.10	37383473.28	37383473.48	0.0136	0.0031
Mercury	97640-08-12 02:24 G	37383561.43	37383561.60	37383561.78	0.0136	0.0058
Mercury	97640-11-08 09:50 G	37383649.77	37383649.91	37383650.07	0.0136	0.0086
Mercury	97641-02-04 17:31 G	37383738.13	37383738.23	37383738.34	0.0136	0.0113
Moon	97654-09-01 02:24 G	37388694.41	37388694.60	37388694.81	0.0134	0.0083
Earth	97654-09-01 05:31 G	37388694.55	37388694.73	37388694.93	0.0134	0.0088 *
Earth	97655-09-05 11:31 G	37389063.73	37389063.98	37389064.23	0.0134	0.0008
Moon	97655-09-05 14:38 G	37389063.87	37389064.11	37389064.36	0.0134	0.0015 *
Moon	97656-09-08 14:09 G	37389432.90	37389433.09	37389433.31	0.0135	0.0079
Earth	97656-09-08 17:16 G	37389433.02	37389433.22	37389433.44	0.0135	0.0072 *
Venus	97661-12-29 03:21 G	37391370.55	37391370.64	37391370.75	0.0135	0.0119
Venus	97662-08-12 09:21 G	37391596.75	37391596.89	37391597.04	0.0136	0.0098
Venus	97663-03-26 15:21 G	37391822.96	37391823.14	37391823.31	0.0136	0.0077
Venus	97663-11-07 21:07 G	37392049.19	37392049.38	37392049.58	0.0136	0.0056
Venus	97664-06-21 03:21 G	37392275.44	37392275.64	37392275.85	0.0136	0.0035
Venus	97665-02-02 09:50 G	37392501.69	37392501.91	37392502.12	0.0136	0.0013
Venus	97665-09-16 16:19 G	37392727.96	37392728.18	37392728.40	0.0136	0.0008
Venus	97666-04-30 22:33 G	37392954.24	37392954.44	37392954.66	0.0137	0.0031
Venus	97666-12-13 05:31 G	37393180.53	37393180.73	37393180.93	0.0137	0.0052

Venus	97667-07-27 12:28 G	37393406.85	37393407.02	37393407.21	0.0137	0.0074
Venus	97668-03-09 19:26 G	37393633.17	37393633.31	37393633.48	0.0137	0.0097
Venus	97668-10-22 02:38 G	37393859.52	37393859.61	37393859.74	0.0137	0.0119
Mars	97674-03-08 06:00 G	37395822.47	37395822.75	37395823.06	0.0139	0.0046
Mercury	97681-11-28 12:57 G	37398645.01	37398645.04	37398645.08	0.0142	0.0135
Mercury	97682-02-24 16:19 G	37398733.11	37398733.18	37398733.26	0.0142	0.0114
Mercury	97682-05-23 19:40 G	37398821.23	37398821.32	37398821.42	0.0142	0.0093
Mercury	97682-08-19 23:02 G	37398909.36	37398909.46	37398909.58	0.0142	0.0073
Mercury	97682-11-16 02:38 G	37398997.49	37398997.61	37398997.73	0.0142	0.0051
Mercury	97683-02-12 06:00 G	37399085.63	37399085.75	37399085.88	0.0142	0.0030
Mercury	97683-05-11 09:35 G	37399173.77	37399173.90	37399174.03	0.0142	0.0008
Mercury	97683-08-07 12:57 G	37399261.91	37399262.04	37399262.17	0.0142	0.0013
Mercury	97683-11-03 16:19 G	37399350.06	37399350.18	37399350.31	0.0142	0.0035
Mercury	97684-01-30 19:40 G	37399438.21	37399438.32	37399438.45	0.0143	0.0057
Mercury	97684-04-27 23:16 G	37399526.36	37399526.47	37399526.58	0.0143	0.0078
Mercury	97684-07-25 02:38 G	37399614.52	37399614.61	37399614.71	0.0143	0.0100
Mercury	97684-10-21 06:14 G	37399702.69	37399702.76	37399702.83	0.0143	0.0121
Mercury	97685-01-17 09:35 G	37399790.90	37399790.90	37399790.91	0.0143	0.0143
Earth	97696-03-01 12:43 G	37403851.86	37403852.03	37403852.20	0.0144	0.0106
Moon	97696-03-01 14:52 G	37403851.96	37403852.12	37403852.30	0.0144	0.0111 *
Moon	97697-03-06 12:57 G	37404221.79	37404222.04	37404222.29	0.0144	0.0002
Earth	97697-03-06 15:21 G	37404221.88	37404222.14	37404222.39	0.0144	0.0006 *
Earth	97698-03-11 17:02 G	37404592.03	37404592.21	37404592.42	0.0143	0.0095
Moon	97698-03-11 20:38 G	37404592.16	37404592.36	37404592.57	0.0143	0.0088 *
Venus	97702-11-30 12:57 G	37406315.95	37406316.04	37406316.18	0.0143	0.0122
Venus	97703-07-15 00:57 G	37406542.39	37406542.54	37406542.71	0.0142	0.0096
Venus	97704-02-26 12:43 G	37406768.85	37406769.03	37406769.23	0.0142	0.0071
Venus	97704-10-10 00:00 G	37406995.30	37406995.50	37406995.72	0.0142	0.0046
Venus	97705-05-24 11:16 G	37407221.75	37407221.97	37407222.19	0.0142	0.0021
Venus	97706-01-05 22:19 G	37407448.21	37407448.43	37407448.65	0.0142	0.0004

Venus	97706-08-20 08:52 G	37407674.66	37407674.87	37407675.09	0.0142	0.0029
Venus	97707-04-03 19:11 G	37407901.11	37407901.30	37407901.52	0.0141	0.0054
Venus	97707-11-16 05:31 G	37408127.56	37408127.73	37408127.92	0.0141	0.0078
Venus	97708-06-29 15:35 G	37408354.01	37408354.15	37408354.31	0.0141	0.0101
Venus	97709-02-11 01:26 G	37408580.48	37408580.56	37408580.68	0.0141	0.0125
Mars	97714-10-05 00:43 G	37410642.24	37410642.53	37410642.83	0.0139	0.0025
Mercury	97722-12-24 04:04 G	37413644.63	37413644.67	37413644.74	0.0136	0.0130
Mercury	97723-03-22 12:00 G	37413732.88	37413733.00	37413733.13	0.0136	0.0101
Mercury	97723-06-18 19:40 G	37413821.16	37413821.32	37413821.49	0.0136	0.0073
Mercury	97723-09-15 03:07 G	37413909.46	37413909.63	37413909.83	0.0136	0.0046
Mercury	97723-12-12 11:02 G	37413997.77	37413997.96	37413998.16	0.0136	0.0018
Mercury	97724-03-09 18:43 G	37414086.09	37414086.28	37414086.48	0.0136	0.0010
Mercury	97724-06-06 02:09 G	37414174.41	37414174.59	37414174.79	0.0136	0.0038
Mercury	97724-09-02 09:35 G	37414262.74	37414262.90	37414263.08	0.0136	0.0066
Mercury	97724-11-29 17:31 G	37414351.09	37414351.23	37414351.37	0.0136	0.0093
Mercury	97725-02-26 00:43 G	37414439.46	37414439.53	37414439.63	0.0136	0.0121
Moon	97738-09-02 14:24 G	37419375.91	37419376.10	37419376.31	0.0134	0.0083
Earth	97738-09-02 18:14 G	37419376.06	37419376.26	37419376.46	0.0134	0.0081 *
Earth	97739-09-07 00:00 G	37419745.25	37419745.50	37419745.75	0.0134	0.0003
Moon	97739-09-07 03:07 G	37419745.38	37419745.63	37419745.88	0.0134	0.0005 *
Moon	97740-09-10 02:09 G	37420114.39	37420114.59	37420114.82	0.0135	0.0071
Earth	97740-09-10 05:45 G	37420114.55	37420114.74	37420114.96	0.0135	0.0079 *
Venus	97745-08-29 14:38 G	37421929.04	37421929.11	37421929.20	0.0135	0.0126
Venus	97746-04-12 20:09 G	37422155.22	37422155.34	37422155.49	0.0135	0.0105
Venus	97746-11-25 01:55 G	37422381.43	37422381.58	37422381.76	0.0136	0.0085
Venus	97747-07-09 08:09 G	37422607.66	37422607.84	37422608.04	0.0136	0.0064
Venus	97748-02-20 14:09 G	37422833.89	37422834.09	37422834.30	0.0136	0.0043
Venus	97748-10-03 20:24 G	37423060.14	37423060.35	37423060.57	0.0136	0.0021
Venus	97749-05-18 02:38 G	37423286.40	37423286.61	37423286.83	0.0136	0.0003
Venus	97749-12-30 09:07 G	37423512.67	37423512.88	37423513.10	0.0136	0.0022

Venus	97750-08-13 15:50 G	37423738.96	37423739.16	37423739.37	0.0137	0.0044
Venus	97751-03-27 22:33 G	37423965.26	37423965.44	37423965.64	0.0137	0.0066
Venus	97751-11-09 05:16 G	37424191.57	37424191.72	37424191.91	0.0137	0.0089
Venus	97752-06-22 12:57 G	37424417.91	37424418.04	37424418.17	0.0137	0.0110
Venus	97753-02-03 19:55 G	37424644.29	37424644.33	37424644.41	0.0137	0.0132
Mars	97758-11-02 17:45 G	37426741.98	37426742.24	37426742.50	0.0139	0.0076
Mercury	97765-12-19 20:09 G	37429346.30	37429346.34	37429346.40	0.0142	0.0130
Mercury	97766-03-17 23:31 G	37429434.41	37429434.48	37429434.57	0.0142	0.0109
Mercury	97766-06-14 02:52 G	37429522.53	37429522.62	37429522.73	0.0142	0.0088
Mercury	97766-09-10 06:28 G	37429610.66	37429610.77	37429610.89	0.0142	0.0067
Mercury	97766-12-07 09:50 G	37429698.79	37429698.91	37429699.04	0.0142	0.0046
Mercury	97767-03-05 13:26 G	37429786.93	37429787.06	37429787.19	0.0142	0.0024
Mercury	97767-06-01 16:48 G	37429875.07	37429875.20	37429875.33	0.0142	0.0003
Mercury	97767-08-28 20:09 G	37429963.21	37429963.34	37429963.47	0.0142	0.0019
Mercury	97767-11-24 23:31 G	37430051.36	37430051.48	37430051.61	0.0142	0.0040
Mercury	97768-02-21 03:07 G	37430139.51	37430139.63	37430139.75	0.0142	0.0061
Mercury	97768-05-19 06:28 G	37430227.67	37430227.77	37430227.88	0.0142	0.0083
Mercury	97768-08-15 09:50 G	37430315.83	37430315.91	37430316.01	0.0143	0.0105
Mercury	97768-11-11 13:26 G	37430404.01	37430404.06	37430404.12	0.0143	0.0126
Earth	97780-03-02 20:38 G	37434533.20	37434533.36	37434533.55	0.0144	0.0103
Moon	97780-03-02 21:35 G	37434533.23	37434533.40	37434533.61	0.0144	0.0100 *
Moon	97781-03-07 21:07 G	37434903.13	37434903.38	37434903.63	0.0144	0.0009
Earth	97781-03-07 23:16 G	37434903.22	37434903.47	37434903.73	0.0144	0.0003 *
Earth	97782-03-13 01:40 G	37435273.39	37435273.57	37435273.76	0.0143	0.0099
Moon	97782-03-13 03:50 G	37435273.50	37435273.66	37435273.85	0.0143	0.0107 *
Venus	97786-07-30 18:43 G	37436874.21	37436874.28	37436874.37	0.0143	0.0132
Venus	97787-03-14 06:43 G	37437100.64	37437100.78	37437100.93	0.0143	0.0107
Venus	97787-10-26 18:14 G	37437327.09	37437327.26	37437327.45	0.0142	0.0082
Venus	97788-06-09 05:31 G	37437553.54	37437553.73	37437553.94	0.0142	0.0057
Venus	97789-01-21 17:02 G	37437780.00	37437780.21	37437780.43	0.0142	0.0032

Venus	97789-09-05 04:19 G	37438006.46	37438006.68	37438006.90	0.0142	0.0007
Venus	97790-04-19 14:52 G	37438232.91	37438233.12	37438233.34	0.0142	0.0018
Venus	97790-12-02 01:26 G	37438459.36	37438459.56	37438459.77	0.0142	0.0042
Venus	97791-07-16 12:00 G	37438685.81	37438686.00	37438686.19	0.0141	0.0067
Venus	97792-02-27 22:19 G	37438912.27	37438912.43	37438912.60	0.0141	0.0090
Venus	97792-10-11 08:09 G	37439138.72	37439138.84	37439138.98	0.0141	0.0114
Venus	97793-05-25 18:00 G	37439365.21	37439365.25	37439365.30	0.0141	0.0137
Mars	97799-05-30 20:38 G	37441561.31	37441561.36	37441561.44	0.0139	0.0135
Mercury	97807-01-14 11:16 G	37444345.90	37444345.97	37444346.06	0.0136	0.0123
Mercury	97807-04-12 19:11 G	37444434.16	37444434.30	37444434.44	0.0136	0.0094
Mercury	97807-07-10 02:52 G	37444522.45	37444522.62	37444522.79	0.0136	0.0066
Mercury	97807-10-06 10:33 G	37444610.75	37444610.94	37444611.13	0.0136	0.0038
Mercury	97808-01-02 18:14 G	37444699.07	37444699.26	37444699.46	0.0136	0.0011
Mercury	97808-03-31 01:55 G	37444787.39	37444787.58	37444787.77	0.0136	0.0017
Mercury	97808-06-27 09:35 G	37444875.71	37444875.90	37444876.08	0.0136	0.0045
Mercury	97808-09-23 17:02 G	37444964.05	37444964.21	37444964.38	0.0136	0.0073
Mercury	97808-12-21 00:28 G	37445052.40	37445052.52	37445052.66	0.0136	0.0101
Mercury	97809-03-19 08:09 G	37445140.79	37445140.84	37445140.91	0.0136	0.0128
Moon	97822-09-04 02:24 G	37450057.40	37450057.60	37450057.83	0.0134	0.0072
Earth	97822-09-04 06:14 G	37450057.56	37450057.76	37450057.97	0.0134	0.0075 *
Earth	97823-09-08 12:14 G	37450426.76	37450427.01	37450427.26	0.0135	0.0006
Moon	97823-09-08 16:04 G	37450426.92	37450427.17	37450427.42	0.0135	0.0002 *
Moon	97824-09-11 14:52 G	37450795.95	37450796.12	37450796.32	0.0135	0.0093
Earth	97824-09-11 18:14 G	37450796.09	37450796.26	37450796.47	0.0135	0.0086 *
Venus	97829-04-30 01:55 G	37452487.55	37452487.58	37452487.64	0.0135	0.0133
Venus	97829-12-12 07:26 G	37452713.71	37452713.81	37452713.95	0.0135	0.0113
Venus	97830-07-26 13:26 G	37452939.91	37452940.06	37452940.23	0.0136	0.0092
Venus	97831-03-09 19:26 G	37453166.13	37453166.31	37453166.50	0.0136	0.0071
Venus	97831-10-22 01:26 G	37453392.36	37453392.56	37453392.76	0.0136	0.0050
Venus	97832-06-04 07:26 G	37453618.60	37453618.81	37453619.02	0.0136	0.0029

Venus	97833-01-16 13:40 G	37453844.86	37453845.07	37453845.29	0.0136	0.0008
Venus	97833-08-30 20:09 G	37454071.13	37454071.34	37454071.56	0.0136	0.0014
Venus	97834-04-14 02:38 G	37454297.41	37454297.61	37454297.82	0.0137	0.0036
Venus	97834-11-26 09:21 G	37454523.70	37454523.89	37454524.09	0.0137	0.0058
Venus	97835-07-10 16:04 G	37454750.01	37454750.17	37454750.36	0.0137	0.0080
Venus	97836-02-21 23:31 G	37454976.34	37454976.48	37454976.63	0.0137	0.0101
Venus	97836-10-05 06:28 G	37455202.69	37455202.77	37455202.88	0.0137	0.0124
Mars	97841-07-27 02:52 G	37456958.44	37456958.62	37456958.86	0.0139	0.0103
Mercury	97850-01-10 03:50 G	37460047.60	37460047.66	37460047.73	0.0142	0.0123
Mercury	97850-04-08 07:11 G	37460135.72	37460135.80	37460135.89	0.0142	0.0102
Mercury	97850-07-05 10:48 G	37460223.84	37460223.95	37460224.05	0.0142	0.0081
Mercury	97850-10-01 14:09 G	37460311.97	37460312.09	37460312.21	0.0142	0.0060
Mercury	97850-12-28 17:31 G	37460400.10	37460400.23	37460400.36	0.0142	0.0039
Mercury	97851-03-26 20:52 G	37460488.24	37460488.37	37460488.50	0.0142	0.0018
Mercury	97851-06-23 00:28 G	37460576.38	37460576.52	37460576.65	0.0142	0.0006
Mercury	97851-09-19 03:50 G	37460664.53	37460664.66	37460664.79	0.0142	0.0025
Mercury	97851-12-16 07:11 G	37460752.68	37460752.80	37460752.93	0.0142	0.0046
Mercury	97852-03-13 10:33 G	37460840.83	37460840.94	37460841.06	0.0142	0.0068
Mercury	97852-06-09 14:09 G	37460928.99	37460929.09	37460929.19	0.0142	0.0089
Mercury	97852-09-05 17:31 G	37461017.15	37461017.23	37461017.32	0.0142	0.0111
Mercury	97852-12-02 20:52 G	37461105.33	37461105.37	37461105.43	0.0142	0.0133
Earth	97864-03-04 06:00 G	37465214.57	37465214.75	37465214.94	0.0144	0.0098
Moon	97864-03-04 06:43 G	37465214.60	37465214.78	37465214.98	0.0144	0.0101 *
Moon	97865-03-09 07:26 G	37465584.56	37465584.81	37465585.06	0.0144	0.0009
Earth	97865-03-09 08:24 G	37465584.59	37465584.85	37465585.11	0.0144	0.0003 *
Earth	97866-03-14 10:33 G	37465954.77	37465954.94	37465955.12	0.0143	0.0104
Moon	97866-03-14 12:28 G	37465954.85	37465955.02	37465955.24	0.0143	0.0097 *
Venus	97870-03-31 00:00 G	37467432.50	37467432.50	37467432.52	0.0143	0.0142
Venus	97870-11-12 11:45 G	37467658.88	37467658.99	37467659.12	0.0143	0.0118
Venus	97871-06-26 23:45 G	37467885.32	37467885.49	37467885.65	0.0142	0.0093

Venus	97872-02-08 11:02 G	37468111.78	37468111.96	37468112.16	0.0142	0.0068
Venus	97872-09-21 22:19 G	37468338.23	37468338.43	37468338.65	0.0142	0.0044
Venus	97873-05-06 09:35 G	37468564.68	37468564.90	37468565.12	0.0142	0.0018
Venus	97873-12-18 20:38 G	37468791.14	37468791.36	37468791.57	0.0142	0.0007
Venus	97874-08-02 07:11 G	37469017.59	37469017.80	37469018.02	0.0142	0.0031
Venus	97875-03-16 17:45 G	37469244.04	37469244.24	37469244.45	0.0141	0.0056
Venus	97875-10-29 04:04 G	37469470.49	37469470.67	37469470.85	0.0141	0.0080
Venus	97876-06-11 14:09 G	37469696.95	37469697.09	37469697.24	0.0141	0.0103
Venus	97877-01-24 00:00 G	37469923.42	37469923.50	37469923.61	0.0141	0.0127
Mars	97882-02-21 23:45 G	37471778.21	37471778.49	37471778.79	0.0139	0.0039
Mercury	97891-02-03 17:45 G	37475047.16	37475047.24	37475047.35	0.0136	0.0118
Mercury	97891-05-03 01:40 G	37475135.43	37475135.57	37475135.72	0.0136	0.0089
Mercury	97891-07-30 09:21 G	37475223.72	37475223.89	37475224.07	0.0136	0.0061
Mercury	97891-10-26 17:02 G	37475312.03	37475312.21	37475312.41	0.0136	0.0034
Mercury	97892-01-23 00:57 G	37475400.34	37475400.54	37475400.74	0.0136	0.0005
Mercury	97892-04-20 08:38 G	37475488.67	37475488.86	37475489.05	0.0136	0.0023
Mercury	97892-07-17 16:04 G	37475577.00	37475577.17	37475577.36	0.0136	0.0051
Mercury	97892-10-13 23:31 G	37475665.34	37475665.48	37475665.66	0.0136	0.0079
Mercury	97893-01-10 07:26 G	37475753.69	37475753.81	37475753.93	0.0136	0.0106
Mercury	97893-04-08 14:52 G	37475842.10	37475842.12	37475842.16	0.0136	0.0134
Moon	97906-09-05 14:24 G	37480738.89	37480739.10	37480739.32	0.0135	0.0070
Earth	97906-09-05 17:45 G	37480739.04	37480739.24	37480739.47	0.0135	0.0069 *
Earth	97907-09-10 00:14 G	37481108.26	37481108.51	37481108.76	0.0135	0.0012
Moon	97907-09-10 03:35 G	37481108.40	37481108.65	37481108.90	0.0135	0.0018 *
Moon	97908-09-13 02:38 G	37481477.43	37481477.61	37481477.82	0.0135	0.0086
Earth	97908-09-13 06:14 G	37481477.60	37481477.76	37481477.96	0.0135	0.0093 *
Venus	97913-08-12 18:57 G	37483272.20	37483272.29	37483272.39	0.0136	0.0120
Venus	97914-03-27 00:28 G	37483498.38	37483498.52	37483498.67	0.0136	0.0100
Venus	97914-11-08 06:14 G	37483724.59	37483724.76	37483724.94	0.0136	0.0079
Venus	97915-06-22 12:14 G	37483950.82	37483951.01	37483951.21	0.0136	0.0058

Venus	97916-02-03 18:14 G	37484177.06	37484177.26	37484177.48	0.0136	0.0037
Venus	97916-09-17 00:43 G	37484403.31	37484403.53	37484403.74	0.0136	0.0016
Venus	97917-05-01 06:57 G	37484629.57	37484629.79	37484630.01	0.0136	0.0006
Venus	97917-12-13 13:26 G	37484855.85	37484856.06	37484856.27	0.0137	0.0028
Venus	97918-07-27 19:55 G	37485082.14	37485082.33	37485082.54	0.0137	0.0050
Venus	97919-03-11 02:52 G	37485308.44	37485308.62	37485308.81	0.0137	0.0071
Venus	97919-10-23 09:50 G	37485534.76	37485534.91	37485535.08	0.0137	0.0093
Venus	97920-06-05 17:16 G	37485761.10	37485761.22	37485761.34	0.0137	0.0115
Venus	97921-01-18 00:28 G	37485987.51	37485987.52	37485987.55	0.0137	0.0137
Mars	97926-03-23 15:35 G	37487877.84	37487878.15	37487878.46	0.0139	0.0021
Mercury	97933-11-04 08:09 G	37490660.82	37490660.84	37490660.88	0.0142	0.0136
Mercury	97934-01-31 11:31 G	37490748.92	37490748.98	37490749.06	0.0142	0.0116
Mercury	97934-04-29 14:52 G	37490837.03	37490837.12	37490837.23	0.0142	0.0095
Mercury	97934-07-26 18:28 G	37490925.16	37490925.27	37490925.38	0.0142	0.0073
Mercury	97934-10-22 21:50 G	37491013.29	37491013.41	37491013.54	0.0142	0.0052
Mercury	97935-01-19 01:26 G	37491101.43	37491101.56	37491101.68	0.0142	0.0031
Mercury	97935-04-17 04:48 G	37491189.57	37491189.70	37491189.83	0.0142	0.0010
Mercury	97935-07-14 08:09 G	37491277.71	37491277.84	37491277.97	0.0142	0.0011
Mercury	97935-10-10 11:31 G	37491365.86	37491365.98	37491366.11	0.0142	0.0033
Mercury	97936-01-06 15:07 G	37491454.01	37491454.13	37491454.25	0.0142	0.0054
Mercury	97936-04-03 18:28 G	37491542.16	37491542.27	37491542.38	0.0142	0.0076
Mercury	97936-06-30 21:50 G	37491630.32	37491630.41	37491630.51	0.0142	0.0097
Mercury	97936-09-27 01:26 G	37491718.49	37491718.56	37491718.63	0.0142	0.0119
Mercury	97936-12-24 04:48 G	37491806.69	37491806.70	37491806.73	0.0142	0.0140
Moon	97948-03-05 18:28 G	37495896.07	37495896.27	37495896.49	0.0144	0.0089
Earth	97948-03-05 18:28 G	37495896.09	37495896.27	37495896.49	0.0144	0.0091 *
Moon	97949-03-10 20:09 G	37496266.09	37496266.34	37496266.59	0.0143	0.0005
Earth	97949-03-10 21:07 G	37496266.12	37496266.38	37496266.64	0.0143	0.0011 *
Earth	97950-03-15 23:16 G	37496636.31	37496636.47	37496636.63	0.0143	0.0112
Moon	97950-03-16 00:14 G	37496636.38	37496636.51	37496636.67	0.0143	0.0119 *

Venus	97954-07-13 19:11 G	37498217.22	37498217.30	37498217.41	0.0143	0.0128
Venus	97955-02-25 07:11 G	37498443.65	37498443.80	37498443.96	0.0142	0.0103
Venus	97955-10-09 18:43 G	37498670.10	37498670.28	37498670.47	0.0142	0.0078
Venus	97956-05-23 06:00 G	37498896.55	37498896.75	37498896.96	0.0142	0.0053
Venus	97957-01-04 17:16 G	37499123.01	37499123.22	37499123.44	0.0142	0.0028
Venus	97957-08-19 04:19 G	37499349.46	37499349.68	37499349.90	0.0142	0.0003
Venus	97958-04-02 14:52 G	37499575.91	37499576.12	37499576.35	0.0142	0.0022
Venus	97958-11-15 01:40 G	37499802.36	37499802.57	37499802.78	0.0141	0.0046
Venus	97959-06-29 12:00 G	37500028.82	37500029.00	37500029.20	0.0141	0.0070
Venus	97960-02-10 22:19 G	37500255.28	37500255.43	37500255.60	0.0141	0.0094
Venus	97960-09-24 08:09 G	37500481.74	37500481.84	37500481.98	0.0141	0.0117
Venus	97961-05-08 18:00 G	37500708.25	37500708.25	37500708.29	0.0141	0.0140
Mars	97966-10-19 01:11 G	37502697.32	37502697.55	37502697.82	0.0139	0.0077
Mercury	97975-02-25 01:11 G	37505748.45	37505748.55	37505748.68	0.0136	0.0110
Mercury	97975-05-24 09:07 G	37505836.73	37505836.88	37505837.04	0.0136	0.0081
Mercury	97975-08-20 16:48 G	37505925.03	37505925.20	37505925.39	0.0136	0.0053
Mercury	97975-11-17 00:28 G	37506013.33	37506013.52	37506013.72	0.0136	0.0025
Mercury	97976-02-13 08:24 G	37506101.65	37506101.85	37506102.04	0.0136	0.0003
Mercury	97976-05-11 15:50 G	37506189.98	37506190.16	37506190.36	0.0136	0.0031
Mercury	97976-08-07 23:31 G	37506278.31	37506278.48	37506278.66	0.0136	0.0059
Mercury	97976-11-04 06:57 G	37506366.66	37506366.79	37506366.96	0.0136	0.0087
Mercury	97977-01-31 14:52 G	37506455.02	37506455.12	37506455.23	0.0136	0.0114
Moon	97990-09-06 02:09 G	37511420.38	37511420.59	37511420.83	0.0135	0.0060
Earth	97990-09-06 05:45 G	37511420.53	37511420.74	37511420.97	0.0135	0.0062 *
Earth	97991-09-10 12:14 G	37511789.77	37511790.01	37511790.26	0.0135	0.0019
Moon	97991-09-10 15:50 G	37511789.91	37511790.16	37511790.41	0.0135	0.0014 *
Moon	97992-09-13 15:21 G	37512159.00	37512159.14	37512159.30	0.0135	0.0106
Earth	97992-09-13 18:57 G	37512159.12	37512159.29	37512159.46	0.0135	0.0099 *
Venus	97997-04-12 06:00 G	37513830.68	37513830.75	37513830.83	0.0136	0.0127
Venus	97997-11-24 11:31 G	37514056.86	37514056.98	37514057.12	0.0136	0.0107

Venus	97998-07-08 17:16 G	37514283.07	37514283.22	37514283.40	0.0136	0.0087
Venus	97999-02-19 23:02 G	37514509.29	37514509.46	37514509.66	0.0136	0.0066
Venus	97999-10-04 05:02 G	37514735.52	37514735.71	37514735.93	0.0136	0.0045
Venus	98000-05-17 11:31 G	37514961.76	37514961.98	37514962.19	0.0136	0.0024
Venus	98000-12-29 17:45 G	37515188.02	37515188.24	37515188.45	0.0136	0.0003

99TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 99th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	98001-08-13 00:14 G		37515414.30	37515414.51	37515414.73	0.0137	0.0019	
Venus	98002-03-27 06:57 G		37515640.58	37515640.79	37515640.99	0.0137	0.0041	
Venus	98002-11-08 13:26 G		37515866.88	37515867.06	37515867.26	0.0137	0.0063	
Venus	98003-06-22 20:38 G		37516093.19	37516093.36	37516093.53	0.0137	0.0084	
Venus	98004-02-04 03:35 G		37516319.53	37516319.65	37516319.80	0.0137	0.0106	
Venus	98004-09-17 10:48 G		37516545.90	37516545.95	37516546.05	0.0137	0.0129	
Mercury	98017-11-24 15:50 G		37521362.12	37521362.16	37521362.23	0.0142	0.0129	
Mercury	98018-02-20 19:26 G		37521450.23	37521450.31	37521450.40	0.0142	0.0108	
Mercury	98018-05-19 22:48 G		37521538.35	37521538.45	37521538.56	0.0142	0.0087	
Mercury	98018-08-16 02:24 G		37521626.48	37521626.60	37521626.72	0.0142	0.0065	
Mercury	98018-11-12 05:45 G		37521714.62	37521714.74	37521714.87	0.0142	0.0044	
Mercury	98019-02-08 09:07 G		37521802.75	37521802.88	37521803.01	0.0142	0.0023	
Mercury	98019-05-07 12:43 G		37521890.90	37521891.03	37521891.16	0.0142	0.0004	
Mercury	98019-08-03 16:04 G		37521979.04	37521979.17	37521979.30	0.0142	0.0020	

Mercury	98019-10-30 19:26 G	37522067.19	37522067.31	37522067.44	0.0142	0.0041
Mercury	98020-01-26 22:48 G	37522155.34	37522155.45	37522155.57	0.0142	0.0063
Mercury	98020-04-24 02:24 G	37522243.49	37522243.60	37522243.70	0.0142	0.0084
Mercury	98020-07-21 05:45 G	37522331.66	37522331.74	37522331.83	0.0142	0.0105
Mercury	98020-10-17 09:21 G	37522419.83	37522419.89	37522419.95	0.0142	0.0127
Moon	98032-03-06 07:55 G	37526577.61	37526577.83	37526578.04	0.0143	0.0084
Earth	98032-03-06 08:09 G	37526577.63	37526577.84	37526578.05	0.0143	0.0082 *
Earth	98033-03-11 10:19 G	37526947.68	37526947.93	37526948.19	0.0143	0.0019
Moon	98033-03-11 10:19 G	37526947.69	37526947.93	37526948.18	0.0143	0.0025 *
Earth	98034-03-16 12:00 G	37527317.88	37527318.00	37527318.16	0.0143	0.0121
Moon	98034-03-16 13:40 G	37527317.92	37527318.07	37527318.24	0.0143	0.0112 *
Venus	98038-03-13 02:52 G	37528775.58	37528775.62	37528775.70	0.0143	0.0137
Venus	98038-10-25 15:07 G	37529001.99	37529002.13	37529002.26	0.0143	0.0112
Venus	98039-06-09 02:24 G	37529228.44	37529228.60	37529228.78	0.0142	0.0088
Venus	98040-01-21 14:09 G	37529454.89	37529455.09	37529455.29	0.0142	0.0063
Venus	98040-09-04 01:11 G	37529681.34	37529681.55	37529681.77	0.0142	0.0038
Venus	98041-04-18 12:14 G	37529907.79	37529908.01	37529908.23	0.0142	0.0013
Venus	98041-11-30 23:02 G	37530134.25	37530134.46	37530134.68	0.0142	0.0012
Venus	98042-07-15 09:50 G	37530360.70	37530360.91	37530361.12	0.0142	0.0036
Venus	98043-02-26 20:09 G	37530587.16	37530587.34	37530587.55	0.0141	0.0061
Venus	98043-10-11 06:28 G	37530813.61	37530813.77	37530813.96	0.0141	0.0084
Venus	98044-05-24 16:48 G	37531040.07	37531040.20	37531040.35	0.0141	0.0107
Venus	98045-01-06 02:52 G	37531266.54	37531266.62	37531266.70	0.0141	0.0130
Mars	98049-07-12 04:48 G	37532914.51	37532914.70	37532914.95	0.0139	0.0097
Mercury	98058-12-19 00:57 G	37536361.49	37536361.54	37536361.60	0.0136	0.0130
Mercury	98059-03-17 08:38 G	37536449.74	37536449.86	37536450.00	0.0136	0.0102
Mercury	98059-06-13 16:19 G	37536538.03	37536538.18	37536538.36	0.0136	0.0074
Mercury	98059-09-10 00:14 G	37536626.33	37536626.51	37536626.70	0.0136	0.0045
Mercury	98059-12-07 07:55 G	37536714.64	37536714.83	37536715.03	0.0136	0.0017
Mercury	98060-03-04 15:35 G	37536802.96	37536803.15	37536803.35	0.0136	0.0011

Mercury	98060-05-31 23:16 G	37536891.29	37536891.47	37536891.66	0.0136	0.0039
Mercury	98060-08-28 06:43 G	37536979.62	37536979.78	37536979.96	0.0136	0.0067
Mercury	98060-11-24 14:24 G	37537067.97	37537068.10	37537068.25	0.0136	0.0095
Mercury	98061-02-20 22:04 G	37537156.35	37537156.42	37537156.51	0.0136	0.0122
Moon	98074-09-06 14:24 G	37542101.88	37542102.10	37542102.32	0.0135	0.0057
Earth	98074-09-06 17:16 G	37542102.00	37542102.22	37542102.46	0.0135	0.0057 *
Earth	98075-09-10 23:45 G	37542471.25	37542471.49	37542471.74	0.0135	0.0025
Moon	98075-09-11 03:07 G	37542471.39	37542471.63	37542471.89	0.0135	0.0030 *
Moon	98076-09-14 02:52 G	37542840.47	37542840.62	37542840.80	0.0135	0.0099
Earth	98076-09-14 06:00 G	37542840.62	37542840.75	37542840.93	0.0135	0.0106 *
Venus	98080-12-10 16:19 G	37544389.17	37544389.18	37544389.22	0.0135	0.0135
Venus	98081-07-24 22:04 G	37544615.32	37544615.42	37544615.55	0.0136	0.0115
Venus	98082-03-08 04:04 G	37544841.52	37544841.67	37544841.82	0.0136	0.0094
Venus	98082-10-20 09:35 G	37545067.73	37545067.90	37545068.09	0.0136	0.0074
Venus	98083-06-03 15:21 G	37545293.95	37545294.14	37545294.35	0.0136	0.0053
Venus	98084-01-15 21:35 G	37545520.20	37545520.40	37545520.62	0.0136	0.0032
Venus	98084-08-29 04:04 G	37545746.45	37545746.67	37545746.88	0.0136	0.0011
Venus	98085-04-12 10:19 G	37545972.72	37545972.93	37545973.15	0.0136	0.0011
Venus	98085-11-24 16:48 G	37546199.00	37546199.20	37546199.42	0.0137	0.0033
Venus	98086-07-08 23:45 G	37546425.29	37546425.49	37546425.69	0.0137	0.0054
Venus	98087-02-20 06:28 G	37546651.60	37546651.77	37546651.96	0.0137	0.0076
Venus	98087-10-04 13:40 G	37546877.92	37546878.07	37546878.23	0.0137	0.0097
Venus	98088-05-17 20:38 G	37547104.27	37547104.36	37547104.48	0.0137	0.0119
Mars	98093-08-09 14:24 G	37549013.81	37549014.10	37549014.41	0.0139	0.0033
Mercury	98101-12-15 23:31 G	37552063.42	37552063.48	37552063.55	0.0142	0.0122
Mercury	98102-03-14 03:07 G	37552151.54	37552151.63	37552151.72	0.0142	0.0101
Mercury	98102-06-10 06:28 G	37552239.67	37552239.77	37552239.88	0.0142	0.0080
Mercury	98102-09-06 09:50 G	37552327.80	37552327.91	37552328.03	0.0142	0.0059
Mercury	98102-12-03 13:11 G	37552415.93	37552416.05	37552416.18	0.0142	0.0038
Mercury	98103-03-01 16:48 G	37552504.07	37552504.20	37552504.33	0.0142	0.0016

Mercury	98103-05-28 20:09 G	37552592.21	37552592.34	37552592.47	0.0142	0.0006
Mercury	98103-08-24 23:31 G	37552680.36	37552680.48	37552680.62	0.0142	0.0027
Mercury	98103-11-21 03:07 G	37552768.51	37552768.63	37552768.75	0.0142	0.0048
Mercury	98104-02-17 06:28 G	37552856.66	37552856.77	37552856.89	0.0142	0.0069
Mercury	98104-05-15 09:50 G	37552944.82	37552944.91	37552945.02	0.0142	0.0091
Mercury	98104-08-11 13:11 G	37553032.98	37553033.05	37553033.14	0.0142	0.0113
Mercury	98104-11-07 16:48 G	37553121.16	37553121.20	37553121.25	0.0142	0.0134
Moon	98116-03-07 18:57 G	37557259.08	37557259.29	37557259.53	0.0143	0.0075
Earth	98116-03-07 20:38 G	37557259.14	37557259.36	37557259.58	0.0143	0.0075 *
Earth	98117-03-12 22:48 G	37557629.20	37557629.45	37557629.71	0.0143	0.0027
Moon	98117-03-12 22:48 G	37557629.21	37557629.45	37557629.70	0.0143	0.0021 *
Earth	98118-03-18 00:57 G	37557999.43	37557999.54	37557999.66	0.0143	0.0128
Moon	98118-03-18 00:43 G	37557999.47	37557999.53	37557999.64	0.0143	0.0135 *
Venus	98122-06-25 22:48 G	37559560.34	37559560.45	37559560.57	0.0143	0.0121
Venus	98123-02-07 10:33 G	37559786.79	37559786.94	37559787.11	0.0142	0.0097
Venus	98123-09-21 22:19 G	37560013.24	37560013.43	37560013.62	0.0142	0.0072
Venus	98124-05-05 09:21 G	37560239.69	37560239.89	37560240.11	0.0142	0.0047
Venus	98124-12-17 20:38 G	37560466.15	37560466.36	37560466.58	0.0142	0.0023
Venus	98125-08-01 07:40 G	37560692.60	37560692.82	37560693.04	0.0142	0.0003
Venus	98126-03-15 18:43 G	37560919.06	37560919.28	37560919.49	0.0142	0.0027
Venus	98126-10-28 05:16 G	37561145.52	37561145.72	37561145.93	0.0141	0.0051
Venus	98127-06-11 15:50 G	37561371.97	37561372.16	37561372.34	0.0141	0.0075
Venus	98128-01-24 01:55 G	37561598.43	37561598.58	37561598.74	0.0141	0.0098
Venus	98128-09-06 12:14 G	37561824.90	37561825.01	37561825.12	0.0141	0.0121
Mars	98134-03-08 11:31 G	37563833.69	37563833.98	37563834.28	0.0139	0.0024
Mercury	98143-01-09 09:07 G	37567062.78	37567062.88	37567062.97	0.0136	0.0120
Mercury	98143-04-07 16:48 G	37567151.05	37567151.20	37567151.34	0.0136	0.0092
Mercury	98143-07-05 00:28 G	37567239.35	37567239.52	37567239.69	0.0136	0.0063
Mercury	98143-10-01 08:09 G	37567327.65	37567327.84	37567328.03	0.0136	0.0035
Mercury	98143-12-28 15:50 G	37567415.97	37567416.16	37567416.36	0.0136	0.0007

Mercury	98144-03-25 23:31 G	37567504.29	37567504.48	37567504.67	0.0136	0.0021
Mercury	98144-06-22 06:57 G	37567592.62	37567592.79	37567592.98	0.0136	0.0049
Mercury	98144-09-18 14:52 G	37567680.96	37567681.12	37567681.28	0.0136	0.0076
Mercury	98144-12-15 22:19 G	37567769.31	37567769.43	37567769.56	0.0136	0.0104
Mercury	98145-03-14 05:45 G	37567857.71	37567857.74	37567857.80	0.0136	0.0132
Earth	98157-09-03 22:19 G	37572414.40	37572414.43	37572414.50	0.0134	0.0132
Moon	98157-09-04 01:26 G	37572414.50	37572414.56	37572414.64	0.0134	0.0129 *
Moon	98158-09-08 01:40 G	37572783.35	37572783.57	37572783.81	0.0135	0.0050
Earth	98158-09-08 05:02 G	37572783.48	37572783.71	37572783.95	0.0135	0.0051 *
Earth	98159-09-12 11:16 G	37573152.74	37573152.97	37573153.22	0.0135	0.0031
Moon	98159-09-12 14:24 G	37573152.86	37573153.10	37573153.36	0.0135	0.0027 *
Moon	98160-09-15 14:24 G	37573522.01	37573522.10	37573522.24	0.0135	0.0118
Earth	98160-09-15 18:00 G	37573522.11	37573522.25	37573522.39	0.0135	0.0111 *
Venus	98165-03-25 08:24 G	37575173.77	37575173.85	37575173.96	0.0135	0.0122
Venus	98165-11-06 13:55 G	37575399.95	37575400.08	37575400.23	0.0136	0.0102
Venus	98166-06-20 19:55 G	37575626.16	37575626.33	37575626.50	0.0136	0.0081
Venus	98167-02-02 01:26 G	37575852.38	37575852.56	37575852.77	0.0136	0.0061
Venus	98167-09-16 07:40 G	37576078.62	37576078.82	37576079.03	0.0136	0.0040
Venus	98168-04-29 13:55 G	37576304.87	37576305.08	37576305.29	0.0136	0.0019
Venus	98168-12-11 20:09 G	37576531.13	37576531.34	37576531.56	0.0136	0.0003
Venus	98169-07-26 02:38 G	37576757.40	37576757.61	37576757.83	0.0136	0.0024
Venus	98170-03-09 09:21 G	37576983.69	37576983.89	37576984.10	0.0137	0.0046
Venus	98170-10-21 16:04 G	37577209.99	37577210.17	37577210.37	0.0137	0.0067
Venus	98171-06-04 23:16 G	37577436.30	37577436.47	37577436.63	0.0137	0.0088
Venus	98172-01-17 06:00 G	37577662.64	37577662.75	37577662.89	0.0137	0.0110
Venus	98172-08-30 13:26 G	37577889.02	37577889.06	37577889.14	0.0137	0.0132
Mars	98178-04-05 21:21 G	37579933.16	37579933.39	37579933.65	0.0139	0.0086
Mercury	98185-10-09 03:21 G	37582676.62	37582676.64	37582676.68	0.0142	0.0138
Mercury	98186-01-05 06:43 G	37582764.72	37582764.78	37582764.86	0.0142	0.0117
Mercury	98186-04-03 10:19 G	37582852.84	37582852.93	37582853.03	0.0142	0.0095

Mercury	98186-06-30 13:40 G	37582940.96	37582941.07	37582941.19	0.0142	0.0075
Mercury	98186-09-26 17:16 G	37583029.10	37583029.22	37583029.34	0.0142	0.0053
Mercury	98186-12-23 20:38 G	37583117.23	37583117.36	37583117.49	0.0142	0.0032
Mercury	98187-03-22 00:00 G	37583205.37	37583205.50	37583205.63	0.0142	0.0011
Mercury	98187-06-18 03:35 G	37583293.51	37583293.65	37583293.78	0.0142	0.0011
Mercury	98187-09-14 06:57 G	37583381.66	37583381.79	37583381.92	0.0142	0.0032
Mercury	98187-12-11 10:19 G	37583469.81	37583469.93	37583470.05	0.0142	0.0053
Mercury	98188-03-08 13:40 G	37583557.96	37583558.07	37583558.19	0.0142	0.0074
Mercury	98188-06-04 17:16 G	37583646.12	37583646.22	37583646.31	0.0142	0.0096
Mercury	98188-08-31 20:24 G	37583734.29	37583734.35	37583734.44	0.0142	0.0118
Mercury	98188-11-28 00:00 G	37583822.48	37583822.50	37583822.53	0.0142	0.0139
Moon	98200-03-09 04:19 G	37587940.46	37587940.68	37587940.92	0.0143	0.0071
Earth	98200-03-09 05:45 G	37587940.53	37587940.74	37587940.98	0.0143	0.0071 *
Earth	98201-03-14 08:09 G	37588310.60	37588310.84	37588311.10	0.0143	0.0032
Moon	98201-03-14 09:21 G	37588310.66	37588310.89	37588311.14	0.0143	0.0036 *
Moon	98202-03-19 10:04 G	37588680.81	37588680.92	37588681.07	0.0143	0.0126
Earth	98202-03-19 10:19 G	37588680.84	37588680.93	37588681.03	0.0143	0.0133 *
Venus	98206-02-24 04:33 G	37590118.62	37590118.69	37590118.79	0.0143	0.0131
Venus	98206-10-08 16:19 G	37590345.05	37590345.18	37590345.34	0.0143	0.0107
Venus	98207-05-23 03:50 G	37590571.50	37590571.66	37590571.85	0.0142	0.0082
Venus	98208-01-04 15:35 G	37590797.95	37590798.15	37590798.36	0.0142	0.0057
Venus	98208-08-18 02:52 G	37591024.41	37591024.62	37591024.84	0.0142	0.0033
Venus	98209-04-01 14:09 G	37591250.87	37591251.09	37591251.31	0.0142	0.0008
Venus	98209-11-14 00:57 G	37591477.33	37591477.54	37591477.76	0.0142	0.0017
Venus	98210-06-28 11:45 G	37591703.79	37591703.99	37591704.21	0.0141	0.0041
Venus	98211-02-09 22:33 G	37591930.25	37591930.44	37591930.64	0.0141	0.0065
Venus	98211-09-24 08:52 G	37592156.71	37592156.87	37592157.05	0.0141	0.0088
Venus	98212-05-07 19:11 G	37592383.17	37592383.30	37592383.44	0.0141	0.0111
Venus	98212-12-20 05:16 G	37592609.66	37592609.72	37592609.79	0.0141	0.0134
Mars	98218-11-02 09:07 G	37594752.87	37594752.88	37594752.94	0.0139	0.0138

Mercury	98227-01-30 16:04 G	37597764.07	37597764.17	37597764.29	0.0136	0.0112
Mercury	98227-04-28 23:45 G	37597852.35	37597852.49	37597852.65	0.0136	0.0084
Mercury	98227-07-26 07:26 G	37597940.64	37597940.81	37597941.00	0.0136	0.0056
Mercury	98227-10-22 15:21 G	37598028.95	37598029.14	37598029.33	0.0136	0.0028
Mercury	98228-01-18 23:02 G	37598117.27	37598117.46	37598117.66	0.0136	0.0002
Mercury	98228-04-16 06:43 G	37598205.59	37598205.78	37598205.97	0.0136	0.0028
Mercury	98228-07-13 14:24 G	37598293.92	37598294.10	37598294.28	0.0136	0.0056
Mercury	98228-10-09 21:50 G	37598382.27	37598382.41	37598382.57	0.0136	0.0084
Mercury	98229-01-06 05:45 G	37598470.63	37598470.74	37598470.85	0.0136	0.0111
Earth	98241-09-05 09:07 G	37603095.82	37603095.88	37603095.99	0.0134	0.0127
Moon	98241-09-05 12:28 G	37603095.95	37603096.02	37603096.11	0.0134	0.0128 *
Moon	98242-09-09 13:26 G	37603464.84	37603465.06	37603465.30	0.0135	0.0046
Earth	98242-09-09 15:50 G	37603464.93	37603465.16	37603465.40	0.0135	0.0046 *
Earth	98243-09-13 22:04 G	37603834.19	37603834.42	37603834.67	0.0135	0.0036
Moon	98243-09-14 01:11 G	37603834.31	37603834.55	37603834.80	0.0135	0.0040 *
Moon	98244-09-17 01:26 G	37604203.44	37604203.56	37604203.71	0.0135	0.0111
Earth	98244-09-17 04:19 G	37604203.57	37604203.68	37604203.82	0.0135	0.0117 *
Venus	98248-11-23 18:28 G	37605732.22	37605732.27	37605732.34	0.0135	0.0129
Venus	98249-07-08 00:14 G	37605958.39	37605958.51	37605958.64	0.0135	0.0109
Venus	98250-02-19 05:45 G	37606184.58	37606184.74	37606184.91	0.0136	0.0089
Venus	98250-10-03 11:16 G	37606410.80	37606410.97	37606411.17	0.0136	0.0069
Venus	98251-05-17 17:16 G	37606637.03	37606637.22	37606637.43	0.0136	0.0048
Venus	98251-12-29 23:16 G	37606863.27	37606863.47	37606863.69	0.0136	0.0027
Venus	98252-08-12 05:45 G	37607089.53	37607089.74	37607089.96	0.0136	0.0006
Venus	98253-03-26 12:14 G	37607315.80	37607316.01	37607316.23	0.0136	0.0016
Venus	98253-11-07 18:43 G	37607542.07	37607542.28	37607542.49	0.0136	0.0037
Venus	98254-06-22 01:11 G	37607768.36	37607768.55	37607768.76	0.0137	0.0058
Venus	98255-02-03 07:55 G	37607994.67	37607994.83	37607995.02	0.0137	0.0080
Venus	98255-09-17 15:07 G	37608221.00	37608221.13	37608221.29	0.0137	0.0101
Venus	98256-04-30 22:19 G	37608447.34	37608447.43	37608447.54	0.0137	0.0122

Mars	98260-12-28 06:00 G	37610149.55	37610149.75	37610150.00	0.0139	0.0096
Mercury	98269-10-30 10:19 G	37613377.90	37613377.93	37613377.98	0.0142	0.0134
Mercury	98270-01-26 13:55 G	37613466.01	37613466.08	37613466.16	0.0142	0.0113
Mercury	98270-04-24 17:16 G	37613554.13	37613554.22	37613554.32	0.0142	0.0092
Mercury	98270-07-21 20:38 G	37613642.25	37613642.36	37613642.48	0.0142	0.0071
Mercury	98270-10-18 00:00 G	37613730.39	37613730.50	37613730.63	0.0142	0.0050
Mercury	98271-01-14 03:35 G	37613818.52	37613818.65	37613818.78	0.0142	0.0028
Mercury	98271-04-12 06:57 G	37613906.66	37613906.79	37613906.92	0.0142	0.0008
Mercury	98271-07-09 10:19 G	37613994.80	37613994.93	37613995.07	0.0142	0.0015
Mercury	98271-10-05 13:55 G	37614082.95	37614083.08	37614083.20	0.0142	0.0035
Mercury	98272-01-01 17:16 G	37614171.10	37614171.22	37614171.34	0.0142	0.0056
Mercury	98272-03-29 20:38 G	37614259.26	37614259.36	37614259.47	0.0142	0.0078
Mercury	98272-06-26 00:00 G	37614347.42	37614347.50	37614347.60	0.0142	0.0099
Mercury	98272-09-22 03:35 G	37614435.58	37614435.65	37614435.72	0.0142	0.0120
Mercury	98272-12-19 06:57 G	37614523.79	37614523.79	37614523.80	0.0142	0.0142
Moon	98284-03-09 10:33 G	37618621.72	37618621.94	37618622.18	0.0143	0.0069
Earth	98284-03-09 13:11 G	37618621.83	37618622.05	37618622.28	0.0143	0.0068 *
Earth	98285-03-14 15:21 G	37618991.90	37618992.14	37618992.40	0.0143	0.0034
Moon	98285-03-14 16:33 G	37618991.95	37618992.19	37618992.44	0.0143	0.0030 *
Moon	98286-03-19 15:35 G	37619362.15	37619362.15	37619362.21	0.0143	0.0143
Earth	98286-03-19 17:02 G	37619362.15	37619362.21	37619362.31	0.0143	0.0136 *
Venus	98289-10-24 08:38 G	37620676.86	37620676.86	37620676.91	0.0143	0.0142
Venus	98290-06-07 20:38 G	37620903.25	37620903.36	37620903.50	0.0143	0.0118
Venus	98291-01-20 08:38 G	37621129.71	37621129.86	37621130.04	0.0142	0.0093
Venus	98291-09-03 20:09 G	37621356.16	37621356.34	37621356.55	0.0142	0.0069
Venus	98292-04-17 07:55 G	37621582.62	37621582.83	37621583.04	0.0142	0.0043
Venus	98292-11-29 19:11 G	37621809.08	37621809.30	37621809.52	0.0142	0.0019
Venus	98293-07-14 06:14 G	37622035.54	37622035.76	37622035.98	0.0142	0.0006
Venus	98294-02-25 17:31 G	37622262.01	37622262.23	37622262.44	0.0142	0.0030
Venus	98294-10-10 03:50 G	37622488.47	37622488.66	37622488.88	0.0141	0.0055

Venus	98295-05-24 14:38 G	37622714.93	37622715.11	37622715.30	0.0141	0.0078
Venus	98296-01-06 00:57 G	37622941.40	37622941.54	37622941.70	0.0141	0.0101
Venus	98296-08-19 11:16 G	37623167.88	37623167.97	37623168.08	0.0141	0.0124
Mars	98301-07-27 07:11 G	37624969.52	37624969.80	37624970.11	0.0139	0.0040
Mercury	98310-11-24 14:52 G	37628377.11	37628377.12	37628377.18	0.0136	0.0135
Mercury	98311-02-20 23:02 G	37628465.34	37628465.46	37628465.59	0.0136	0.0106
Mercury	98311-05-20 06:57 G	37628553.63	37628553.79	37628553.95	0.0136	0.0078
Mercury	98311-08-16 14:38 G	37628641.93	37628642.11	37628642.29	0.0136	0.0049
Mercury	98311-11-12 22:19 G	37628730.24	37628730.43	37628730.63	0.0136	0.0021
Mercury	98312-02-09 06:00 G	37628818.56	37628818.75	37628818.95	0.0136	0.0007
Mercury	98312-05-07 13:40 G	37628906.89	37628907.07	37628907.26	0.0136	0.0035
Mercury	98312-08-03 21:21 G	37628995.22	37628995.39	37628995.57	0.0136	0.0062
Mercury	98312-10-31 05:02 G	37629083.57	37629083.71	37629083.86	0.0136	0.0090
Mercury	98313-01-27 12:28 G	37629171.94	37629172.02	37629172.13	0.0136	0.0118
Earth	98325-09-06 20:09 G	37633777.25	37633777.34	37633777.46	0.0135	0.0122
Moon	98325-09-06 22:19 G	37633777.32	37633777.43	37633777.57	0.0135	0.0118 *
Moon	98326-09-11 00:14 G	37634146.28	37634146.51	37634146.75	0.0135	0.0040
Earth	98326-09-11 02:38 G	37634146.38	37634146.61	37634146.86	0.0135	0.0041 *
Earth	98327-09-15 09:07 G	37634515.64	37634515.88	37634516.12	0.0135	0.0041
Moon	98327-09-15 11:02 G	37634515.73	37634515.96	37634516.22	0.0135	0.0039 *
Moon	98328-09-18 12:43 G	37634884.97	37634885.03	37634885.12	0.0135	0.0128
Earth	98328-09-18 15:07 G	37634885.04	37634885.13	37634885.25	0.0135	0.0122 *
Venus	98333-03-08 10:04 G	37636516.83	37636516.92	37636517.05	0.0135	0.0117
Venus	98333-10-20 15:35 G	37636743.02	37636743.15	37636743.32	0.0135	0.0097
Venus	98334-06-03 21:35 G	37636969.23	37636969.40	37636969.58	0.0136	0.0076
Venus	98335-01-16 03:21 G	37637195.45	37637195.64	37637195.84	0.0136	0.0056
Venus	98335-08-30 09:21 G	37637421.69	37637421.89	37637422.11	0.0136	0.0035
Venus	98336-04-12 15:35 G	37637647.94	37637648.15	37637648.37	0.0136	0.0014
Venus	98336-11-24 22:04 G	37637874.20	37637874.42	37637874.63	0.0136	0.0008
Venus	98337-07-09 04:33 G	37638100.48	37638100.69	37638100.90	0.0136	0.0029

Venus	98338-02-20 11:02 G	37638326.76	37638326.96	37638327.16	0.0136	0.0050
Venus	98338-10-04 17:45 G	37638553.06	37638553.24	37638553.43	0.0137	0.0071
Venus	98339-05-19 00:43 G	37638779.37	37638779.53	37638779.69	0.0137	0.0092
Venus	98339-12-31 07:11 G	37639005.70	37639005.80	37639005.94	0.0137	0.0114
Venus	98340-08-13 15:07 G	37639232.09	37639232.13	37639232.17	0.0137	0.0135
Mars	98345-08-24 10:19 G	37641068.63	37641068.93	37641069.24	0.0139	0.0021
Mercury	98353-11-20 17:45 G	37644079.19	37644079.24	37644079.29	0.0141	0.0129
Mercury	98354-02-16 21:07 G	37644167.30	37644167.38	37644167.47	0.0142	0.0108
Mercury	98354-05-16 00:28 G	37644255.42	37644255.52	37644255.63	0.0142	0.0087
Mercury	98354-08-12 03:50 G	37644343.55	37644343.66	37644343.78	0.0142	0.0066
Mercury	98354-11-08 07:11 G	37644431.68	37644431.80	37644431.93	0.0142	0.0046
Mercury	98355-02-04 10:48 G	37644519.82	37644519.95	37644520.08	0.0142	0.0024
Mercury	98355-05-03 14:09 G	37644607.96	37644608.09	37644608.22	0.0142	0.0003
Mercury	98355-07-30 17:31 G	37644696.10	37644696.23	37644696.36	0.0142	0.0018
Mercury	98355-10-26 20:52 G	37644784.25	37644784.37	37644784.50	0.0142	0.0040
Mercury	98356-01-23 00:14 G	37644872.40	37644872.51	37644872.63	0.0142	0.0061
Mercury	98356-04-20 03:35 G	37644960.55	37644960.65	37644960.77	0.0142	0.0082
Mercury	98356-07-17 07:11 G	37645048.71	37645048.80	37645048.89	0.0142	0.0103
Mercury	98356-10-13 10:33 G	37645136.89	37645136.94	37645137.01	0.0142	0.0125
Moon	98368-03-10 17:02 G	37649302.99	37649303.21	37649303.47	0.0143	0.0065
Earth	98368-03-10 20:09 G	37649303.11	37649303.34	37649303.57	0.0143	0.0065 *
Earth	98369-03-15 21:50 G	37649673.17	37649673.41	37649673.67	0.0143	0.0037
Moon	98369-03-16 00:14 G	37649673.28	37649673.51	37649673.76	0.0143	0.0040 *
Moon	98370-03-20 22:04 G	37650043.34	37650043.42	37650043.55	0.0143	0.0132
Earth	98370-03-20 23:31 G	37650043.43	37650043.48	37650043.56	0.0143	0.0139 *
Venus	98374-02-06 00:28 G	37651461.45	37651461.52	37651461.64	0.0143	0.0129
Venus	98374-09-20 12:43 G	37651687.89	37651688.03	37651688.19	0.0142	0.0104
Venus	98375-05-05 00:14 G	37651914.34	37651914.51	37651914.70	0.0142	0.0080
Venus	98375-12-17 11:45 G	37652140.80	37652140.99	37652141.21	0.0142	0.0055
Venus	98376-07-30 23:31 G	37652367.26	37652367.48	37652367.69	0.0142	0.0030

Venus	98377-03-14 10:48 G	37652593.73	37652593.95	37652594.17	0.0142	0.0006
Venus	98377-10-26 21:50 G	37652820.19	37652820.41	37652820.63	0.0142	0.0019
Venus	98378-06-10 08:38 G	37653046.66	37653046.86	37653047.07	0.0141	0.0043
Venus	98379-01-22 19:26 G	37653273.12	37653273.31	37653273.51	0.0141	0.0066
Venus	98379-09-06 05:45 G	37653499.58	37653499.74	37653499.92	0.0141	0.0090
Venus	98380-04-19 16:04 G	37653726.05	37653726.17	37653726.31	0.0141	0.0113
Venus	98380-12-02 01:55 G	37653952.55	37653952.58	37653952.66	0.0141	0.0136
Mars	98386-03-22 01:26 G	37655888.31	37655888.56	37655888.84	0.0139	0.0069
Mercury	98394-12-14 21:07 G	37659078.34	37659078.38	37659078.45	0.0136	0.0131
Mercury	98395-03-13 05:02 G	37659166.59	37659166.71	37659166.85	0.0136	0.0102
Mercury	98395-06-09 12:43 G	37659254.88	37659255.03	37659255.21	0.0136	0.0075
Mercury	98395-09-05 20:38 G	37659343.18	37659343.36	37659343.55	0.0136	0.0046
Mercury	98395-12-03 04:19 G	37659431.49	37659431.68	37659431.88	0.0136	0.0018
Mercury	98396-02-29 12:14 G	37659519.81	37659520.01	37659520.20	0.0136	0.0010
Mercury	98396-05-27 19:40 G	37659608.14	37659608.32	37659608.52	0.0136	0.0039
Mercury	98396-08-24 03:21 G	37659696.48	37659696.64	37659696.82	0.0136	0.0066
Mercury	98396-11-20 10:48 G	37659784.83	37659784.95	37659785.11	0.0136	0.0094
Mercury	98397-02-16 18:43 G	37659873.20	37659873.28	37659873.37	0.0136	0.0121
Earth	98409-09-07 05:45 G	37664458.63	37664458.74	37664458.88	0.0135	0.0117
Moon	98409-09-07 07:40 G	37664458.72	37664458.82	37664458.95	0.0135	0.0120 *
Moon	98410-09-11 11:02 G	37664827.72	37664827.96	37664828.19	0.0135	0.0034
Earth	98410-09-11 12:14 G	37664827.78	37664828.01	37664828.26	0.0135	0.0036 *
Earth	98411-09-15 18:28 G	37665197.05	37665197.27	37665197.52	0.0135	0.0046
Moon	98411-09-15 20:38 G	37665197.13	37665197.36	37665197.61	0.0135	0.0049 *
Moon	98412-09-18 22:48 G	37665566.37	37665566.45	37665566.57	0.0135	0.0123
Earth	98412-09-19 00:57 G	37665566.47	37665566.54	37665566.63	0.0135	0.0127 *
Venus	98416-11-05 20:24 G	37667075.27	37667075.35	37667075.43	0.0135	0.0124
Venus	98417-06-20 01:55 G	37667301.45	37667301.58	37667301.72	0.0136	0.0104
Venus	98418-02-01 07:26 G	37667527.65	37667527.81	37667527.99	0.0136	0.0084
Venus	98418-09-15 13:11 G	37667753.87	37667754.05	37667754.25	0.0136	0.0064

Venus	98419-04-29 19:11 G	37667980.11	37667980.30	37667980.51	0.0136	0.0043
Venus	98419-12-12 01:26 G	37668206.35	37668206.56	37668206.78	0.0136	0.0022
Venus	98420-07-25 07:55 G	37668432.61	37668432.83	37668433.04	0.0136	0.0002
Venus	98421-03-08 14:09 G	37668658.88	37668659.09	37668659.31	0.0136	0.0020
Venus	98421-10-20 20:38 G	37668885.16	37668885.36	37668885.57	0.0136	0.0041
Venus	98422-06-04 03:07 G	37669111.45	37669111.63	37669111.83	0.0137	0.0063
Venus	98423-01-16 09:50 G	37669337.75	37669337.91	37669338.09	0.0137	0.0084
Venus	98423-08-30 16:48 G	37669564.08	37669564.20	37669564.36	0.0137	0.0105
Venus	98424-04-13 00:00 G	37669790.43	37669790.50	37669790.60	0.0137	0.0126
Mercury	98437-12-11 00:57 G	37674780.49	37674780.54	37674780.61	0.0141	0.0124
Mercury	98438-03-09 04:19 G	37674868.60	37674868.68	37674868.78	0.0142	0.0103
Mercury	98438-06-05 07:55 G	37674956.72	37674956.83	37674956.94	0.0142	0.0082
Mercury	98438-09-01 11:16 G	37675044.85	37675044.97	37675045.09	0.0142	0.0061
Mercury	98438-11-28 14:38 G	37675132.99	37675133.11	37675133.24	0.0142	0.0040
Mercury	98439-02-24 18:00 G	37675221.12	37675221.25	37675221.38	0.0142	0.0019
Mercury	98439-05-23 21:35 G	37675309.26	37675309.40	37675309.53	0.0142	0.0005
Mercury	98439-08-20 00:57 G	37675397.41	37675397.54	37675397.67	0.0142	0.0024
Mercury	98439-11-16 04:19 G	37675485.56	37675485.68	37675485.80	0.0142	0.0045
Mercury	98440-02-12 07:40 G	37675573.71	37675573.82	37675573.94	0.0142	0.0066
Mercury	98440-05-10 11:02 G	37675661.86	37675661.96	37675662.07	0.0142	0.0087
Mercury	98440-08-06 14:24 G	37675750.02	37675750.10	37675750.19	0.0142	0.0109
Mercury	98440-11-02 18:00 G	37675838.20	37675838.25	37675838.30	0.0142	0.0130
Moon	98452-03-11 01:26 G	37679984.34	37679984.56	37679984.81	0.0143	0.0064
Earth	98452-03-11 04:48 G	37679984.48	37679984.70	37679984.95	0.0143	0.0061 *
Earth	98453-03-16 06:43 G	37680354.54	37680354.78	37680355.03	0.0143	0.0042
Moon	98453-03-16 09:07 G	37680354.64	37680354.88	37680355.13	0.0143	0.0038 *
Earth	98454-03-21 08:09 G	37680724.83	37680724.84	37680724.87	0.0143	0.0143
Venus	98457-10-06 05:45 G	37682019.70	37682019.74	37682019.80	0.0143	0.0139
Venus	98458-05-20 17:31 G	37682246.12	37682246.23	37682246.38	0.0143	0.0115
Venus	98459-01-02 05:31 G	37682472.57	37682472.73	37682472.91	0.0142	0.0090

Venus	98459-08-16 17:16 G	37682699.03	37682699.22	37682699.42	0.0142	0.0066
Venus	98460-03-30 04:48 G	37682925.49	37682925.70	37682925.91	0.0142	0.0041
Venus	98460-11-11 16:04 G	37683151.96	37683152.17	37683152.39	0.0142	0.0017
Venus	98461-06-26 03:21 G	37683378.42	37683378.64	37683378.86	0.0142	0.0008
Venus	98462-02-07 14:24 G	37683604.89	37683605.10	37683605.32	0.0142	0.0032
Venus	98462-09-22 01:11 G	37683831.35	37683831.55	37683831.76	0.0141	0.0056
Venus	98463-05-06 11:31 G	37684057.82	37684057.98	37684058.18	0.0141	0.0080
Venus	98463-12-18 22:04 G	37684284.28	37684284.42	37684284.58	0.0141	0.0102
Venus	98464-08-01 08:09 G	37684510.76	37684510.84	37684510.95	0.0141	0.0125
Mars	98468-12-12 16:48 G	37686105.04	37686105.20	37686105.39	0.0140	0.0114
Jupiter	98475-07-29 11:02 G	37688524.47	37688524.96	37688525.48	0.0137	0.0035
Mercury	98479-01-04 03:50 G	37689779.59	37689779.66	37689779.74	0.0136	0.0126
Mercury	98479-04-02 11:31 G	37689867.85	37689867.98	37689868.12	0.0136	0.0098
Mercury	98479-06-29 19:11 G	37689956.14	37689956.30	37689956.48	0.0136	0.0070
Mercury	98479-09-26 03:07 G	37690044.45	37690044.63	37690044.82	0.0136	0.0041
Mercury	98479-12-23 10:48 G	37690132.76	37690132.95	37690133.15	0.0136	0.0013
Mercury	98480-03-20 18:28 G	37690221.08	37690221.27	37690221.47	0.0136	0.0015
Mercury	98480-06-17 02:09 G	37690309.41	37690309.59	37690309.78	0.0136	0.0043
Mercury	98480-09-13 09:35 G	37690397.75	37690397.90	37690398.08	0.0136	0.0071
Mercury	98480-12-10 17:31 G	37690486.10	37690486.23	37690486.37	0.0136	0.0098
Mercury	98481-03-09 00:57 G	37690574.48	37690574.54	37690574.62	0.0136	0.0126
Earth	98493-09-07 15:21 G	37695140.03	37695140.14	37695140.30	0.0135	0.0113
Moon	98493-09-07 16:04 G	37695140.04	37695140.17	37695140.35	0.0135	0.0108 *
Moon	98494-09-11 20:52 G	37695509.14	37695509.37	37695509.61	0.0135	0.0032
Earth	98494-09-11 22:19 G	37695509.19	37695509.43	37695509.67	0.0135	0.0031 *
Earth	98495-09-16 04:19 G	37695878.46	37695878.68	37695878.92	0.0135	0.0051
Moon	98495-09-16 05:16 G	37695878.49	37695878.72	37695878.97	0.0135	0.0050 *
Earth	98496-09-19 10:48 G	37696247.91	37696247.95	37696248.01	0.0135	0.0132
Venus	98500-07-07 06:14 G	37697633.72	37697633.76	37697633.82	0.0135	0.0132
Venus	98501-02-18 11:45 G	37697859.88	37697859.99	37697860.12	0.0136	0.0112

Venus	98501-10-02 17:31 G	37698086.08	37698086.23	37698086.40	0.0136	0.0092
Venus	98502-05-16 23:16 G	37698312.30	37698312.47	37698312.66	0.0136	0.0072
Venus	98502-12-29 05:16 G	37698538.52	37698538.72	37698538.92	0.0136	0.0051
Venus	98503-08-12 11:31 G	37698764.77	37698764.98	37698765.19	0.0136	0.0030
Venus	98504-03-25 17:45 G	37698991.02	37698991.24	37698991.45	0.0136	0.0010
Venus	98504-11-07 00:00 G	37699217.28	37699217.50	37699217.72	0.0136	0.0011
Venus	98505-06-21 06:14 G	37699443.56	37699443.76	37699443.98	0.0136	0.0033
Venus	98506-02-02 12:43 G	37699669.84	37699670.03	37699670.24	0.0137	0.0054
Venus	98506-09-16 19:40 G	37699896.14	37699896.32	37699896.51	0.0137	0.0075
Venus	98507-05-01 02:24 G	37700122.46	37700122.60	37700122.76	0.0137	0.0096
Venus	98507-12-13 09:21 G	37700348.79	37700348.89	37700349.01	0.0137	0.0117
Mars	98513-01-11 06:57 G	37702204.50	37702204.79	37702205.10	0.0139	0.0039
Mercury	98521-10-05 05:16 G	37705393.70	37705393.72	37705393.75	0.0141	0.0138
Mercury	98522-01-01 08:38 G	37705481.79	37705481.86	37705481.94	0.0141	0.0117
Mercury	98522-03-30 12:00 G	37705569.91	37705570.00	37705570.10	0.0142	0.0096
Mercury	98522-06-26 15:21 G	37705658.04	37705658.14	37705658.26	0.0142	0.0075
Mercury	98522-09-22 18:43 G	37705746.17	37705746.28	37705746.41	0.0142	0.0055
Mercury	98522-12-19 22:19 G	37705834.30	37705834.43	37705834.56	0.0142	0.0033
Mercury	98523-03-18 01:40 G	37705922.44	37705922.57	37705922.70	0.0142	0.0012
Mercury	98523-06-14 05:02 G	37706010.58	37706010.71	37706010.84	0.0142	0.0009
Mercury	98523-09-10 08:24 G	37706098.72	37706098.85	37706098.98	0.0142	0.0030
Mercury	98523-12-07 11:45 G	37706186.87	37706186.99	37706187.12	0.0142	0.0051
Mercury	98524-03-04 15:21 G	37706275.03	37706275.14	37706275.25	0.0142	0.0072
Mercury	98524-05-31 18:43 G	37706363.18	37706363.28	37706363.38	0.0142	0.0093
Mercury	98524-08-27 21:50 G	37706451.35	37706451.41	37706451.50	0.0142	0.0115
Mercury	98524-11-24 01:26 G	37706539.53	37706539.56	37706539.60	0.0142	0.0136
Moon	98536-03-12 12:43 G	37710665.80	37710666.03	37710666.29	0.0143	0.0051
Earth	98536-03-12 16:19 G	37710665.95	37710666.18	37710666.43	0.0143	0.0054 *
Earth	98537-03-17 17:45 G	37711036.00	37711036.24	37711036.49	0.0143	0.0048
Moon	98537-03-17 21:07 G	37711036.15	37711036.38	37711036.63	0.0143	0.0050 *

Moon	98538-03-22 16:48 G	37711406.20	37711406.20	37711406.20	0.0143	0.0143
Venus	98542-01-19 00:14 G	37712804.42	37712804.51	37712804.63	0.0142	0.0125
Venus	98542-09-02 12:00 G	37713030.86	37713031.00	37713031.17	0.0142	0.0101
Venus	98543-04-17 00:00 G	37713257.32	37713257.50	37713257.69	0.0142	0.0076
Venus	98543-11-29 11:31 G	37713483.78	37713483.98	37713484.19	0.0142	0.0051
Venus	98544-07-12 22:48 G	37713710.24	37713710.45	37713710.67	0.0142	0.0027
Venus	98545-02-24 10:19 G	37713936.71	37713936.93	37713937.15	0.0142	0.0003
Venus	98545-10-08 21:07 G	37714163.17	37714163.38	37714163.61	0.0142	0.0022
Venus	98546-05-23 07:55 G	37714389.63	37714389.83	37714390.05	0.0141	0.0045
Venus	98547-01-04 18:43 G	37714616.09	37714616.28	37714616.47	0.0141	0.0069
Venus	98547-08-19 05:02 G	37714842.55	37714842.71	37714842.88	0.0141	0.0092
Venus	98548-04-01 15:07 G	37715069.02	37715069.13	37715069.27	0.0141	0.0115
Venus	98548-11-14 01:26 G	37715295.52	37715295.56	37715295.61	0.0141	0.0137
Mars	98553-08-08 18:43 G	37717023.97	37717024.28	37717024.58	0.0139	0.0003
Mercury	98563-01-25 10:19 G	37720480.85	37720480.93	37720481.02	0.0136	0.0121
Mercury	98563-04-23 18:00 G	37720569.11	37720569.25	37720569.40	0.0136	0.0093
Mercury	98563-07-21 01:55 G	37720657.41	37720657.58	37720657.75	0.0136	0.0065
Mercury	98563-10-17 09:35 G	37720745.71	37720745.90	37720746.09	0.0136	0.0037
Mercury	98564-01-13 17:16 G	37720834.03	37720834.22	37720834.42	0.0136	0.0009
Mercury	98564-04-11 00:57 G	37720922.35	37720922.54	37720922.74	0.0136	0.0019
Mercury	98564-07-08 08:38 G	37721010.68	37721010.86	37721011.05	0.0136	0.0047
Mercury	98564-10-04 16:04 G	37721099.02	37721099.17	37721099.34	0.0136	0.0075
Mercury	98564-12-31 23:45 G	37721187.37	37721187.49	37721187.63	0.0136	0.0103
Mercury	98565-03-30 07:26 G	37721275.77	37721275.81	37721275.87	0.0136	0.0130
Earth	98577-09-09 00:28 G	37725821.40	37725821.52	37725821.69	0.0135	0.0109
Moon	98577-09-09 01:26 G	37725821.42	37725821.56	37725821.70	0.0135	0.0113 *
Earth	98578-09-13 07:26 G	37726190.56	37726190.81	37726191.06	0.0135	0.0027
Moon	98578-09-13 07:26 G	37726190.57	37726190.81	37726191.05	0.0135	0.0024 *
Earth	98579-09-17 13:40 G	37726559.85	37726560.07	37726560.31	0.0135	0.0055
Moon	98579-09-17 14:09 G	37726559.87	37726560.09	37726560.34	0.0135	0.0056 *

Moon	98580-09-20 19:26 G	37726929.31	37726929.31	37726929.36	0.0135	0.0134
Venus	98584-10-18 21:21 G	37728418.31	37728418.39	37728418.51	0.0136	0.0120
Venus	98585-06-02 03:07 G	37728644.50	37728644.63	37728644.79	0.0136	0.0100
Venus	98586-01-14 08:52 G	37728870.71	37728870.87	37728871.05	0.0136	0.0080
Venus	98586-08-28 14:52 G	37729096.94	37729097.12	37729097.32	0.0136	0.0060
Venus	98587-04-11 20:52 G	37729323.17	37729323.37	37729323.58	0.0136	0.0039
Venus	98587-11-24 03:07 G	37729549.42	37729549.63	37729549.85	0.0136	0.0018
Venus	98588-07-07 09:21 G	37729775.68	37729775.89	37729776.11	0.0136	0.0004
Venus	98589-02-18 15:50 G	37730001.95	37730002.16	37730002.37	0.0136	0.0024
Venus	98589-10-02 22:19 G	37730228.23	37730228.43	37730228.64	0.0137	0.0045
Venus	98590-05-17 04:48 G	37730454.52	37730454.70	37730454.90	0.0137	0.0066
Venus	98590-12-29 11:31 G	37730680.82	37730680.98	37730681.15	0.0137	0.0087
Venus	98591-08-12 18:28 G	37730907.15	37730907.27	37730907.42	0.0137	0.0108
Venus	98592-03-26 01:55 G	37731133.51	37731133.58	37731133.65	0.0137	0.0129
Mars	98597-09-06 12:00 G	37733123.77	37733124.00	37733124.27	0.0139	0.0082
Mercury	98605-10-26 12:43 G	37736094.99	37736095.03	37736095.08	0.0141	0.0132
Mercury	98606-01-22 16:04 G	37736183.10	37736183.17	37736183.26	0.0142	0.0111
Mercury	98606-04-20 19:40 G	37736271.22	37736271.32	37736271.42	0.0142	0.0090
Mercury	98606-07-17 23:02 G	37736359.34	37736359.46	37736359.57	0.0142	0.0069
Mercury	98606-10-14 02:24 G	37736447.48	37736447.60	37736447.72	0.0142	0.0048
Mercury	98607-01-10 05:45 G	37736535.61	37736535.74	37736535.87	0.0142	0.0027
Mercury	98607-04-08 09:07 G	37736623.75	37736623.88	37736624.01	0.0142	0.0007
Mercury	98607-07-05 12:28 G	37736711.89	37736712.02	37736712.15	0.0142	0.0016
Mercury	98607-10-01 16:04 G	37736800.04	37736800.17	37736800.29	0.0142	0.0036
Mercury	98607-12-28 19:26 G	37736888.19	37736888.31	37736888.43	0.0142	0.0057
Mercury	98608-03-25 22:48 G	37736976.34	37736976.45	37736976.56	0.0142	0.0078
Mercury	98608-06-22 01:55 G	37737064.50	37737064.58	37737064.69	0.0142	0.0101
Mercury	98608-09-18 05:31 G	37737152.67	37737152.73	37737152.80	0.0142	0.0121
Mercury	98608-12-15 09:07 G	37737240.88	37737240.88	37737240.88	0.0142	0.0142
Moon	98619-03-10 05:45 G	37740977.72	37740977.74	37740977.80	0.0143	0.0142

Moon	98620-03-14 00:28 G	37741347.28	37741347.52	37741347.76	0.0143	0.0052
Earth	98620-03-14 04:04 G	37741347.43	37741347.67	37741347.92	0.0143	0.0047 *
Earth	98621-03-19 05:31 G	37741717.50	37741717.73	37741717.98	0.0143	0.0055
Moon	98621-03-19 08:52 G	37741717.64	37741717.87	37741718.11	0.0143	0.0053 *
Venus	98625-09-19 07:26 G	37743362.76	37743362.81	37743362.91	0.0143	0.0134
Venus	98626-05-03 19:26 G	37743589.19	37743589.31	37743589.47	0.0142	0.0110
Venus	98626-12-16 07:11 G	37743815.64	37743815.80	37743816.00	0.0142	0.0086
Venus	98627-07-30 18:57 G	37744042.11	37744042.29	37744042.50	0.0142	0.0061
Venus	98628-03-13 06:43 G	37744268.57	37744268.78	37744269.00	0.0142	0.0036
Venus	98628-10-25 18:00 G	37744495.03	37744495.25	37744495.47	0.0142	0.0012
Venus	98629-06-09 05:16 G	37744721.50	37744721.72	37744721.93	0.0142	0.0012
Venus	98630-01-21 16:04 G	37744947.96	37744948.17	37744948.39	0.0142	0.0036
Venus	98630-09-05 02:38 G	37745174.42	37745174.61	37745174.82	0.0141	0.0059
Venus	98631-04-19 13:11 G	37745400.88	37745401.05	37745401.23	0.0141	0.0082
Venus	98631-12-01 23:31 G	37745627.34	37745627.48	37745627.63	0.0141	0.0105
Venus	98632-07-15 09:21 G	37745853.82	37745853.89	37745853.99	0.0141	0.0128
Mars	98638-04-04 22:19 G	37747943.29	37747943.43	37747943.58	0.0139	0.0121
Mercury	98647-02-15 17:31 G	37751182.12	37751182.23	37751182.34	0.0136	0.0114
Mercury	98647-05-15 01:11 G	37751270.40	37751270.55	37751270.70	0.0136	0.0086
Mercury	98647-08-11 08:52 G	37751358.70	37751358.87	37751359.05	0.0136	0.0058
Mercury	98647-11-07 16:33 G	37751447.00	37751447.19	37751447.39	0.0136	0.0030
Mercury	98648-02-04 00:14 G	37751535.32	37751535.51	37751535.71	0.0136	0.0004
Mercury	98648-05-02 07:55 G	37751623.64	37751623.83	37751624.03	0.0136	0.0026
Mercury	98648-07-29 15:35 G	37751711.98	37751712.15	37751712.33	0.0136	0.0054
Mercury	98648-10-25 23:02 G	37751800.32	37751800.46	37751800.63	0.0136	0.0082
Mercury	98649-01-22 06:43 G	37751888.68	37751888.78	37751888.91	0.0136	0.0110
Moon	98661-09-10 09:50 G	37756502.73	37756502.91	37756503.09	0.0135	0.0098
Earth	98661-09-10 10:19 G	37756502.79	37756502.93	37756503.11	0.0135	0.0105 *
Earth	98662-09-14 17:02 G	37756871.97	37756872.21	37756872.47	0.0135	0.0023
Moon	98662-09-14 17:31 G	37756871.99	37756872.23	37756872.47	0.0135	0.0026 *

Moon	98663-09-18 22:48 G	37757241.22	37757241.45	37757241.69	0.0135	0.0060
Earth	98663-09-18 23:31 G	37757241.26	37757241.48	37757241.71	0.0135	0.0059 *
Venus	98668-06-19 07:26 G	37758976.74	37758976.81	37758976.89	0.0135	0.0127
Venus	98669-01-31 12:43 G	37759202.92	37759203.03	37759203.18	0.0136	0.0108
Venus	98669-09-14 18:28 G	37759429.12	37759429.27	37759429.45	0.0136	0.0088
Venus	98670-04-29 00:14 G	37759655.34	37759655.51	37759655.71	0.0136	0.0068
Venus	98670-12-11 06:14 G	37759881.57	37759881.76	37759881.97	0.0136	0.0047
Venus	98671-07-25 12:28 G	37760107.81	37760108.02	37760108.24	0.0136	0.0027
Venus	98672-03-07 18:43 G	37760334.07	37760334.28	37760334.50	0.0136	0.0006
Venus	98672-10-20 00:57 G	37760560.33	37760560.54	37760560.76	0.0136	0.0015
Venus	98673-06-03 07:11 G	37760786.60	37760786.80	37760787.01	0.0137	0.0036
Venus	98674-01-15 13:40 G	37761012.88	37761013.07	37761013.27	0.0137	0.0057
Venus	98674-08-29 20:24 G	37761239.18	37761239.35	37761239.54	0.0137	0.0078
Venus	98675-04-13 03:07 G	37761465.50	37761465.63	37761465.79	0.0137	0.0099
Venus	98675-11-25 10:19 G	37761691.83	37761691.93	37761692.04	0.0137	0.0120
Mars	98680-05-31 03:07 G	37763340.43	37763340.63	37763340.87	0.0139	0.0098
Mercury	98689-11-15 19:55 G	37766796.28	37766796.33	37766796.39	0.0142	0.0127
Mercury	98690-02-11 23:16 G	37766884.39	37766884.47	37766884.56	0.0142	0.0106
Mercury	98690-05-11 02:52 G	37766972.51	37766972.62	37766972.72	0.0142	0.0085
Mercury	98690-08-07 06:14 G	37767060.64	37767060.76	37767060.88	0.0142	0.0064
Mercury	98690-11-03 09:35 G	37767148.78	37767148.90	37767149.03	0.0142	0.0043
Mercury	98691-01-30 12:57 G	37767236.91	37767237.04	37767237.17	0.0142	0.0022
Mercury	98691-04-28 16:33 G	37767325.05	37767325.19	37767325.32	0.0142	0.0005
Mercury	98691-07-25 19:55 G	37767413.20	37767413.33	37767413.46	0.0142	0.0020
Mercury	98691-10-21 23:16 G	37767501.35	37767501.47	37767501.60	0.0142	0.0041
Mercury	98692-01-18 02:38 G	37767589.50	37767589.61	37767589.73	0.0142	0.0063
Mercury	98692-04-15 06:00 G	37767677.65	37767677.75	37767677.86	0.0142	0.0084
Mercury	98692-07-12 09:21 G	37767765.81	37767765.89	37767765.98	0.0142	0.0105
Mercury	98692-10-08 12:57 G	37767853.98	37767854.04	37767854.10	0.0142	0.0126
Earth	98703-03-11 12:57 G	37771659.03	37771659.04	37771659.06	0.0143	0.0143

Moon	98704-03-15 11:02 G	37772028.72	37772028.96	37772029.21	0.0143	0.0037
Earth	98704-03-15 14:38 G	37772028.87	37772029.11	37772029.37	0.0143	0.0042 *
Earth	98705-03-20 16:04 G	37772398.95	37772399.17	37772399.41	0.0143	0.0061
Moon	98705-03-20 19:40 G	37772399.10	37772399.32	37772399.57	0.0143	0.0061 *
Venus	98709-05-20 14:38 G	37773921.10	37773921.11	37773921.13	0.0143	0.0142
Venus	98710-01-02 02:24 G	37774147.50	37774147.60	37774147.74	0.0142	0.0119
Venus	98710-08-16 14:24 G	37774373.95	37774374.10	37774374.28	0.0142	0.0094
Venus	98711-03-31 02:09 G	37774600.41	37774600.59	37774600.79	0.0142	0.0070
Venus	98711-11-12 13:40 G	37774826.87	37774827.07	37774827.29	0.0142	0.0046
Venus	98712-06-26 01:11 G	37775053.34	37775053.55	37775053.77	0.0142	0.0022
Venus	98713-02-07 12:43 G	37775279.81	37775280.03	37775280.25	0.0142	0.0003
Venus	98713-09-21 23:31 G	37775506.27	37775506.48	37775506.70	0.0142	0.0026
Venus	98714-05-06 10:19 G	37775732.73	37775732.93	37775733.14	0.0141	0.0050
Venus	98714-12-18 20:38 G	37775959.18	37775959.36	37775959.56	0.0141	0.0073
Venus	98715-08-02 06:57 G	37776185.65	37776185.79	37776185.96	0.0141	0.0096
Venus	98716-03-15 17:16 G	37776412.12	37776412.22	37776412.35	0.0141	0.0119
Venus	98716-10-28 03:21 G	37776638.64	37776638.64	37776638.66	0.0141	0.0141
Mars	98720-12-27 17:45 G	37778159.97	37778160.24	37778160.53	0.0139	0.0057
Mercury	98730-12-10 16:19 G	37781795.18	37781795.18	37781795.21	0.0136	0.0136
Mercury	98731-03-09 00:14 G	37781883.40	37781883.51	37781883.64	0.0136	0.0107
Mercury	98731-06-05 07:55 G	37781971.68	37781971.83	37781972.00	0.0136	0.0080
Mercury	98731-09-01 15:50 G	37782059.98	37782060.16	37782060.34	0.0136	0.0051
Mercury	98731-11-28 23:31 G	37782148.29	37782148.48	37782148.67	0.0136	0.0023
Mercury	98732-02-25 07:11 G	37782236.61	37782236.80	37782237.00	0.0136	0.0005
Mercury	98732-05-23 14:52 G	37782324.93	37782325.12	37782325.31	0.0136	0.0033
Mercury	98732-08-19 22:33 G	37782413.27	37782413.44	37782413.62	0.0136	0.0060
Mercury	98732-11-16 06:00 G	37782501.61	37782501.75	37782501.91	0.0136	0.0088
Mercury	98733-02-12 13:26 G	37782589.98	37782590.06	37782590.18	0.0136	0.0116
Moon	98745-09-11 18:43 G	37787184.13	37787184.28	37787184.44	0.0135	0.0107
Earth	98745-09-11 19:55 G	37787184.17	37787184.33	37787184.50	0.0135	0.0101 *

Earth	98746-09-16 02:09 G	37787553.34	37787553.59	37787553.84	0.0135	0.0019
Moon	98746-09-16 03:35 G	37787553.42	37787553.65	37787553.90	0.0135	0.0015 *
Moon	98747-09-20 07:26 G	37787922.59	37787922.81	37787923.05	0.0135	0.0061
Earth	98747-09-20 08:24 G	37787922.64	37787922.85	37787923.09	0.0135	0.0063 *
Venus	98752-02-18 16:33 G	37789535.18	37789535.19	37789535.23	0.0135	0.0134
Venus	98752-10-01 22:19 G	37789761.32	37789761.43	37789761.54	0.0135	0.0115
Venus	98753-05-16 03:35 G	37789987.51	37789987.65	37789987.81	0.0136	0.0096
Venus	98753-12-28 09:21 G	37790213.72	37790213.89	37790214.08	0.0136	0.0076
Venus	98754-08-11 15:07 G	37790439.95	37790440.13	37790440.34	0.0136	0.0056
Venus	98755-03-25 21:21 G	37790666.18	37790666.39	37790666.60	0.0136	0.0035
Venus	98755-11-07 03:21 G	37790892.43	37790892.64	37790892.86	0.0136	0.0015
Venus	98756-06-20 09:35 G	37791118.68	37791118.90	37791119.11	0.0136	0.0006
Venus	98757-02-01 15:50 G	37791344.95	37791345.16	37791345.37	0.0136	0.0027
Venus	98757-09-15 22:19 G	37791571.23	37791571.43	37791571.63	0.0137	0.0048
Venus	98758-04-30 04:33 G	37791797.52	37791797.69	37791797.89	0.0137	0.0069
Venus	98758-12-12 11:31 G	37792023.82	37792023.98	37792024.15	0.0137	0.0089
Venus	98759-07-26 18:28 G	37792250.15	37792250.27	37792250.40	0.0137	0.0110
Venus	98760-03-09 01:11 G	37792476.51	37792476.55	37792476.63	0.0137	0.0132
Mars	98765-01-25 03:21 G	37794259.34	37794259.64	37794259.95	0.0139	0.0017
Mercury	98773-12-07 03:07 G	37797497.56	37797497.63	37797497.69	0.0142	0.0123
Mercury	98774-03-05 06:14 G	37797585.68	37797585.76	37797585.86	0.0142	0.0102
Mercury	98774-06-01 09:35 G	37797673.80	37797673.90	37797674.01	0.0142	0.0082
Mercury	98774-08-28 12:57 G	37797761.93	37797762.04	37797762.17	0.0142	0.0061
Mercury	98774-11-24 16:33 G	37797850.07	37797850.19	37797850.32	0.0142	0.0039
Mercury	98775-02-20 19:55 G	37797938.20	37797938.33	37797938.46	0.0142	0.0019
Mercury	98775-05-19 23:16 G	37798026.34	37798026.47	37798026.61	0.0142	0.0005
Mercury	98775-08-16 02:52 G	37798114.49	37798114.62	37798114.75	0.0142	0.0024
Mercury	98775-11-12 06:14 G	37798202.63	37798202.76	37798202.88	0.0142	0.0045
Mercury	98776-02-08 09:35 G	37798290.79	37798290.90	37798291.02	0.0142	0.0066
Mercury	98776-05-06 12:57 G	37798378.94	37798379.04	37798379.15	0.0142	0.0088

Mercury	98776-08-02 16:19 G	37798467.11	37798467.18	37798467.27	0.0142	0.0109
Mercury	98776-10-29 19:40 G	37798555.28	37798555.32	37798555.38	0.0142	0.0131
Earth	98787-03-11 20:38 G	37802340.33	37802340.36	37802340.42	0.0143	0.0140
Moon	98787-03-12 00:00 G	37802340.42	37802340.50	37802340.62	0.0143	0.0133 *
Moon	98788-03-15 19:26 G	37802710.07	37802710.31	37802710.55	0.0143	0.0045
Earth	98788-03-15 22:33 G	37802710.20	37802710.44	37802710.70	0.0143	0.0038 *
Earth	98789-03-21 00:00 G	37803080.28	37803080.50	37803080.74	0.0143	0.0064
Moon	98789-03-21 03:50 G	37803080.44	37803080.66	37803080.90	0.0143	0.0064 *
Venus	98793-09-01 07:55 G	37804705.74	37804705.83	37804705.93	0.0142	0.0128
Venus	98794-04-15 19:40 G	37804932.18	37804932.32	37804932.48	0.0142	0.0104
Venus	98794-11-28 07:26 G	37805158.64	37805158.81	37805159.01	0.0142	0.0081
Venus	98795-07-12 19:11 G	37805385.11	37805385.30	37805385.51	0.0142	0.0056
Venus	98796-02-24 06:57 G	37805611.58	37805611.79	37805612.01	0.0142	0.0032
Venus	98796-10-07 18:28 G	37805838.05	37805838.27	37805838.49	0.0142	0.0008
Venus	98797-05-22 05:31 G	37806064.51	37806064.73	37806064.95	0.0142	0.0016
Venus	98798-01-03 16:19 G	37806290.97	37806291.18	37806291.39	0.0142	0.0040
Venus	98798-08-18 02:52 G	37806517.43	37806517.62	37806517.83	0.0141	0.0063
Venus	98799-04-01 13:26 G	37806743.90	37806744.06	37806744.24	0.0141	0.0086
Venus	98799-11-13 23:31 G	37806970.36	37806970.48	37806970.64	0.0141	0.0109
Venus	98800-06-27 09:50 G	37807196.84	37807196.91	37807197.00	0.0141	0.0131
Mars	98805-08-22 19:26 G	37809079.05	37809079.31	37809079.60	0.0139	0.0061
Mercury	98814-12-30 23:02 G	37812496.42	37812496.46	37812496.54	0.0136	0.0130
Mercury	98815-03-29 06:57 G	37812584.68	37812584.79	37812584.94	0.0136	0.0101
Mercury	98815-06-25 15:07 G	37812672.96	37812673.13	37812673.29	0.0136	0.0073
Mercury	98815-09-21 22:33 G	37812761.26	37812761.44	37812761.63	0.0136	0.0045
Mercury	98815-12-19 06:28 G	37812849.58	37812849.77	37812849.97	0.0136	0.0017
Mercury	98816-03-16 14:09 G	37812937.90	37812938.09	37812938.29	0.0136	0.0011
Mercury	98816-06-12 21:50 G	37813026.22	37813026.41	37813026.60	0.0136	0.0039
Mercury	98816-09-09 05:16 G	37813114.56	37813114.72	37813114.90	0.0136	0.0067
Mercury	98816-12-06 12:57 G	37813202.91	37813203.04	37813203.19	0.0136	0.0095

Mercury	98817-03-04 20:52 G	37813291.29	37813291.37	37813291.45	0.0136	0.0122
Moon	98829-09-12 02:52 G	37817865.44	37817865.62	37817865.82	0.0135	0.0090
Earth	98829-09-12 05:02 G	37817865.56	37817865.71	37817865.91	0.0135	0.0098 *
Earth	98830-09-16 11:45 G	37818234.75	37818234.99	37818235.25	0.0135	0.0016
Moon	98830-09-16 13:40 G	37818234.83	37818235.07	37818235.31	0.0135	0.0020 *
Moon	98831-09-20 16:04 G	37818603.96	37818604.17	37818604.39	0.0135	0.0070
Earth	98831-09-20 18:14 G	37818604.05	37818604.26	37818604.48	0.0135	0.0067 *
Venus	98836-06-01 07:26 G	37820319.74	37820319.81	37820319.92	0.0135	0.0123
Venus	98837-01-13 13:11 G	37820545.92	37820546.05	37820546.19	0.0135	0.0103
Venus	98837-08-27 18:28 G	37820772.12	37820772.27	37820772.46	0.0136	0.0084
Venus	98838-04-11 00:14 G	37820998.34	37820998.51	37820998.72	0.0136	0.0064
Venus	98838-11-23 06:14 G	37821224.56	37821224.76	37821224.97	0.0136	0.0043
Venus	98839-07-07 12:14 G	37821450.80	37821451.01	37821451.23	0.0136	0.0023
Venus	98840-02-18 18:28 G	37821677.05	37821677.27	37821677.48	0.0136	0.0004
Venus	98840-10-02 00:28 G	37821903.31	37821903.52	37821903.74	0.0136	0.0018
Venus	98841-05-16 06:28 G	37822129.58	37822129.77	37822129.99	0.0136	0.0040
Venus	98841-12-28 13:11 G	37822355.86	37822356.05	37822356.25	0.0137	0.0060
Venus	98842-08-11 19:40 G	37822582.16	37822582.32	37822582.51	0.0137	0.0081
Venus	98843-03-26 02:38 G	37822808.47	37822808.61	37822808.76	0.0137	0.0101
Venus	98843-11-07 09:21 G	37823034.81	37823034.89	37823035.00	0.0137	0.0122
Mars	98849-09-20 02:38 G	37825178.55	37825178.61	37825178.72	0.0139	0.0133
Mercury	98857-09-30 06:28 G	37828110.76	37828110.77	37828110.78	0.0141	0.0141
Mercury	98857-12-27 09:35 G	37828198.84	37828198.90	37828198.98	0.0142	0.0121
Mercury	98858-03-25 13:11 G	37828286.96	37828287.05	37828287.14	0.0142	0.0099
Mercury	98858-06-21 16:33 G	37828375.08	37828375.19	37828375.30	0.0142	0.0078
Mercury	98858-09-17 19:55 G	37828463.21	37828463.33	37828463.45	0.0142	0.0058
Mercury	98858-12-14 23:16 G	37828551.35	37828551.47	37828551.60	0.0142	0.0037
Mercury	98859-03-13 02:52 G	37828639.49	37828639.62	37828639.75	0.0142	0.0016
Mercury	98859-06-09 06:14 G	37828727.63	37828727.76	37828727.89	0.0142	0.0006
Mercury	98859-09-05 09:35 G	37828815.77	37828815.90	37828816.03	0.0142	0.0027

Mercury	98859-12-02 12:57 G	37828903.92	37828904.04	37828904.17	0.0142	0.0048
Mercury	98860-02-28 16:19 G	37828992.07	37828992.18	37828992.30	0.0142	0.0069
Mercury	98860-05-26 19:55 G	37829080.23	37829080.33	37829080.43	0.0142	0.0090
Mercury	98860-08-22 23:02 G	37829168.39	37829168.46	37829168.55	0.0142	0.0113
Mercury	98860-11-19 02:38 G	37829256.57	37829256.61	37829256.66	0.0142	0.0133
Earth	98871-03-12 02:52 G	37833021.57	37833021.62	37833021.70	0.0143	0.0139
Moon	98872-03-16 01:55 G	37833391.33	37833391.58	37833391.83	0.0143	0.0031
Earth	98872-03-16 05:02 G	37833391.46	37833391.71	37833391.96	0.0143	0.0036 *
Earth	98873-03-21 06:28 G	37833761.55	37833761.77	37833762.01	0.0143	0.0066
Moon	98873-03-21 09:50 G	37833761.69	37833761.91	37833762.15	0.0143	0.0063 *
Venus	98877-05-01 11:31 G	37835263.95	37835263.98	37835264.05	0.0143	0.0139
Venus	98877-12-13 23:45 G	37835490.37	37835490.49	37835490.63	0.0142	0.0115
Venus	98878-07-28 12:00 G	37835716.83	37835717.00	37835717.17	0.0142	0.0091
Venus	98879-03-11 23:31 G	37835943.30	37835943.48	37835943.69	0.0142	0.0067
Venus	98879-10-24 11:02 G	37836169.76	37836169.96	37836170.18	0.0142	0.0043
Venus	98880-06-06 22:33 G	37836396.23	37836396.44	37836396.66	0.0142	0.0019
Venus	98881-01-19 09:50 G	37836622.69	37836622.91	37836623.13	0.0142	0.0006
Venus	98881-09-02 20:52 G	37836849.16	37836849.37	37836849.59	0.0142	0.0029
Venus	98882-04-17 07:26 G	37837075.62	37837075.81	37837076.03	0.0141	0.0053
Venus	98882-11-29 18:00 G	37837302.08	37837302.25	37837302.45	0.0141	0.0076
Venus	98883-07-14 04:33 G	37837528.54	37837528.69	37837528.86	0.0141	0.0098
Venus	98884-02-25 14:52 G	37837755.02	37837755.12	37837755.25	0.0141	0.0121
Mars	98888-05-15 03:07 G	37839295.53	37839295.63	37839295.76	0.0140	0.0129
Mercury	98899-01-20 05:16 G	37843197.66	37843197.72	37843197.81	0.0136	0.0126
Mercury	98899-04-18 13:11 G	37843285.93	37843286.05	37843286.20	0.0136	0.0097
Mercury	98899-07-15 20:52 G	37843374.22	37843374.37	37843374.55	0.0136	0.0070
Mercury	98899-10-12 04:48 G	37843462.52	37843462.70	37843462.89	0.0136	0.0041
Mercury	98900-01-08 12:43 G	37843550.83	37843551.03	37843551.22	0.0136	0.0013
Mercury	98900-04-06 20:24 G	37843639.16	37843639.35	37843639.55	0.0136	0.0015
Mercury	98900-07-04 04:04 G	37843727.49	37843727.67	37843727.86	0.0136	0.0043

Mercury	98900-09-30 11:31 G	37843815.83	37843815.98	37843816.16	0.0136	0.0071
Mercury	98900-12-27 19:11 G	37843904.18	37843904.30	37843904.45	0.0136	0.0099
Mercury	98901-03-26 03:07 G	37843992.56	37843992.63	37843992.70	0.0136	0.0126
Moon	98913-09-13 11:31 G	37848546.82	37848546.98	37848547.16	0.0135	0.0101
Earth	98913-09-13 13:55 G	37848546.92	37848547.08	37848547.28	0.0135	0.0094 *
Earth	98914-09-17 20:38 G	37848916.11	37848916.36	37848916.61	0.0135	0.0012
Moon	98914-09-17 23:31 G	37848916.23	37848916.48	37848916.72	0.0135	0.0005 *
Moon	98915-09-22 00:43 G	37849285.31	37849285.53	37849285.76	0.0135	0.0067
Earth	98915-09-22 03:07 G	37849285.43	37849285.63	37849285.85	0.0135	0.0071 *
Venus	98920-01-31 17:02 G	37850878.16	37850878.21	37850878.27	0.0135	0.0130
Venus	98920-09-13 22:19 G	37851104.32	37851104.43	37851104.56	0.0135	0.0111
Venus	98921-04-28 04:04 G	37851330.51	37851330.67	37851330.83	0.0136	0.0091
Venus	98921-12-10 09:21 G	37851556.72	37851556.89	37851557.08	0.0136	0.0072
Venus	98922-07-24 15:07 G	37851782.95	37851783.13	37851783.34	0.0136	0.0052
Venus	98923-03-07 21:21 G	37852009.18	37852009.39	37852009.60	0.0136	0.0031
Venus	98923-10-20 03:07 G	37852235.42	37852235.63	37852235.85	0.0136	0.0011
Venus	98924-06-02 09:07 G	37852461.67	37852461.88	37852462.10	0.0136	0.0010
Venus	98925-01-14 15:21 G	37852687.93	37852688.14	37852688.35	0.0136	0.0030
Venus	98925-08-28 21:35 G	37852914.21	37852914.40	37852914.61	0.0137	0.0052
Venus	98926-04-12 04:19 G	37853140.50	37853140.68	37853140.87	0.0137	0.0072
Venus	98926-11-24 10:48 G	37853366.81	37853366.95	37853367.12	0.0137	0.0093
Venus	98927-07-08 17:45 G	37853593.13	37853593.24	37853593.37	0.0137	0.0113
Venus	98928-02-20 00:43 G	37853819.50	37853819.53	37853819.59	0.0137	0.0134
Mars	98932-06-13 18:43 G	37855395.00	37855395.28	37855395.57	0.0138	0.0050
Mercury	98941-10-21 13:11 G	37858812.04	37858812.05	37858812.09	0.0141	0.0138
Mercury	98942-01-17 16:48 G	37858900.13	37858900.20	37858900.28	0.0141	0.0116
Mercury	98942-04-15 20:09 G	37858988.25	37858988.34	37858988.44	0.0141	0.0096
Mercury	98942-07-12 23:31 G	37859076.38	37859076.48	37859076.60	0.0142	0.0075
Mercury	98942-10-09 03:07 G	37859164.51	37859164.63	37859164.75	0.0142	0.0054
Mercury	98943-01-05 06:28 G	37859252.64	37859252.77	37859252.90	0.0142	0.0033

Mercury	98943-04-03 09:50 G	37859340.78	37859340.91	37859341.04	0.0142	0.0012
Mercury	98943-06-30 13:11 G	37859428.92	37859429.05	37859429.18	0.0142	0.0010
Mercury	98943-09-26 16:33 G	37859517.07	37859517.19	37859517.32	0.0142	0.0031
Mercury	98943-12-23 19:55 G	37859605.21	37859605.33	37859605.46	0.0142	0.0052
Mercury	98944-03-20 23:16 G	37859693.37	37859693.47	37859693.59	0.0142	0.0073
Mercury	98944-06-17 02:52 G	37859781.52	37859781.62	37859781.72	0.0142	0.0094
Mercury	98944-09-13 06:14 G	37859869.69	37859869.76	37859869.84	0.0142	0.0115
Mercury	98944-12-10 09:50 G	37859957.88	37859957.91	37859957.94	0.0142	0.0137
Earth	98955-03-13 09:35 G	37863702.84	37863702.90	37863702.99	0.0143	0.0137
Moon	98955-03-13 11:45 G	37863702.89	37863702.99	37863703.12	0.0143	0.0129 *
Moon	98956-03-17 09:21 G	37864072.65	37864072.89	37864073.13	0.0143	0.0042
Earth	98956-03-17 11:16 G	37864072.73	37864072.97	37864073.23	0.0143	0.0034 *
Earth	98957-03-22 12:57 G	37864442.82	37864443.04	37864443.28	0.0143	0.0069
Moon	98957-03-22 16:04 G	37864442.95	37864443.17	37864443.41	0.0143	0.0071 *
Venus	98961-08-14 03:35 G	37866048.56	37866048.65	37866048.77	0.0143	0.0126
Venus	98962-03-28 15:35 G	37866275.01	37866275.15	37866275.32	0.0142	0.0102
Venus	98962-11-10 03:35 G	37866501.47	37866501.65	37866501.84	0.0142	0.0078
Venus	98963-06-24 15:07 G	37866727.93	37866728.13	37866728.34	0.0142	0.0054
Venus	98964-02-06 02:52 G	37866954.40	37866954.62	37866954.84	0.0142	0.0030
Venus	98964-09-19 14:09 G	37867180.87	37867181.09	37867181.31	0.0142	0.0006
Venus	98965-05-04 01:11 G	37867407.33	37867407.55	37867407.77	0.0142	0.0017
Venus	98965-12-16 11:45 G	37867633.79	37867633.99	37867634.21	0.0142	0.0042
Venus	98966-07-30 22:33 G	37867860.26	37867860.44	37867860.65	0.0141	0.0065
Venus	98967-03-14 09:21 G	37868086.73	37868086.89	37868087.07	0.0141	0.0088
Venus	98967-10-26 19:40 G	37868313.20	37868313.32	37868313.47	0.0141	0.0110
Venus	98968-06-09 05:59 G	37868539.69	37868539.75	37868539.83	0.0141	0.0132
Mars	98973-01-09 02:23 G	37870214.29	37870214.60	37870214.91	0.0139	0.0014
Mercury	98983-02-10 11:45 G	37873898.91	37873898.99	37873899.08	0.0137	0.0122
Mercury	98983-05-09 19:26 G	37873987.17	37873987.31	37873987.46	0.0136	0.0094
Mercury	98983-08-06 03:07 G	37874075.47	37874075.63	37874075.81	0.0136	0.0066

Mercury	98983-11-02 11:02 G	37874163.77	37874163.96	37874164.15	0.0136	0.0037
Mercury	98984-01-29 18:43 G	37874252.09	37874252.28	37874252.48	0.0136	0.0010
Mercury	98984-04-27 02:23 G	37874340.41	37874340.60	37874340.80	0.0136	0.0019
Mercury	98984-07-24 10:04 G	37874428.74	37874428.92	37874429.11	0.0136	0.0047
Mercury	98984-10-20 17:45 G	37874517.09	37874517.24	37874517.41	0.0136	0.0075
Mercury	98985-01-17 01:11 G	37874605.44	37874605.55	37874605.70	0.0136	0.0103
Mercury	98985-04-15 09:07 G	37874693.84	37874693.88	37874693.94	0.0136	0.0130
Moon	98997-09-13 19:26 G	37879228.13	37879228.31	37879228.53	0.0135	0.0083
Earth	98997-09-13 23:16 G	37879228.28	37879228.47	37879228.66	0.0135	0.0090 *
Earth	98998-09-18 05:45 G	37879597.49	37879597.74	37879597.99	0.0135	0.0008
Moon	98998-09-18 08:38 G	37879597.62	37879597.86	37879598.11	0.0135	0.0014 *
Moon	98999-09-22 09:21 G	37879966.69	37879966.89	37879967.10	0.0135	0.0080
Earth	98999-09-22 12:43 G	37879966.82	37879967.03	37879967.24	0.0135	0.0075 *

100TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 100th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	99004-05-15 07:40 G	37881662.73	37881662.82	37881662.93	0.0135	0.0119		
Venus	99004-12-27 13:26 G	37881888.91	37881889.06	37881889.20	0.0136	0.0099		
Venus	99005-08-10 18:43 G	37882115.12	37882115.28	37882115.47	0.0136	0.0080		
Venus	99006-03-25 00:28 G	37882341.34	37882341.52	37882341.72	0.0136	0.0060		
Venus	99006-11-06 06:14 G	37882567.56	37882567.76	37882567.98	0.0136	0.0040		

Venus	99007-06-20 12:14 G	37882793.80	37882794.01	37882794.23	0.0136	0.0019
Venus	99008-02-01 18:28 G	37883020.05	37883020.27	37883020.48	0.0136	0.0003
Venus	99008-09-15 00:28 G	37883246.31	37883246.52	37883246.74	0.0136	0.0022
Venus	99009-04-29 06:43 G	37883472.58	37883472.78	37883472.99	0.0136	0.0043
Venus	99009-12-11 13:26 G	37883698.87	37883699.06	37883699.25	0.0137	0.0063
Venus	99010-07-25 19:55 G	37883925.17	37883925.33	37883925.51	0.0137	0.0084
Venus	99011-03-09 02:23 G	37884151.48	37884151.60	37884151.76	0.0137	0.0105
Venus	99011-10-21 09:35 G	37884377.83	37884377.90	37884378.00	0.0137	0.0125
Mars	99017-02-07 18:57 G	37886314.04	37886314.29	37886314.58	0.0139	0.0068
Mercury	99025-11-11 20:52 G	37889513.32	37889513.37	37889513.41	0.0141	0.0132
Mercury	99026-02-07 23:59 G	37889601.43	37889601.50	37889601.59	0.0141	0.0111
Mercury	99026-05-07 03:21 G	37889689.55	37889689.64	37889689.75	0.0141	0.0091
Mercury	99026-08-03 06:57 G	37889777.68	37889777.79	37889777.91	0.0142	0.0069
Mercury	99026-10-30 10:19 G	37889865.81	37889865.93	37889866.06	0.0142	0.0049
Mercury	99027-01-26 13:40 G	37889953.95	37889954.07	37889954.20	0.0142	0.0028
Mercury	99027-04-24 17:16 G	37890042.09	37890042.22	37890042.35	0.0142	0.0008
Mercury	99027-07-21 20:38 G	37890130.23	37890130.36	37890130.49	0.0142	0.0015
Mercury	99027-10-17 23:59 G	37890218.37	37890218.50	37890218.63	0.0142	0.0036
Mercury	99028-01-14 03:21 G	37890306.52	37890306.64	37890306.76	0.0142	0.0057
Mercury	99028-04-11 06:43 G	37890394.68	37890394.78	37890394.89	0.0142	0.0078
Mercury	99028-07-08 10:19 G	37890482.83	37890482.93	37890483.02	0.0142	0.0099
Mercury	99028-10-04 13:40 G	37890571.00	37890571.07	37890571.14	0.0142	0.0120
Mercury	99028-12-31 17:02 G	37890659.21	37890659.21	37890659.22	0.0142	0.0142
Earth	99039-03-14 18:57 G	37894384.20	37894384.29	37894384.40	0.0143	0.0132
Moon	99039-03-14 19:26 G	37894384.26	37894384.31	37894384.39	0.0143	0.0138 *
Moon	99040-03-18 18:57 G	37894754.04	37894754.29	37894754.54	0.0143	0.0023
Earth	99040-03-18 20:52 G	37894754.12	37894754.37	37894754.62	0.0143	0.0029 *
Earth	99041-03-23 22:19 G	37895124.21	37895124.43	37895124.65	0.0143	0.0073
Moon	99041-03-24 00:28 G	37895124.30	37895124.52	37895124.76	0.0143	0.0068 *
Venus	99045-04-14 08:52 G	37896606.82	37896606.87	37896606.95	0.0143	0.0136

Venus	99045-11-26 20:38 G	37896833.24	37896833.36	37896833.51	0.0142	0.0112
Venus	99046-07-11 08:38 G	37897059.70	37897059.86	37897060.04	0.0142	0.0088
Venus	99047-02-22 20:38 G	37897286.16	37897286.36	37897286.56	0.0142	0.0064
Venus	99047-10-07 07:55 G	37897512.63	37897512.83	37897513.05	0.0142	0.0041
Venus	99048-05-20 19:26 G	37897739.09	37897739.31	37897739.53	0.0142	0.0017
Venus	99049-01-02 06:28 G	37897965.55	37897965.77	37897965.99	0.0142	0.0007
Venus	99049-08-16 17:31 G	37898192.02	37898192.23	37898192.45	0.0142	0.0030
Venus	99050-03-31 04:33 G	37898418.48	37898418.69	37898418.89	0.0141	0.0054
Venus	99050-11-12 14:52 G	37898644.95	37898645.12	37898645.31	0.0141	0.0077
Venus	99051-06-27 01:40 G	37898871.41	37898871.57	37898871.72	0.0141	0.0100
Venus	99052-02-08 11:45 G	37899097.89	37899097.99	37899098.11	0.0141	0.0122
Mars	99057-09-05 01:55 G	37901133.40	37901133.58	37901133.82	0.0139	0.0102
Mercury	99067-03-03 17:31 G	37904600.15	37904600.23	37904600.34	0.0136	0.0119
Mercury	99067-05-31 01:26 G	37904688.42	37904688.56	37904688.71	0.0136	0.0090
Mercury	99067-08-27 09:07 G	37904776.72	37904776.88	37904777.07	0.0136	0.0062
Mercury	99067-11-23 17:02 G	37904865.02	37904865.21	37904865.40	0.0136	0.0034
Mercury	99068-02-20 00:57 G	37904953.34	37904953.54	37904953.73	0.0136	0.0006
Mercury	99068-05-18 08:38 G	37905041.67	37905041.86	37905042.05	0.0136	0.0022
Mercury	99068-08-14 16:19 G	37905130.00	37905130.18	37905130.36	0.0136	0.0050
Mercury	99068-11-10 23:59 G	37905218.34	37905218.50	37905218.66	0.0136	0.0078
Mercury	99069-02-07 07:26 G	37905306.70	37905306.81	37905306.94	0.0136	0.0106
Mercury	99069-05-06 15:07 G	37905395.11	37905395.13	37905395.17	0.0136	0.0134
Moon	99081-09-15 04:19 G	37909909.50	37909909.68	37909909.86	0.0135	0.0094
Earth	99081-09-15 07:11 G	37909909.63	37909909.80	37909910.01	0.0135	0.0087 *
Earth	99082-09-19 14:09 G	37910278.84	37910279.09	37910279.34	0.0135	0.0005
Moon	99082-09-19 17:45 G	37910278.99	37910279.24	37910279.49	0.0135	0.0004 *
Moon	99083-09-23 17:31 G	37910648.04	37910648.23	37910648.46	0.0135	0.0074
Earth	99083-09-23 21:07 G	37910648.19	37910648.38	37910648.59	0.0135	0.0079 *
Venus	99088-01-13 16:47 G	37912221.14	37912221.20	37912221.29	0.0136	0.0127
Venus	99088-08-26 22:33 G	37912447.31	37912447.44	37912447.57	0.0136	0.0107

Venus	99089-04-10 03:50 G	37912673.51	37912673.66	37912673.83	0.0136	0.0088
Venus	99089-11-22 09:35 G	37912899.72	37912899.90	37912900.09	0.0136	0.0068
Venus	99090-07-06 15:21 G	37913125.94	37913126.14	37913126.34	0.0136	0.0048
Venus	99091-02-17 21:07 G	37913352.18	37913352.38	37913352.60	0.0136	0.0028
Venus	99091-10-02 03:21 G	37913578.42	37913578.64	37913578.85	0.0136	0.0008
Venus	99092-05-15 09:21 G	37913804.68	37913804.89	37913805.11	0.0136	0.0013
Venus	99092-12-27 15:35 G	37914030.94	37914031.15	37914031.36	0.0137	0.0034
Venus	99093-08-10 22:04 G	37914257.23	37914257.42	37914257.63	0.0137	0.0054
Venus	99094-03-25 04:47 G	37914483.52	37914483.70	37914483.88	0.0137	0.0075
Venus	99094-11-06 11:45 G	37914709.83	37914709.99	37914710.14	0.0137	0.0095
Venus	99095-06-20 18:14 G	37914936.16	37914936.26	37914936.39	0.0137	0.0116
Venus	99096-02-02 01:26 G	37915162.55	37915162.56	37915162.59	0.0137	0.0137
Mars	99099-11-01 17:16 G	37916531.06	37916531.22	37916531.42	0.0138	0.0111
Mercury	99109-12-03 04:19 G	37920214.62	37920214.68	37920214.74	0.0141	0.0126
Mercury	99110-03-01 07:26 G	37920302.73	37920302.81	37920302.91	0.0141	0.0106
Mercury	99110-05-28 11:02 G	37920390.86	37920390.96	37920391.07	0.0141	0.0084
Mercury	99110-08-24 14:23 G	37920478.99	37920479.10	37920479.22	0.0142	0.0063
Mercury	99110-11-20 17:45 G	37920567.12	37920567.24	37920567.37	0.0142	0.0043
Mercury	99111-02-16 21:21 G	37920655.26	37920655.39	37920655.52	0.0142	0.0021
Mercury	99111-05-16 00:43 G	37920743.40	37920743.53	37920743.66	0.0142	0.0001
Mercury	99111-08-12 04:04 G	37920831.54	37920831.67	37920831.80	0.0142	0.0021
Mercury	99111-11-08 07:26 G	37920919.69	37920919.81	37920919.94	0.0142	0.0042
Mercury	99112-02-04 10:47 G	37921007.84	37921007.95	37921008.07	0.0142	0.0063
Mercury	99112-05-02 14:23 G	37921095.99	37921096.10	37921096.20	0.0142	0.0084
Mercury	99112-07-29 17:45 G	37921184.15	37921184.24	37921184.33	0.0142	0.0105
Mercury	99112-10-25 20:52 G	37921272.33	37921272.37	37921272.44	0.0142	0.0127
Earth	99123-03-16 06:28 G	37925065.66	37925065.77	37925065.90	0.0143	0.0125
Moon	99123-03-16 06:43 G	37925065.66	37925065.78	37925065.96	0.0143	0.0118 *
Moon	99124-03-20 07:26 G	37925435.57	37925435.81	37925436.06	0.0143	0.0030
Earth	99124-03-20 08:09 G	37925435.59	37925435.84	37925436.10	0.0143	0.0023 *

Earth	99125-03-25 09:35 G	37925805.70	37925805.90	37925806.13	0.0143	0.0080
Moon	99125-03-25 11:45 G	37925805.78	37925805.99	37925806.21	0.0143	0.0084 *
Venus	99129-07-28 03:21 G	37927391.54	37927391.64	37927391.77	0.0142	0.0122
Venus	99130-03-11 15:35 G	37927617.99	37927618.15	37927618.31	0.0142	0.0098
Venus	99130-10-24 03:07 G	37927844.45	37927844.63	37927844.83	0.0142	0.0074
Venus	99131-06-07 14:52 G	37928070.91	37928071.12	37928071.32	0.0142	0.0050
Venus	99132-01-20 02:09 G	37928297.38	37928297.59	37928297.81	0.0142	0.0027
Venus	99132-09-02 13:26 G	37928523.84	37928524.06	37928524.28	0.0142	0.0004
Venus	99133-04-17 00:28 G	37928750.30	37928750.52	37928750.74	0.0142	0.0021
Venus	99133-11-29 11:16 G	37928976.77	37928976.97	37928977.18	0.0141	0.0044
Venus	99134-07-13 21:50 G	37929203.23	37929203.41	37929203.62	0.0141	0.0068
Venus	99135-02-25 08:38 G	37929429.70	37929429.86	37929430.04	0.0141	0.0090
Venus	99135-10-09 19:11 G	37929656.17	37929656.30	37929656.44	0.0141	0.0112
Venus	99136-05-23 05:16 G	37929882.67	37929882.72	37929882.79	0.0141	0.0134
Mars	99140-05-29 13:11 G	37931349.83	37931350.05	37931350.32	0.0140	0.0084
Mercury	99151-03-25 00:28 G	37935301.42	37935301.52	37935301.64	0.0136	0.0112
Mercury	99151-06-21 08:09 G	37935389.70	37935389.84	37935390.00	0.0136	0.0084
Mercury	99151-09-17 15:50 G	37935477.99	37935478.16	37935478.35	0.0136	0.0057
Mercury	99151-12-14 23:45 G	37935566.30	37935566.49	37935566.69	0.0136	0.0028
Mercury	99152-03-12 07:40 G	37935654.62	37935654.82	37935655.01	0.0136	0.0002
Mercury	99152-06-08 15:21 G	37935742.95	37935743.14	37935743.33	0.0136	0.0028
Mercury	99152-09-04 23:02 G	37935831.28	37935831.46	37935831.64	0.0136	0.0056
Mercury	99152-12-02 06:28 G	37935919.63	37935919.77	37935919.93	0.0136	0.0084
Mercury	99153-02-28 14:09 G	37936007.99	37936008.09	37936008.21	0.0136	0.0112
Moon	99165-09-16 13:11 G	37940590.85	37940591.05	37940591.26	0.0135	0.0076
Earth	99165-09-16 16:47 G	37940591.01	37940591.20	37940591.40	0.0135	0.0083 *
Earth	99166-09-20 23:45 G	37940960.24	37940960.49	37940960.74	0.0135	0.0001
Moon	99166-09-21 03:07 G	37940960.38	37940960.63	37940960.88	0.0135	0.0007 *
Moon	99167-09-25 02:38 G	37941329.44	37941329.61	37941329.81	0.0135	0.0090
Earth	99167-09-25 06:28 G	37941329.59	37941329.77	37941329.98	0.0135	0.0083 *

Venus	99171-09-14 02:23 G	37942779.58	37942779.60	37942779.64	0.0136	0.0134
Venus	99172-04-27 07:40 G	37943005.72	37943005.82	37943005.94	0.0136	0.0115
Venus	99172-12-09 12:57 G	37943231.90	37943232.04	37943232.21	0.0136	0.0096
Venus	99173-07-23 18:43 G	37943458.11	37943458.28	37943458.47	0.0136	0.0076
Venus	99174-03-07 00:43 G	37943684.33	37943684.53	37943684.72	0.0136	0.0056
Venus	99174-10-19 06:28 G	37943910.56	37943910.77	37943910.98	0.0136	0.0036
Venus	99175-06-02 12:14 G	37944136.80	37944137.01	37944137.23	0.0136	0.0016
Venus	99176-01-14 18:28 G	37944363.05	37944363.27	37944363.48	0.0136	0.0004
Venus	99176-08-28 00:43 G	37944589.32	37944589.53	37944589.75	0.0136	0.0025
Venus	99177-04-11 06:57 G	37944815.60	37944815.79	37944816.00	0.0137	0.0046
Venus	99177-11-23 13:40 G	37945041.88	37945042.07	37945042.26	0.0137	0.0066
Venus	99178-07-07 20:09 G	37945268.19	37945268.34	37945268.52	0.0137	0.0087
Venus	99179-02-19 03:07 G	37945494.51	37945494.63	37945494.78	0.0137	0.0107
Venus	99179-10-03 10:19 G	37945720.86	37945720.93	37945721.02	0.0137	0.0128
Mars	99184-06-27 17:02 G	37947449.91	37947450.21	37947450.52	0.0139	0.0006
Mercury	99193-09-26 08:09 G	37950827.84	37950827.84	37950827.85	0.0141	0.0141
Mercury	99193-12-23 11:31 G	37950915.92	37950915.98	37950916.05	0.0141	0.0120
Mercury	99194-03-21 14:52 G	37951004.04	37951004.12	37951004.22	0.0141	0.0100
Mercury	99194-06-17 18:14 G	37951092.16	37951092.26	37951092.38	0.0142	0.0079
Mercury	99194-09-13 21:50 G	37951180.29	37951180.41	37951180.53	0.0142	0.0057
Mercury	99194-12-11 01:11 G	37951268.43	37951268.55	37951268.68	0.0142	0.0037
Mercury	99195-03-09 04:47 G	37951356.57	37951356.70	37951356.83	0.0142	0.0016
Mercury	99195-06-05 08:09 G	37951444.71	37951444.84	37951444.97	0.0142	0.0006
Mercury	99195-09-01 11:31 G	37951532.85	37951532.98	37951533.11	0.0142	0.0027
Mercury	99195-11-28 14:52 G	37951621.00	37951621.12	37951621.25	0.0142	0.0048
Mercury	99196-02-24 18:14 G	37951709.15	37951709.26	37951709.38	0.0142	0.0069
Mercury	99196-05-22 21:50 G	37951797.31	37951797.41	37951797.51	0.0142	0.0090
Mercury	99196-08-19 01:11 G	37951885.47	37951885.55	37951885.63	0.0142	0.0111
Mercury	99196-11-15 04:19 G	37951973.65	37951973.68	37951973.74	0.0142	0.0133
Moon	99207-03-16 17:31 G	37955747.11	37955747.23	37955747.37	0.0143	0.0124

Earth	99207-03-16 18:28 G	37955747.13	37955747.27	37955747.42	0.0143	0.0118	*
Moon	99208-03-20 19:40 G	37956117.08	37956117.32	37956117.57	0.0143	0.0009	
Earth	99208-03-20 20:09 G	37956117.09	37956117.34	37956117.61	0.0143	0.0017	*
Earth	99209-03-25 21:50 G	37956487.21	37956487.41	37956487.62	0.0143	0.0087	
Moon	99209-03-25 22:33 G	37956487.24	37956487.44	37956487.67	0.0143	0.0081	*
Venus	99213-03-27 11:02 G	37957949.88	37957949.96	37957950.05	0.0143	0.0130	
Venus	99213-11-08 22:47 G	37958176.31	37958176.45	37958176.61	0.0142	0.0107	
Venus	99214-06-23 10:19 G	37958402.77	37958402.93	37958403.13	0.0142	0.0084	
Venus	99215-02-04 22:19 G	37958629.24	37958629.43	37958629.64	0.0142	0.0060	
Venus	99215-09-19 09:50 G	37958855.70	37958855.91	37958856.13	0.0142	0.0036	
Venus	99216-05-02 21:21 G	37959082.17	37959082.39	37959082.61	0.0142	0.0012	
Venus	99216-12-15 08:23 G	37959308.63	37959308.85	37959309.07	0.0142	0.0012	
Venus	99217-07-29 19:26 G	37959535.09	37959535.31	37959535.52	0.0142	0.0035	
Venus	99218-03-13 05:59 G	37959761.57	37959761.75	37959761.97	0.0141	0.0059	
Venus	99218-10-25 16:47 G	37959988.03	37959988.20	37959988.39	0.0141	0.0081	
Venus	99219-06-09 03:21 G	37960214.50	37960214.64	37960214.79	0.0141	0.0103	
Venus	99220-01-21 13:40 G	37960440.98	37960441.07	37960441.17	0.0141	0.0125	
Mars	99225-01-22 22:19 G	37962269.14	37962269.43	37962269.73	0.0139	0.0041	
Mercury	99235-01-15 23:45 G	37965914.46	37965914.49	37965914.53	0.0136	0.0134	
Mercury	99235-04-14 07:26 G	37966002.70	37966002.81	37966002.94	0.0136	0.0106	
Mercury	99235-07-11 15:21 G	37966090.98	37966091.14	37966091.30	0.0136	0.0077	
Mercury	99235-10-07 23:02 G	37966179.28	37966179.46	37966179.65	0.0136	0.0049	
Mercury	99236-01-04 06:57 G	37966267.59	37966267.79	37966267.98	0.0136	0.0021	
Mercury	99236-04-01 14:38 G	37966355.91	37966356.11	37966356.30	0.0136	0.0007	
Mercury	99236-06-28 22:04 G	37966444.24	37966444.42	37966444.62	0.0136	0.0035	
Mercury	99236-09-25 05:45 G	37966532.58	37966532.74	37966532.92	0.0136	0.0063	
Mercury	99236-12-22 13:40 G	37966620.93	37966621.07	37966621.22	0.0136	0.0090	
Mercury	99237-03-20 21:07 G	37966709.30	37966709.38	37966709.48	0.0136	0.0118	
Moon	99249-09-16 22:04 G	37971272.24	37971272.42	37971272.62	0.0135	0.0087	
Earth	99249-09-17 01:26 G	37971272.37	37971272.56	37971272.78	0.0135	0.0080	*

Earth	99250-09-21 08:23 G	37971641.60	37971641.85	37971642.11	0.0135	0.0004
Moon	99250-09-21 12:14 G	37971641.75	37971642.01	37971642.26	0.0135	0.0011 *
Moon	99251-09-25 11:59 G	37972010.80	37972011.00	37972011.20	0.0135	0.0080
Earth	99251-09-25 15:07 G	37972010.95	37972011.13	37972011.33	0.0135	0.0087 *
Venus	99255-12-26 16:19 G	37973564.11	37973564.18	37973564.29	0.0136	0.0123
Venus	99256-08-08 21:50 G	37973790.29	37973790.41	37973790.57	0.0136	0.0104
Venus	99257-03-23 03:35 G	37974016.49	37974016.65	37974016.83	0.0136	0.0084
Venus	99257-11-04 09:21 G	37974242.70	37974242.89	37974243.08	0.0136	0.0064
Venus	99258-06-18 15:07 G	37974468.93	37974469.13	37974469.33	0.0136	0.0044
Venus	99259-01-30 20:52 G	37974695.16	37974695.37	37974695.59	0.0136	0.0025
Venus	99259-09-14 03:07 G	37974921.41	37974921.63	37974921.84	0.0136	0.0004
Venus	99260-04-27 09:07 G	37975147.67	37975147.88	37975148.10	0.0136	0.0017
Venus	99260-12-09 15:35 G	37975373.94	37975374.15	37975374.36	0.0137	0.0037
Venus	99261-07-23 22:04 G	37975600.23	37975600.42	37975600.62	0.0137	0.0057
Venus	99262-03-07 04:33 G	37975826.53	37975826.69	37975826.88	0.0137	0.0078
Venus	99262-10-19 11:31 G	37976052.84	37976052.98	37976053.14	0.0137	0.0098
Venus	99263-06-02 18:28 G	37976279.17	37976279.27	37976279.38	0.0137	0.0118
Mars	99269-02-20 15:07 G	37978369.01	37978369.13	37978369.30	0.0139	0.0122
Mercury	99277-10-16 15:21 G	37981529.11	37981529.14	37981529.18	0.0141	0.0136
Mercury	99278-01-12 18:43 G	37981617.21	37981617.28	37981617.36	0.0142	0.0116
Mercury	99278-04-10 22:04 G	37981705.33	37981705.42	37981705.52	0.0142	0.0095
Mercury	99278-07-08 01:40 G	37981793.46	37981793.57	37981793.68	0.0142	0.0074
Mercury	99278-10-04 05:02 G	37981881.59	37981881.71	37981881.83	0.0142	0.0053
Mercury	99278-12-31 08:23 G	37981969.73	37981969.85	37981969.98	0.0142	0.0032
Mercury	99279-03-29 11:45 G	37982057.86	37982057.99	37982058.13	0.0142	0.0012
Mercury	99279-06-25 15:21 G	37982146.01	37982146.14	37982146.27	0.0142	0.0011
Mercury	99279-09-21 18:43 G	37982234.15	37982234.28	37982234.41	0.0142	0.0032
Mercury	99279-12-18 22:04 G	37982322.30	37982322.42	37982322.54	0.0142	0.0053
Mercury	99280-03-16 01:26 G	37982410.45	37982410.56	37982410.68	0.0142	0.0074
Mercury	99280-06-12 04:47 G	37982498.61	37982498.70	37982498.80	0.0142	0.0095

Mercury	99280-09-08 08:23 G	37982586.78	37982586.85	37982586.92	0.0142	0.0116
Mercury	99280-12-05 11:45 G	37982674.96	37982674.99	37982675.02	0.0142	0.0138
Moon	99291-03-17 03:50 G	37986428.50	37986428.66	37986428.85	0.0143	0.0107
Earth	99291-03-17 05:02 G	37986428.56	37986428.71	37986428.87	0.0143	0.0113 *
Earth	99292-03-21 06:43 G	37986798.53	37986798.78	37986799.04	0.0143	0.0010
Moon	99292-03-21 07:26 G	37986798.57	37986798.81	37986799.06	0.0143	0.0018 *
Earth	99293-03-26 08:09 G	37987168.66	37987168.84	37987169.05	0.0143	0.0093
Moon	99293-03-26 08:52 G	37987168.68	37987168.87	37987169.07	0.0143	0.0098 *
Venus	99296-11-24 17:16 G	37988508.18	37988508.22	37988508.28	0.0143	0.0139
Venus	99297-07-09 05:16 G	37988734.60	37988734.72	37988734.86	0.0142	0.0115
Venus	99298-02-20 17:31 G	37988961.06	37988961.23	37988961.40	0.0142	0.0092
Venus	99298-10-05 05:02 G	37989187.53	37989187.71	37989187.91	0.0142	0.0069
Venus	99299-05-19 16:33 G	37989413.99	37989414.19	37989414.41	0.0142	0.0045
Venus	99300-01-01 04:19 G	37989640.46	37989640.68	37989640.90	0.0142	0.0021
Venus	99300-08-15 15:35 G	37989866.93	37989867.15	37989867.37	0.0142	0.0003
Venus	99301-03-30 02:52 G	37990093.40	37990093.62	37990093.83	0.0142	0.0026
Venus	99301-11-11 13:26 G	37990319.87	37990320.06	37990320.28	0.0141	0.0050
Venus	99302-06-26 00:14 G	37990546.34	37990546.51	37990546.71	0.0141	0.0072
Venus	99303-02-07 11:16 G	37990772.81	37990772.97	37990773.13	0.0141	0.0094
Venus	99303-09-21 21:21 G	37990999.29	37990999.39	37990999.53	0.0141	0.0117
Venus	99304-05-05 07:55 G	37991225.80	37991225.83	37991225.87	0.0141	0.0138
Mercury	99319-02-06 06:57 G	37996615.73	37996615.79	37996615.87	0.0136	0.0126
Mercury	99319-05-05 14:52 G	37996703.99	37996704.12	37996704.26	0.0136	0.0098
Mercury	99319-08-01 22:33 G	37996792.28	37996792.44	37996792.61	0.0136	0.0070
Mercury	99319-10-29 06:28 G	37996880.58	37996880.77	37996880.95	0.0136	0.0042
Mercury	99320-01-25 14:09 G	37996968.89	37996969.09	37996969.28	0.0136	0.0014
Mercury	99320-04-22 21:50 G	37997057.22	37997057.41	37997057.61	0.0136	0.0014
Mercury	99320-07-20 05:31 G	37997145.55	37997145.73	37997145.92	0.0136	0.0042
Mercury	99320-10-16 13:11 G	37997233.89	37997234.05	37997234.22	0.0136	0.0070
Mercury	99321-01-12 20:38 G	37997322.24	37997322.36	37997322.51	0.0136	0.0098

Mercury	99321-04-11 04:33 G	37997410.62	37997410.69	37997410.76	0.0136	0.0125
Moon	99333-09-18 08:09 G	38001953.64	38001953.84	38001954.06	0.0135	0.0070
Earth	99333-09-18 11:16 G	38001953.77	38001953.97	38001954.19	0.0135	0.0076 *
Earth	99334-09-22 17:59 G	38002323.00	38002323.25	38002323.50	0.0135	0.0008
Moon	99334-09-22 21:21 G	38002323.14	38002323.39	38002323.64	0.0135	0.0001 *
Moon	99335-09-26 21:07 G	38002692.22	38002692.38	38002692.56	0.0135	0.0098
Earth	99335-09-27 00:28 G	38002692.35	38002692.52	38002692.72	0.0135	0.0091 *
Venus	99339-08-27 01:40 G	38004122.53	38004122.57	38004122.65	0.0135	0.0130
Venus	99340-04-09 07:11 G	38004348.69	38004348.80	38004348.93	0.0136	0.0111
Venus	99340-11-21 12:28 G	38004574.88	38004575.02	38004575.19	0.0136	0.0092
Venus	99341-07-05 18:14 G	38004801.09	38004801.26	38004801.45	0.0136	0.0072
Venus	99342-02-16 23:59 G	38005027.31	38005027.50	38005027.70	0.0136	0.0052
Venus	99342-10-01 05:45 G	38005253.54	38005253.74	38005253.95	0.0136	0.0032
Venus	99343-05-15 11:45 G	38005479.78	38005479.99	38005480.21	0.0136	0.0012
Venus	99343-12-27 17:45 G	38005706.03	38005706.24	38005706.46	0.0136	0.0009
Venus	99344-08-10 00:14 G	38005932.30	38005932.51	38005932.72	0.0136	0.0028
Venus	99345-03-24 06:28 G	38006158.58	38006158.77	38006158.98	0.0137	0.0049
Venus	99345-11-05 12:57 G	38006384.86	38006385.04	38006385.24	0.0137	0.0069
Venus	99346-06-19 19:40 G	38006611.16	38006611.32	38006611.49	0.0137	0.0089
Venus	99347-02-01 02:38 G	38006837.48	38006837.61	38006837.74	0.0137	0.0109
Venus	99347-09-15 09:50 G	38007063.84	38007063.91	38007063.98	0.0137	0.0130
Mars	99351-11-15 11:16 G	38008585.71	38008585.97	38008586.26	0.0139	0.0061
Jupiter	99359-01-04 11:02 G	38011192.72	38011192.96	38011193.28	0.0141	0.0118
Mercury	99361-11-06 22:19 G	38012230.39	38012230.43	38012230.47	0.0142	0.0133
Mercury	99362-02-03 01:40 G	38012318.50	38012318.57	38012318.65	0.0142	0.0112
Mercury	99362-05-02 05:02 G	38012406.62	38012406.71	38012406.81	0.0142	0.0092
Mercury	99362-07-29 08:23 G	38012494.74	38012494.85	38012494.97	0.0142	0.0071
Mercury	99362-10-25 11:45 G	38012582.87	38012582.99	38012583.12	0.0142	0.0050
Mercury	99363-01-21 15:21 G	38012671.01	38012671.14	38012671.27	0.0142	0.0029
Mercury	99363-04-19 18:43 G	38012759.15	38012759.28	38012759.41	0.0142	0.0008

Mercury	99363-07-16 22:04 G	38012847.29	38012847.42	38012847.55	0.0142	0.0014
Mercury	99363-10-13 01:26 G	38012935.44	38012935.56	38012935.69	0.0142	0.0035
Mercury	99364-01-09 04:47 G	38013023.59	38013023.70	38013023.83	0.0142	0.0056
Mercury	99364-04-06 08:09 G	38013111.74	38013111.84	38013111.96	0.0142	0.0078
Mercury	99364-07-03 11:45 G	38013199.90	38013199.99	38013200.09	0.0142	0.0098
Mercury	99364-09-29 15:07 G	38013288.07	38013288.13	38013288.20	0.0142	0.0119
Mercury	99364-12-26 18:28 G	38013376.26	38013376.27	38013376.30	0.0142	0.0141
Moon	99375-03-18 10:47 G	38017109.79	38017109.95	38017110.11	0.0143	0.0115
Earth	99375-03-18 12:43 G	38017109.88	38017110.03	38017110.21	0.0143	0.0111 *
Earth	99376-03-22 14:52 G	38017479.86	38017480.12	38017480.38	0.0143	0.0007
Moon	99376-03-22 15:50 G	38017479.91	38017480.16	38017480.41	0.0143	0.0002 *
Moon	99377-03-27 15:21 G	38017849.95	38017850.14	38017850.37	0.0143	0.0090
Earth	99377-03-27 16:33 G	38017850.00	38017850.19	38017850.38	0.0143	0.0097 *
Venus	99381-03-09 10:19 G	38019292.84	38019292.93	38019293.05	0.0143	0.0125
Venus	99381-10-21 22:19 G	38019519.29	38019519.43	38019519.60	0.0142	0.0102
Venus	99382-06-05 10:04 G	38019745.75	38019745.92	38019746.12	0.0142	0.0079
Venus	99383-01-17 22:04 G	38019972.22	38019972.42	38019972.63	0.0142	0.0054
Venus	99383-09-01 09:35 G	38020198.70	38020198.90	38020199.13	0.0142	0.0031
Venus	99384-04-14 21:21 G	38020425.17	38020425.39	38020425.61	0.0142	0.0007
Venus	99384-11-27 08:23 G	38020651.64	38020651.85	38020652.08	0.0142	0.0017
Venus	99385-07-11 19:26 G	38020878.11	38020878.31	38020878.53	0.0142	0.0040
Venus	99386-02-23 06:43 G	38021104.59	38021104.78	38021104.98	0.0141	0.0062
Venus	99386-10-07 17:16 G	38021331.06	38021331.22	38021331.41	0.0141	0.0085
Venus	99387-05-22 03:50 G	38021557.53	38021557.66	38021557.82	0.0141	0.0107
Venus	99388-01-03 14:23 G	38021784.02	38021784.10	38021784.19	0.0141	0.0129
Mars	99392-06-11 14:23 G	38023404.79	38023405.10	38023405.40	0.0140	0.0025
Mercury	99403-02-27 13:55 G	38027316.99	38027317.08	38027317.18	0.0136	0.0119
Mercury	99403-05-26 21:35 G	38027405.26	38027405.40	38027405.55	0.0136	0.0092
Mercury	99403-08-23 05:31 G	38027493.56	38027493.73	38027493.90	0.0136	0.0063
Mercury	99403-11-19 13:11 G	38027581.86	38027582.05	38027582.24	0.0136	0.0035

Mercury	99404-02-15 20:52 G	38027670.18	38027670.37	38027670.57	0.0136	0.0008
Mercury	99404-05-14 04:33 G	38027758.50	38027758.69	38027758.89	0.0136	0.0021
Mercury	99404-08-10 12:14 G	38027846.83	38027847.01	38027847.20	0.0136	0.0048
Mercury	99404-11-06 19:55 G	38027935.17	38027935.33	38027935.50	0.0136	0.0076
Mercury	99405-02-03 03:21 G	38028023.53	38028023.64	38028023.78	0.0136	0.0104
Mercury	99405-05-02 11:16 G	38028111.93	38028111.97	38028112.02	0.0136	0.0131
Moon	99417-09-19 17:02 G	38032635.03	38032635.21	38032635.43	0.0135	0.0079
Earth	99417-09-19 20:23 G	38032635.14	38032635.35	38032635.57	0.0135	0.0072 *
Earth	99418-09-24 03:07 G	38033004.38	38033004.63	38033004.88	0.0135	0.0011
Moon	99418-09-24 05:59 G	38033004.50	38033004.75	38033005.01	0.0135	0.0019 *
Moon	99419-09-28 06:28 G	38033373.60	38033373.77	38033373.97	0.0135	0.0088
Earth	99419-09-28 09:07 G	38033373.72	38033373.88	38033374.08	0.0135	0.0095 *
Venus	99423-12-09 16:04 G	38034907.08	38034907.17	38034907.29	0.0135	0.0118
Venus	99424-07-22 21:35 G	38035133.26	38035133.40	38035133.56	0.0135	0.0099
Venus	99425-03-06 03:07 G	38035359.47	38035359.63	38035359.81	0.0136	0.0080
Venus	99425-10-18 08:52 G	38035585.68	38035585.87	38035586.06	0.0136	0.0060
Venus	99426-06-01 14:38 G	38035811.90	38035812.11	38035812.31	0.0136	0.0040
Venus	99427-01-13 20:23 G	38036038.14	38036038.35	38036038.56	0.0136	0.0020
Venus	99427-08-28 02:38 G	38036264.39	38036264.61	38036264.82	0.0136	0.0002
Venus	99428-04-10 08:38 G	38036490.65	38036490.86	38036491.08	0.0136	0.0020
Venus	99428-11-22 14:38 G	38036716.92	38036717.11	38036717.33	0.0136	0.0041
Venus	99429-07-06 21:07 G	38036943.20	38036943.38	38036943.58	0.0137	0.0061
Venus	99430-02-18 03:35 G	38037169.49	38037169.65	38037169.84	0.0137	0.0081
Venus	99430-10-02 10:19 G	38037395.80	38037395.93	38037396.09	0.0137	0.0101
Venus	99431-05-16 17:16 G	38037622.13	38037622.22	38037622.33	0.0137	0.0121
Mars	99436-07-11 06:14 G	38039504.48	38039504.76	38039505.05	0.0139	0.0050
Mercury	99445-11-28 05:02 G	38042931.67	38042931.71	38042931.77	0.0142	0.0130
Mercury	99446-02-24 08:23 G	38043019.78	38043019.85	38043019.94	0.0142	0.0110
Mercury	99446-05-23 11:59 G	38043107.90	38043108.00	38043108.10	0.0142	0.0089
Mercury	99446-08-19 15:21 G	38043196.03	38043196.14	38043196.26	0.0142	0.0068

Mercury	99446-11-15 18:43 G	38043284.16	38043284.28	38043284.41	0.0142	0.0047
Mercury	99447-02-11 22:04 G	38043372.29	38043372.42	38043372.55	0.0142	0.0026
Mercury	99447-05-11 01:26 G	38043460.43	38043460.56	38043460.70	0.0142	0.0007
Mercury	99447-08-07 05:02 G	38043548.58	38043548.71	38043548.84	0.0142	0.0017
Mercury	99447-11-03 08:23 G	38043636.72	38043636.85	38043636.97	0.0142	0.0037
Mercury	99448-01-30 11:45 G	38043724.87	38043724.99	38043725.11	0.0142	0.0058
Mercury	99448-04-27 15:07 G	38043813.02	38043813.13	38043813.24	0.0142	0.0080
Mercury	99448-07-24 18:28 G	38043901.18	38043901.27	38043901.37	0.0142	0.0101
Mercury	99448-10-20 21:50 G	38043989.35	38043989.41	38043989.48	0.0142	0.0122
Moon	99459-03-19 17:02 G	38047791.04	38047791.21	38047791.41	0.0143	0.0104
Earth	99459-03-19 19:26 G	38047791.16	38047791.31	38047791.49	0.0143	0.0109 *
Earth	99460-03-23 21:21 G	38048161.13	38048161.39	38048161.65	0.0143	0.0005
Moon	99460-03-23 23:31 G	38048161.23	38048161.48	38048161.73	0.0143	0.0012 *
Moon	99461-03-28 21:35 G	38048531.23	38048531.40	38048531.58	0.0143	0.0105
Earth	99461-03-28 22:33 G	38048531.27	38048531.44	38048531.64	0.0143	0.0099 *
Venus	99464-11-07 14:23 G	38049851.04	38049851.10	38049851.18	0.0143	0.0135
Venus	99465-06-22 02:23 G	38050077.47	38050077.60	38050077.75	0.0143	0.0112
Venus	99466-02-03 14:23 G	38050303.94	38050304.10	38050304.29	0.0142	0.0089
Venus	99466-09-18 02:38 G	38050530.41	38050530.61	38050530.81	0.0142	0.0065
Venus	99467-05-02 14:09 G	38050756.88	38050757.09	38050757.31	0.0142	0.0041
Venus	99467-12-15 01:40 G	38050983.36	38050983.57	38050983.80	0.0142	0.0018
Venus	99468-07-28 13:11 G	38051209.83	38051210.05	38051210.27	0.0142	0.0006
Venus	99469-03-12 00:43 G	38051436.31	38051436.53	38051436.74	0.0142	0.0029
Venus	99469-10-24 11:31 G	38051662.79	38051662.98	38051663.19	0.0141	0.0052
Venus	99470-06-07 22:33 G	38051889.26	38051889.44	38051889.63	0.0141	0.0075
Venus	99471-01-20 09:07 G	38052115.73	38052115.88	38052116.05	0.0141	0.0097
Venus	99471-09-03 19:40 G	38052342.22	38052342.32	38052342.45	0.0141	0.0119
Venus	99472-04-17 06:14 G	38052568.76	38052568.76	38052568.77	0.0141	0.0141
Mars	99477-02-05 15:07 G	38054323.92	38054324.13	38054324.39	0.0139	0.0091
Jupiter	99483-11-01 09:50 G	38056783.40	38056783.91	38056784.44	0.0137	0.0018

Mercury	99487-03-19 20:23 G	38058018.25	38058018.35	38058018.46	0.0136	0.0115
Mercury	99487-06-16 04:04 G	38058106.53	38058106.67	38058106.83	0.0136	0.0087
Mercury	99487-09-12 11:59 G	38058194.83	38058195.00	38058195.18	0.0136	0.0058
Mercury	99487-12-09 19:40 G	38058283.13	38058283.32	38058283.52	0.0136	0.0031
Mercury	99488-03-07 03:21 G	38058371.45	38058371.64	38058371.84	0.0136	0.0005
Mercury	99488-06-03 11:16 G	38058459.77	38058459.97	38058460.16	0.0136	0.0025
Mercury	99488-08-30 18:43 G	38058548.11	38058548.28	38058548.47	0.0136	0.0053
Mercury	99488-11-27 02:23 G	38058636.45	38058636.60	38058636.76	0.0136	0.0081
Mercury	99489-02-23 09:50 G	38058724.81	38058724.91	38058725.04	0.0136	0.0109
Moon	99501-09-21 03:35 G	38063316.44	38063316.65	38063316.87	0.0135	0.0063
Earth	99501-09-21 05:45 G	38063316.53	38063316.74	38063316.96	0.0135	0.0068 *
Earth	99502-09-25 12:14 G	38063685.77	38063686.01	38063686.27	0.0135	0.0016
Moon	99502-09-25 14:52 G	38063685.87	38063686.12	38063686.38	0.0135	0.0009 *
Moon	99503-09-29 15:50 G	38064055.03	38064055.16	38064055.33	0.0135	0.0107
Earth	99503-09-29 18:43 G	38064055.12	38064055.28	38064055.46	0.0135	0.0099 *
Venus	99507-08-10 01:26 G	38065465.51	38065465.56	38065465.67	0.0135	0.0126
Venus	99508-03-23 06:57 G	38065691.68	38065691.79	38065691.94	0.0135	0.0107
Venus	99508-11-04 12:43 G	38065917.87	38065918.03	38065918.20	0.0136	0.0087
Venus	99509-06-18 17:59 G	38066144.08	38066144.25	38066144.45	0.0136	0.0068
Venus	99510-01-30 23:59 G	38066370.30	38066370.50	38066370.70	0.0136	0.0048
Venus	99510-09-14 05:45 G	38066596.53	38066596.74	38066596.95	0.0136	0.0028
Venus	99511-04-28 11:45 G	38066822.78	38066822.99	38066823.21	0.0136	0.0008
Venus	99511-12-10 17:45 G	38067049.03	38067049.24	38067049.46	0.0136	0.0012
Venus	99512-07-23 23:45 G	38067275.29	38067275.49	38067275.71	0.0136	0.0033
Venus	99513-03-07 06:28 G	38067501.57	38067501.77	38067501.97	0.0136	0.0052
Venus	99513-10-19 12:43 G	38067727.85	38067728.03	38067728.22	0.0137	0.0072
Venus	99514-06-02 19:26 G	38067954.15	38067954.31	38067954.47	0.0137	0.0092
Venus	99515-01-15 01:55 G	38068180.47	38068180.58	38068180.71	0.0137	0.0112
Venus	99515-08-29 08:52 G	38068406.83	38068406.87	38068406.93	0.0137	0.0132
Mars	99519-04-05 07:40 G	38069721.74	38069721.82	38069721.95	0.0138	0.0129

Mercury	99529-12-19 11:59 G	38073632.96	38073633.00	38073633.07	0.0141	0.0127
Mercury	99530-03-17 15:35 G	38073721.07	38073721.15	38073721.24	0.0142	0.0106
Mercury	99530-06-13 18:57 G	38073809.19	38073809.29	38073809.40	0.0142	0.0085
Mercury	99530-09-09 22:19 G	38073897.32	38073897.43	38073897.55	0.0142	0.0064
Mercury	99530-12-07 01:40 G	38073985.45	38073985.57	38073985.70	0.0142	0.0044
Mercury	99531-03-05 05:02 G	38074073.59	38074073.71	38074073.85	0.0142	0.0023
Mercury	99531-06-01 08:38 G	38074161.73	38074161.86	38074161.99	0.0142	0.0003
Mercury	99531-08-28 11:59 G	38074249.87	38074250.00	38074250.13	0.0142	0.0020
Mercury	99531-11-24 15:21 G	38074338.02	38074338.14	38074338.27	0.0142	0.0041
Mercury	99532-02-20 18:43 G	38074426.17	38074426.28	38074426.40	0.0142	0.0062
Mercury	99532-05-18 22:04 G	38074514.32	38074514.42	38074514.53	0.0142	0.0083
Mercury	99532-08-15 01:26 G	38074602.48	38074602.56	38074602.65	0.0142	0.0104
Mercury	99532-11-11 04:47 G	38074690.65	38074690.70	38074690.77	0.0142	0.0126
Moon	99543-03-20 23:02 G	38078472.31	38078472.46	38078472.66	0.0143	0.0109
Earth	99543-03-21 02:38 G	38078472.45	38078472.61	38078472.80	0.0143	0.0106 *
Earth	99544-03-25 04:33 G	38078842.43	38078842.69	38078842.95	0.0143	0.0002
Moon	99544-03-25 06:43 G	38078842.53	38078842.78	38078843.04	0.0143	0.0006 *
Moon	99545-03-30 03:07 G	38079212.46	38079212.63	38079212.86	0.0143	0.0095
Earth	99545-03-30 05:31 G	38079212.57	38079212.73	38079212.93	0.0143	0.0103 *
Venus	99549-02-20 06:43 G	38080635.68	38080635.78	38080635.90	0.0143	0.0122
Venus	99549-10-04 18:43 G	38080862.14	38080862.28	38080862.45	0.0142	0.0099
Venus	99550-05-19 06:43 G	38081088.60	38081088.78	38081088.98	0.0142	0.0075
Venus	99550-12-31 18:43 G	38081315.08	38081315.28	38081315.49	0.0142	0.0052
Venus	99551-08-15 06:28 G	38081541.56	38081541.77	38081541.99	0.0142	0.0028
Venus	99552-03-28 18:14 G	38081768.04	38081768.26	38081768.48	0.0142	0.0005
Venus	99552-11-10 05:31 G	38081994.51	38081994.73	38081994.95	0.0142	0.0019
Venus	99553-06-24 16:33 G	38082220.99	38082221.19	38082221.41	0.0142	0.0042
Venus	99554-02-06 03:35 G	38082447.46	38082447.65	38082447.85	0.0141	0.0065
Venus	99554-09-20 14:23 G	38082673.94	38082674.10	38082674.28	0.0141	0.0087
Venus	99555-05-05 00:57 G	38082900.42	38082900.54	38082900.69	0.0141	0.0109

Venus	99555-12-17 11:16 G	38083126.91	38083126.97	38083127.07	0.0141	0.0131
Mars	99559-10-30 15:35 G	38084539.97	38084540.15	38084540.39	0.0140	0.0104
Mercury	99571-04-10 02:23 G	38088719.50	38088719.60	38088719.73	0.0136	0.0111
Mercury	99571-07-07 10:04 G	38088807.78	38088807.92	38088808.09	0.0136	0.0084
Mercury	99571-10-03 17:59 G	38088896.08	38088896.25	38088896.44	0.0136	0.0055
Mercury	99571-12-31 01:40 G	38088984.39	38088984.57	38088984.77	0.0136	0.0028
Mercury	99572-03-28 09:35 G	38089072.70	38089072.90	38089073.10	0.0136	0.0001
Mercury	99572-06-24 17:02 G	38089161.03	38089161.21	38089161.41	0.0136	0.0030
Mercury	99572-09-21 00:57 G	38089249.36	38089249.54	38089249.72	0.0136	0.0057
Mercury	99572-12-18 08:38 G	38089337.71	38089337.86	38089338.01	0.0136	0.0084
Mercury	99573-03-16 16:04 G	38089426.07	38089426.17	38089426.29	0.0136	0.0112
Moon	99585-09-21 11:45 G	38093997.80	38093997.99	38093998.22	0.0135	0.0070
Earth	99585-09-21 13:40 G	38093997.87	38093998.07	38093998.31	0.0135	0.0065 *
Earth	99586-09-25 20:38 G	38094367.11	38094367.36	38094367.61	0.0135	0.0019
Moon	99586-09-25 22:33 G	38094367.19	38094367.44	38094367.70	0.0135	0.0026 *
Moon	99587-09-30 00:57 G	38094736.39	38094736.54	38094736.73	0.0135	0.0096
Earth	99587-09-30 02:38 G	38094736.47	38094736.61	38094736.79	0.0135	0.0103 *
Venus	99591-04-09 10:47 G	38096023.92	38096023.95	38096024.00	0.0135	0.0133
Venus	99591-11-21 16:19 G	38096250.07	38096250.18	38096250.30	0.0135	0.0114
Venus	99592-07-04 21:35 G	38096476.26	38096476.40	38096476.56	0.0136	0.0095
Venus	99593-02-16 03:07 G	38096702.46	38096702.63	38096702.82	0.0136	0.0076
Venus	99593-09-30 09:07 G	38096928.68	38096928.88	38096929.07	0.0136	0.0056
Venus	99594-05-14 14:38 G	38097154.91	38097155.11	38097155.32	0.0136	0.0037
Venus	99594-12-26 20:38 G	38097381.15	38097381.36	38097381.57	0.0136	0.0017
Venus	99595-08-10 02:38 G	38097607.40	38097607.61	38097607.83	0.0136	0.0005
Venus	99596-03-23 08:52 G	38097833.66	38097833.87	38097834.08	0.0136	0.0023
Venus	99596-11-04 14:52 G	38098059.92	38098060.12	38098060.33	0.0136	0.0043
Venus	99597-06-18 21:07 G	38098286.20	38098286.38	38098286.58	0.0137	0.0064
Venus	99598-01-31 03:35 G	38098512.49	38098512.65	38098512.83	0.0137	0.0084
Venus	99598-09-14 10:47 G	38098738.81	38098738.95	38098739.09	0.0137	0.0103

Venus	99599-04-28 17:16 G	38098965.14	38098965.22	38098965.32	0.0137	0.0123
Mars	99603-11-29 04:04 G	38100640.37	38100640.67	38100640.97	0.0138	0.0016
Mercury	99614-01-08 19:26 G	38104334.25	38104334.31	38104334.38	0.0142	0.0122
Mercury	99614-04-06 22:47 G	38104422.36	38104422.45	38104422.55	0.0142	0.0101
Mercury	99614-07-04 02:23 G	38104510.49	38104510.60	38104510.70	0.0142	0.0080
Mercury	99614-09-30 05:31 G	38104598.62	38104598.73	38104598.86	0.0142	0.0060
Mercury	99614-12-27 09:07 G	38104686.75	38104686.88	38104687.00	0.0142	0.0038
Mercury	99615-03-25 12:28 G	38104774.89	38104775.02	38104775.15	0.0142	0.0017
Mercury	99615-06-21 15:50 G	38104863.03	38104863.16	38104863.29	0.0142	0.0004
Mercury	99615-09-17 19:11 G	38104951.17	38104951.30	38104951.43	0.0142	0.0025
Mercury	99615-12-14 22:33 G	38105039.32	38105039.44	38105039.57	0.0142	0.0046
Mercury	99616-03-12 01:55 G	38105127.47	38105127.58	38105127.70	0.0142	0.0067
Mercury	99616-06-08 05:16 G	38105215.63	38105215.72	38105215.83	0.0142	0.0089
Mercury	99616-09-04 08:52 G	38105303.79	38105303.87	38105303.95	0.0142	0.0109
Mercury	99616-12-01 12:14 G	38105391.96	38105392.01	38105392.06	0.0142	0.0130
Moon	99627-03-21 09:35 G	38109153.72	38109153.90	38109154.10	0.0143	0.0096
Earth	99627-03-21 12:57 G	38109153.86	38109154.04	38109154.23	0.0143	0.0100 *
Earth	99628-03-25 14:23 G	38109523.84	38109524.10	38109524.36	0.0143	0.0004
Moon	99628-03-25 17:45 G	38109523.98	38109524.24	38109524.49	0.0143	0.0003 *
Moon	99629-03-30 12:57 G	38109893.89	38109894.04	38109894.20	0.0143	0.0115
Earth	99629-03-30 15:21 G	38109893.98	38109894.14	38109894.32	0.0143	0.0108 *
Venus	99632-10-20 12:43 G	38111193.95	38111194.03	38111194.11	0.0143	0.0131
Venus	99633-06-04 00:28 G	38111420.39	38111420.52	38111420.68	0.0142	0.0108
Venus	99634-01-16 12:57 G	38111646.86	38111647.04	38111647.22	0.0142	0.0085
Venus	99634-08-31 00:43 G	38111873.34	38111873.53	38111873.73	0.0142	0.0061
Venus	99635-04-14 12:28 G	38112099.81	38112100.02	38112100.24	0.0142	0.0038
Venus	99635-11-26 23:59 G	38112326.29	38112326.50	38112326.73	0.0142	0.0015
Venus	99636-07-10 11:31 G	38112552.76	38112552.98	38112553.20	0.0142	0.0009
Venus	99637-02-21 22:47 G	38112779.24	38112779.45	38112779.67	0.0142	0.0032
Venus	99637-10-06 09:50 G	38113005.72	38113005.91	38113006.12	0.0141	0.0055

Venus	99638-05-20 20:38 G	38113232.19	38113232.36	38113232.56	0.0141	0.0077
Venus	99639-01-02 07:26 G	38113458.66	38113458.81	38113458.97	0.0141	0.0099
Venus	99639-08-16 17:45 G	38113685.15	38113685.24	38113685.37	0.0141	0.0121
Mars	99644-06-24 22:47 G	38115459.14	38115459.45	38115459.76	0.0140	0.0018
Mercury	99655-02-01 00:57 G	38119332.53	38119332.54	38119332.59	0.0136	0.0135
Mercury	99655-04-30 08:52 G	38119420.76	38119420.87	38119421.00	0.0136	0.0107
Mercury	99655-07-27 16:47 G	38119509.05	38119509.20	38119509.36	0.0136	0.0078
Mercury	99655-10-24 00:28 G	38119597.34	38119597.52	38119597.71	0.0136	0.0050
Mercury	99656-01-20 08:23 G	38119685.65	38119685.85	38119686.04	0.0136	0.0022
Mercury	99656-04-17 16:04 G	38119773.97	38119774.17	38119774.37	0.0136	0.0006
Mercury	99656-07-14 23:45 G	38119862.30	38119862.49	38119862.68	0.0136	0.0033
Mercury	99656-10-11 07:11 G	38119950.63	38119950.80	38119950.98	0.0136	0.0061
Mercury	99657-01-07 14:52 G	38120038.98	38120039.12	38120039.28	0.0136	0.0089
Mercury	99657-04-05 22:19 G	38120127.35	38120127.43	38120127.55	0.0136	0.0117
Moon	99669-09-21 22:04 G	38124679.22	38124679.42	38124679.66	0.0135	0.0058
Earth	99669-09-21 23:02 G	38124679.25	38124679.46	38124679.70	0.0135	0.0061 *
Earth	99670-09-26 05:45 G	38125048.50	38125048.74	38125048.99	0.0135	0.0023
Moon	99670-09-26 06:57 G	38125048.54	38125048.79	38125049.05	0.0135	0.0017 *
Moon	99671-09-30 11:02 G	38125417.84	38125417.96	38125418.09	0.0135	0.0114
Earth	99671-09-30 11:59 G	38125417.87	38125418.00	38125418.17	0.0135	0.0107 *
Venus	99675-07-22 02:09 G	38126808.50	38126808.59	38126808.69	0.0135	0.0121
Venus	99676-03-04 07:11 G	38127034.68	38127034.80	38127034.96	0.0136	0.0103
Venus	99676-10-16 12:43 G	38127260.88	38127261.03	38127261.21	0.0136	0.0084
Venus	99677-05-30 18:28 G	38127487.09	38127487.27	38127487.46	0.0136	0.0064
Venus	99678-01-11 23:59 G	38127713.31	38127713.50	38127713.71	0.0136	0.0045
Venus	99678-08-26 06:14 G	38127939.55	38127939.76	38127939.97	0.0136	0.0025
Venus	99679-04-09 11:59 G	38128165.79	38128166.00	38128166.22	0.0136	0.0006
Venus	99679-11-21 17:59 G	38128392.04	38128392.25	38128392.47	0.0136	0.0015
Venus	99680-07-05 00:14 G	38128618.30	38128618.51	38128618.72	0.0136	0.0035
Venus	99681-02-16 06:28 G	38128844.58	38128844.77	38128844.97	0.0137	0.0055

Venus	99681-09-30 12:57 G	38129070.87	38129071.04	38129071.22	0.0137	0.0075
Venus	99682-05-14 19:11 G	38129297.16	38129297.30	38129297.47	0.0137	0.0095
Venus	99682-12-27 01:55 G	38129523.48	38129523.58	38129523.71	0.0137	0.0115
Venus	99683-08-10 09:07 G	38129749.85	38129749.88	38129749.92	0.0137	0.0135
Mars	99688-07-24 02:23 G	38131559.42	38131559.60	38131559.83	0.0139	0.0102
Mercury	99697-11-01 23:31 G	38134947.45	38134947.48	38134947.51	0.0141	0.0137
Mercury	99698-01-29 02:52 G	38135035.55	38135035.62	38135035.69	0.0142	0.0116
Mercury	99698-04-27 05:59 G	38135123.67	38135123.75	38135123.86	0.0142	0.0096
Mercury	99698-07-24 09:35 G	38135211.79	38135211.90	38135212.01	0.0142	0.0074
Mercury	99698-10-20 12:57 G	38135299.92	38135300.04	38135300.17	0.0142	0.0054
Mercury	99699-01-16 16:19 G	38135388.06	38135388.18	38135388.31	0.0142	0.0033
Mercury	99699-04-14 19:55 G	38135476.20	38135476.33	38135476.46	0.0142	0.0012
Mercury	99699-07-11 23:16 G	38135564.34	38135564.47	38135564.60	0.0142	0.0009
Mercury	99699-10-08 02:38 G	38135652.48	38135652.61	38135652.74	0.0142	0.0031
Mercury	99700-01-04 05:59 G	38135740.63	38135740.75	38135740.88	0.0142	0.0052
Mercury	99700-04-02 09:21 G	38135828.78	38135828.89	38135829.01	0.0142	0.0073
Mercury	99700-06-29 12:43 G	38135916.94	38135917.03	38135917.14	0.0142	0.0094
Mercury	99700-09-25 16:04 G	38136005.11	38136005.17	38136005.26	0.0142	0.0116
Mercury	99700-12-22 19:40 G	38136093.29	38136093.32	38136093.36	0.0142	0.0136
Moon	99711-03-22 20:23 G	38139835.17	38139835.35	38139835.56	0.0143	0.0094
Earth	99711-03-23 00:14 G	38139835.33	38139835.51	38139835.72	0.0143	0.0093 *
Earth	99712-03-27 01:40 G	38140205.32	38140205.57	38140205.83	0.0143	0.0011
Moon	99712-03-27 05:02 G	38140205.46	38140205.71	38140205.96	0.0143	0.0017 *
Moon	99713-03-31 23:31 G	38140575.32	38140575.48	38140575.67	0.0143	0.0106
Earth	99713-04-01 03:07 G	38140575.48	38140575.63	38140575.79	0.0143	0.0114 *
Venus	99716-06-20 19:26 G	38141752.28	38141752.31	38141752.37	0.0143	0.0140
Venus	99717-02-02 07:55 G	38141978.71	38141978.83	38141978.96	0.0142	0.0117
Venus	99717-09-16 19:55 G	38142205.18	38142205.33	38142205.51	0.0142	0.0094
Venus	99718-05-01 07:55 G	38142431.65	38142431.83	38142432.03	0.0142	0.0070
Venus	99718-12-13 19:40 G	38142658.12	38142658.32	38142658.54	0.0142	0.0047

Venus	99719-07-28 07:26 G	38142884.60	38142884.81	38142885.03	0.0142	0.0024
Venus	99720-03-10 19:11 G	38143111.08	38143111.30	38143111.52	0.0142	0.0001
Venus	99720-10-23 06:28 G	38143337.55	38143337.77	38143337.99	0.0142	0.0023
Venus	99721-06-06 17:31 G	38143564.03	38143564.23	38143564.44	0.0142	0.0045
Venus	99722-01-19 04:33 G	38143790.50	38143790.69	38143790.89	0.0141	0.0068
Venus	99722-09-02 15:07 G	38144016.97	38144017.13	38144017.31	0.0141	0.0090
Venus	99723-04-17 01:40 G	38144243.45	38144243.57	38144243.72	0.0141	0.0112
Venus	99723-11-29 12:14 G	38144469.95	38144470.01	38144470.08	0.0141	0.0133
Mercury	99739-02-22 07:55 G	38150033.78	38150033.83	38150033.91	0.0136	0.0128
Mercury	99739-05-21 15:50 G	38150122.04	38150122.16	38150122.30	0.0136	0.0100
Mercury	99739-08-17 23:31 G	38150210.32	38150210.48	38150210.66	0.0136	0.0072
Mercury	99739-11-14 07:26 G	38150298.63	38150298.81	38150299.00	0.0136	0.0044
Mercury	99740-02-10 15:07 G	38150386.94	38150387.13	38150387.33	0.0136	0.0016
Mercury	99740-05-08 22:47 G	38150475.26	38150475.45	38150475.65	0.0136	0.0012
Mercury	99740-08-05 06:28 G	38150563.59	38150563.77	38150563.96	0.0136	0.0039
Mercury	99740-11-01 14:09 G	38150651.92	38150652.09	38150652.26	0.0136	0.0067
Mercury	99741-01-28 21:35 G	38150740.27	38150740.40	38150740.55	0.0136	0.0095
Mercury	99741-04-27 05:31 G	38150828.65	38150828.73	38150828.81	0.0136	0.0122
Moon	99753-09-23 07:11 G	38155360.60	38155360.80	38155361.03	0.0135	0.0061
Earth	99753-09-23 07:55 G	38155360.61	38155360.83	38155361.06	0.0135	0.0057 *
Earth	99754-09-27 14:38 G	38155729.86	38155730.11	38155730.36	0.0135	0.0026
Moon	99754-09-27 14:52 G	38155729.87	38155730.12	38155730.38	0.0135	0.0032 *
Moon	99755-10-01 20:52 G	38156099.22	38156099.37	38156099.52	0.0135	0.0104
Earth	99755-10-01 21:07 G	38156099.24	38156099.38	38156099.53	0.0135	0.0110 *
Venus	99759-03-22 11:02 G	38157366.91	38157366.96	38157367.04	0.0135	0.0129
Venus	99759-11-03 16:33 G	38157593.08	38157593.19	38157593.32	0.0135	0.0110
Venus	99760-06-16 22:04 G	38157819.27	38157819.42	38157819.58	0.0136	0.0091
Venus	99761-01-29 03:35 G	38158045.47	38158045.65	38158045.84	0.0136	0.0072
Venus	99761-09-12 09:07 G	38158271.69	38158271.88	38158272.09	0.0136	0.0053
Venus	99762-04-26 15:07 G	38158497.92	38158498.13	38158498.34	0.0136	0.0033

Venus	99762-12-08 20:52 G	38158724.16	38158724.37	38158724.58	0.0136	0.0014
Venus	99763-07-23 02:52 G	38158950.41	38158950.62	38158950.84	0.0136	0.0006
Venus	99764-03-05 08:52 G	38159176.66	38159176.87	38159177.09	0.0136	0.0026
Venus	99764-10-17 14:52 G	38159402.93	38159403.12	38159403.34	0.0137	0.0047
Venus	99765-05-31 21:21 G	38159629.21	38159629.39	38159629.58	0.0137	0.0066
Venus	99766-01-13 03:35 G	38159855.50	38159855.65	38159855.83	0.0137	0.0086
Venus	99766-08-27 10:19 G	38160081.81	38160081.93	38160082.08	0.0137	0.0106
Venus	99767-04-10 17:31 G	38160308.15	38160308.23	38160308.31	0.0137	0.0126
Mars	99771-04-18 05:16 G	38161776.49	38161776.72	38161776.99	0.0138	0.0079
Mercury	99781-11-23 06:43 G	38165648.74	38165648.78	38165648.83	0.0142	0.0132
Mercury	99782-02-19 10:04 G	38165736.84	38165736.92	38165737.00	0.0142	0.0111
Mercury	99782-05-18 13:26 G	38165824.96	38165825.06	38165825.16	0.0142	0.0090
Mercury	99782-08-14 16:47 G	38165913.09	38165913.20	38165913.32	0.0142	0.0070
Mercury	99782-11-10 20:23 G	38166001.23	38166001.35	38166001.47	0.0142	0.0048
Mercury	99783-02-06 23:45 G	38166089.36	38166089.49	38166089.62	0.0142	0.0027
Mercury	99783-05-06 03:07 G	38166177.50	38166177.63	38166177.76	0.0142	0.0007
Mercury	99783-08-02 06:28 G	38166265.64	38166265.77	38166265.90	0.0142	0.0016
Mercury	99783-10-29 10:04 G	38166353.79	38166353.92	38166354.04	0.0142	0.0036
Mercury	99784-01-25 13:26 G	38166441.94	38166442.06	38166442.18	0.0142	0.0057
Mercury	99784-04-22 16:47 G	38166530.09	38166530.20	38166530.31	0.0142	0.0078
Mercury	99784-07-19 20:09 G	38166618.25	38166618.34	38166618.44	0.0142	0.0100
Mercury	99784-10-15 23:45 G	38166706.42	38166706.49	38166706.56	0.0142	0.0121
Mercury	99785-01-12 03:07 G	38166794.63	38166794.63	38166794.64	0.0142	0.0142
Moon	99795-03-23 08:52 G	38170516.66	38170516.87	38170517.08	0.0143	0.0085
Earth	99795-03-23 12:14 G	38170516.82	38170517.01	38170517.22	0.0143	0.0087 *
Earth	99796-03-27 13:55 G	38170886.82	38170887.08	38170887.34	0.0143	0.0018
Moon	99796-03-27 17:45 G	38170886.98	38170887.24	38170887.49	0.0143	0.0012 *
Moon	99797-04-01 11:31 G	38171256.89	38171256.98	38171257.11	0.0143	0.0129
Earth	99797-04-01 15:07 G	38171257.01	38171257.13	38171257.28	0.0143	0.0122 *
Venus	99800-10-03 15:21 G	38172537.05	38172537.14	38172537.26	0.0143	0.0125

Venus	99801-05-18 03:50 G	38172763.51	38172763.66	38172763.82	0.0142	0.0102
Venus	99801-12-30 15:50 G	38172989.98	38172990.16	38172990.35	0.0142	0.0079
Venus	99802-08-14 03:50 G	38173216.46	38173216.66	38173216.87	0.0142	0.0055
Venus	99803-03-28 15:35 G	38173442.94	38173443.15	38173443.37	0.0142	0.0032
Venus	99803-11-10 03:21 G	38173669.42	38173669.64	38173669.86	0.0142	0.0009
Venus	99804-06-23 14:38 G	38173895.89	38173896.11	38173896.33	0.0142	0.0014
Venus	99805-02-05 01:55 G	38174122.37	38174122.58	38174122.80	0.0142	0.0037
Venus	99805-09-19 12:57 G	38174348.85	38174349.04	38174349.24	0.0141	0.0059
Venus	99806-05-03 23:45 G	38174575.32	38174575.49	38174575.67	0.0141	0.0082
Venus	99806-12-16 10:19 G	38174801.79	38174801.93	38174802.08	0.0141	0.0104
Venus	99807-07-30 20:38 G	38175028.27	38175028.36	38175028.47	0.0141	0.0125
Mars	99811-11-13 16:33 G	38176594.91	38176595.19	38176595.51	0.0140	0.0045
Mercury	99823-03-15 15:21 G	38180735.06	38180735.14	38180735.24	0.0136	0.0120
Mercury	99823-06-11 23:02 G	38180823.33	38180823.46	38180823.62	0.0136	0.0093
Mercury	99823-09-08 06:57 G	38180911.62	38180911.79	38180911.97	0.0136	0.0064
Mercury	99823-12-05 14:52 G	38180999.93	38181000.12	38181000.31	0.0136	0.0036
Mercury	99824-03-02 22:33 G	38181088.24	38181088.44	38181088.63	0.0136	0.0009
Mercury	99824-05-30 06:14 G	38181176.56	38181176.76	38181176.95	0.0136	0.0019
Mercury	99824-08-26 13:40 G	38181264.89	38181265.07	38181265.26	0.0136	0.0047
Mercury	99824-11-22 21:21 G	38181353.24	38181353.39	38181353.56	0.0136	0.0075
Mercury	99825-02-19 05:16 G	38181441.59	38181441.72	38181441.85	0.0136	0.0102
Mercury	99825-05-18 12:43 G	38181529.98	38181530.03	38181530.09	0.0136	0.0130
Earth	99837-09-24 17:59 G	38186042.02	38186042.25	38186042.48	0.0135	0.0053
Moon	99837-09-24 18:28 G	38186042.05	38186042.27	38186042.50	0.0135	0.0052 *
Moon	99838-09-28 23:45 G	38186411.24	38186411.49	38186411.75	0.0135	0.0027
Earth	99838-09-29 00:14 G	38186411.27	38186411.51	38186411.76	0.0135	0.0031 *
Earth	99839-10-03 06:28 G	38186780.66	38186780.77	38186780.92	0.0135	0.0115
Moon	99839-10-03 06:43 G	38186780.70	38186780.78	38186780.90	0.0135	0.0122 *
Venus	99842-11-20 21:07 G	38187925.37	38187925.38	38187925.40	0.0135	0.0135
Venus	99843-07-05 02:09 G	38188151.50	38188151.59	38188151.72	0.0135	0.0117

Venus	99844-02-16 07:40 G	38188377.68	38188377.82	38188377.98	0.0135	0.0098
Venus	99844-09-29 13:11 G	38188603.88	38188604.05	38188604.23	0.0136	0.0079
Venus	99845-05-13 18:43 G	38188830.09	38188830.28	38188830.48	0.0136	0.0060
Venus	99845-12-26 00:14 G	38189056.31	38189056.51	38189056.72	0.0136	0.0041
Venus	99846-08-09 06:14 G	38189282.55	38189282.76	38189282.97	0.0136	0.0021
Venus	99847-03-23 11:59 G	38189508.79	38189509.00	38189509.22	0.0136	0.0004
Venus	99847-11-04 17:59 G	38189735.04	38189735.25	38189735.47	0.0136	0.0018
Venus	99848-06-17 23:59 G	38189961.30	38189961.50	38189961.71	0.0136	0.0038
Venus	99849-01-30 05:59 G	38190187.57	38190187.75	38190187.96	0.0137	0.0058
Venus	99849-09-13 12:28 G	38190413.86	38190414.02	38190414.21	0.0137	0.0078
Venus	99850-04-27 19:11 G	38190640.15	38190640.30	38190640.45	0.0137	0.0097
Venus	99850-12-10 01:40 G	38190866.47	38190866.57	38190866.69	0.0137	0.0117
Venus	99851-07-24 08:23 G	38191092.85	38191092.85	38191092.88	0.0137	0.0137
Mars	99855-12-13 01:55 G	38192695.30	38192695.58	38192695.89	0.0139	0.0037
Mercury	99865-12-14 13:40 G	38196350.02	38196350.07	38196350.13	0.0142	0.0128
Mercury	99866-03-12 17:16 G	38196438.14	38196438.22	38196438.30	0.0142	0.0107
Mercury	99866-06-08 20:38 G	38196526.26	38196526.36	38196526.46	0.0142	0.0086
Mercury	99866-09-04 23:59 G	38196614.39	38196614.50	38196614.62	0.0142	0.0065
Mercury	99866-12-02 03:21 G	38196702.52	38196702.64	38196702.77	0.0142	0.0044
Mercury	99867-02-28 06:57 G	38196790.66	38196790.79	38196790.92	0.0142	0.0023
Mercury	99867-05-27 10:19 G	38196878.80	38196878.93	38196879.06	0.0142	0.0002
Mercury	99867-08-23 13:40 G	38196966.94	38196967.07	38196967.20	0.0142	0.0019
Mercury	99867-11-19 17:02 G	38197055.09	38197055.21	38197055.34	0.0142	0.0041
Mercury	99868-02-15 20:23 G	38197143.24	38197143.35	38197143.47	0.0142	0.0062
Mercury	99868-05-13 23:45 G	38197231.39	38197231.49	38197231.61	0.0142	0.0084
Mercury	99868-08-10 03:21 G	38197319.56	38197319.64	38197319.73	0.0142	0.0104
Mercury	99868-11-06 06:43 G	38197407.73	38197407.78	38197407.85	0.0142	0.0126
Moon	99879-03-24 18:28 G	38201198.08	38201198.27	38201198.49	0.0143	0.0081
Earth	99879-03-24 21:50 G	38201198.22	38201198.41	38201198.64	0.0143	0.0083 *
Earth	99880-03-28 23:45 G	38201568.24	38201568.49	38201568.75	0.0143	0.0023

Moon	99880-03-29 03:07 G	38201568.39	38201568.63	38201568.89	0.0143	0.0028 *
Moon	99881-04-02 21:21 G	38201938.27	38201938.39	38201938.55	0.0143	0.0119
Earth	99881-04-03 01:11 G	38201938.45	38201938.55	38201938.69	0.0143	0.0127 *
Venus	99884-06-02 21:50 G	38203095.35	38203095.41	38203095.50	0.0143	0.0133
Venus	99885-01-15 10:33 G	38203321.80	38203321.94	38203322.08	0.0143	0.0110
Venus	99885-08-29 22:19 G	38203548.27	38203548.43	38203548.62	0.0142	0.0088
Venus	99886-04-13 10:33 G	38203774.75	38203774.94	38203775.15	0.0142	0.0064
Venus	99886-11-25 22:19 G	38204001.23	38204001.43	38204001.65	0.0142	0.0041
Venus	99887-07-10 10:19 G	38204227.71	38204227.93	38204228.15	0.0142	0.0018
Venus	99888-02-21 22:04 G	38204454.20	38204454.42	38204454.64	0.0142	0.0006
Venus	99888-10-05 09:21 G	38204680.67	38204680.89	38204681.11	0.0142	0.0028
Venus	99889-05-19 20:23 G	38204907.15	38204907.35	38204907.56	0.0142	0.0051
Venus	99890-01-01 06:57 G	38205133.62	38205133.79	38205134.00	0.0141	0.0074
Venus	99890-08-15 17:45 G	38205360.10	38205360.24	38205360.42	0.0141	0.0096
Venus	99891-03-30 04:33 G	38205586.58	38205586.69	38205586.83	0.0141	0.0117
Venus	99891-11-11 14:52 G	38205813.10	38205813.12	38205813.18	0.0141	0.0138
Mars	99896-07-09 04:47 G	38207514.45	38207514.70	38207514.96	0.0139	0.0083
Mercury	99907-04-05 22:47 G	38211436.35	38211436.45	38211436.57	0.0136	0.0112
Mercury	99907-07-03 06:28 G	38211524.63	38211524.77	38211524.94	0.0136	0.0085
Mercury	99907-09-29 14:23 G	38211612.93	38211613.10	38211613.28	0.0136	0.0056
Mercury	99907-12-26 22:04 G	38211701.23	38211701.42	38211701.62	0.0136	0.0029
Mercury	99908-03-24 05:59 G	38211789.55	38211789.75	38211789.94	0.0136	0.0003
Mercury	99908-06-20 13:40 G	38211877.87	38211878.07	38211878.26	0.0136	0.0027
Mercury	99908-09-16 21:07 G	38211966.21	38211966.38	38211966.57	0.0136	0.0055
Mercury	99908-12-14 04:33 G	38212054.55	38212054.69	38212054.86	0.0136	0.0083
Mercury	99909-03-12 12:28 G	38212142.91	38212143.02	38212143.14	0.0136	0.0110
Earth	99920-09-21 20:38 G	38216354.34	38216354.36	38216354.41	0.0135	0.0133
Earth	99921-09-26 03:07 G	38216723.41	38216723.63	38216723.87	0.0135	0.0049
Moon	99921-09-26 04:04 G	38216723.46	38216723.67	38216723.91	0.0135	0.0051 *
Moon	99922-09-30 08:23 G	38217092.61	38217092.85	38217093.11	0.0135	0.0039

Earth	99922-09-30 09:35 G	38217092.67	38217092.90	38217093.15	0.0135	0.0035 *
Earth	99923-10-04 15:50 G	38217462.07	38217462.16	38217462.30	0.0135	0.0119
Moon	99923-10-04 17:16 G	38217462.11	38217462.22	38217462.37	0.0135	0.0114 *
Venus	99927-03-05 11:31 G	38218709.91	38218709.98	38218710.08	0.0135	0.0124
Venus	99927-10-17 16:47 G	38218936.08	38218936.20	38218936.35	0.0135	0.0105
Venus	99928-05-30 22:04 G	38219162.27	38219162.42	38219162.60	0.0135	0.0087
Venus	99929-01-12 03:35 G	38219388.47	38219388.65	38219388.84	0.0136	0.0068
Venus	99929-08-26 09:07 G	38219614.69	38219614.88	38219615.09	0.0136	0.0049
Venus	99930-04-09 14:52 G	38219840.91	38219841.12	38219841.33	0.0136	0.0029
Venus	99930-11-21 20:38 G	38220067.15	38220067.36	38220067.57	0.0136	0.0010
Venus	99931-07-06 02:23 G	38220293.39	38220293.60	38220293.82	0.0136	0.0010
Venus	99932-02-17 08:23 G	38220519.64	38220519.85	38220520.06	0.0136	0.0029
Venus	99932-09-30 14:23 G	38220745.91	38220746.10	38220746.31	0.0136	0.0049
Venus	99933-05-14 20:38 G	38220972.18	38220972.36	38220972.55	0.0137	0.0069
Venus	99933-12-27 02:52 G	38221198.47	38221198.62	38221198.79	0.0137	0.0089
Venus	99934-08-10 09:21 G	38221424.78	38221424.89	38221425.04	0.0137	0.0109
Venus	99935-03-24 16:19 G	38221651.12	38221651.18	38221651.26	0.0137	0.0128
Mercury	99950-01-04 20:38 G	38227051.30	38227051.36	38227051.42	0.0142	0.0125
Mercury	99950-04-02 23:59 G	38227139.42	38227139.50	38227139.59	0.0142	0.0104
Mercury	99950-06-30 03:21 G	38227227.54	38227227.64	38227227.75	0.0142	0.0083
Mercury	99950-09-26 06:57 G	38227315.67	38227315.79	38227315.91	0.0142	0.0062
Mercury	99950-12-23 10:19 G	38227403.81	38227403.93	38227404.06	0.0142	0.0041
Mercury	99951-03-21 13:40 G	38227491.94	38227492.07	38227492.20	0.0142	0.0020
Mercury	99951-06-17 17:16 G	38227580.08	38227580.22	38227580.35	0.0142	0.0005
Mercury	99951-09-13 20:38 G	38227668.23	38227668.36	38227668.49	0.0142	0.0023
Mercury	99951-12-10 23:59 G	38227756.38	38227756.50	38227756.62	0.0142	0.0044
Mercury	99952-03-08 03:21 G	38227844.53	38227844.64	38227844.76	0.0142	0.0065
Mercury	99952-06-04 06:43 G	38227932.68	38227932.78	38227932.89	0.0142	0.0086
Mercury	99952-08-31 10:04 G	38228020.85	38228020.92	38228021.01	0.0142	0.0108
Mercury	99952-11-27 13:40 G	38228109.02	38228109.07	38228109.13	0.0142	0.0129

Moon	99963-03-26 02:52 G	38231879.42	38231879.62	38231879.84	0.0143	0.0079
Earth	99963-03-26 06:14 G	38231879.55	38231879.76	38231879.98	0.0143	0.0079 *
Earth	99964-03-30 08:09 G	38232249.59	38232249.84	38232250.10	0.0143	0.0026
Moon	99964-03-30 11:45 G	38232249.74	38232249.99	38232250.25	0.0143	0.0023 *
Moon	99965-04-04 06:28 G	38232619.71	38232619.77	38232619.84	0.0143	0.0137
Earth	99965-04-04 09:35 G	38232619.82	38232619.90	38232620.02	0.0143	0.0131 *
Venus	99968-02-02 03:07 G	38233653.62	38233653.63	38233653.66	0.0143	0.0142
Venus	99968-09-15 15:21 G	38233880.04	38233880.14	38233880.28	0.0143	0.0120
Venus	99969-04-30 03:50 G	38234106.51	38234106.66	38234106.83	0.0143	0.0097
Venus	99969-12-12 16:04 G	38234332.99	38234333.17	38234333.36	0.0142	0.0073
Venus	99970-07-27 04:04 G	38234559.47	38234559.67	38234559.88	0.0142	0.0050
Venus	99971-03-10 16:04 G	38234785.96	38234786.17	38234786.39	0.0142	0.0027
Venus	99971-10-23 03:50 G	38235012.44	38235012.66	38235012.88	0.0142	0.0004
Venus	99972-06-05 15:07 G	38235238.92	38235239.13	38235239.35	0.0142	0.0019
Venus	99973-01-18 02:23 G	38235465.39	38235465.60	38235465.82	0.0142	0.0042
Venus	99973-09-01 13:26 G	38235691.87	38235692.06	38235692.26	0.0142	0.0064
Venus	99974-04-16 00:14 G	38235918.35	38235918.51	38235918.70	0.0141	0.0087
Venus	99974-11-28 10:47 G	38236144.83	38236144.95	38236145.11	0.0141	0.0109
Venus	99975-07-12 21:35 G	38236371.33	38236371.40	38236371.50	0.0141	0.0129
Mars	99979-04-02 05:02 G	38237730.55	38237730.71	38237730.92	0.0140	0.0113
Mercury	99991-01-27 22:19 G	38242049.40	38242049.43	38242049.49	0.0136	0.0133
Mercury	99991-04-26 06:14 G	38242137.64	38242137.76	38242137.89	0.0136	0.0104
Mercury	99991-07-23 13:55 G	38242225.93	38242226.08	38242226.25	0.0136	0.0077
Mercury	99991-10-19 21:35 G	38242314.23	38242314.40	38242314.59	0.0136	0.0049
Mercury	99992-01-16 05:31 G	38242402.54	38242402.73	38242402.92	0.0136	0.0021
Mercury	99992-04-13 13:11 G	38242490.85	38242491.05	38242491.25	0.0136	0.0007
Mercury	99992-07-10 20:52 G	38242579.18	38242579.37	38242579.56	0.0136	0.0035
Mercury	99992-10-07 04:19 G	38242667.52	38242667.68	38242667.87	0.0136	0.0063
Mercury	99993-01-03 12:14 G	38242755.87	38242756.01	38242756.16	0.0136	0.0090
Mercury	99993-04-01 19:40 G	38242844.24	38242844.32	38242844.43	0.0136	0.0118

101ST MILLENNIUM CE

This is a list of transits visible from Uranus in the 101st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	100004-09-22 05:31	G	38247035.65	38247035.73	38247035.83	0.0135	0.0125	
Earth	100004-09-22 07:26	G	38247035.74	38247035.81	38247035.89	0.0135	0.0128	*
Earth	100005-09-26 13:40	G	38247404.85	38247405.07	38247405.32	0.0135	0.0045	
Moon	100005-09-26 15:50	G	38247404.94	38247405.16	38247405.40	0.0135	0.0045	*
Moon	100006-09-30 18:14	G	38247774.02	38247774.26	38247774.52	0.0135	0.0038	
Earth	100006-09-30 20:23	G	38247774.11	38247774.35	38247774.59	0.0135	0.0040	*
Earth	100007-10-05 02:38	G	38248143.53	38248143.61	38248143.73	0.0135	0.0124	
Moon	100007-10-05 04:33	G	38248143.64	38248143.69	38248143.76	0.0135	0.0130	*
Venus	100010-11-02 22:04	G	38249268.37	38249268.42	38249268.48	0.0135	0.0130	
Venus	100011-06-17 03:07	G	38249494.52	38249494.63	38249494.76	0.0135	0.0111	
Venus	100012-01-29 08:09	G	38249720.70	38249720.84	38249721.01	0.0135	0.0093	
Venus	100012-09-11 13:26	G	38249946.90	38249947.06	38249947.25	0.0135	0.0075	
Venus	100013-04-25 18:57	G	38250173.10	38250173.29	38250173.49	0.0136	0.0056	
Venus	100013-12-08 00:28	G	38250399.32	38250399.52	38250399.73	0.0136	0.0037	
Venus	100014-07-22 06:14	G	38250625.55	38250625.76	38250625.97	0.0136	0.0017	
Venus	100015-03-05 11:59	G	38250851.78	38250852.00	38250852.21	0.0136	0.0002	
Venus	100015-10-17 17:45	G	38251078.03	38251078.24	38251078.45	0.0136	0.0022	
Venus	100016-05-30 23:45	G	38251304.28	38251304.49	38251304.69	0.0136	0.0041	

Venus	100017-01-12 05:31 G	38251530.55	38251530.73	38251530.94	0.0136	0.0062
Venus	100017-08-26 11:59 G	38251756.84	38251757.00	38251757.18	0.0137	0.0081
Venus	100018-04-09 18:14 G	38251983.13	38251983.26	38251983.42	0.0137	0.0101
Venus	100018-11-22 00:57 G	38252209.45	38252209.54	38252209.66	0.0137	0.0120
Mars	100023-05-02 00:28 G	38253831.23	38253831.52	38253831.81	0.0138	0.0033
Mercury	100034-01-25 03:21 G	38257752.59	38257752.64	38257752.72	0.0142	0.0122
Mercury	100034-04-23 06:57 G	38257840.70	38257840.79	38257840.89	0.0142	0.0101
Mercury	100034-07-20 10:19 G	38257928.83	38257928.93	38257929.04	0.0142	0.0080
Mercury	100034-10-16 13:55 G	38258016.96	38258017.08	38258017.20	0.0142	0.0059
Mercury	100035-01-12 17:16 G	38258105.09	38258105.22	38258105.35	0.0142	0.0038
Mercury	100035-04-10 20:38 G	38258193.23	38258193.36	38258193.49	0.0142	0.0017
Mercury	100035-07-07 23:59 G	38258281.37	38258281.50	38258281.64	0.0142	0.0007
Mercury	100035-10-04 03:35 G	38258369.52	38258369.65	38258369.78	0.0142	0.0026
Mercury	100035-12-31 06:57 G	38258457.67	38258457.79	38258457.91	0.0142	0.0047
Mercury	100036-03-28 10:19 G	38258545.82	38258545.93	38258546.05	0.0142	0.0068
Mercury	100036-06-24 13:40 G	38258633.97	38258634.07	38258634.18	0.0142	0.0089
Mercury	100036-09-20 17:16 G	38258722.14	38258722.22	38258722.30	0.0142	0.0110
Mercury	100036-12-17 20:38 G	38258810.32	38258810.36	38258810.41	0.0142	0.0132
Moon	100047-03-26 10:33 G	38262560.73	38262560.94	38262561.16	0.0143	0.0074
Earth	100047-03-26 12:57 G	38262560.84	38262561.04	38262561.27	0.0143	0.0077 *
Earth	100048-03-30 15:07 G	38262930.88	38262931.13	38262931.38	0.0143	0.0029
Moon	100048-03-30 17:59 G	38262931.00	38262931.25	38262931.51	0.0143	0.0032 *
Moon	100049-04-04 12:57 G	38263300.95	38263301.04	38263301.18	0.0143	0.0128
Earth	100049-04-04 17:02 G	38263301.13	38263301.21	38263301.31	0.0143	0.0134 *
Venus	100052-05-15 19:40 G	38264438.24	38264438.32	38264438.42	0.0143	0.0129
Venus	100052-12-28 08:23 G	38264664.70	38264664.85	38264664.99	0.0143	0.0106
Venus	100053-08-11 20:23 G	38264891.18	38264891.35	38264891.54	0.0143	0.0083
Venus	100054-03-26 08:23 G	38265117.66	38265117.85	38265118.06	0.0142	0.0061
Venus	100054-11-07 20:23 G	38265344.15	38265344.35	38265344.57	0.0142	0.0038
Venus	100055-06-22 08:23 G	38265570.63	38265570.85	38265571.07	0.0142	0.0014

Venus	100056-02-03 19:55 G	38265797.11	38265797.33	38265797.56	0.0142	0.0009
Venus	100056-09-17 07:11 G	38266023.60	38266023.80	38266024.03	0.0142	0.0032
Venus	100057-05-01 18:28 G	38266250.07	38266250.27	38266250.48	0.0142	0.0054
Venus	100057-12-14 05:16 G	38266476.55	38266476.72	38266476.92	0.0142	0.0077
Venus	100058-07-28 16:19 G	38266703.03	38266703.18	38266703.35	0.0141	0.0098
Venus	100059-03-12 03:07 G	38266929.53	38266929.63	38266929.76	0.0141	0.0120
Venus	100059-10-24 13:55 G	38267156.08	38267156.08	38267156.09	0.0141	0.0141
Mars	100063-11-26 12:14 G	38268649.70	38268650.01	38268650.33	0.0140	0.0011
Mercury	100075-02-17 05:16 G	38272750.66	38272750.72	38272750.80	0.0136	0.0127
Mercury	100075-05-16 13:11 G	38272838.91	38272839.05	38272839.18	0.0136	0.0099
Mercury	100075-08-12 20:38 G	38272927.20	38272927.36	38272927.54	0.0136	0.0071
Mercury	100075-11-09 04:33 G	38273015.51	38273015.69	38273015.88	0.0136	0.0043
Mercury	100076-02-05 12:14 G	38273103.82	38273104.01	38273104.21	0.0136	0.0015
Mercury	100076-05-03 19:55 G	38273192.14	38273192.33	38273192.53	0.0136	0.0013
Mercury	100076-07-31 03:35 G	38273280.47	38273280.65	38273280.84	0.0136	0.0041
Mercury	100076-10-27 11:02 G	38273368.81	38273368.96	38273369.14	0.0136	0.0069
Mercury	100077-01-23 18:57 G	38273457.16	38273457.29	38273457.43	0.0136	0.0096
Mercury	100077-04-22 02:23 G	38273545.54	38273545.60	38273545.69	0.0136	0.0124
Moon	100088-09-22 13:40 G	38277717.02	38277717.07	38277717.17	0.0135	0.0129
Earth	100088-09-22 16:47 G	38277717.12	38277717.20	38277717.32	0.0135	0.0124 *
Earth	100089-09-26 23:31 G	38278086.24	38278086.48	38278086.72	0.0135	0.0040
Moon	100089-09-27 01:55 G	38278086.35	38278086.58	38278086.82	0.0135	0.0039 *
Moon	100090-10-01 03:21 G	38278455.41	38278455.64	38278455.89	0.0135	0.0047
Earth	100090-10-01 05:59 G	38278455.52	38278455.75	38278456.00	0.0135	0.0045 *
Earth	100091-10-05 12:28 G	38278824.97	38278825.02	38278825.11	0.0135	0.0129
Moon	100091-10-05 15:07 G	38278825.05	38278825.13	38278825.23	0.0135	0.0125 *
Venus	100095-02-14 12:57 G	38280052.94	38280053.04	38280053.14	0.0135	0.0119
Venus	100095-09-28 17:45 G	38280279.11	38280279.24	38280279.40	0.0135	0.0101
Venus	100096-05-11 23:16 G	38280505.30	38280505.47	38280505.64	0.0135	0.0082
Venus	100096-12-24 04:19 G	38280731.50	38280731.68	38280731.88	0.0136	0.0063

Venus	100097-08-07 10:04 G	38280957.72	38280957.92	38280958.12	0.0136	0.0044
Venus	100098-03-21 15:35 G	38281183.94	38281184.15	38281184.36	0.0136	0.0025
Venus	100098-11-02 21:07 G	38281410.17	38281410.38	38281410.60	0.0136	0.0006
Venus	100099-06-17 02:52 G	38281636.40	38281636.62	38281636.83	0.0136	0.0014
Venus	100100-01-29 08:38 G	38281862.65	38281862.86	38281863.07	0.0136	0.0033
Venus	100100-09-12 14:38 G	38282088.92	38282089.11	38282089.32	0.0136	0.0053
Venus	100101-04-26 20:52 G	38282315.20	38282315.37	38282315.56	0.0136	0.0073
Venus	100101-12-09 03:21 G	38282541.48	38282541.64	38282541.80	0.0137	0.0092
Venus	100102-07-23 09:35 G	38282767.79	38282767.90	38282768.04	0.0137	0.0112
Venus	100103-03-06 16:19 G	38282994.14	38282994.18	38282994.25	0.0137	0.0131
Mars	100107-12-26 18:28 G	38284750.04	38284750.27	38284750.52	0.0138	0.0082
Mercury	100117-11-19 07:26 G	38288365.78	38288365.81	38288365.83	0.0142	0.0138
Mercury	100118-02-15 10:33 G	38288453.88	38288453.94	38288454.02	0.0142	0.0118
Mercury	100118-05-14 13:55 G	38288542.00	38288542.08	38288542.19	0.0142	0.0097
Mercury	100118-08-10 17:31 G	38288630.12	38288630.23	38288630.34	0.0142	0.0075
Mercury	100118-11-06 20:52 G	38288718.26	38288718.37	38288718.50	0.0142	0.0055
Mercury	100119-02-03 00:28 G	38288806.39	38288806.52	38288806.65	0.0142	0.0033
Mercury	100119-05-02 03:50 G	38288894.53	38288894.66	38288894.79	0.0142	0.0012
Mercury	100119-07-29 07:11 G	38288982.67	38288982.80	38288982.93	0.0142	0.0009
Mercury	100119-10-25 10:33 G	38289070.82	38289070.94	38289071.07	0.0142	0.0030
Mercury	100120-01-21 14:09 G	38289158.97	38289159.09	38289159.21	0.0142	0.0051
Mercury	100120-04-18 17:31 G	38289247.12	38289247.23	38289247.34	0.0142	0.0072
Mercury	100120-07-15 20:52 G	38289335.28	38289335.37	38289335.47	0.0142	0.0093
Mercury	100120-10-12 00:14 G	38289423.44	38289423.51	38289423.59	0.0142	0.0115
Mercury	100121-01-08 03:50 G	38289511.62	38289511.66	38289511.69	0.0142	0.0136
Moon	100131-03-27 19:40 G	38293242.11	38293242.32	38293242.53	0.0143	0.0075
Earth	100131-03-27 21:50 G	38293242.19	38293242.41	38293242.63	0.0143	0.0072 *
Earth	100132-03-31 23:31 G	38293612.24	38293612.48	38293612.74	0.0143	0.0034
Moon	100132-04-01 02:23 G	38293612.35	38293612.60	38293612.86	0.0143	0.0032 *
Earth	100133-04-06 01:11 G	38293982.51	38293982.55	38293982.64	0.0143	0.0139

Venus	100136-01-15 00:28 G	38294996.49	38294996.52	38294996.59	0.0143	0.0139
Venus	100136-08-28 13:11 G	38295222.93	38295223.05	38295223.18	0.0143	0.0116
Venus	100137-04-12 01:40 G	38295449.40	38295449.57	38295449.73	0.0143	0.0093
Venus	100137-11-24 13:26 G	38295675.88	38295676.06	38295676.26	0.0143	0.0071
Venus	100138-07-09 01:26 G	38295902.36	38295902.56	38295902.78	0.0142	0.0048
Venus	100139-02-20 13:40 G	38296128.85	38296129.07	38296129.29	0.0142	0.0024
Venus	100139-10-05 01:26 G	38296355.34	38296355.56	38296355.78	0.0142	0.0002
Venus	100140-05-18 12:43 G	38296581.82	38296582.03	38296582.25	0.0142	0.0022
Venus	100140-12-30 23:59 G	38296808.30	38296808.50	38296808.72	0.0142	0.0044
Venus	100141-08-14 11:02 G	38297034.78	38297034.96	38297035.17	0.0142	0.0067
Venus	100142-03-28 22:19 G	38297261.27	38297261.43	38297261.61	0.0141	0.0089
Venus	100142-11-10 09:07 G	38297487.76	38297487.88	38297488.03	0.0141	0.0111
Venus	100143-06-24 19:55 G	38297714.26	38297714.33	38297714.41	0.0141	0.0132
Mars	100148-07-22 19:55 G	38299569.26	38299569.33	38299569.43	0.0139	0.0134
Mercury	100159-03-10 12:14 G	38303451.92	38303452.01	38303452.10	0.0136	0.0121
Mercury	100159-06-06 19:40 G	38303540.19	38303540.32	38303540.47	0.0136	0.0093
Mercury	100159-09-03 03:21 G	38303628.48	38303628.64	38303628.83	0.0136	0.0066
Mercury	100159-11-30 11:16 G	38303716.79	38303716.97	38303717.16	0.0136	0.0037
Mercury	100160-02-26 19:11 G	38303805.10	38303805.30	38303805.49	0.0136	0.0009
Mercury	100160-05-25 02:52 G	38303893.42	38303893.62	38303893.81	0.0136	0.0019
Mercury	100160-08-21 10:19 G	38303981.76	38303981.93	38303982.12	0.0136	0.0047
Mercury	100160-11-17 18:14 G	38304070.10	38304070.26	38304070.42	0.0136	0.0074
Mercury	100161-02-14 01:40 G	38304158.45	38304158.57	38304158.71	0.0136	0.0102
Mercury	100161-05-13 09:21 G	38304246.85	38304246.89	38304246.96	0.0136	0.0130
Moon	100172-09-24 00:14 G	38308398.39	38308398.51	38308398.66	0.0135	0.0114
Earth	100172-09-24 03:07 G	38308398.53	38308398.63	38308398.77	0.0135	0.0119 *
Earth	100173-09-28 09:50 G	38308767.68	38308767.91	38308768.16	0.0135	0.0035
Moon	100173-09-28 13:11 G	38308767.82	38308768.05	38308768.29	0.0135	0.0037 *
Moon	100174-10-02 13:26 G	38309136.84	38309137.06	38309137.31	0.0135	0.0050
Earth	100174-10-02 16:47 G	38309136.97	38309137.20	38309137.43	0.0135	0.0050 *

Earth	100175-10-06 23:02 G	38309506.46	38309506.46	38309506.49	0.0135	0.0135
Venus	100178-10-15 23:02 G	38310611.40	38310611.46	38310611.55	0.0135	0.0126
Venus	100179-05-30 04:04 G	38310837.55	38310837.67	38310837.81	0.0135	0.0108
Venus	100180-01-11 09:07 G	38311063.74	38311063.88	38311064.06	0.0135	0.0090
Venus	100180-08-24 14:38 G	38311289.94	38311290.11	38311290.30	0.0136	0.0071
Venus	100181-04-07 19:55 G	38311516.14	38311516.33	38311516.54	0.0136	0.0052
Venus	100181-11-20 01:26 G	38311742.36	38311742.56	38311742.78	0.0136	0.0033
Venus	100182-07-04 07:11 G	38311968.59	38311968.80	38311969.01	0.0136	0.0013
Venus	100183-02-15 12:57 G	38312194.82	38312195.04	38312195.25	0.0136	0.0006
Venus	100183-09-29 18:43 G	38312421.07	38312421.28	38312421.49	0.0136	0.0026
Venus	100184-05-13 00:28 G	38312647.33	38312647.52	38312647.73	0.0136	0.0046
Venus	100184-12-25 06:43 G	38312873.60	38312873.78	38312873.98	0.0136	0.0065
Venus	100185-08-08 12:57 G	38313099.88	38313100.04	38313100.22	0.0137	0.0085
Venus	100186-03-22 19:26 G	38313326.18	38313326.31	38313326.46	0.0137	0.0104
Venus	100186-11-04 02:09 G	38313552.51	38313552.59	38313552.69	0.0137	0.0123
Mars	100190-09-19 06:28 G	38314967.56	38314967.77	38314968.00	0.0138	0.0094
Mercury	100201-12-10 14:52 G	38319067.07	38319067.12	38319067.16	0.0142	0.0132
Mercury	100202-03-08 18:14 G	38319155.18	38319155.26	38319155.34	0.0142	0.0111
Mercury	100202-06-04 21:35 G	38319243.30	38319243.40	38319243.50	0.0142	0.0090
Mercury	100202-09-01 00:57 G	38319331.43	38319331.54	38319331.66	0.0142	0.0069
Mercury	100202-11-28 04:33 G	38319419.56	38319419.69	38319419.81	0.0142	0.0048
Mercury	100203-02-24 07:55 G	38319507.70	38319507.83	38319507.96	0.0142	0.0027
Mercury	100203-05-23 11:16 G	38319595.84	38319595.97	38319596.10	0.0142	0.0007
Mercury	100203-08-19 14:38 G	38319683.99	38319684.11	38319684.25	0.0142	0.0016
Mercury	100203-11-15 18:14 G	38319772.13	38319772.26	38319772.38	0.0142	0.0036
Mercury	100204-02-11 21:35 G	38319860.28	38319860.40	38319860.52	0.0142	0.0057
Mercury	100204-05-10 00:57 G	38319948.43	38319948.54	38319948.65	0.0142	0.0078
Mercury	100204-08-06 04:19 G	38320036.59	38320036.68	38320036.78	0.0142	0.0100
Mercury	100204-11-02 07:55 G	38320124.76	38320124.83	38320124.90	0.0142	0.0121
Mercury	100205-01-29 11:16 G	38320212.97	38320212.97	38320212.98	0.0142	0.0142

Moon	100215-03-29 07:40 G	38323923.60	38323923.82	38323924.05	0.0143	0.0061
Earth	100215-03-29 08:52 G	38323923.65	38323923.87	38323924.11	0.0143	0.0066 *
Earth	100216-04-02 10:47 G	38324293.71	38324293.95	38324294.20	0.0143	0.0040
Moon	100216-04-02 12:43 G	38324293.79	38324294.03	38324294.30	0.0143	0.0041 *
Moon	100217-04-07 09:50 G	38324663.88	38324663.91	38324663.98	0.0143	0.0140
Venus	100220-04-28 19:26 G	38325781.22	38325781.31	38325781.43	0.0143	0.0125
Venus	100220-12-11 07:55 G	38326007.68	38326007.83	38326007.99	0.0143	0.0102
Venus	100221-07-25 19:55 G	38326234.16	38326234.33	38326234.52	0.0143	0.0080
Venus	100222-03-09 08:09 G	38326460.64	38326460.84	38326461.05	0.0143	0.0057
Venus	100222-10-21 20:09 G	38326687.13	38326687.34	38326687.56	0.0142	0.0034
Venus	100223-06-05 07:55 G	38326913.61	38326913.83	38326914.05	0.0142	0.0011
Venus	100224-01-17 19:26 G	38327140.09	38327140.31	38327140.53	0.0142	0.0012
Venus	100224-08-31 06:57 G	38327366.58	38327366.79	38327367.01	0.0142	0.0035
Venus	100225-04-14 17:59 G	38327593.06	38327593.25	38327593.46	0.0142	0.0058
Venus	100225-11-27 05:02 G	38327819.54	38327819.71	38327819.91	0.0142	0.0080
Venus	100226-07-11 16:04 G	38328046.03	38328046.17	38328046.34	0.0141	0.0102
Venus	100227-02-23 03:07 G	38328272.53	38328272.63	38328272.74	0.0141	0.0123
Mars	100231-04-15 18:43 G	38329785.01	38329785.28	38329785.58	0.0140	0.0062
Mercury	100243-03-31 18:57 G	38334153.20	38334153.29	38334153.41	0.0136	0.0114
Mercury	100243-06-28 02:52 G	38334241.48	38334241.62	38334241.78	0.0136	0.0086
Mercury	100243-09-24 10:33 G	38334329.77	38334329.94	38334330.13	0.0136	0.0058
Mercury	100243-12-21 18:28 G	38334418.08	38334418.27	38334418.46	0.0136	0.0030
Mercury	100244-03-19 02:09 G	38334506.40	38334506.59	38334506.79	0.0136	0.0003
Mercury	100244-06-15 09:50 G	38334594.72	38334594.91	38334595.11	0.0136	0.0026
Mercury	100244-09-11 17:31 G	38334683.05	38334683.23	38334683.41	0.0136	0.0053
Mercury	100244-12-09 01:11 G	38334771.40	38334771.55	38334771.71	0.0136	0.0081
Mercury	100245-03-07 08:38 G	38334859.76	38334859.86	38334859.99	0.0136	0.0109
Moon	100256-09-25 10:04 G	38339079.81	38339079.92	38339080.04	0.0135	0.0120
Earth	100256-09-25 13:26 G	38339079.94	38339080.06	38339080.21	0.0135	0.0114 *
Earth	100257-09-29 20:09 G	38339449.10	38339449.34	38339449.59	0.0135	0.0030

Moon	100257-09-29 23:16 G	38339449.23	38339449.47	38339449.72	0.0135	0.0027 *
Moon	100258-10-03 23:16 G	38339818.25	38339818.47	38339818.71	0.0135	0.0056
Earth	100258-10-04 02:52 G	38339818.40	38339818.62	38339818.85	0.0135	0.0055 *
Venus	100262-06-16 08:52 G	38341169.85	38341169.87	38341169.93	0.0135	0.0133
Venus	100263-01-28 14:09 G	38341395.99	38341396.09	38341396.21	0.0135	0.0114
Venus	100263-09-11 19:11 G	38341622.16	38341622.30	38341622.46	0.0135	0.0096
Venus	100264-04-25 00:28 G	38341848.35	38341848.52	38341848.70	0.0135	0.0078
Venus	100264-12-07 05:45 G	38342074.55	38342074.74	38342074.94	0.0136	0.0059
Venus	100265-07-21 11:16 G	38342300.77	38342300.97	38342301.18	0.0136	0.0040
Venus	100266-03-04 16:47 G	38342526.99	38342527.20	38342527.41	0.0136	0.0021
Venus	100266-10-16 22:33 G	38342753.22	38342753.44	38342753.65	0.0136	0.0003
Venus	100267-05-31 04:04 G	38342979.46	38342979.67	38342979.89	0.0136	0.0018
Venus	100268-01-12 09:50 G	38343205.71	38343205.91	38343206.13	0.0136	0.0038
Venus	100268-08-25 16:04 G	38343431.98	38343432.17	38343432.38	0.0136	0.0057
Venus	100269-04-08 22:33 G	38343658.26	38343658.44	38343658.62	0.0137	0.0076
Venus	100269-11-21 04:33 G	38343884.55	38343884.69	38343884.86	0.0137	0.0096
Venus	100270-07-05 11:02 G	38344110.86	38344110.96	38344111.09	0.0137	0.0115
Venus	100271-02-16 17:59 G	38344337.22	38344337.25	38344337.30	0.0137	0.0134
Mars	100275-05-16 01:11 G	38345886.25	38345886.55	38345886.85	0.0138	0.0021
Mercury	100285-12-30 22:19 G	38349768.37	38349768.43	38349768.49	0.0142	0.0126
Mercury	100286-03-29 01:40 G	38349856.48	38349856.57	38349856.66	0.0142	0.0105
Mercury	100286-06-25 05:02 G	38349944.61	38349944.71	38349944.82	0.0142	0.0084
Mercury	100286-09-21 08:23 G	38350032.74	38350032.85	38350032.97	0.0142	0.0064
Mercury	100286-12-18 11:59 G	38350120.87	38350121.00	38350121.12	0.0142	0.0042
Mercury	100287-03-16 15:21 G	38350209.01	38350209.14	38350209.27	0.0142	0.0021
Mercury	100287-06-12 18:43 G	38350297.15	38350297.28	38350297.41	0.0142	0.0003
Mercury	100287-09-08 22:19 G	38350385.30	38350385.43	38350385.56	0.0142	0.0021
Mercury	100287-12-06 01:40 G	38350473.44	38350473.57	38350473.69	0.0142	0.0042
Mercury	100288-03-03 05:02 G	38350561.59	38350561.71	38350561.83	0.0142	0.0063
Mercury	100288-05-30 08:23 G	38350649.75	38350649.85	38350649.96	0.0142	0.0084

Mercury	100288-08-26 11:59 G	38350737.91	38350738.00	38350738.08	0.0142	0.0106
Mercury	100288-11-22 15:21 G	38350826.08	38350826.14	38350826.20	0.0142	0.0127
Moon	100299-03-29 21:21 G	38354605.17	38354605.39	38354605.61	0.0143	0.0062
Earth	100299-03-29 21:50 G	38354605.18	38354605.41	38354605.65	0.0143	0.0057 *
Earth	100300-04-03 23:59 G	38354975.26	38354975.50	38354975.75	0.0143	0.0048
Moon	100300-04-04 01:26 G	38354975.31	38354975.56	38354975.81	0.0143	0.0049 *
Venus	100303-12-29 03:07 G	38356339.57	38356339.63	38356339.73	0.0143	0.0133
Venus	100304-08-11 15:50 G	38356566.02	38356566.16	38356566.30	0.0143	0.0110
Venus	100305-03-26 03:50 G	38356792.50	38356792.66	38356792.85	0.0143	0.0088
Venus	100305-11-07 16:04 G	38357018.98	38357019.17	38357019.38	0.0143	0.0065
Venus	100306-06-22 04:19 G	38357245.47	38357245.68	38357245.89	0.0142	0.0042
Venus	100307-02-03 16:04 G	38357471.96	38357472.17	38357472.40	0.0142	0.0019
Venus	100307-09-18 03:50 G	38357698.44	38357698.66	38357698.88	0.0142	0.0005
Venus	100308-05-01 15:21 G	38357924.93	38357925.14	38357925.36	0.0142	0.0027
Venus	100308-12-14 02:38 G	38358151.41	38358151.61	38358151.82	0.0142	0.0049
Venus	100309-07-28 13:55 G	38358377.90	38358378.08	38358378.28	0.0142	0.0071
Venus	100310-03-12 01:11 G	38358604.39	38358604.55	38358604.72	0.0141	0.0093
Venus	100310-10-24 11:59 G	38358830.88	38358831.00	38358831.14	0.0141	0.0114
Venus	100311-06-07 22:47 G	38359057.40	38359057.45	38359057.51	0.0141	0.0135
Mars	100315-12-11 12:14 G	38360704.75	38360705.01	38360705.30	0.0140	0.0072
Mercury	100327-01-23 19:11 G	38364766.26	38364766.30	38364766.35	0.0136	0.0133
Mercury	100327-04-22 03:07 G	38364854.50	38364854.63	38364854.75	0.0136	0.0105
Mercury	100327-07-19 10:33 G	38364942.79	38364942.94	38364943.11	0.0136	0.0077
Mercury	100327-10-15 18:14 G	38365031.09	38365031.26	38365031.45	0.0136	0.0050
Mercury	100328-01-12 02:09 G	38365119.40	38365119.59	38365119.79	0.0136	0.0021
Mercury	100328-04-09 09:50 G	38365207.72	38365207.91	38365208.11	0.0136	0.0007
Mercury	100328-07-06 17:31 G	38365296.05	38365296.23	38365296.43	0.0136	0.0035
Mercury	100328-10-03 01:26 G	38365384.38	38365384.56	38365384.73	0.0136	0.0062
Mercury	100328-12-30 08:52 G	38365472.73	38365472.87	38365473.02	0.0136	0.0090
Mercury	100329-03-28 16:19 G	38365561.10	38365561.18	38365561.29	0.0136	0.0118

Moon	100340-09-26 21:21 G	38369761.25	38369761.39	38369761.57	0.0135	0.0103
Earth	100340-09-27 00:43 G	38369761.41	38369761.53	38369761.70	0.0135	0.0109 *
Earth	100341-10-01 07:40 G	38370130.58	38370130.82	38370131.07	0.0135	0.0024
Moon	100341-10-01 11:16 G	38370130.73	38370130.97	38370131.22	0.0135	0.0028 *
Moon	100342-10-05 10:33 G	38370499.73	38370499.94	38370500.18	0.0135	0.0063
Earth	100342-10-05 14:09 G	38370499.88	38370500.09	38370500.32	0.0135	0.0061 *
Venus	100346-09-29 00:57 G	38371954.45	38371954.54	38371954.64	0.0135	0.0120
Venus	100347-05-13 05:45 G	38372180.62	38372180.74	38372180.89	0.0135	0.0103
Venus	100347-12-25 10:47 G	38372406.80	38372406.95	38372407.13	0.0135	0.0085
Venus	100348-08-07 16:19 G	38372633.00	38372633.18	38372633.38	0.0136	0.0066
Venus	100349-03-21 21:50 G	38372859.21	38372859.41	38372859.61	0.0136	0.0047
Venus	100349-11-03 03:21 G	38373085.43	38373085.64	38373085.85	0.0136	0.0028
Venus	100350-06-17 08:52 G	38373311.65	38373311.87	38373312.08	0.0136	0.0009
Venus	100351-01-29 14:23 G	38373537.89	38373538.10	38373538.32	0.0136	0.0011
Venus	100351-09-12 20:23 G	38373764.14	38373764.35	38373764.56	0.0136	0.0030
Venus	100352-04-26 02:23 G	38373990.40	38373990.60	38373990.81	0.0136	0.0049
Venus	100352-12-08 08:23 G	38374216.68	38374216.85	38374217.05	0.0136	0.0069
Venus	100353-07-22 14:52 G	38374442.96	38374443.12	38374443.29	0.0137	0.0088
Venus	100354-03-05 21:21 G	38374669.26	38374669.39	38374669.53	0.0137	0.0107
Venus	100354-10-18 04:04 G	38374895.59	38374895.67	38374895.76	0.0137	0.0126
Jupiter	100367-04-08 09:21 G	38379450.51	38379450.89	38379451.34	0.0141	0.0083
Mercury	100369-10-25 02:09 G	38380381.59	38380381.59	38380381.62	0.0142	0.0141
Mercury	100370-01-21 05:45 G	38380469.68	38380469.74	38380469.81	0.0142	0.0120
Mercury	100370-04-19 09:07 G	38380557.79	38380557.88	38380557.98	0.0142	0.0099
Mercury	100370-07-16 12:28 G	38380645.92	38380646.02	38380646.14	0.0142	0.0078
Mercury	100370-10-12 16:04 G	38380734.05	38380734.17	38380734.29	0.0142	0.0057
Mercury	100371-01-08 19:26 G	38380822.19	38380822.31	38380822.44	0.0142	0.0036
Mercury	100371-04-06 22:47 G	38380910.32	38380910.45	38380910.58	0.0142	0.0015
Mercury	100371-07-04 02:23 G	38380998.47	38380998.60	38380998.73	0.0142	0.0008
Mercury	100371-09-30 05:45 G	38381086.61	38381086.74	38381086.87	0.0142	0.0028

Mercury	100371-12-27 09:07 G	38381174.76	38381174.88	38381175.00	0.0142	0.0049
Mercury	100372-03-24 12:28 G	38381262.91	38381263.02	38381263.14	0.0142	0.0070
Mercury	100372-06-20 15:50 G	38381351.07	38381351.16	38381351.27	0.0142	0.0091
Mercury	100372-09-16 19:11 G	38381439.23	38381439.30	38381439.39	0.0142	0.0113
Mercury	100372-12-13 22:47 G	38381527.41	38381527.45	38381527.50	0.0142	0.0133
Earth	100383-03-31 10:33 G	38385286.71	38385286.94	38385287.20	0.0143	0.0051
Moon	100383-03-31 11:16 G	38385286.73	38385286.97	38385287.21	0.0143	0.0044 *
Earth	100384-04-04 12:43 G	38385656.81	38385657.03	38385657.28	0.0143	0.0057
Moon	100384-04-04 13:11 G	38385656.81	38385657.05	38385657.31	0.0143	0.0055 *
Venus	100387-08-28 11:02 G	38386897.93	38386897.96	38386898.01	0.0143	0.0140
Venus	100388-04-10 23:16 G	38387124.36	38387124.47	38387124.61	0.0143	0.0118
Venus	100388-11-23 11:59 G	38387350.84	38387351.00	38387351.17	0.0143	0.0095
Venus	100389-07-07 23:59 G	38387577.32	38387577.50	38387577.70	0.0143	0.0073
Venus	100390-02-19 12:28 G	38387803.82	38387804.02	38387804.23	0.0143	0.0050
Venus	100390-10-04 00:28 G	38388030.31	38388030.52	38388030.74	0.0142	0.0027
Venus	100391-05-18 12:14 G	38388256.79	38388257.01	38388257.23	0.0142	0.0005
Venus	100391-12-30 23:45 G	38388483.28	38388483.49	38388483.72	0.0142	0.0020
Venus	100392-08-13 11:31 G	38388709.77	38388709.98	38388710.19	0.0142	0.0041
Venus	100393-03-27 22:47 G	38388936.26	38388936.45	38388936.66	0.0142	0.0064
Venus	100393-11-09 09:50 G	38389162.75	38389162.91	38389163.10	0.0142	0.0086
Venus	100394-06-23 21:07 G	38389389.24	38389389.38	38389389.53	0.0141	0.0107
Venus	100395-02-05 07:40 G	38389615.75	38389615.82	38389615.93	0.0141	0.0129
Mars	100398-09-02 13:11 G	38390920.92	38390921.05	38390921.22	0.0140	0.0123
Mercury	100411-02-13 03:07 G	38395467.56	38395467.63	38395467.73	0.0136	0.0122
Mercury	100411-05-12 11:02 G	38395555.82	38395555.96	38395556.10	0.0136	0.0094
Mercury	100411-08-08 18:28 G	38395644.11	38395644.27	38395644.46	0.0136	0.0067
Mercury	100411-11-05 02:23 G	38395732.42	38395732.60	38395732.79	0.0136	0.0039
Mercury	100412-02-01 10:19 G	38395820.73	38395820.93	38395821.12	0.0136	0.0011
Mercury	100412-04-29 17:59 G	38395909.05	38395909.25	38395909.44	0.0136	0.0017
Mercury	100412-07-27 01:26 G	38395997.38	38395997.56	38395997.75	0.0136	0.0045

Mercury	100412-10-23 09:07 G	38396085.72	38396085.88	38396086.05	0.0136	0.0072
Mercury	100413-01-19 16:33 G	38396174.08	38396174.19	38396174.34	0.0136	0.0100
Mercury	100413-04-18 00:28 G	38396262.46	38396262.52	38396262.59	0.0136	0.0127
Moon	100424-09-27 08:38 G	38400442.74	38400442.86	38400443.02	0.0135	0.0111
Earth	100424-09-27 12:14 G	38400442.87	38400443.01	38400443.19	0.0135	0.0103 *
Earth	100425-10-01 18:43 G	38400812.04	38400812.28	38400812.54	0.0135	0.0019
Moon	100425-10-01 22:19 G	38400812.18	38400812.43	38400812.68	0.0135	0.0014 *
Moon	100426-10-05 21:21 G	38401181.18	38401181.39	38401181.62	0.0135	0.0065
Earth	100426-10-06 00:57 G	38401181.34	38401181.54	38401181.77	0.0135	0.0067 *
Venus	100430-05-29 11:16 G	38402512.90	38402512.97	38402513.05	0.0135	0.0127
Venus	100431-01-10 15:50 G	38402739.06	38402739.16	38402739.31	0.0135	0.0109
Venus	100431-08-24 21:21 G	38402965.24	38402965.39	38402965.55	0.0135	0.0091
Venus	100432-04-07 02:23 G	38403191.43	38403191.60	38403191.79	0.0135	0.0073
Venus	100432-11-19 07:40 G	38403417.63	38403417.82	38403418.02	0.0135	0.0054
Venus	100433-07-03 13:11 G	38403643.84	38403644.05	38403644.26	0.0136	0.0035
Venus	100434-02-14 18:28 G	38403870.06	38403870.27	38403870.49	0.0136	0.0017
Venus	100434-09-29 00:14 G	38404096.30	38404096.51	38404096.73	0.0136	0.0004
Venus	100435-05-13 05:59 G	38404322.54	38404322.75	38404322.97	0.0136	0.0022
Venus	100435-12-25 11:45 G	38404548.79	38404548.99	38404549.20	0.0136	0.0042
Venus	100436-08-07 17:59 G	38404775.06	38404775.25	38404775.45	0.0136	0.0061
Venus	100437-03-22 00:14 G	38405001.34	38405001.51	38405001.69	0.0136	0.0080
Venus	100437-11-03 06:28 G	38405227.63	38405227.77	38405227.92	0.0137	0.0099
Venus	100438-06-17 12:57 G	38405453.94	38405454.04	38405454.15	0.0137	0.0118
Mars	100442-10-03 09:07 G	38407022.60	38407022.88	38407023.17	0.0138	0.0041
Mercury	100453-11-14 09:35 G	38411082.87	38411082.90	38411082.93	0.0142	0.0136
Mercury	100454-02-10 12:43 G	38411170.97	38411171.03	38411171.11	0.0142	0.0116
Mercury	100454-05-09 16:04 G	38411259.09	38411259.17	38411259.28	0.0142	0.0095
Mercury	100454-08-05 19:40 G	38411347.21	38411347.32	38411347.44	0.0142	0.0074
Mercury	100454-11-01 23:02 G	38411435.34	38411435.46	38411435.59	0.0142	0.0053
Mercury	100455-01-29 02:23 G	38411523.48	38411523.60	38411523.74	0.0142	0.0033

Mercury	100455-04-27 05:59 G	38411611.62	38411611.75	38411611.88	0.0142	0.0010
Mercury	100455-07-24 09:21 G	38411699.76	38411699.89	38411700.02	0.0142	0.0011
Mercury	100455-10-20 12:43 G	38411787.91	38411788.03	38411788.16	0.0142	0.0032
Mercury	100456-01-16 16:04 G	38411876.06	38411876.17	38411876.30	0.0142	0.0053
Mercury	100456-04-13 19:26 G	38411964.21	38411964.31	38411964.43	0.0142	0.0075
Mercury	100456-07-10 23:02 G	38412052.37	38412052.46	38412052.56	0.0142	0.0095
Mercury	100456-10-07 02:23 G	38412140.53	38412140.60	38412140.68	0.0143	0.0117
Mercury	100457-01-03 05:45 G	38412228.72	38412228.74	38412228.78	0.0143	0.0138
Moon	100466-03-26 17:02 G	38415598.19	38415598.21	38415598.26	0.0144	0.0142
Earth	100467-03-31 21:35 G	38415968.16	38415968.40	38415968.65	0.0144	0.0044
Moon	100467-03-31 22:33 G	38415968.21	38415968.44	38415968.68	0.0144	0.0050 *
Moon	100468-04-04 23:02 G	38416338.24	38416338.46	38416338.71	0.0143	0.0066
Earth	100468-04-04 23:31 G	38416338.26	38416338.48	38416338.72	0.0143	0.0063 *
Venus	100471-12-10 05:59 G	38417682.66	38417682.75	38417682.87	0.0143	0.0126
Venus	100472-07-23 18:28 G	38417909.13	38417909.27	38417909.44	0.0143	0.0104
Venus	100473-03-07 07:11 G	38418135.63	38418135.80	38418135.99	0.0143	0.0081
Venus	100473-10-19 19:40 G	38418362.12	38418362.32	38418362.52	0.0143	0.0058
Venus	100474-06-03 07:40 G	38418588.61	38418588.82	38418589.04	0.0143	0.0035
Venus	100475-01-15 19:40 G	38418815.11	38418815.32	38418815.55	0.0142	0.0013
Venus	100475-08-30 07:40 G	38419041.60	38419041.82	38419042.04	0.0142	0.0011
Venus	100476-04-12 19:26 G	38419268.10	38419268.31	38419268.53	0.0142	0.0033
Venus	100476-11-25 06:57 G	38419494.59	38419494.79	38419495.00	0.0142	0.0055
Venus	100477-07-09 17:59 G	38419721.08	38419721.25	38419721.45	0.0142	0.0078
Venus	100478-02-21 05:45 G	38419947.58	38419947.74	38419947.90	0.0142	0.0099
Venus	100478-10-05 16:33 G	38420174.09	38420174.19	38420174.31	0.0141	0.0120
Venus	100479-05-20 03:21 G	38420400.64	38420400.64	38420400.66	0.0141	0.0141
Mars	100483-04-29 09:07 G	38421840.56	38421840.88	38421841.20	0.0140	0.0012
Jupiter	100492-02-17 06:14 G	38425056.29	38425056.76	38425057.25	0.0137	0.0054
Mercury	100495-03-05 11:31 G	38426168.88	38426168.98	38426169.10	0.0136	0.0111
Mercury	100495-06-01 19:26 G	38426257.15	38426257.31	38426257.46	0.0136	0.0084

Mercury	100495-08-29 02:52 G	38426345.45	38426345.62	38426345.81	0.0136	0.0056
Mercury	100495-11-25 10:47 G	38426433.76	38426433.95	38426434.14	0.0136	0.0028
Mercury	100496-02-21 18:28 G	38426522.07	38426522.27	38426522.47	0.0136	0.0001
Mercury	100496-05-20 02:09 G	38426610.40	38426610.59	38426610.78	0.0136	0.0027
Mercury	100496-08-16 09:35 G	38426698.73	38426698.90	38426699.09	0.0136	0.0055
Mercury	100496-11-12 17:16 G	38426787.07	38426787.22	38426787.38	0.0136	0.0083
Mercury	100497-02-09 00:57 G	38426875.43	38426875.54	38426875.66	0.0136	0.0110
Moon	100508-09-28 21:35 G	38431124.24	38431124.40	38431124.60	0.0134	0.0090
Earth	100508-09-29 00:43 G	38431124.38	38431124.53	38431124.72	0.0134	0.0097 *
Earth	100509-10-03 07:11 G	38431493.56	38431493.80	38431494.06	0.0134	0.0012
Moon	100509-10-03 10:47 G	38431493.70	38431493.95	38431494.20	0.0134	0.0017 *
Moon	100510-10-07 10:19 G	38431862.74	38431862.93	38431863.14	0.0135	0.0077
Earth	100510-10-07 13:26 G	38431862.86	38431863.06	38431863.28	0.0135	0.0073 *
Venus	100514-01-27 22:19 G	38433071.41	38433071.43	38433071.49	0.0135	0.0132
Venus	100514-09-11 03:21 G	38433297.54	38433297.64	38433297.76	0.0135	0.0114
Venus	100515-04-25 08:23 G	38433523.71	38433523.85	38433524.00	0.0135	0.0096
Venus	100515-12-07 13:26 G	38433749.89	38433750.06	38433750.24	0.0135	0.0078
Venus	100516-07-20 18:28 G	38433976.09	38433976.27	38433976.47	0.0135	0.0060
Venus	100517-03-03 23:59 G	38434202.30	38434202.50	38434202.71	0.0135	0.0041
Venus	100517-10-16 05:16 G	38434428.52	38434428.72	38434428.94	0.0135	0.0023
Venus	100518-05-30 11:02 G	38434654.74	38434654.96	38434655.17	0.0136	0.0004
Venus	100519-01-11 16:33 G	38434880.98	38434881.19	38434881.41	0.0136	0.0015
Venus	100519-08-25 22:19 G	38435107.23	38435107.43	38435107.65	0.0136	0.0035
Venus	100520-04-08 04:33 G	38435333.49	38435333.69	38435333.88	0.0136	0.0053
Venus	100520-11-20 10:19 G	38435559.76	38435559.93	38435560.12	0.0136	0.0073
Venus	100521-07-04 16:33 G	38435786.04	38435786.19	38435786.35	0.0136	0.0092
Venus	100522-02-15 22:47 G	38436012.33	38436012.45	38436012.58	0.0137	0.0111
Venus	100522-09-30 05:16 G	38436238.67	38436238.72	38436238.80	0.0137	0.0130
Mars	100527-05-30 03:21 G	38437941.41	38437941.64	38437941.92	0.0138	0.0074
Mercury	100537-12-05 16:33 G	38441784.15	38441784.19	38441784.24	0.0142	0.0132

Mercury	100538-03-03 19:55 G	38441872.26	38441872.33	38441872.42	0.0142	0.0111
Mercury	100538-05-30 23:31 G	38441960.38	38441960.48	38441960.58	0.0142	0.0090
Mercury	100538-08-27 02:52 G	38442048.51	38442048.62	38442048.74	0.0142	0.0069
Mercury	100538-11-23 06:14 G	38442136.64	38442136.76	38442136.89	0.0142	0.0048
Mercury	100539-02-19 09:50 G	38442224.78	38442224.91	38442225.04	0.0142	0.0027
Mercury	100539-05-18 13:11 G	38442312.92	38442313.05	38442313.18	0.0142	0.0006
Mercury	100539-08-14 16:33 G	38442401.06	38442401.19	38442401.32	0.0142	0.0015
Mercury	100539-11-10 19:55 G	38442489.21	38442489.33	38442489.46	0.0142	0.0036
Mercury	100540-02-06 23:16 G	38442577.36	38442577.47	38442577.60	0.0142	0.0058
Mercury	100540-05-05 02:38 G	38442665.51	38442665.61	38442665.73	0.0142	0.0079
Mercury	100540-08-01 06:14 G	38442753.67	38442753.76	38442753.85	0.0142	0.0100
Mercury	100540-10-28 09:35 G	38442841.84	38442841.90	38442841.97	0.0143	0.0121
Mercury	100541-01-24 13:11 G	38442930.04	38442930.05	38442930.06	0.0143	0.0142
Earth	100551-04-02 06:43 G	38446649.54	38446649.78	38446650.04	0.0144	0.0040
Moon	100551-04-02 09:07 G	38446649.63	38446649.88	38446650.12	0.0144	0.0032 *
Moon	100552-04-06 07:11 G	38447019.58	38447019.80	38447020.06	0.0144	0.0063
Earth	100552-04-06 08:52 G	38447019.66	38447019.87	38447020.11	0.0144	0.0067 *
Venus	100555-08-10 11:45 G	38448240.92	38448240.99	38448241.07	0.0143	0.0135
Venus	100556-03-24 00:14 G	38448467.38	38448467.51	38448467.66	0.0143	0.0112
Venus	100556-11-05 12:57 G	38448693.87	38448694.04	38448694.21	0.0143	0.0089
Venus	100557-06-20 01:11 G	38448920.36	38448920.55	38448920.75	0.0143	0.0067
Venus	100558-02-01 13:40 G	38449146.86	38449147.07	38449147.29	0.0143	0.0044
Venus	100558-09-16 01:55 G	38449373.36	38449373.58	38449373.80	0.0143	0.0021
Venus	100559-04-30 13:55 G	38449599.86	38449600.08	38449600.30	0.0142	0.0002
Venus	100559-12-13 01:40 G	38449826.36	38449826.57	38449826.79	0.0142	0.0024
Venus	100560-07-26 13:11 G	38450052.86	38450053.05	38450053.27	0.0142	0.0047
Venus	100561-03-10 00:57 G	38450279.36	38450279.54	38450279.74	0.0142	0.0069
Venus	100561-10-22 12:14 G	38450505.86	38450506.01	38450506.19	0.0142	0.0091
Venus	100562-06-05 23:31 G	38450732.36	38450732.48	38450732.62	0.0142	0.0112
Venus	100563-01-18 10:47 G	38450958.87	38450958.95	38450959.02	0.0141	0.0133

Mercury	100578-12-28 11:31 G	38456781.94	38456781.98	38456782.05	0.0136	0.0130
Mercury	100579-03-26 19:11 G	38456870.19	38456870.30	38456870.44	0.0136	0.0103
Mercury	100579-06-23 03:07 G	38456958.47	38456958.63	38456958.80	0.0136	0.0075
Mercury	100579-09-19 10:47 G	38457046.77	38457046.95	38457047.14	0.0136	0.0047
Mercury	100579-12-16 18:28 G	38457135.08	38457135.27	38457135.47	0.0136	0.0019
Mercury	100580-03-14 02:09 G	38457223.40	38457223.59	38457223.79	0.0136	0.0009
Mercury	100580-06-10 09:50 G	38457311.72	38457311.91	38457312.10	0.0136	0.0036
Mercury	100580-09-06 17:31 G	38457400.06	38457400.23	38457400.41	0.0136	0.0064
Mercury	100580-12-04 00:57 G	38457488.41	38457488.54	38457488.70	0.0136	0.0092
Mercury	100581-03-02 08:38 G	38457576.78	38457576.86	38457576.96	0.0136	0.0119
Moon	100592-09-29 10:04 G	38461805.77	38461805.92	38461806.11	0.0134	0.0098
Earth	100592-09-29 12:57 G	38461805.87	38461806.04	38461806.24	0.0134	0.0090 *
Earth	100593-10-03 19:26 G	38462175.06	38462175.31	38462175.56	0.0134	0.0005
Moon	100593-10-03 22:04 G	38462175.16	38462175.42	38462175.68	0.0134	0.0001 *
Moon	100594-10-07 22:19 G	38462544.23	38462544.43	38462544.63	0.0135	0.0076
Earth	100594-10-08 01:11 G	38462544.36	38462544.55	38462544.76	0.0135	0.0080 *
Venus	100598-05-11 14:23 G	38463856.02	38463856.10	38463856.20	0.0135	0.0120
Venus	100598-12-23 18:57 G	38464082.17	38464082.29	38464082.45	0.0135	0.0103
Venus	100599-08-07 00:28 G	38464308.36	38464308.52	38464308.69	0.0135	0.0084
Venus	100600-03-21 05:31 G	38464534.55	38464534.73	38464534.92	0.0135	0.0066
Venus	100600-11-02 10:33 G	38464760.75	38464760.94	38464761.15	0.0135	0.0048
Venus	100601-06-16 15:50 G	38464986.96	38464987.16	38464987.38	0.0135	0.0030
Venus	100602-01-28 21:21 G	38465213.18	38465213.39	38465213.61	0.0135	0.0011
Venus	100602-09-12 03:07 G	38465439.42	38465439.63	38465439.85	0.0136	0.0008
Venus	100603-04-26 08:38 G	38465665.66	38465665.86	38465666.08	0.0136	0.0027
Venus	100603-12-08 14:23 G	38465891.90	38465892.10	38465892.31	0.0136	0.0046
Venus	100604-07-21 20:23 G	38466118.16	38466118.35	38466118.54	0.0136	0.0065
Venus	100605-03-05 02:09 G	38466344.44	38466344.59	38466344.77	0.0136	0.0085
Venus	100605-10-17 08:23 G	38466570.73	38466570.85	38466571.00	0.0136	0.0103
Venus	100606-05-31 14:52 G	38466797.03	38466797.12	38466797.22	0.0137	0.0122

Mars	100610-02-21 18:28 G	38468159.10	38468159.27	38468159.48	0.0138	0.0105
Mercury	100621-12-26 23:45 G	38472485.43	38472485.49	38472485.54	0.0142	0.0128
Mercury	100622-03-25 03:07 G	38472573.55	38472573.63	38472573.71	0.0142	0.0107
Mercury	100622-06-21 06:14 G	38472661.67	38472661.76	38472661.87	0.0142	0.0087
Mercury	100622-09-17 09:50 G	38472749.80	38472749.91	38472750.03	0.0142	0.0066
Mercury	100622-12-14 13:11 G	38472837.93	38472838.05	38472838.18	0.0142	0.0045
Mercury	100623-03-12 16:47 G	38472926.07	38472926.20	38472926.33	0.0142	0.0024
Mercury	100623-06-08 20:09 G	38473014.21	38473014.34	38473014.47	0.0142	0.0003
Mercury	100623-09-04 23:31 G	38473102.35	38473102.48	38473102.61	0.0142	0.0019
Mercury	100623-12-02 02:52 G	38473190.50	38473190.62	38473190.75	0.0142	0.0040
Mercury	100624-02-28 06:28 G	38473278.65	38473278.77	38473278.89	0.0142	0.0061
Mercury	100624-05-26 09:50 G	38473366.80	38473366.91	38473367.02	0.0142	0.0082
Mercury	100624-08-22 13:11 G	38473454.96	38473455.05	38473455.14	0.0142	0.0103
Mercury	100624-11-18 16:33 G	38473543.13	38473543.19	38473543.26	0.0142	0.0124
Moon	100634-03-29 08:38 G	38476960.80	38476960.86	38476960.97	0.0144	0.0136
Earth	100634-03-29 12:14 G	38476961.00	38476961.01	38476961.06	0.0144	0.0143
Earth	100635-04-03 14:38 G	38477330.87	38477331.11	38477331.37	0.0144	0.0036
Moon	100635-04-03 17:16 G	38477330.99	38477331.22	38477331.47	0.0144	0.0044 *
Moon	100636-04-07 14:23 G	38477700.89	38477701.10	38477701.33	0.0144	0.0077
Earth	100636-04-07 16:47 G	38477700.98	38477701.20	38477701.43	0.0144	0.0071 *
Venus	100639-11-23 05:02 G	38479025.60	38479025.71	38479025.83	0.0143	0.0121
Venus	100640-07-06 17:31 G	38479252.08	38479252.23	38479252.40	0.0143	0.0099
Venus	100641-02-18 06:28 G	38479478.59	38479478.77	38479478.96	0.0143	0.0076
Venus	100641-10-02 18:43 G	38479705.09	38479705.28	38479705.50	0.0143	0.0054
Venus	100642-05-17 07:11 G	38479931.59	38479931.80	38479932.02	0.0143	0.0031
Venus	100642-12-29 19:26 G	38480158.09	38480158.31	38480158.53	0.0143	0.0008
Venus	100643-08-13 07:26 G	38480384.59	38480384.81	38480385.03	0.0142	0.0015
Venus	100644-03-26 19:26 G	38480611.10	38480611.31	38480611.53	0.0142	0.0037
Venus	100644-11-08 07:11 G	38480837.60	38480837.80	38480838.00	0.0142	0.0059
Venus	100645-06-22 18:43 G	38481064.10	38481064.28	38481064.46	0.0142	0.0081

Venus	100646-02-04 05:59 G	38481290.60	38481290.75	38481290.90	0.0142	0.0103
Venus	100646-09-18 17:16 G	38481517.12	38481517.22	38481517.32	0.0142	0.0124
Mars	100650-09-16 13:55 G	38482975.80	38482976.08	38482976.37	0.0140	0.0062
Mercury	100663-01-18 18:57 G	38487483.22	38487483.29	38487483.39	0.0136	0.0122
Mercury	100663-04-17 02:52 G	38487571.49	38487571.62	38487571.77	0.0136	0.0094
Mercury	100663-07-14 10:33 G	38487659.78	38487659.94	38487660.12	0.0136	0.0067
Mercury	100663-10-10 18:28 G	38487748.08	38487748.27	38487748.46	0.0136	0.0039
Mercury	100664-01-07 02:09 G	38487836.39	38487836.59	38487836.78	0.0136	0.0011
Mercury	100664-04-04 09:50 G	38487924.71	38487924.91	38487925.10	0.0136	0.0017
Mercury	100664-07-01 17:30 G	38488013.04	38488013.23	38488013.41	0.0136	0.0044
Mercury	100664-09-28 00:57 G	38488101.38	38488101.54	38488101.71	0.0136	0.0072
Mercury	100664-12-25 08:23 G	38488189.73	38488189.85	38488190.00	0.0136	0.0100
Mercury	100665-03-23 16:18 G	38488278.12	38488278.18	38488278.25	0.0136	0.0127
Moon	100676-09-30 23:30 G	38492487.28	38492487.48	38492487.69	0.0135	0.0076
Earth	100676-10-01 01:26 G	38492487.37	38492487.56	38492487.77	0.0135	0.0083 *
Earth	100677-10-05 07:40 G	38492856.57	38492856.82	38492857.07	0.0135	0.0002
Moon	100677-10-05 10:04 G	38492856.66	38492856.92	38492857.18	0.0135	0.0005 *
Moon	100678-10-09 11:45 G	38493225.82	38493225.99	38493226.17	0.0135	0.0092
Earth	100678-10-09 13:26 G	38493225.88	38493226.06	38493226.27	0.0135	0.0087 *
Venus	100682-01-10 02:09 G	38494414.53	38494414.59	38494414.67	0.0135	0.0126
Venus	100682-08-24 07:11 G	38494640.68	38494640.80	38494640.93	0.0135	0.0108
Venus	100683-04-07 12:14 G	38494866.85	38494867.01	38494867.17	0.0135	0.0090
Venus	100683-11-19 17:16 G	38495093.04	38495093.22	38495093.40	0.0135	0.0072
Venus	100684-07-02 22:18 G	38495319.24	38495319.43	38495319.63	0.0135	0.0054
Venus	100685-02-14 03:35 G	38495545.45	38495545.65	38495545.86	0.0135	0.0036
Venus	100685-09-28 08:52 G	38495771.67	38495771.87	38495772.09	0.0135	0.0018
Venus	100686-05-12 14:23 G	38495997.89	38495998.10	38495998.32	0.0136	0.0003
Venus	100686-12-24 19:54 G	38496224.12	38496224.33	38496224.55	0.0136	0.0021
Venus	100687-08-08 01:40 G	38496450.37	38496450.57	38496450.78	0.0136	0.0040
Venus	100688-03-21 07:40 G	38496676.63	38496676.82	38496677.01	0.0136	0.0058

Venus	100688-11-02 13:26 G	38496902.89	38496903.06	38496903.24	0.0136	0.0077
Venus	100689-06-16 19:11 G	38497129.17	38497129.30	38497129.47	0.0136	0.0097
Venus	100690-01-29 01:40 G	38497355.46	38497355.57	38497355.69	0.0136	0.0115
Venus	100690-09-12 07:54 G	38497581.80	38497581.83	38497581.89	0.0137	0.0134
Mars	100694-10-17 15:06 G	38499077.84	38499078.13	38499078.43	0.0138	0.0011
Mercury	100706-01-17 07:11 G	38503186.74	38503186.80	38503186.87	0.0142	0.0122
Mercury	100706-04-15 10:33 G	38503274.85	38503274.94	38503275.03	0.0142	0.0101
Mercury	100706-07-12 14:09 G	38503362.98	38503363.09	38503363.19	0.0142	0.0080
Mercury	100706-10-08 17:30 G	38503451.11	38503451.23	38503451.35	0.0142	0.0059
Mercury	100707-01-04 20:52 G	38503539.24	38503539.37	38503539.50	0.0142	0.0038
Mercury	100707-04-03 00:14 G	38503627.38	38503627.51	38503627.64	0.0142	0.0018
Mercury	100707-06-30 03:35 G	38503715.52	38503715.65	38503715.79	0.0142	0.0006
Mercury	100707-09-26 07:11 G	38503803.67	38503803.80	38503803.93	0.0142	0.0025
Mercury	100707-12-23 10:18 G	38503891.82	38503891.93	38503892.06	0.0142	0.0047
Mercury	100708-03-20 13:54 G	38503979.97	38503980.08	38503980.20	0.0142	0.0067
Mercury	100708-06-16 17:16 G	38504068.12	38504068.22	38504068.33	0.0142	0.0088
Mercury	100708-09-12 20:38 G	38504156.29	38504156.36	38504156.45	0.0142	0.0109
Mercury	100708-12-09 23:59 G	38504244.46	38504244.50	38504244.56	0.0142	0.0131
Moon	100718-03-30 19:40 G	38507642.30	38507642.32	38507642.37	0.0144	0.0142
Earth	100718-03-30 23:16 G	38507642.40	38507642.47	38507642.56	0.0144	0.0136
Earth	100719-04-05 01:26 G	38508012.31	38508012.56	38508012.82	0.0144	0.0030
Moon	100719-04-05 04:47 G	38508012.46	38508012.70	38508012.96	0.0144	0.0022 *
Moon	100720-04-09 00:28 G	38508382.29	38508382.52	38508382.75	0.0144	0.0070
Earth	100720-04-09 03:21 G	38508382.44	38508382.64	38508382.87	0.0144	0.0077 *
Venus	100723-07-24 10:47 G	38509583.87	38509583.95	38509584.05	0.0143	0.0130
Venus	100724-03-06 23:59 G	38509810.36	38509810.50	38509810.65	0.0143	0.0108
Venus	100724-10-19 12:28 G	38510036.85	38510037.02	38510037.20	0.0143	0.0085
Venus	100725-06-03 01:11 G	38510263.35	38510263.55	38510263.75	0.0143	0.0062
Venus	100726-01-15 13:26 G	38510489.85	38510490.06	38510490.28	0.0143	0.0040
Venus	100726-08-30 01:54 G	38510716.36	38510716.58	38510716.80	0.0143	0.0017

Venus	100727-04-13 13:54 G	38510942.86	38510943.08	38510943.31	0.0142	0.0006
Venus	100727-11-26 01:54 G	38511169.37	38511169.58	38511169.80	0.0142	0.0028
Venus	100728-07-09 13:40 G	38511395.87	38511396.07	38511396.28	0.0142	0.0051
Venus	100729-02-21 01:26 G	38511622.37	38511622.56	38511622.75	0.0142	0.0072
Venus	100729-10-05 12:42 G	38511848.87	38511849.03	38511849.20	0.0142	0.0094
Venus	100730-05-19 23:45 G	38512075.38	38512075.49	38512075.63	0.0142	0.0116
Venus	100731-01-01 10:33 G	38512301.91	38512301.94	38512302.02	0.0142	0.0137
Mars	100735-05-14 05:02 G	38513895.45	38513895.71	38513896.01	0.0140	0.0069
Mercury	100747-02-09 02:23 G	38518184.51	38518184.60	38518184.72	0.0136	0.0115
Mercury	100747-05-08 10:18 G	38518272.78	38518272.93	38518273.08	0.0136	0.0087
Mercury	100747-08-04 17:45 G	38518361.08	38518361.24	38518361.43	0.0136	0.0060
Mercury	100747-11-01 01:40 G	38518449.38	38518449.57	38518449.77	0.0136	0.0031
Mercury	100748-01-28 09:35 G	38518537.70	38518537.90	38518538.09	0.0136	0.0004
Mercury	100748-04-25 17:16 G	38518626.02	38518626.22	38518626.41	0.0136	0.0025
Mercury	100748-07-23 00:42 G	38518714.36	38518714.53	38518714.72	0.0136	0.0052
Mercury	100748-10-19 08:23 G	38518802.70	38518802.85	38518803.01	0.0136	0.0080
Mercury	100749-01-15 16:04 G	38518891.06	38518891.17	38518891.29	0.0136	0.0107
Mercury	100749-04-13 23:30 G	38518979.47	38518979.48	38518979.52	0.0136	0.0135
Moon	100760-10-02 11:59 G	38523168.83	38523169.00	38523169.21	0.0135	0.0084
Earth	100760-10-02 13:26 G	38523168.86	38523169.06	38523169.28	0.0135	0.0076 *
Earth	100761-10-06 19:40 G	38523538.07	38523538.32	38523538.57	0.0135	0.0009
Moon	100761-10-06 20:52 G	38523538.11	38523538.37	38523538.63	0.0135	0.0015 *
Moon	100762-10-10 23:45 G	38523907.32	38523907.49	38523907.69	0.0135	0.0088
Earth	100762-10-11 01:26 G	38523907.39	38523907.56	38523907.75	0.0135	0.0094 *
Venus	100765-09-10 13:40 G	38524973.04	38524973.07	38524973.13	0.0135	0.0132
Venus	100766-04-24 18:42 G	38525199.17	38525199.28	38525199.39	0.0135	0.0114
Venus	100766-12-06 23:16 G	38525425.34	38525425.47	38525425.63	0.0135	0.0097
Venus	100767-07-21 04:18 G	38525651.52	38525651.68	38525651.87	0.0135	0.0079
Venus	100768-03-03 09:50 G	38525877.72	38525877.91	38525878.10	0.0135	0.0061
Venus	100768-10-15 14:52 G	38526103.92	38526104.12	38526104.33	0.0135	0.0042

Venus	100769-05-29 20:09 G	38526330.13	38526330.34	38526330.55	0.0135	0.0024
Venus	100770-01-11 01:40 G	38526556.35	38526556.57	38526556.78	0.0135	0.0006
Venus	100770-08-25 07:11 G	38526782.59	38526782.80	38526783.01	0.0136	0.0013
Venus	100771-04-08 12:42 G	38527008.83	38527009.03	38527009.24	0.0136	0.0032
Venus	100771-11-20 18:14 G	38527235.07	38527235.26	38527235.47	0.0136	0.0051
Venus	100772-07-03 23:59 G	38527461.33	38527461.50	38527461.69	0.0136	0.0070
Venus	100773-02-15 05:59 G	38527687.60	38527687.75	38527687.92	0.0136	0.0089
Venus	100773-09-29 11:59 G	38527913.89	38527914.00	38527914.15	0.0136	0.0108
Venus	100774-05-13 18:28 G	38528140.20	38528140.27	38528140.36	0.0137	0.0126
Mars	100779-06-13 11:02 G	38529996.86	38529996.96	38529997.06	0.0138	0.0130
Mercury	100789-11-10 11:02 G	38533799.94	38533799.96	38533800.00	0.0142	0.0137
Mercury	100790-02-06 14:38 G	38533888.04	38533888.11	38533888.19	0.0142	0.0116
Mercury	100790-05-05 17:59 G	38533976.16	38533976.25	38533976.35	0.0142	0.0095
Mercury	100790-08-01 21:35 G	38534064.29	38534064.40	38534064.51	0.0142	0.0074
Mercury	100790-10-29 00:57 G	38534152.42	38534152.54	38534152.66	0.0142	0.0053
Mercury	100791-01-25 04:18 G	38534240.55	38534240.68	38534240.81	0.0142	0.0032
Mercury	100791-04-23 07:40 G	38534328.69	38534328.82	38534328.95	0.0142	0.0012
Mercury	100791-07-20 11:16 G	38534416.84	38534416.97	38534417.10	0.0142	0.0010
Mercury	100791-10-16 14:38 G	38534504.98	38534505.11	38534505.24	0.0142	0.0031
Mercury	100792-01-12 17:59 G	38534593.13	38534593.25	38534593.37	0.0142	0.0052
Mercury	100792-04-09 21:21 G	38534681.28	38534681.39	38534681.51	0.0142	0.0073
Mercury	100792-07-07 00:42 G	38534769.44	38534769.53	38534769.63	0.0142	0.0095
Mercury	100792-10-03 04:18 G	38534857.61	38534857.68	38534857.76	0.0142	0.0115
Mercury	100792-12-30 07:40 G	38534945.79	38534945.82	38534945.86	0.0142	0.0137
Moon	100802-03-31 07:11 G	38538323.70	38538323.80	38538323.95	0.0144	0.0124
Earth	100802-03-31 11:16 G	38538323.87	38538323.97	38538324.10	0.0144	0.0129 *
Earth	100803-04-05 13:40 G	38538693.81	38538694.07	38538694.32	0.0144	0.0022
Moon	100803-04-05 17:02 G	38538693.96	38538694.21	38538694.47	0.0144	0.0030 *
Moon	100804-04-09 11:59 G	38539063.81	38539064.00	38539064.21	0.0144	0.0092
Earth	100804-04-09 15:21 G	38539063.95	38539064.14	38539064.36	0.0144	0.0085 *

Venus	100807-03-23 17:59 G	38540142.21	38540142.25	38540142.32	0.0143	0.0138
Venus	100807-11-05 06:42 G	38540368.67	38540368.78	38540368.93	0.0143	0.0116
Venus	100808-06-18 19:40 G	38540595.16	38540595.32	38540595.50	0.0143	0.0093
Venus	100809-01-31 08:23 G	38540821.67	38540821.85	38540822.05	0.0143	0.0071
Venus	100809-09-14 21:06 G	38541048.17	38541048.38	38541048.59	0.0143	0.0048
Venus	100810-04-29 09:21 G	38541274.68	38541274.89	38541275.11	0.0143	0.0026
Venus	100810-12-11 21:35 G	38541501.18	38541501.40	38541501.62	0.0143	0.0003
Venus	100811-07-26 09:35 G	38541727.68	38541727.90	38541728.12	0.0142	0.0020
Venus	100812-03-08 21:35 G	38541954.19	38541954.40	38541954.62	0.0142	0.0042
Venus	100812-10-21 09:06 G	38542180.70	38542180.88	38542181.09	0.0142	0.0064
Venus	100813-06-04 20:52 G	38542407.20	38542407.37	38542407.55	0.0142	0.0085
Venus	100814-01-17 07:54 G	38542633.70	38542633.83	38542633.98	0.0142	0.0107
Venus	100814-08-31 18:57 G	38542860.21	38542860.29	38542860.40	0.0142	0.0128
Mars	100818-02-02 20:23 G	38544111.28	38544111.35	38544111.49	0.0141	0.0134
Mercury	100830-12-03 02:38 G	38548797.58	38548797.61	38548797.66	0.0136	0.0133
Mercury	100831-03-01 10:33 G	38548885.82	38548885.94	38548886.07	0.0136	0.0105
Mercury	100831-05-28 17:59 G	38548974.10	38548974.25	38548974.42	0.0136	0.0077
Mercury	100831-08-25 01:54 G	38549062.40	38549062.58	38549062.77	0.0136	0.0049
Mercury	100831-11-21 09:35 G	38549150.71	38549150.90	38549151.10	0.0136	0.0022
Mercury	100832-02-17 17:16 G	38549239.03	38549239.22	38549239.42	0.0136	0.0007
Mercury	100832-05-16 00:57 G	38549327.36	38549327.54	38549327.74	0.0136	0.0034
Mercury	100832-08-12 08:38 G	38549415.69	38549415.86	38549416.04	0.0136	0.0062
Mercury	100832-11-08 16:18 G	38549504.04	38549504.18	38549504.33	0.0136	0.0089
Mercury	100833-02-04 23:45 G	38549592.41	38549592.49	38549592.60	0.0136	0.0117
Moon	100844-10-03 01:54 G	38553850.38	38553850.58	38553850.81	0.0135	0.0064
Earth	100844-10-03 02:38 G	38553850.39	38553850.61	38553850.82	0.0135	0.0069 *
Earth	100845-10-07 08:38 G	38554219.61	38554219.86	38554220.11	0.0135	0.0016
Moon	100845-10-07 09:21 G	38554219.63	38554219.89	38554220.15	0.0135	0.0009 *
Earth	100846-10-11 14:23 G	38554588.95	38554589.10	38554589.28	0.0135	0.0101
Moon	100846-10-11 13:54 G	38554588.96	38554589.08	38554589.25	0.0135	0.0108 *

Venus	100849-12-23 06:28 G	38555757.69	38555757.77	38555757.88	0.0135	0.0120
Venus	100850-08-06 11:45 G	38555983.86	38555983.99	38555984.13	0.0135	0.0102
Venus	100851-03-20 16:47 G	38556210.04	38556210.20	38556210.37	0.0135	0.0084
Venus	100851-11-01 21:50 G	38556436.23	38556436.41	38556436.60	0.0135	0.0066
Venus	100852-06-15 02:52 G	38556662.42	38556662.62	38556662.82	0.0135	0.0048
Venus	100853-01-27 07:54 G	38556888.63	38556888.83	38556889.05	0.0135	0.0031
Venus	100853-09-10 13:40 G	38557114.85	38557115.07	38557115.28	0.0135	0.0012
Venus	100854-04-24 18:57 G	38557341.08	38557341.29	38557341.50	0.0136	0.0007
Venus	100854-12-07 00:14 G	38557567.31	38557567.51	38557567.73	0.0136	0.0026
Venus	100855-07-21 05:59 G	38557793.55	38557793.75	38557793.96	0.0136	0.0044
Venus	100856-03-03 11:30 G	38558019.80	38558019.98	38558020.18	0.0136	0.0064
Venus	100856-10-15 17:16 G	38558246.07	38558246.22	38558246.41	0.0136	0.0083
Venus	100857-05-29 23:30 G	38558472.34	38558472.48	38558472.63	0.0136	0.0101
Venus	100858-01-11 05:16 G	38558698.64	38558698.72	38558698.85	0.0137	0.0120
Mars	100862-03-07 09:21 G	38560214.62	38560214.89	38560215.18	0.0138	0.0043
Mercury	100873-11-30 18:57 G	38564501.25	38564501.29	38564501.36	0.0142	0.0129
Mercury	100874-02-26 22:33 G	38564589.36	38564589.44	38564589.53	0.0142	0.0107
Mercury	100874-05-26 01:54 G	38564677.48	38564677.58	38564677.69	0.0142	0.0087
Mercury	100874-08-22 05:16 G	38564765.61	38564765.72	38564765.84	0.0142	0.0066
Mercury	100874-11-18 08:52 G	38564853.75	38564853.87	38564853.99	0.0142	0.0045
Mercury	100875-02-14 12:14 G	38564941.88	38564942.01	38564942.14	0.0142	0.0024
Mercury	100875-05-13 15:35 G	38565030.02	38565030.15	38565030.28	0.0142	0.0005
Mercury	100875-08-09 18:57 G	38565118.17	38565118.29	38565118.43	0.0142	0.0019
Mercury	100875-11-05 22:33 G	38565206.31	38565206.44	38565206.57	0.0142	0.0039
Mercury	100876-02-02 01:54 G	38565294.46	38565294.58	38565294.70	0.0142	0.0061
Mercury	100876-04-30 05:16 G	38565382.62	38565382.72	38565382.83	0.0142	0.0082
Mercury	100876-07-27 08:52 G	38565470.78	38565470.87	38565470.96	0.0142	0.0103
Mercury	100876-10-23 11:59 G	38565558.95	38565559.00	38565559.07	0.0142	0.0125
Moon	100886-03-31 22:47 G	38569005.33	38569005.45	38569005.59	0.0144	0.0124
Earth	100886-04-01 01:54 G	38569005.46	38569005.58	38569005.74	0.0144	0.0120 *

Earth	100887-04-06 04:18 G	38569375.43	38569375.68	38569375.94	0.0144	0.0013
Moon	100887-04-06 08:09 G	38569375.59	38569375.84	38569376.10	0.0144	0.0005 *
Moon	100888-04-10 02:52 G	38569745.43	38569745.62	38569745.83	0.0144	0.0087
Earth	100888-04-10 06:28 G	38569745.59	38569745.77	38569745.97	0.0144	0.0095 *
Venus	100891-07-05 15:50 G	38570927.06	38570927.16	38570927.28	0.0143	0.0123
Venus	100892-02-17 04:47 G	38571153.55	38571153.70	38571153.87	0.0143	0.0100
Venus	100892-09-30 17:30 G	38571380.05	38571380.23	38571380.42	0.0143	0.0078
Venus	100893-05-15 06:14 G	38571606.56	38571606.76	38571606.96	0.0143	0.0055
Venus	100893-12-27 18:28 G	38571833.06	38571833.27	38571833.49	0.0143	0.0033
Venus	100894-08-11 06:57 G	38572059.57	38572059.79	38572060.01	0.0143	0.0010
Venus	100895-03-25 19:11 G	38572286.08	38572286.30	38572286.52	0.0143	0.0012
Venus	100895-11-07 06:57 G	38572512.58	38572512.79	38572513.01	0.0142	0.0035
Venus	100896-06-20 18:42 G	38572739.08	38572739.28	38572739.49	0.0142	0.0056
Venus	100897-02-02 06:14 G	38572965.59	38572965.76	38572965.95	0.0142	0.0078
Venus	100897-09-16 17:30 G	38573192.09	38573192.23	38573192.40	0.0142	0.0100
Venus	100898-05-01 04:47 G	38573418.60	38573418.70	38573418.82	0.0142	0.0121
Venus	100898-12-13 15:35 G	38573645.15	38573645.15	38573645.18	0.0142	0.0142
Mars	100902-09-30 23:16 G	38575031.15	38575031.47	38575031.79	0.0140	0.0008
Mercury	100914-12-24 11:02 G	38579498.88	38579498.96	38579499.06	0.0136	0.0122
Mercury	100915-03-22 18:57 G	38579587.15	38579587.29	38579587.43	0.0136	0.0094
Mercury	100915-06-19 02:23 G	38579675.44	38579675.60	38579675.78	0.0136	0.0066
Mercury	100915-09-15 10:18 G	38579763.74	38579763.93	38579764.12	0.0136	0.0038
Mercury	100915-12-12 17:59 G	38579852.06	38579852.25	38579852.45	0.0136	0.0010
Mercury	100916-03-10 01:40 G	38579940.38	38579940.57	38579940.77	0.0136	0.0017
Mercury	100916-06-06 09:21 G	38580028.71	38580028.89	38580029.08	0.0136	0.0045
Mercury	100916-09-02 16:47 G	38580117.05	38580117.20	38580117.38	0.0136	0.0073
Mercury	100916-11-30 00:42 G	38580205.40	38580205.53	38580205.66	0.0136	0.0100
Mercury	100917-02-26 08:09 G	38580293.79	38580293.84	38580293.92	0.0136	0.0128
Earth	100928-10-04 15:35 G	38584531.93	38584532.15	38584532.37	0.0134	0.0062
Moon	100928-10-04 15:50 G	38584531.96	38584532.16	38584532.38	0.0134	0.0068 *

Moon	100929-10-08 20:52 G	38584901.12	38584901.37	38584901.63	0.0134	0.0030
Earth	100929-10-08 21:35 G	38584901.16	38584901.40	38584901.65	0.0134	0.0023 *
Moon	100930-10-13 03:35 G	38585270.50	38585270.65	38585270.81	0.0135	0.0102
Earth	100930-10-13 03:06 G	38585270.51	38585270.63	38585270.80	0.0135	0.0109 *
Venus	100933-08-23 18:42 G	38586316.22	38586316.28	38586316.38	0.0135	0.0125
Venus	100934-04-06 23:30 G	38586542.37	38586542.48	38586542.62	0.0135	0.0108
Venus	100934-11-19 04:33 G	38586768.54	38586768.69	38586768.86	0.0135	0.0090
Venus	100935-07-03 09:35 G	38586994.73	38586994.90	38586995.09	0.0135	0.0072
Venus	100936-02-14 14:38 G	38587220.92	38587221.11	38587221.31	0.0135	0.0054
Venus	100936-09-27 19:40 G	38587447.12	38587447.32	38587447.54	0.0135	0.0037
Venus	100937-05-12 00:57 G	38587673.33	38587673.54	38587673.76	0.0135	0.0018
Venus	100937-12-24 06:14 G	38587899.55	38587899.76	38587899.98	0.0135	0.0003
Venus	100938-08-07 11:45 G	38588125.78	38588125.99	38588126.21	0.0136	0.0019
Venus	100939-03-21 17:16 G	38588352.02	38588352.22	38588352.43	0.0136	0.0038
Venus	100939-11-02 22:47 G	38588578.26	38588578.45	38588578.65	0.0136	0.0056
Venus	100940-06-16 04:18 G	38588804.51	38588804.68	38588804.87	0.0136	0.0075
Venus	100941-01-28 10:18 G	38589030.78	38589030.93	38589031.09	0.0136	0.0094
Venus	100941-09-11 16:18 G	38589257.07	38589257.18	38589257.32	0.0136	0.0112
Venus	100942-04-25 22:33 G	38589483.39	38589483.44	38589483.52	0.0137	0.0131
Mars	100946-11-01 05:45 G	38591133.50	38591133.74	38591134.00	0.0138	0.0075
Mercury	100957-12-22 02:38 G	38595202.55	38595202.61	38595202.68	0.0142	0.0122
Mercury	100958-03-20 06:14 G	38595290.67	38595290.76	38595290.85	0.0142	0.0101
Mercury	100958-06-16 09:21 G	38595378.79	38595378.89	38595379.01	0.0142	0.0081
Mercury	100958-09-12 12:57 G	38595466.92	38595467.04	38595467.16	0.0142	0.0059
Mercury	100958-12-09 16:18 G	38595555.06	38595555.18	38595555.31	0.0142	0.0039
Mercury	100959-03-07 19:40 G	38595643.20	38595643.32	38595643.46	0.0142	0.0018
Mercury	100959-06-03 23:16 G	38595731.34	38595731.47	38595731.60	0.0142	0.0004
Mercury	100959-08-31 02:38 G	38595819.48	38595819.61	38595819.74	0.0142	0.0025
Mercury	100959-11-27 05:59 G	38595907.63	38595907.75	38595907.88	0.0142	0.0046
Mercury	100960-02-23 09:21 G	38595995.78	38595995.89	38595996.01	0.0142	0.0067

Mercury	100960-05-21 12:42 G	38596083.94	38596084.03	38596084.14	0.0142	0.0089
Mercury	100960-08-17 16:18 G	38596172.10	38596172.18	38596172.27	0.0142	0.0109
Mercury	100960-11-13 19:40 G	38596260.28	38596260.32	38596260.38	0.0142	0.0131
Moon	100970-04-02 11:16 G	38599686.82	38599686.97	38599687.14	0.0144	0.0109
Earth	100970-04-02 14:23 G	38599686.96	38599687.10	38599687.28	0.0144	0.0113 *
Earth	100971-04-07 17:02 G	38600056.95	38600057.21	38600057.47	0.0144	0.0005
Moon	100971-04-07 20:23 G	38600057.09	38600057.35	38600057.61	0.0144	0.0012 *
Moon	100972-04-11 15:21 G	38600426.99	38600427.14	38600427.32	0.0144	0.0111
Earth	100972-04-11 18:57 G	38600427.13	38600427.29	38600427.49	0.0144	0.0103 *
Venus	100975-03-05 23:59 G	38601485.41	38601485.50	38601485.59	0.0143	0.0130
Venus	100975-10-18 12:42 G	38601711.89	38601712.03	38601712.18	0.0143	0.0108
Venus	100976-06-01 01:26 G	38601938.39	38601938.56	38601938.75	0.0143	0.0086
Venus	100977-01-13 14:09 G	38602164.90	38602165.09	38602165.30	0.0143	0.0063
Venus	100977-08-28 03:06 G	38602391.41	38602391.63	38602391.84	0.0143	0.0040
Venus	100978-04-11 15:21 G	38602617.93	38602618.14	38602618.37	0.0143	0.0018
Venus	100978-11-24 03:35 G	38602844.43	38602844.65	38602844.88	0.0143	0.0006
Venus	100979-07-08 15:50 G	38603070.94	38603071.16	38603071.38	0.0143	0.0027
Venus	100980-02-20 03:35 G	38603297.45	38603297.65	38603297.87	0.0142	0.0049
Venus	100980-10-03 15:35 G	38603523.96	38603524.15	38603524.34	0.0142	0.0071
Venus	100981-05-18 02:52 G	38603750.46	38603750.62	38603750.79	0.0142	0.0092
Venus	100981-12-30 14:09 G	38603976.97	38603977.09	38603977.23	0.0142	0.0113
Venus	100982-08-14 01:11 G	38604203.49	38604203.55	38604203.63	0.0142	0.0134
Mercury	100999-01-13 19:40 G	38610200.22	38610200.32	38610200.45	0.0136	0.0109
Mercury	100999-04-12 03:21 G	38610288.50	38610288.64	38610288.81	0.0136	0.0082
Mercury	100999-07-09 11:16 G	38610376.80	38610376.97	38610377.16	0.0136	0.0054
Mercury	100999-10-05 18:57 G	38610465.10	38610465.29	38610465.49	0.0136	0.0026
Mercury	101000-01-02 02:52 G	38610553.42	38610553.62	38610553.81	0.0136	0.0003
Mercury	101000-03-31 10:18 G	38610641.75	38610641.93	38610642.13	0.0136	0.0030
Mercury	101000-06-27 17:59 G	38610730.08	38610730.25	38610730.44	0.0136	0.0058
Mercury	101000-09-24 01:40 G	38610818.43	38610818.57	38610818.73	0.0136	0.0085

Mercury 101000-12-21 09:06 G 38610906.79 38610906.88 38610907.01 0.0136 0.0113

102ND MILLENNIUM CE

This is a list of transits visible from Uranus in the 102nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	101012-10-06 05:16	G	38615213.50	38615213.72	38615213.96	0.0134	0.0055	
Moon	101012-10-06 06:42	G	38615213.56	38615213.78	38615214.01	0.0134	0.0050	*
Moon	101013-10-10 10:33	G	38615582.68	38615582.94	38615583.20	0.0134	0.0024	
Earth	101013-10-10 11:30	G	38615582.74	38615582.98	38615583.23	0.0134	0.0031	*
Earth	101014-10-14 17:16	G	38615952.11	38615952.22	38615952.36	0.0134	0.0116	
Moon	101014-10-14 18:57	G	38615952.19	38615952.29	38615952.39	0.0134	0.0123	*
Venus	101017-04-24 07:11	G	38616874.76	38616874.80	38616874.87	0.0135	0.0130	
Venus	101017-12-06 11:45	G	38617100.90	38617100.99	38617101.13	0.0135	0.0113	
Venus	101018-07-20 17:02	G	38617327.07	38617327.21	38617327.37	0.0135	0.0095	
Venus	101019-03-03 22:04	G	38617553.24	38617553.42	38617553.59	0.0135	0.0077	
Venus	101019-10-16 02:38	G	38617779.43	38617779.61	38617779.81	0.0135	0.0060	
Venus	101020-05-29 07:54	G	38618005.62	38618005.83	38618006.03	0.0135	0.0042	
Venus	101021-01-10 12:57	G	38618231.83	38618232.04	38618232.25	0.0135	0.0023	
Venus	101021-08-24 18:14	G	38618458.05	38618458.26	38618458.48	0.0135	0.0005	
Venus	101022-04-07 23:30	G	38618684.27	38618684.48	38618684.70	0.0135	0.0013	
Venus	101022-11-20 04:47	G	38618910.50	38618910.70	38618910.91	0.0136	0.0032	
Venus	101023-07-04 10:18	G	38619136.73	38619136.93	38619137.13	0.0136	0.0050	

Venus	101024-02-15 15:35 G	38619362.98	38619363.15	38619363.35	0.0136	0.0069
Venus	101024-09-28 21:35 G	38619589.25	38619589.40	38619589.58	0.0136	0.0087
Venus	101025-05-13 03:35 G	38619815.53	38619815.65	38619815.79	0.0136	0.0106
Venus	101025-12-25 09:50 G	38620041.83	38620041.91	38620042.00	0.0136	0.0124
Mars	101029-07-27 06:14 G	38621351.58	38621351.76	38621351.99	0.0137	0.0098
Mercury	101041-10-16 06:57 G	38625815.76	38625815.79	38625815.82	0.0142	0.0136
Mercury	101042-01-12 10:04 G	38625903.86	38625903.92	38625904.00	0.0142	0.0116
Mercury	101042-04-10 13:40 G	38625991.98	38625992.07	38625992.17	0.0142	0.0094
Mercury	101042-07-07 17:02 G	38626080.10	38626080.21	38626080.33	0.0142	0.0074
Mercury	101042-10-03 20:23 G	38626168.24	38626168.35	38626168.48	0.0142	0.0053
Mercury	101042-12-30 23:59 G	38626256.37	38626256.50	38626256.63	0.0142	0.0032
Mercury	101043-03-29 03:21 G	38626344.51	38626344.64	38626344.77	0.0142	0.0011
Mercury	101043-06-25 06:57 G	38626432.65	38626432.79	38626432.92	0.0142	0.0011
Mercury	101043-09-21 10:18 G	38626520.80	38626520.93	38626521.06	0.0142	0.0032
Mercury	101043-12-18 13:40 G	38626608.95	38626609.07	38626609.19	0.0142	0.0053
Mercury	101044-03-15 17:02 G	38626697.10	38626697.21	38626697.33	0.0142	0.0074
Mercury	101044-06-11 20:23 G	38626785.26	38626785.35	38626785.45	0.0142	0.0095
Mercury	101044-09-07 23:45 G	38626873.43	38626873.49	38626873.57	0.0142	0.0117
Mercury	101044-12-05 03:21 G	38626961.61	38626961.64	38626961.68	0.0142	0.0137
Moon	101054-04-04 00:28 G	38630368.37	38630368.52	38630368.70	0.0144	0.0108
Earth	101054-04-04 02:52 G	38630368.46	38630368.62	38630368.81	0.0144	0.0106 *
Earth	101055-04-09 05:30 G	38630738.47	38630738.73	38630738.99	0.0144	0.0002
Moon	101055-04-09 08:52 G	38630738.61	38630738.87	38630739.14	0.0144	0.0010 *
Moon	101056-04-13 05:02 G	38631108.53	38631108.71	38631108.89	0.0144	0.0102
Earth	101056-04-13 07:54 G	38631108.68	38631108.83	38631109.01	0.0144	0.0110 *
Venus	101058-11-04 07:11 G	38632043.74	38632043.80	38632043.87	0.0143	0.0137
Venus	101059-06-18 19:54 G	38632270.22	38632270.33	38632270.48	0.0143	0.0115
Venus	101060-01-31 09:06 G	38632496.72	38632496.88	38632497.06	0.0143	0.0093
Venus	101060-09-13 21:50 G	38632723.23	38632723.41	38632723.61	0.0143	0.0071
Venus	101061-04-28 10:33 G	38632949.74	38632949.94	38632950.16	0.0143	0.0048

Venus	101061-12-10 23:16 G	38633176.25	38633176.47	38633176.69	0.0143	0.0025
Venus	101062-07-25 11:30 G	38633402.76	38633402.98	38633403.20	0.0143	0.0004
Venus	101063-03-08 23:45 G	38633629.28	38633629.49	38633629.72	0.0143	0.0020
Venus	101063-10-21 11:45 G	38633855.79	38633855.99	38633856.21	0.0143	0.0042
Venus	101064-06-03 23:30 G	38634082.29	38634082.48	38634082.69	0.0142	0.0064
Venus	101065-01-16 11:02 G	38634308.80	38634308.96	38634309.15	0.0142	0.0085
Venus	101065-08-30 22:33 G	38634535.31	38634535.44	38634535.60	0.0142	0.0106
Venus	101066-04-14 10:04 G	38634761.84	38634761.92	38634762.03	0.0142	0.0127
Mars	101070-02-17 17:59 G	38636166.97	38636167.25	38636167.56	0.0141	0.0053
Mercury	101082-11-07 20:52 G	38640813.30	38640813.37	38640813.45	0.0136	0.0125
Mercury	101083-02-04 04:47 G	38640901.56	38640901.70	38640901.83	0.0136	0.0097
Mercury	101083-05-03 12:14 G	38640989.85	38640990.01	38640990.19	0.0136	0.0069
Mercury	101083-07-30 19:54 G	38641078.15	38641078.33	38641078.53	0.0136	0.0042
Mercury	101083-10-27 03:50 G	38641166.46	38641166.66	38641166.85	0.0136	0.0013
Mercury	101084-01-23 11:30 G	38641254.78	38641254.98	38641255.17	0.0136	0.0014
Mercury	101084-04-20 19:11 G	38641343.11	38641343.30	38641343.49	0.0136	0.0042
Mercury	101084-07-18 02:38 G	38641431.45	38641431.61	38641431.79	0.0136	0.0070
Mercury	101084-10-14 10:33 G	38641519.81	38641519.94	38641520.08	0.0136	0.0097
Mercury	101085-01-10 17:59 G	38641608.19	38641608.25	38641608.34	0.0136	0.0125
Moon	101095-10-03 11:45 G	38645525.92	38645525.99	38645526.07	0.0134	0.0129
Earth	101095-10-03 13:40 G	38645526.02	38645526.07	38645526.13	0.0134	0.0131 *
Earth	101096-10-06 19:26 G	38645895.09	38645895.31	38645895.56	0.0134	0.0046
Moon	101096-10-06 21:21 G	38645895.17	38645895.39	38645895.62	0.0134	0.0052 *
Moon	101097-10-10 23:30 G	38646264.24	38646264.48	38646264.73	0.0134	0.0045
Earth	101097-10-11 01:26 G	38646264.33	38646264.56	38646264.81	0.0134	0.0040 *
Earth	101098-10-15 07:11 G	38646633.73	38646633.80	38646633.92	0.0134	0.0124
Moon	101098-10-15 08:38 G	38646633.77	38646633.86	38646634.00	0.0134	0.0118 *
Venus	101100-12-23 19:54 G	38647433.33	38647433.33	38647433.35	0.0134	0.0134
Venus	101101-08-07 00:57 G	38647659.44	38647659.54	38647659.64	0.0135	0.0117
Venus	101102-03-21 05:30 G	38647885.59	38647885.73	38647885.88	0.0135	0.0100

Venus	101102-11-02 10:04 G	38648111.76	38648111.92	38648112.10	0.0135	0.0083
Venus	101103-06-16 14:52 G	38648337.94	38648338.12	38648338.32	0.0135	0.0065
Venus	101104-01-28 19:54 G	38648564.13	38648564.33	38648564.53	0.0135	0.0047
Venus	101104-09-11 00:57 G	38648790.33	38648790.54	38648790.75	0.0135	0.0029
Venus	101105-04-25 05:59 G	38649016.54	38649016.75	38649016.97	0.0135	0.0011
Venus	101105-12-07 11:16 G	38649242.75	38649242.97	38649243.18	0.0135	0.0008
Venus	101106-07-21 16:18 G	38649468.97	38649469.18	38649469.40	0.0135	0.0026
Venus	101107-03-04 21:50 G	38649695.21	38649695.41	38649695.61	0.0136	0.0044
Venus	101107-10-17 03:06 G	38649921.45	38649921.63	38649921.83	0.0136	0.0063
Venus	101108-05-30 08:38 G	38650147.70	38650147.86	38650148.05	0.0136	0.0081
Venus	101109-01-11 14:23 G	38650373.97	38650374.10	38650374.26	0.0136	0.0099
Venus	101109-08-25 20:38 G	38650600.26	38650600.36	38650600.47	0.0136	0.0117
Venus	101110-04-09 02:38 G	38650826.60	38650826.61	38650826.64	0.0136	0.0136
Mars	101114-03-22 23:59 G	38652270.22	38652270.50	38652270.80	0.0137	0.0017
Mercury	101125-11-06 13:54 G	38656517.04	38656517.08	38656517.13	0.0142	0.0132
Mercury	101126-02-02 17:16 G	38656605.15	38656605.22	38656605.31	0.0142	0.0111
Mercury	101126-05-01 20:52 G	38656693.27	38656693.37	38656693.47	0.0142	0.0090
Mercury	101126-07-29 00:14 G	38656781.40	38656781.51	38656781.63	0.0142	0.0069
Mercury	101126-10-25 03:50 G	38656869.53	38656869.66	38656869.78	0.0142	0.0048
Mercury	101127-01-21 07:11 G	38656957.67	38656957.80	38656957.93	0.0142	0.0027
Mercury	101127-04-19 10:33 G	38657045.81	38657045.94	38657046.07	0.0142	0.0006
Mercury	101127-07-16 13:54 G	38657133.95	38657134.08	38657134.21	0.0142	0.0015
Mercury	101127-10-12 17:16 G	38657222.10	38657222.22	38657222.35	0.0142	0.0037
Mercury	101128-01-08 20:52 G	38657310.25	38657310.37	38657310.49	0.0142	0.0057
Mercury	101128-04-06 00:14 G	38657398.40	38657398.51	38657398.62	0.0142	0.0078
Mercury	101128-07-03 03:35 G	38657486.56	38657486.65	38657486.75	0.0142	0.0099
Mercury	101128-09-29 06:57 G	38657574.73	38657574.79	38657574.87	0.0142	0.0121
Mercury	101128-12-26 10:33 G	38657662.93	38657662.94	38657662.95	0.0142	0.0142
Moon	101138-04-05 09:21 G	38661049.72	38661049.89	38661050.07	0.0144	0.0101
Earth	101138-04-05 11:16 G	38661049.80	38661049.97	38661050.16	0.0144	0.0102 *

Earth	101139-04-10 14:09 G	38661419.83	38661420.09	38661420.34	0.0144	0.0006
Moon	101139-04-10 16:18 G	38661419.92	38661420.18	38661420.45	0.0144	0.0003 *
Moon	101140-04-14 13:26 G	38661789.93	38661790.06	38661790.20	0.0144	0.0122
Earth	101140-04-14 16:33 G	38661790.04	38661790.19	38661790.36	0.0144	0.0114 *
Venus	101143-02-17 00:57 G	38662828.45	38662828.54	38662828.67	0.0144	0.0124
Venus	101143-10-01 14:09 G	38663054.94	38663055.09	38663055.25	0.0143	0.0102
Venus	101144-05-15 02:52 G	38663281.45	38663281.62	38663281.82	0.0143	0.0080
Venus	101144-12-27 15:35 G	38663507.96	38663508.15	38663508.37	0.0143	0.0058
Venus	101145-08-11 04:33 G	38663734.48	38663734.69	38663734.91	0.0143	0.0034
Venus	101146-03-25 17:16 G	38663961.00	38663961.22	38663961.44	0.0143	0.0012
Venus	101146-11-07 05:30 G	38664187.51	38664187.73	38664187.95	0.0143	0.0010
Venus	101147-06-21 17:30 G	38664414.02	38664414.23	38664414.45	0.0143	0.0033
Venus	101148-02-03 05:30 G	38664640.53	38664640.73	38664640.94	0.0143	0.0055
Venus	101148-09-16 17:16 G	38664867.04	38664867.22	38664867.42	0.0142	0.0076
Venus	101149-05-01 05:16 G	38665093.56	38665093.72	38665093.88	0.0142	0.0098
Venus	101149-12-13 16:18 G	38665320.08	38665320.18	38665320.31	0.0142	0.0119
Venus	101150-07-28 03:50 G	38665546.63	38665546.66	38665546.70	0.0142	0.0139
Mars	101154-10-15 12:28 G	38667086.77	38667087.02	38667087.30	0.0141	0.0082
Mercury	101166-11-29 04:47 G	38671514.61	38671514.70	38671514.82	0.0136	0.0115
Mercury	101167-02-25 12:42 G	38671602.89	38671603.03	38671603.19	0.0136	0.0087
Mercury	101167-05-24 20:38 G	38671691.19	38671691.36	38671691.54	0.0136	0.0058
Mercury	101167-08-21 04:18 G	38671779.49	38671779.68	38671779.87	0.0136	0.0031
Mercury	101167-11-17 11:59 G	38671867.81	38671868.00	38671868.20	0.0136	0.0004
Mercury	101168-02-13 19:40 G	38671956.13	38671956.32	38671956.52	0.0136	0.0025
Mercury	101168-05-12 03:21 G	38672044.47	38672044.64	38672044.83	0.0136	0.0053
Mercury	101168-08-08 11:16 G	38672132.81	38672132.97	38672133.12	0.0136	0.0080
Mercury	101168-11-04 18:42 G	38672221.17	38672221.28	38672221.41	0.0136	0.0108
Mercury	101169-02-01 02:23 G	38672309.60	38672309.60	38672309.62	0.0136	0.0136
Moon	101179-10-05 00:42 G	38676207.45	38676207.53	38676207.64	0.0134	0.0124
Earth	101179-10-05 03:35 G	38676207.56	38676207.65	38676207.76	0.0134	0.0123 *

Earth	101180-10-08 09:50 G	38676576.67	38676576.91	38676577.15	0.0134	0.0038
Moon	101180-10-08 12:14 G	38676576.78	38676577.01	38676577.25	0.0134	0.0034 *
Moon	101181-10-12 13:26 G	38676945.82	38676946.06	38676946.31	0.0134	0.0041
Earth	101181-10-12 15:50 G	38676945.93	38676946.16	38676946.39	0.0134	0.0048 *
Earth	101182-10-16 21:35 G	38677315.37	38677315.40	38677315.45	0.0134	0.0132
Venus	101185-04-06 13:11 G	38678217.98	38678218.05	38678218.16	0.0135	0.0123
Venus	101185-11-18 18:14 G	38678444.13	38678444.26	38678444.39	0.0135	0.0105
Venus	101186-07-02 22:33 G	38678670.29	38678670.44	38678670.62	0.0135	0.0088
Venus	101187-02-14 03:35 G	38678896.47	38678896.65	38678896.83	0.0135	0.0070
Venus	101187-09-28 08:09 G	38679122.66	38679122.84	38679123.05	0.0135	0.0053
Venus	101188-05-11 13:11 G	38679348.85	38679349.05	38679349.26	0.0135	0.0035
Venus	101188-12-23 18:14 G	38679575.05	38679575.26	38679575.47	0.0135	0.0017
Venus	101189-08-06 23:16 G	38679801.26	38679801.47	38679801.69	0.0135	0.0003
Venus	101190-03-21 04:33 G	38680027.48	38680027.69	38680027.90	0.0135	0.0020
Venus	101190-11-02 09:50 G	38680253.70	38680253.91	38680254.12	0.0135	0.0038
Venus	101191-06-16 14:52 G	38680479.94	38680480.12	38680480.33	0.0136	0.0057
Venus	101192-01-28 20:23 G	38680706.19	38680706.35	38680706.54	0.0136	0.0075
Venus	101192-09-11 02:23 G	38680932.45	38680932.60	38680932.76	0.0136	0.0093
Venus	101193-04-25 08:09 G	38681158.73	38681158.84	38681158.98	0.0136	0.0111
Venus	101193-12-07 14:09 G	38681385.04	38681385.09	38681385.17	0.0136	0.0129
Mars	101198-11-15 20:09 G	38683189.32	38683189.34	38683189.42	0.0138	0.0136
Mercury	101209-11-26 21:35 G	38687218.34	38687218.40	38687218.46	0.0141	0.0125
Mercury	101210-02-23 00:57 G	38687306.46	38687306.54	38687306.63	0.0142	0.0104
Mercury	101210-05-22 04:18 G	38687394.58	38687394.68	38687394.79	0.0142	0.0084
Mercury	101210-08-18 07:40 G	38687482.71	38687482.82	38687482.95	0.0142	0.0063
Mercury	101210-11-14 11:16 G	38687570.85	38687570.97	38687571.10	0.0142	0.0042
Mercury	101211-02-10 14:38 G	38687658.98	38687659.11	38687659.24	0.0142	0.0021
Mercury	101211-05-09 18:14 G	38687747.13	38687747.26	38687747.39	0.0142	0.0004
Mercury	101211-08-05 21:35 G	38687835.27	38687835.40	38687835.53	0.0142	0.0021
Mercury	101211-11-02 00:57 G	38687923.42	38687923.54	38687923.67	0.0142	0.0042

Mercury	101212-01-29 04:18 G	38688011.57	38688011.68	38688011.80	0.0142	0.0063
Mercury	101212-04-26 07:40 G	38688099.72	38688099.82	38688099.93	0.0142	0.0085
Mercury	101212-07-23 11:16 G	38688187.88	38688187.97	38688188.06	0.0142	0.0105
Mercury	101212-10-19 14:38 G	38688276.05	38688276.11	38688276.17	0.0142	0.0127
Moon	101222-04-05 20:38 G	38691731.19	38691731.36	38691731.56	0.0144	0.0097
Earth	101222-04-05 22:04 G	38691731.23	38691731.42	38691731.61	0.0144	0.0096 *
Earth	101223-04-11 00:28 G	38692101.26	38692101.52	38692101.78	0.0144	0.0012
Moon	101223-04-11 02:38 G	38692101.35	38692101.61	38692101.88	0.0144	0.0017 *
Moon	101224-04-15 00:42 G	38692471.39	38692471.53	38692471.69	0.0144	0.0113
Earth	101224-04-15 02:52 G	38692471.49	38692471.62	38692471.77	0.0144	0.0120 *
Venus	101226-10-17 06:57 G	38693386.70	38693386.79	38693386.87	0.0144	0.0132
Venus	101227-05-31 19:26 G	38693613.19	38693613.31	38693613.47	0.0144	0.0111
Venus	101228-01-13 08:52 G	38693839.70	38693839.87	38693840.05	0.0143	0.0088
Venus	101228-08-26 21:35 G	38694066.21	38694066.40	38694066.60	0.0143	0.0066
Venus	101229-04-10 10:18 G	38694292.72	38694292.93	38694293.15	0.0143	0.0043
Venus	101229-11-22 22:47 G	38694519.24	38694519.45	38694519.68	0.0143	0.0021
Venus	101230-07-07 11:16 G	38694745.75	38694745.97	38694746.20	0.0143	0.0003
Venus	101231-02-18 23:45 G	38694972.27	38694972.49	38694972.71	0.0143	0.0024
Venus	101231-10-03 11:45 G	38695198.79	38695198.99	38695199.20	0.0143	0.0046
Venus	101232-05-16 23:30 G	38695425.30	38695425.48	38695425.69	0.0143	0.0068
Venus	101232-12-29 11:16 G	38695651.81	38695651.97	38695652.15	0.0142	0.0089
Venus	101233-08-12 23:02 G	38695878.33	38695878.46	38695878.61	0.0142	0.0110
Venus	101234-03-27 10:33 G	38696104.87	38696104.94	38696105.04	0.0142	0.0131
Mars	101237-07-06 17:30 G	38697302.13	38697302.23	38697302.36	0.0141	0.0131
Mercury	101250-09-22 04:47 G	38702127.68	38702127.70	38702127.76	0.0137	0.0134
Mercury	101250-12-19 12:42 G	38702215.92	38702216.03	38702216.16	0.0137	0.0106
Mercury	101251-03-17 20:23 G	38702304.20	38702304.35	38702304.52	0.0136	0.0078
Mercury	101251-06-14 04:18 G	38702392.50	38702392.68	38702392.87	0.0136	0.0050
Mercury	101251-09-10 12:14 G	38702480.81	38702481.01	38702481.20	0.0136	0.0022
Mercury	101251-12-07 19:54 G	38702569.13	38702569.33	38702569.53	0.0136	0.0006

Mercury	101252-03-05 03:35 G	38702657.46	38702657.65	38702657.84	0.0136	0.0034
Mercury	101252-06-01 11:02 G	38702745.80	38702745.96	38702746.15	0.0136	0.0063
Mercury	101252-08-28 18:42 G	38702834.15	38702834.28	38702834.44	0.0136	0.0090
Mercury	101252-11-25 02:38 G	38702922.52	38702922.61	38702922.71	0.0136	0.0117
Moon	101263-10-05 13:54 G	38706888.97	38706889.08	38706889.24	0.0134	0.0115
Earth	101263-10-05 17:16 G	38706889.10	38706889.22	38706889.35	0.0134	0.0115 *
Earth	101264-10-08 23:16 G	38707258.23	38707258.47	38707258.72	0.0134	0.0030
Moon	101264-10-09 01:54 G	38707258.35	38707258.58	38707258.83	0.0134	0.0035 *
Moon	101265-10-13 02:23 G	38707627.38	38707627.60	38707627.84	0.0134	0.0061
Earth	101265-10-13 05:30 G	38707627.51	38707627.73	38707627.96	0.0134	0.0056 *
Moon	101266-10-17 13:54 G	38707997.07	38707997.08	38707997.11	0.0134	0.0134
Venus	101268-12-05 01:40 G	38708776.52	38708776.57	38708776.66	0.0135	0.0128
Venus	101269-07-19 06:28 G	38709002.66	38709002.77	38709002.90	0.0135	0.0111
Venus	101270-03-02 11:30 G	38709228.82	38709228.98	38709229.13	0.0135	0.0093
Venus	101270-10-14 15:50 G	38709454.99	38709455.16	38709455.35	0.0135	0.0076
Venus	101271-05-28 20:38 G	38709681.17	38709681.36	38709681.56	0.0135	0.0058
Venus	101272-01-10 01:26 G	38709907.36	38709907.56	38709907.77	0.0135	0.0041
Venus	101272-08-23 06:28 G	38710133.56	38710133.77	38710133.99	0.0135	0.0023
Venus	101273-04-06 11:30 G	38710359.77	38710359.98	38710360.20	0.0135	0.0005
Venus	101273-11-18 16:33 G	38710585.98	38710586.19	38710586.41	0.0135	0.0014
Venus	101274-07-02 21:50 G	38710812.20	38710812.41	38710812.62	0.0135	0.0032
Venus	101275-02-14 03:06 G	38711038.43	38711038.63	38711038.83	0.0135	0.0050
Venus	101275-09-28 08:23 G	38711264.68	38711264.85	38711265.05	0.0136	0.0069
Venus	101276-05-11 14:09 G	38711490.94	38711491.09	38711491.27	0.0136	0.0087
Venus	101276-12-23 19:40 G	38711717.21	38711717.32	38711717.48	0.0136	0.0105
Venus	101277-08-07 01:40 G	38711943.50	38711943.57	38711943.68	0.0136	0.0123
Mars	101281-08-09 23:59 G	38713407.23	38713407.50	38713407.80	0.0137	0.0037
Mercury	101293-09-20 01:40 G	38717831.56	38717831.57	38717831.60	0.0141	0.0139
Mercury	101293-12-17 05:02 G	38717919.65	38717919.71	38717919.79	0.0141	0.0119
Mercury	101294-03-15 08:38 G	38718007.77	38718007.86	38718007.95	0.0141	0.0098

Mercury	101294-06-11 11:59 G	38718095.89	38718096.00	38718096.11	0.0142	0.0077
Mercury	101294-09-07 15:21 G	38718184.02	38718184.14	38718184.26	0.0142	0.0056
Mercury	101294-12-04 18:42 G	38718272.16	38718272.28	38718272.41	0.0142	0.0036
Mercury	101295-03-02 22:18 G	38718360.30	38718360.43	38718360.56	0.0142	0.0015
Mercury	101295-05-30 01:40 G	38718448.44	38718448.57	38718448.70	0.0142	0.0007
Mercury	101295-08-26 05:02 G	38718536.58	38718536.71	38718536.84	0.0142	0.0028
Mercury	101295-11-22 08:23 G	38718624.73	38718624.85	38718624.98	0.0142	0.0049
Mercury	101296-02-18 11:59 G	38718712.88	38718713.00	38718713.11	0.0142	0.0069
Mercury	101296-05-16 15:21 G	38718801.04	38718801.14	38718801.24	0.0142	0.0090
Mercury	101296-08-12 18:42 G	38718889.20	38718889.28	38718889.36	0.0142	0.0111
Mercury	101296-11-08 22:04 G	38718977.38	38718977.42	38718977.47	0.0142	0.0132
Moon	101306-04-07 06:57 G	38722412.62	38722412.79	38722413.00	0.0144	0.0091
Earth	101306-04-07 07:54 G	38722412.65	38722412.83	38722413.05	0.0144	0.0091 *
Earth	101307-04-12 10:47 G	38722782.70	38722782.95	38722783.21	0.0144	0.0018
Moon	101307-04-12 11:59 G	38722782.74	38722783.00	38722783.27	0.0144	0.0014 *
Moon	101308-04-16 10:33 G	38723152.87	38723152.94	38723153.05	0.0144	0.0134
Earth	101308-04-16 13:11 G	38723152.94	38723153.05	38723153.18	0.0144	0.0126 *
Venus	101310-06-17 11:59 G	38723944.97	38723945.00	38723945.05	0.0144	0.0141
Venus	101311-01-30 01:11 G	38724171.44	38724171.55	38724171.68	0.0144	0.0119
Venus	101311-09-13 14:09 G	38724397.94	38724398.09	38724398.26	0.0144	0.0097
Venus	101312-04-27 03:06 G	38724624.44	38724624.63	38724624.82	0.0143	0.0075
Venus	101312-12-09 15:50 G	38724850.95	38724851.16	38724851.37	0.0143	0.0052
Venus	101313-07-24 04:18 G	38725077.47	38725077.68	38725077.90	0.0143	0.0030
Venus	101314-03-07 17:02 G	38725303.99	38725304.21	38725304.43	0.0143	0.0008
Venus	101314-10-20 05:16 G	38725530.51	38725530.72	38725530.95	0.0143	0.0015
Venus	101315-06-03 17:30 G	38725757.02	38725757.23	38725757.45	0.0143	0.0037
Venus	101316-01-16 05:30 G	38725983.54	38725983.73	38725983.94	0.0143	0.0059
Venus	101316-08-29 17:16 G	38726210.05	38726210.22	38726210.42	0.0143	0.0081
Venus	101317-04-13 05:16 G	38726436.58	38726436.72	38726436.88	0.0142	0.0102
Venus	101317-11-25 17:02 G	38726663.11	38726663.21	38726663.33	0.0142	0.0122

Mars	101322-03-03 14:38 G	38728221.79	38728222.11	38728222.44	0.0141	0.0006
Mercury	101334-10-13 12:28 G	38732828.96	38732829.02	38732829.12	0.0137	0.0125
Mercury	101335-01-09 20:23 G	38732917.22	38732917.35	38732917.50	0.0137	0.0097
Mercury	101335-04-08 04:18 G	38733005.52	38733005.68	38733005.85	0.0136	0.0069
Mercury	101335-07-05 11:59 G	38733093.82	38733094.00	38733094.19	0.0136	0.0041
Mercury	101335-10-01 19:54 G	38733182.13	38733182.33	38733182.52	0.0136	0.0013
Mercury	101335-12-29 03:35 G	38733270.46	38733270.65	38733270.85	0.0136	0.0015
Mercury	101336-03-26 11:16 G	38733358.79	38733358.97	38733359.16	0.0136	0.0043
Mercury	101336-06-22 18:42 G	38733447.13	38733447.28	38733447.46	0.0136	0.0072
Mercury	101336-09-19 02:38 G	38733535.48	38733535.61	38733535.75	0.0136	0.0099
Mercury	101336-12-16 10:18 G	38733623.87	38733623.93	38733624.01	0.0136	0.0126
Moon	101347-10-07 03:21 G	38737570.49	38737570.64	38737570.79	0.0134	0.0108
Earth	101347-10-07 06:14 G	38737570.63	38737570.76	38737570.93	0.0134	0.0108 *
Earth	101348-10-10 12:57 G	38737939.79	38737940.04	38737940.29	0.0134	0.0022
Moon	101348-10-10 15:50 G	38737939.92	38737940.16	38737940.40	0.0134	0.0018 *
Moon	101349-10-14 16:04 G	38738308.95	38738309.17	38738309.41	0.0134	0.0057
Earth	101349-10-14 19:11 G	38738309.08	38738309.30	38738309.52	0.0134	0.0064 *
Venus	101352-08-05 14:23 G	38739335.08	38739335.10	38739335.15	0.0135	0.0133
Venus	101353-03-19 18:57 G	38739561.20	38739561.29	38739561.41	0.0135	0.0116
Venus	101353-10-31 23:30 G	38739787.35	38739787.48	38739787.64	0.0135	0.0099
Venus	101354-06-15 04:04 G	38740013.52	38740013.67	38740013.85	0.0135	0.0082
Venus	101355-01-27 08:52 G	38740239.69	38740239.87	38740240.07	0.0135	0.0064
Venus	101355-09-10 13:54 G	38740465.88	38740466.08	38740466.29	0.0135	0.0046
Venus	101356-04-23 18:42 G	38740692.08	38740692.28	38740692.50	0.0135	0.0029
Venus	101356-12-05 23:45 G	38740918.28	38740918.49	38740918.71	0.0135	0.0011
Venus	101357-07-20 04:47 G	38741144.49	38741144.70	38741144.92	0.0135	0.0008
Venus	101358-03-03 10:04 G	38741370.71	38741370.92	38741371.13	0.0135	0.0026
Venus	101358-10-15 15:21 G	38741596.94	38741597.14	38741597.35	0.0135	0.0044
Venus	101359-05-29 20:52 G	38741823.18	38741823.37	38741823.56	0.0136	0.0062
Venus	101360-01-11 02:23 G	38742049.43	38742049.60	38742049.77	0.0136	0.0080

Venus	101360-08-24 08:23 G	38742275.70	38742275.85	38742275.99	0.0136	0.0098
Venus	101361-04-07 14:09 G	38742501.98	38742502.09	38742502.20	0.0136	0.0116
Venus	101361-11-19 19:54 G	38742728.31	38742728.33	38742728.38	0.0136	0.0134
Mars	101366-04-05 20:09 G	38744326.13	38744326.34	38744326.60	0.0137	0.0084
Jupiter	101375-07-26 05:30 G	38747724.23	38747724.73	38747725.26	0.0141	0.0014
Mercury	101377-10-11 09:50 G	38748532.86	38748532.91	38748532.96	0.0141	0.0130
Mercury	101378-01-07 13:11 G	38748620.97	38748621.05	38748621.13	0.0141	0.0110
Mercury	101378-04-05 16:33 G	38748709.09	38748709.19	38748709.29	0.0141	0.0089
Mercury	101378-07-02 19:54 G	38748797.22	38748797.33	38748797.45	0.0142	0.0068
Mercury	101378-09-28 23:16 G	38748885.35	38748885.47	38748885.60	0.0142	0.0048
Mercury	101378-12-26 02:52 G	38748973.49	38748973.62	38748973.75	0.0142	0.0027
Mercury	101379-03-24 06:14 G	38749061.63	38749061.76	38749061.89	0.0142	0.0006
Mercury	101379-06-20 09:35 G	38749149.77	38749149.90	38749150.03	0.0142	0.0015
Mercury	101379-09-16 12:57 G	38749237.92	38749238.04	38749238.17	0.0142	0.0036
Mercury	101379-12-13 16:18 G	38749326.07	38749326.18	38749326.31	0.0142	0.0057
Mercury	101380-03-10 19:40 G	38749414.22	38749414.32	38749414.44	0.0142	0.0078
Mercury	101380-06-06 23:02 G	38749502.38	38749502.46	38749502.56	0.0142	0.0099
Mercury	101380-09-03 02:23 G	38749590.54	38749590.60	38749590.68	0.0142	0.0121
Mercury	101380-11-30 05:59 G	38749678.74	38749678.75	38749678.77	0.0142	0.0141
Moon	101390-04-07 22:33 G	38753094.24	38753094.44	38753094.65	0.0144	0.0081
Earth	101390-04-07 22:47 G	38753094.25	38753094.45	38753094.68	0.0144	0.0081 *
Earth	101391-04-13 01:26 G	38753464.31	38753464.56	38753464.81	0.0144	0.0028
Moon	101391-04-13 02:52 G	38753464.37	38753464.62	38753464.89	0.0144	0.0033 *
Moon	101392-04-17 02:23 G	38753834.49	38753834.60	38753834.71	0.0144	0.0129
Earth	101392-04-17 03:50 G	38753834.59	38753834.66	38753834.75	0.0144	0.0136 *
Venus	101394-09-29 09:21 G	38754729.80	38754729.89	38754730.00	0.0144	0.0126
Venus	101395-05-13 22:04 G	38754956.29	38754956.42	38754956.59	0.0144	0.0105
Venus	101395-12-26 11:02 G	38755182.79	38755182.96	38755183.15	0.0143	0.0083
Venus	101396-08-08 23:45 G	38755409.30	38755409.49	38755409.71	0.0143	0.0061
Venus	101397-03-23 12:57 G	38755635.82	38755636.04	38755636.25	0.0143	0.0038

Venus	101397-11-05 01:26 G	38755862.34	38755862.56	38755862.78	0.0143	0.0016
Venus	101398-06-19 13:40 G	38756088.85	38756089.07	38756089.30	0.0143	0.0007
Venus	101399-02-01 01:54 G	38756315.37	38756315.58	38756315.80	0.0143	0.0029
Venus	101399-09-15 14:09 G	38756541.89	38756542.09	38756542.30	0.0143	0.0051
Venus	101400-04-30 02:09 G	38756768.41	38756768.59	38756768.79	0.0143	0.0073
Venus	101400-12-12 14:09 G	38756994.92	38756995.09	38756995.25	0.0142	0.0094
Venus	101401-07-27 01:54 G	38757221.45	38757221.58	38757221.71	0.0142	0.0115
Venus	101402-03-10 13:11 G	38757448.00	38757448.05	38757448.13	0.0142	0.0136
Mercury	101418-11-03 21:06 G	38763530.27	38763530.38	38763530.48	0.0137	0.0114
Mercury	101419-01-31 04:33 G	38763618.55	38763618.69	38763618.85	0.0137	0.0086
Mercury	101419-04-29 12:14 G	38763706.85	38763707.01	38763707.20	0.0136	0.0059
Mercury	101419-07-26 20:09 G	38763795.15	38763795.34	38763795.54	0.0136	0.0030
Mercury	101419-10-23 04:04 G	38763883.47	38763883.67	38763883.86	0.0136	0.0003
Mercury	101420-01-19 11:45 G	38763971.80	38763971.99	38763972.18	0.0136	0.0025
Mercury	101420-04-16 19:26 G	38764060.13	38764060.31	38764060.49	0.0136	0.0053
Mercury	101420-07-14 02:52 G	38764148.48	38764148.62	38764148.79	0.0136	0.0082
Mercury	101420-10-10 10:33 G	38764236.84	38764236.94	38764237.07	0.0136	0.0109
Moon	101431-10-08 17:16 G	38768252.05	38768252.22	38768252.39	0.0134	0.0099
Earth	101431-10-08 20:09 G	38768252.18	38768252.34	38768252.52	0.0134	0.0100 *
Earth	101432-10-12 02:23 G	38768621.36	38768621.60	38768621.86	0.0134	0.0014
Moon	101432-10-12 05:45 G	38768621.49	38768621.74	38768621.98	0.0134	0.0019 *
Moon	101433-10-16 05:16 G	38768990.53	38768990.72	38768990.94	0.0134	0.0077
Earth	101433-10-16 08:38 G	38768990.66	38768990.86	38768991.08	0.0134	0.0072 *
Venus	101436-11-18 07:26 G	38770119.73	38770119.81	38770119.92	0.0135	0.0121
Venus	101437-07-02 11:59 G	38770345.88	38770346.00	38770346.15	0.0135	0.0104
Venus	101438-02-13 16:33 G	38770572.04	38770572.19	38770572.37	0.0135	0.0087
Venus	101438-09-27 21:35 G	38770798.22	38770798.40	38770798.59	0.0135	0.0069
Venus	101439-05-12 02:09 G	38771024.40	38771024.59	38771024.80	0.0135	0.0052
Venus	101439-12-24 07:11 G	38771250.59	38771250.80	38771251.01	0.0135	0.0034
Venus	101440-08-06 12:14 G	38771476.80	38771477.01	38771477.22	0.0135	0.0016

Venus	101441-03-20 17:16 G	38771703.01	38771703.22	38771703.43	0.0135	0.0002
Venus	101441-11-01 22:18 G	38771929.22	38771929.43	38771929.65	0.0135	0.0020
Venus	101442-06-16 03:21 G	38772155.45	38772155.64	38772155.86	0.0135	0.0039
Venus	101443-01-28 08:38 G	38772381.68	38772381.86	38772382.07	0.0136	0.0057
Venus	101443-09-11 14:38 G	38772607.93	38772608.11	38772608.29	0.0136	0.0074
Venus	101444-04-24 20:23 G	38772834.19	38772834.35	38772834.51	0.0136	0.0092
Venus	101444-12-07 01:54 G	38773060.47	38773060.58	38773060.72	0.0136	0.0110
Venus	101445-07-21 07:40 G	38773286.77	38773286.82	38773286.91	0.0136	0.0128
Mars	101448-12-30 04:33 G	38774544.48	38774544.69	38774544.93	0.0137	0.0086
Mercury	101461-11-01 17:16 G	38779234.17	38779234.22	38779234.30	0.0141	0.0124
Mercury	101462-01-28 20:52 G	38779322.29	38779322.37	38779322.47	0.0141	0.0102
Mercury	101462-04-27 00:14 G	38779410.41	38779410.51	38779410.62	0.0141	0.0082
Mercury	101462-07-24 03:50 G	38779498.54	38779498.66	38779498.78	0.0142	0.0061
Mercury	101462-10-20 07:11 G	38779586.67	38779586.80	38779586.93	0.0142	0.0040
Mercury	101463-01-16 10:33 G	38779674.81	38779674.94	38779675.07	0.0142	0.0019
Mercury	101463-04-14 13:54 G	38779762.95	38779763.08	38779763.21	0.0142	0.0004
Mercury	101463-07-11 17:16 G	38779851.10	38779851.22	38779851.35	0.0142	0.0023
Mercury	101463-10-07 20:38 G	38779939.24	38779939.36	38779939.49	0.0142	0.0044
Mercury	101464-01-04 00:14 G	38780027.39	38780027.51	38780027.62	0.0142	0.0064
Mercury	101464-04-01 03:35 G	38780115.55	38780115.65	38780115.75	0.0142	0.0085
Mercury	101464-06-28 06:57 G	38780203.71	38780203.79	38780203.88	0.0142	0.0106
Mercury	101464-09-24 10:18 G	38780291.88	38780291.93	38780291.99	0.0142	0.0127
Moon	101474-04-09 11:45 G	38783775.78	38783775.99	38783776.21	0.0144	0.0073
Earth	101474-04-09 11:59 G	38783775.79	38783776.00	38783776.23	0.0144	0.0073 *
Earth	101475-04-14 14:38 G	38784145.86	38784146.11	38784146.36	0.0144	0.0036
Moon	101475-04-14 15:21 G	38784145.88	38784146.14	38784146.40	0.0144	0.0032 *
Venus	101478-05-30 17:02 G	38785288.13	38785288.21	38785288.29	0.0144	0.0133
Venus	101479-01-12 05:30 G	38785514.61	38785514.73	38785514.89	0.0144	0.0112
Venus	101479-08-26 18:42 G	38785741.12	38785741.28	38785741.46	0.0143	0.0090
Venus	101480-04-09 07:40 G	38785967.63	38785967.82	38785968.02	0.0143	0.0067

Venus	101480-11-21 20:23 G	38786194.14	38786194.35	38786194.56	0.0143	0.0045
Venus	101481-07-06 09:06 G	38786420.66	38786420.88	38786421.10	0.0143	0.0023
Venus	101482-02-17 21:50 G	38786647.18	38786647.41	38786647.63	0.0143	0.0003
Venus	101482-10-02 10:04 G	38786873.70	38786873.92	38786874.14	0.0143	0.0021
Venus	101483-05-16 22:18 G	38787100.22	38787100.43	38787100.64	0.0143	0.0043
Venus	101483-12-29 10:18 G	38787326.74	38787326.93	38787327.13	0.0143	0.0065
Venus	101484-08-11 22:04 G	38787553.26	38787553.42	38787553.61	0.0143	0.0087
Venus	101485-03-26 10:04 G	38787779.79	38787779.92	38787780.08	0.0142	0.0108
Venus	101485-11-07 21:50 G	38788006.33	38788006.41	38788006.52	0.0142	0.0128
Mars	101489-07-21 00:57 G	38789357.27	38789357.54	38789357.86	0.0141	0.0062
Mercury	101502-08-28 21:21 G	38794143.35	38794143.39	38794143.46	0.0137	0.0131
Mercury	101502-11-25 05:16 G	38794231.60	38794231.72	38794231.85	0.0137	0.0103
Mercury	101503-02-21 13:11 G	38794319.89	38794320.05	38794320.21	0.0137	0.0075
Mercury	101503-05-20 20:38 G	38794408.19	38794408.36	38794408.55	0.0136	0.0048
Mercury	101503-08-17 04:33 G	38794496.50	38794496.69	38794496.89	0.0136	0.0019
Mercury	101503-11-13 12:14 G	38794584.82	38794585.01	38794585.21	0.0136	0.0009
Mercury	101504-02-09 19:54 G	38794673.15	38794673.33	38794673.53	0.0136	0.0037
Mercury	101504-05-08 03:35 G	38794761.49	38794761.65	38794761.83	0.0136	0.0064
Mercury	101504-08-04 11:16 G	38794849.84	38794849.97	38794850.12	0.0136	0.0092
Mercury	101504-10-31 19:11 G	38794938.21	38794938.30	38794938.39	0.0136	0.0119
Moon	101515-10-10 06:28 G	38798933.59	38798933.77	38798933.96	0.0134	0.0093
Earth	101515-10-10 09:35 G	38798933.74	38798933.90	38798934.10	0.0134	0.0093 *
Earth	101516-10-13 16:18 G	38799302.93	38799303.18	38799303.43	0.0134	0.0006
Moon	101516-10-13 19:26 G	38799303.06	38799303.31	38799303.56	0.0134	0.0003 *
Moon	101517-10-17 19:11 G	38799672.09	38799672.30	38799672.52	0.0134	0.0073
Earth	101517-10-17 22:18 G	38799672.24	38799672.43	38799672.64	0.0134	0.0080 *
Venus	101520-07-19 20:23 G	38800678.27	38800678.35	38800678.43	0.0135	0.0125
Venus	101521-03-03 00:28 G	38800904.41	38800904.52	38800904.66	0.0135	0.0109
Venus	101521-10-15 05:02 G	38801130.57	38801130.71	38801130.88	0.0135	0.0092
Venus	101522-05-29 10:04 G	38801356.74	38801356.92	38801357.10	0.0135	0.0074

Venus	101523-01-10 14:38 G	38801582.92	38801583.11	38801583.31	0.0135	0.0057
Venus	101523-08-24 19:40 G	38801809.11	38801809.32	38801809.52	0.0135	0.0039
Venus	101524-04-07 00:28 G	38802035.31	38802035.52	38802035.73	0.0135	0.0022
Venus	101524-11-19 05:30 G	38802261.51	38802261.73	38802261.94	0.0135	0.0004
Venus	101525-07-03 10:33 G	38802487.73	38802487.94	38802488.15	0.0135	0.0014
Venus	101526-02-14 15:35 G	38802713.95	38802714.15	38802714.37	0.0135	0.0032
Venus	101526-09-28 21:06 G	38802940.19	38802940.38	38802940.58	0.0135	0.0050
Venus	101527-05-13 02:23 G	38803166.43	38803166.60	38803166.80	0.0136	0.0069
Venus	101527-12-25 08:09 G	38803392.68	38803392.84	38803393.01	0.0136	0.0086
Venus	101528-08-07 13:54 G	38803618.95	38803619.08	38803619.22	0.0136	0.0104
Venus	101529-03-21 19:26 G	38803845.24	38803845.31	38803845.42	0.0136	0.0122
Mars	101533-08-25 23:16 G	38805463.20	38805463.47	38805463.77	0.0137	0.0032
Mercury	101545-08-26 22:04 G	38809847.38	38809847.42	38809847.45	0.0141	0.0136
Mercury	101545-11-23 01:11 G	38809935.48	38809935.55	38809935.63	0.0141	0.0115
Mercury	101546-02-19 04:47 G	38810023.60	38810023.70	38810023.80	0.0141	0.0095
Mercury	101546-05-18 08:09 G	38810111.73	38810111.84	38810111.95	0.0142	0.0074
Mercury	101546-08-14 11:30 G	38810199.86	38810199.98	38810200.10	0.0142	0.0053
Mercury	101546-11-10 14:52 G	38810288.00	38810288.12	38810288.25	0.0142	0.0033
Mercury	101547-02-06 18:28 G	38810376.14	38810376.27	38810376.40	0.0142	0.0012
Mercury	101547-05-05 21:50 G	38810464.28	38810464.41	38810464.54	0.0142	0.0010
Mercury	101547-08-02 01:11 G	38810552.42	38810552.55	38810552.68	0.0142	0.0030
Mercury	101547-10-29 04:33 G	38810640.57	38810640.69	38810640.81	0.0142	0.0051
Mercury	101548-01-25 07:54 G	38810728.72	38810728.83	38810728.95	0.0142	0.0072
Mercury	101548-04-22 11:16 G	38810816.88	38810816.97	38810817.07	0.0142	0.0093
Mercury	101548-07-19 14:38 G	38810905.04	38810905.11	38810905.19	0.0142	0.0114
Mercury	101548-10-15 17:59 G	38810993.22	38810993.25	38810993.30	0.0142	0.0135
Earth	101558-04-11 02:23 G	38814457.37	38814457.60	38814457.83	0.0144	0.0064
Moon	101558-04-11 02:23 G	38814457.39	38814457.60	38814457.83	0.0144	0.0064 *
Earth	101559-04-16 04:33 G	38814827.45	38814827.69	38814827.94	0.0144	0.0045
Moon	101559-04-16 05:30 G	38814827.49	38814827.73	38814827.99	0.0144	0.0050 *

Venus	101562-01-29 00:42 G	38815846.49	38815846.53	38815846.59	0.0144	0.0140
Venus	101562-09-12 14:09 G	38816072.96	38816073.09	38816073.21	0.0144	0.0118
Venus	101563-04-27 02:38 G	38816299.47	38816299.61	38816299.79	0.0144	0.0097
Venus	101563-12-09 15:35 G	38816525.98	38816526.15	38816526.36	0.0143	0.0075
Venus	101564-07-23 04:33 G	38816752.50	38816752.69	38816752.91	0.0143	0.0053
Venus	101565-03-06 17:30 G	38816979.02	38816979.23	38816979.46	0.0143	0.0031
Venus	101565-10-19 06:28 G	38817205.54	38817205.77	38817205.99	0.0143	0.0008
Venus	101566-06-02 18:57 G	38817432.07	38817432.29	38817432.51	0.0143	0.0014
Venus	101567-01-15 07:11 G	38817658.59	38817658.80	38817659.02	0.0143	0.0036
Venus	101567-08-29 19:26 G	38817885.11	38817885.31	38817885.52	0.0143	0.0058
Venus	101568-04-12 07:26 G	38818111.64	38818111.81	38818112.01	0.0143	0.0080
Venus	101568-11-24 19:26 G	38818338.17	38818338.31	38818338.48	0.0142	0.0101
Venus	101569-07-09 07:11 G	38818564.70	38818564.80	38818564.93	0.0142	0.0121
Venus	101570-02-20 19:11 G	38818791.28	38818791.30	38818791.32	0.0142	0.0141
Mars	101574-03-18 08:09 G	38820277.58	38820277.84	38820278.10	0.0141	0.0085
Jupiter	101583-05-12 11:30 G	38823619.78	38823619.98	38823620.23	0.0138	0.0124
Mercury	101586-09-18 05:59 G	38824844.67	38824844.75	38824844.86	0.0137	0.0119
Mercury	101586-12-15 13:54 G	38824932.94	38824933.08	38824933.23	0.0137	0.0091
Mercury	101587-03-13 21:50 G	38825021.24	38825021.41	38825021.58	0.0137	0.0063
Mercury	101587-06-10 05:30 G	38825109.54	38825109.73	38825109.92	0.0136	0.0035
Mercury	101587-09-06 13:11 G	38825197.86	38825198.05	38825198.25	0.0136	0.0008
Mercury	101587-12-03 20:52 G	38825286.18	38825286.37	38825286.57	0.0136	0.0021
Mercury	101588-03-01 04:33 G	38825374.51	38825374.69	38825374.88	0.0136	0.0049
Mercury	101588-05-28 12:14 G	38825462.86	38825463.01	38825463.18	0.0136	0.0076
Mercury	101588-08-24 20:09 G	38825551.21	38825551.34	38825551.46	0.0136	0.0104
Mercury	101588-11-21 03:35 G	38825639.61	38825639.65	38825639.71	0.0136	0.0131
Moon	101599-10-10 20:38 G	38829615.18	38829615.36	38829615.58	0.0134	0.0084
Earth	101599-10-10 23:59 G	38829615.32	38829615.50	38829615.71	0.0134	0.0085 *
Earth	101600-10-14 06:28 G	38829984.51	38829984.77	38829985.02	0.0134	0.0003
Moon	101600-10-14 09:50 G	38829984.66	38829984.91	38829985.16	0.0134	0.0003 *

Moon	101601-10-18 08:38 G	38830353.70	38830353.86	38830354.06	0.0134	0.0094
Earth	101601-10-18 12:14 G	38830353.83	38830354.01	38830354.21	0.0134	0.0088 *
Venus	101604-03-19 08:38 G	38831236.82	38831236.86	38831236.93	0.0134	0.0130
Venus	101604-10-31 13:26 G	38831462.95	38831463.06	38831463.18	0.0135	0.0113
Venus	101605-06-14 17:59 G	38831689.10	38831689.25	38831689.40	0.0135	0.0096
Venus	101606-01-26 22:18 G	38831915.27	38831915.43	38831915.61	0.0135	0.0079
Venus	101606-09-10 03:06 G	38832141.45	38832141.63	38832141.83	0.0135	0.0062
Venus	101607-04-24 07:40 G	38832367.63	38832367.82	38832368.04	0.0135	0.0045
Venus	101607-12-06 12:42 G	38832593.82	38832594.03	38832594.24	0.0135	0.0027
Venus	101608-07-19 17:45 G	38832820.03	38832820.24	38832820.45	0.0135	0.0009
Venus	101609-03-02 22:47 G	38833046.24	38833046.45	38833046.66	0.0135	0.0009
Venus	101609-10-15 03:50 G	38833272.46	38833272.66	38833272.88	0.0135	0.0027
Venus	101610-05-29 09:06 G	38833498.68	38833498.88	38833499.09	0.0135	0.0045
Venus	101611-01-10 14:23 G	38833724.92	38833725.10	38833725.30	0.0135	0.0063
Venus	101611-08-24 19:54 G	38833951.17	38833951.33	38833951.51	0.0136	0.0081
Venus	101612-04-07 01:40 G	38834177.43	38834177.57	38834177.72	0.0136	0.0098
Venus	101612-11-19 07:11 G	38834403.70	38834403.80	38834403.92	0.0136	0.0116
Venus	101613-07-03 13:11 G	38834630.02	38834630.05	38834630.09	0.0136	0.0133
Mercury	101629-09-16 05:16 G	38840548.68	38840548.72	38840548.77	0.0141	0.0130
Mercury	101629-12-13 08:38 G	38840636.78	38840636.86	38840636.95	0.0141	0.0110
Mercury	101630-03-11 11:59 G	38840724.91	38840725.00	38840725.11	0.0141	0.0089
Mercury	101630-06-07 15:21 G	38840813.03	38840813.14	38840813.26	0.0142	0.0069
Mercury	101630-09-03 18:57 G	38840901.17	38840901.29	38840901.41	0.0142	0.0048
Mercury	101630-11-30 22:18 G	38840989.30	38840989.43	38840989.56	0.0142	0.0027
Mercury	101631-02-27 01:40 G	38841077.44	38841077.57	38841077.70	0.0142	0.0007
Mercury	101631-05-26 05:02 G	38841165.58	38841165.71	38841165.84	0.0142	0.0015
Mercury	101631-08-22 08:23 G	38841253.73	38841253.85	38841253.98	0.0142	0.0036
Mercury	101631-11-18 11:59 G	38841341.88	38841342.00	38841342.12	0.0142	0.0056
Mercury	101632-02-14 15:21 G	38841430.03	38841430.14	38841430.25	0.0142	0.0077
Mercury	101632-05-12 18:42 G	38841518.19	38841518.28	38841518.37	0.0142	0.0098

Mercury	101632-08-08 22:04 G	38841606.35	38841606.42	38841606.49	0.0142	0.0119
Mercury	101632-11-05 01:26 G	38841694.55	38841694.56	38841694.59	0.0142	0.0140
Earth	101642-04-11 12:14 G	38845138.78	38845139.01	38845139.25	0.0144	0.0059
Moon	101642-04-11 12:28 G	38845138.80	38845139.02	38845139.26	0.0144	0.0060 *
Moon	101643-04-16 14:38 G	38845508.86	38845509.11	38845509.36	0.0144	0.0046
Earth	101643-04-16 14:23 G	38845508.87	38845509.10	38845509.35	0.0144	0.0050 *
Venus	101646-05-12 19:26 G	38846631.20	38846631.31	38846631.41	0.0144	0.0126
Venus	101646-12-25 08:09 G	38846857.70	38846857.84	38846858.00	0.0144	0.0105
Venus	101647-08-08 21:21 G	38847084.21	38847084.39	38847084.58	0.0144	0.0083
Venus	101648-03-22 10:18 G	38847310.74	38847310.93	38847311.14	0.0143	0.0061
Venus	101648-11-03 23:16 G	38847537.26	38847537.47	38847537.69	0.0143	0.0038
Venus	101649-06-18 11:59 G	38847763.78	38847764.00	38847764.23	0.0143	0.0016
Venus	101650-01-31 00:42 G	38847990.31	38847990.53	38847990.76	0.0143	0.0007
Venus	101650-09-14 13:11 G	38848216.84	38848217.05	38848217.27	0.0143	0.0028
Venus	101651-04-29 01:40 G	38848443.37	38848443.57	38848443.78	0.0143	0.0050
Venus	101651-12-11 13:40 G	38848669.89	38848670.07	38848670.28	0.0143	0.0072
Venus	101652-07-25 01:54 G	38848896.42	38848896.58	38848896.76	0.0143	0.0093
Venus	101653-03-08 13:54 G	38849122.96	38849123.08	38849123.23	0.0142	0.0114
Venus	101653-10-21 01:26 G	38849349.51	38849349.56	38849349.66	0.0142	0.0135
Mars	101656-12-07 07:26 G	38850492.72	38850492.81	38850492.93	0.0141	0.0134
Mercury	101670-07-12 06:28 G	38855457.77	38855457.77	38855457.80	0.0137	0.0137
Mercury	101670-10-08 14:09 G	38855545.99	38855546.09	38855546.22	0.0137	0.0109
Mercury	101671-01-04 22:04 G	38855634.27	38855634.42	38855634.58	0.0137	0.0081
Mercury	101671-04-03 05:59 G	38855722.57	38855722.75	38855722.93	0.0137	0.0053
Mercury	101671-06-30 13:40 G	38855810.88	38855811.07	38855811.26	0.0137	0.0025
Mercury	101671-09-26 21:21 G	38855899.20	38855899.39	38855899.59	0.0137	0.0003
Mercury	101671-12-24 05:02 G	38855987.52	38855987.71	38855987.90	0.0136	0.0031
Mercury	101672-03-21 12:42 G	38856075.86	38856076.03	38856076.21	0.0136	0.0059
Mercury	101672-06-17 20:09 G	38856164.20	38856164.34	38856164.51	0.0136	0.0087
Mercury	101672-09-14 04:18 G	38856252.57	38856252.68	38856252.78	0.0136	0.0114

Moon	101683-10-11 10:18 G	38860296.72	38860296.93	38860297.14	0.0134	0.0077
Earth	101683-10-11 13:40 G	38860296.88	38860297.07	38860297.29	0.0134	0.0076 *
Earth	101684-10-14 19:54 G	38860666.08	38860666.33	38860666.59	0.0134	0.0010
Moon	101684-10-14 23:16 G	38860666.23	38860666.47	38860666.72	0.0134	0.0014 *
Moon	101685-10-18 22:18 G	38861035.25	38861035.43	38861035.63	0.0134	0.0089
Earth	101685-10-19 01:54 G	38861035.41	38861035.58	38861035.76	0.0134	0.0096 *
Venus	101687-11-17 21:21 G	38861795.39	38861795.39	38861795.41	0.0134	0.0134
Venus	101688-07-01 01:40 G	38862021.48	38862021.57	38862021.68	0.0134	0.0118
Venus	101689-02-12 06:14 G	38862247.63	38862247.76	38862247.91	0.0134	0.0101
Venus	101689-09-26 10:47 G	38862473.79	38862473.95	38862474.12	0.0135	0.0084
Venus	101690-05-10 15:21 G	38862699.96	38862700.14	38862700.33	0.0135	0.0067
Venus	101690-12-22 20:09 G	38862926.15	38862926.34	38862926.54	0.0135	0.0049
Venus	101691-08-06 00:57 G	38863152.34	38863152.54	38863152.76	0.0135	0.0032
Venus	101692-03-19 05:59 G	38863378.54	38863378.75	38863378.96	0.0135	0.0014
Venus	101692-10-31 11:02 G	38863604.74	38863604.96	38863605.17	0.0135	0.0004
Venus	101693-06-14 16:04 G	38863830.95	38863831.17	38863831.38	0.0135	0.0021
Venus	101694-01-26 20:52 G	38864057.18	38864057.37	38864057.59	0.0135	0.0040
Venus	101694-09-10 02:38 G	38864283.41	38864283.61	38864283.80	0.0135	0.0057
Venus	101695-04-24 07:40 G	38864509.65	38864509.82	38864510.01	0.0135	0.0075
Venus	101695-12-06 12:57 G	38864735.90	38864736.04	38864736.22	0.0135	0.0093
Venus	101696-07-19 18:42 G	38864962.17	38864962.28	38864962.42	0.0136	0.0110
Venus	101697-03-03 00:28 G	38865188.46	38865188.52	38865188.60	0.0136	0.0127
Mars	101701-01-14 00:28 G	38866600.24	38866600.52	38866600.81	0.0137	0.0026
Mercury	101713-10-07 12:42 G	38871249.97	38871250.03	38871250.09	0.0141	0.0125
Mercury	101714-01-03 16:04 G	38871338.09	38871338.17	38871338.26	0.0141	0.0104
Mercury	101714-04-01 19:26 G	38871426.21	38871426.31	38871426.42	0.0141	0.0084
Mercury	101714-06-28 22:47 G	38871514.34	38871514.45	38871514.57	0.0141	0.0063
Mercury	101714-09-25 02:09 G	38871602.47	38871602.59	38871602.72	0.0142	0.0043
Mercury	101714-12-22 05:45 G	38871690.61	38871690.74	38871690.87	0.0142	0.0022
Mercury	101715-03-20 09:06 G	38871778.75	38871778.88	38871779.01	0.0142	0.0001

Mercury	101715-06-16 12:28 G	38871866.89	38871867.02	38871867.15	0.0142	0.0020
Mercury	101715-09-12 15:50 G	38871955.04	38871955.16	38871955.29	0.0142	0.0041
Mercury	101715-12-09 19:11 G	38872043.19	38872043.30	38872043.42	0.0142	0.0062
Mercury	101716-03-06 22:33 G	38872131.34	38872131.44	38872131.55	0.0142	0.0083
Mercury	101716-06-03 02:09 G	38872219.50	38872219.59	38872219.68	0.0142	0.0103
Mercury	101716-08-30 05:30 G	38872307.67	38872307.73	38872307.79	0.0142	0.0124
Earth	101726-04-12 21:50 G	38875820.18	38875820.41	38875820.65	0.0144	0.0054
Moon	101726-04-12 22:33 G	38875820.23	38875820.44	38875820.69	0.0144	0.0054 *
Moon	101727-04-18 00:14 G	38876190.27	38876190.51	38876190.75	0.0144	0.0059
Earth	101727-04-17 23:59 G	38876190.27	38876190.50	38876190.75	0.0144	0.0055 *
Venus	101730-01-11 00:28 G	38877189.45	38877189.52	38877189.60	0.0144	0.0134
Venus	101730-08-25 13:26 G	38877415.94	38877416.06	38877416.21	0.0144	0.0113
Venus	101731-04-09 02:38 G	38877642.45	38877642.61	38877642.79	0.0144	0.0091
Venus	101731-11-21 15:50 G	38877868.97	38877869.16	38877869.36	0.0143	0.0069
Venus	101732-07-05 04:47 G	38878095.49	38878095.70	38878095.91	0.0143	0.0047
Venus	101733-02-16 17:45 G	38878322.03	38878322.24	38878322.46	0.0143	0.0025
Venus	101733-10-01 06:42 G	38878548.56	38878548.78	38878549.00	0.0143	0.0003
Venus	101734-05-15 19:11 G	38878775.08	38878775.30	38878775.52	0.0143	0.0020
Venus	101734-12-28 07:40 G	38879001.61	38879001.82	38879002.04	0.0143	0.0041
Venus	101735-08-11 19:54 G	38879228.14	38879228.33	38879228.54	0.0143	0.0063
Venus	101736-03-25 08:09 G	38879454.68	38879454.84	38879455.03	0.0143	0.0085
Venus	101736-11-06 20:09 G	38879681.21	38879681.34	38879681.51	0.0143	0.0106
Venus	101737-06-21 08:09 G	38879907.75	38879907.84	38879907.95	0.0142	0.0126
Mars	101741-08-04 05:59 G	38881412.43	38881412.75	38881413.08	0.0141	0.0006
Mercury	101754-08-02 14:09 G	38886159.04	38886159.09	38886159.17	0.0137	0.0128
Mercury	101754-10-29 22:04 G	38886247.30	38886247.42	38886247.56	0.0137	0.0100
Mercury	101755-01-26 05:45 G	38886335.59	38886335.74	38886335.92	0.0137	0.0072
Mercury	101755-04-24 13:40 G	38886423.89	38886424.07	38886424.26	0.0137	0.0044
Mercury	101755-07-21 21:21 G	38886512.20	38886512.39	38886512.59	0.0137	0.0016
Mercury	101755-10-18 05:16 G	38886600.52	38886600.72	38886600.91	0.0137	0.0012

Mercury	101756-01-14 12:42 G	38886688.85	38886689.03	38886689.23	0.0137	0.0040
Mercury	101756-04-11 20:23 G	38886777.19	38886777.35	38886777.53	0.0136	0.0068
Mercury	101756-07-09 04:04 G	38886865.54	38886865.67	38886865.82	0.0136	0.0095
Mercury	101756-10-05 11:59 G	38886953.92	38886954.00	38886954.08	0.0136	0.0123
Moon	101767-10-12 23:30 G	38890978.28	38890978.48	38890978.71	0.0134	0.0067
Earth	101767-10-13 02:52 G	38890978.42	38890978.62	38890978.85	0.0134	0.0069 *
Earth	101768-10-16 09:21 G	38891347.64	38891347.89	38891348.14	0.0134	0.0018
Moon	101768-10-16 12:57 G	38891347.79	38891348.04	38891348.29	0.0134	0.0013 *
Moon	101769-10-20 11:16 G	38891716.85	38891716.97	38891717.14	0.0134	0.0110
Earth	101769-10-20 14:52 G	38891716.98	38891717.12	38891717.30	0.0134	0.0104 *
Venus	101772-03-01 14:09 G	38892580.02	38892580.09	38892580.19	0.0134	0.0123
Venus	101772-10-13 18:42 G	38892806.16	38892806.28	38892806.42	0.0134	0.0106
Venus	101773-05-27 23:16 G	38893032.32	38893032.47	38893032.63	0.0135	0.0089
Venus	101774-01-09 03:50 G	38893258.49	38893258.66	38893258.85	0.0135	0.0072
Venus	101774-08-23 08:38 G	38893484.67	38893484.86	38893485.06	0.0135	0.0055
Venus	101775-04-06 13:26 G	38893710.86	38893711.06	38893711.27	0.0135	0.0037
Venus	101775-11-18 18:14 G	38893937.05	38893937.26	38893937.48	0.0135	0.0020
Venus	101776-07-01 23:16 G	38894163.25	38894163.47	38894163.68	0.0135	0.0002
Venus	101777-02-13 04:04 G	38894389.46	38894389.67	38894389.89	0.0135	0.0016
Venus	101777-09-27 09:21 G	38894615.69	38894615.89	38894616.10	0.0135	0.0033
Venus	101778-05-11 14:23 G	38894841.91	38894842.10	38894842.31	0.0135	0.0051
Venus	101778-12-23 19:40 G	38895068.15	38895068.32	38895068.51	0.0135	0.0069
Venus	101779-08-07 00:57 G	38895294.39	38895294.54	38895294.72	0.0135	0.0087
Venus	101780-03-20 06:42 G	38895520.65	38895520.78	38895520.92	0.0136	0.0104
Venus	101780-11-01 11:59 G	38895746.93	38895747.00	38895747.11	0.0136	0.0122
Mars	101785-09-08 17:02 G	38897519.00	38897519.21	38897519.44	0.0137	0.0089
Mercury	101797-07-31 16:47 G	38901863.18	38901863.20	38901863.22	0.0141	0.0139
Mercury	101797-10-27 19:54 G	38901951.27	38901951.33	38901951.41	0.0141	0.0119
Mercury	101798-01-23 23:30 G	38902039.39	38902039.48	38902039.57	0.0141	0.0098
Mercury	101798-04-22 02:52 G	38902127.51	38902127.62	38902127.73	0.0141	0.0078

Mercury	101798-07-19 06:14 G	38902215.64	38902215.76	38902215.88	0.0141	0.0057
Mercury	101798-10-15 09:35 G	38902303.78	38902303.90	38902304.03	0.0141	0.0037
Mercury	101799-01-11 12:57 G	38902391.91	38902392.04	38902392.18	0.0141	0.0017
Mercury	101799-04-09 16:33 G	38902480.06	38902480.19	38902480.32	0.0142	0.0006
Mercury	101799-07-06 19:54 G	38902568.20	38902568.33	38902568.46	0.0142	0.0025
Mercury	101799-10-02 23:16 G	38902656.35	38902656.47	38902656.59	0.0142	0.0046
Mercury	101799-12-30 02:38 G	38902744.50	38902744.61	38902744.73	0.0142	0.0067
Mercury	101800-03-28 05:59 G	38902832.65	38902832.75	38902832.85	0.0142	0.0088
Mercury	101800-06-24 09:21 G	38902920.81	38902920.89	38902920.98	0.0142	0.0109
Mercury	101800-09-20 12:57 G	38903008.99	38903009.04	38903009.09	0.0142	0.0129
Earth	101810-04-14 05:59 G	38906501.52	38906501.75	38906502.00	0.0144	0.0050
Moon	101810-04-14 07:26 G	38906501.58	38906501.81	38906502.05	0.0144	0.0051 *
Moon	101811-04-19 06:57 G	38906871.56	38906871.79	38906872.05	0.0144	0.0056
Earth	101811-04-19 07:54 G	38906871.61	38906871.83	38906872.08	0.0144	0.0059 *
Venus	101813-09-11 04:18 G	38907747.67	38907747.68	38907747.72	0.0144	0.0143
Venus	101814-04-25 17:30 G	38907974.13	38907974.23	38907974.36	0.0144	0.0122
Venus	101814-12-08 06:42 G	38908200.63	38908200.78	38908200.95	0.0144	0.0100
Venus	101815-07-22 19:54 G	38908427.15	38908427.33	38908427.52	0.0143	0.0078
Venus	101816-03-05 08:52 G	38908653.68	38908653.87	38908654.08	0.0143	0.0056
Venus	101816-10-17 21:50 G	38908880.20	38908880.41	38908880.63	0.0143	0.0034
Venus	101817-06-01 10:47 G	38909106.73	38909106.95	38909107.17	0.0143	0.0012
Venus	101818-01-13 23:30 G	38909333.26	38909333.48	38909333.70	0.0143	0.0010
Venus	101818-08-28 11:59 G	38909559.79	38909560.00	38909560.22	0.0143	0.0032
Venus	101819-04-12 00:28 G	38909786.32	38909786.52	38909786.73	0.0143	0.0054
Venus	101819-11-24 12:42 G	38910012.85	38910013.03	38910013.23	0.0143	0.0075
Venus	101820-07-08 00:57 G	38910239.38	38910239.54	38910239.71	0.0143	0.0096
Venus	101821-02-19 12:57 G	38910465.92	38910466.04	38910466.17	0.0143	0.0117
Venus	101821-10-04 00:28 G	38910692.48	38910692.52	38910692.60	0.0142	0.0137
Mars	101826-03-31 21:35 G	38912332.38	38912332.40	38912332.48	0.0141	0.0139
Mercury	101838-08-23 21:06 G	38916860.31	38916860.38	38916860.48	0.0137	0.0122

Mercury	101838-11-20 05:02 G	38916948.57	38916948.71	38916948.85	0.0137	0.0094
Mercury	101839-02-16 12:42 G	38917036.87	38917037.03	38917037.21	0.0137	0.0066
Mercury	101839-05-15 20:38 G	38917125.17	38917125.36	38917125.55	0.0137	0.0038
Mercury	101839-08-12 04:18 G	38917213.49	38917213.68	38917213.88	0.0137	0.0010
Mercury	101839-11-08 11:59 G	38917301.81	38917302.00	38917302.20	0.0137	0.0018
Mercury	101840-02-04 19:40 G	38917390.14	38917390.32	38917390.51	0.0137	0.0046
Mercury	101840-05-03 03:21 G	38917478.49	38917478.64	38917478.81	0.0137	0.0074
Mercury	101840-07-30 11:02 G	38917566.84	38917566.96	38917567.10	0.0136	0.0102
Mercury	101840-10-26 18:42 G	38917655.23	38917655.28	38917655.35	0.0136	0.0129
Moon	101851-10-14 11:30 G	38921659.76	38921659.98	38921660.20	0.0135	0.0062
Earth	101851-10-14 15:06 G	38921659.91	38921660.13	38921660.36	0.0135	0.0062 *
Earth	101852-10-17 21:21 G	38922029.14	38922029.39	38922029.64	0.0135	0.0025
Moon	101852-10-18 00:42 G	38922029.29	38922029.53	38922029.78	0.0135	0.0029 *
Moon	101853-10-21 23:45 G	38922398.34	38922398.49	38922398.65	0.0135	0.0104
Earth	101853-10-22 03:21 G	38922398.51	38922398.64	38922398.79	0.0135	0.0111 *
Venus	101855-11-01 02:09 G	38923138.54	38923138.59	38923138.66	0.0135	0.0128
Venus	101856-06-14 06:28 G	38923364.67	38923364.77	38923364.90	0.0135	0.0112
Venus	101857-01-26 11:02 G	38923590.82	38923590.96	38923591.12	0.0135	0.0095
Venus	101857-09-09 15:50 G	38923817.00	38923817.16	38923817.35	0.0135	0.0078
Venus	101858-04-23 20:38 G	38924043.18	38924043.36	38924043.56	0.0135	0.0061
Venus	101858-12-06 01:26 G	38924269.36	38924269.56	38924269.77	0.0135	0.0043
Venus	101859-07-20 06:14 G	38924495.56	38924495.76	38924495.98	0.0135	0.0026
Venus	101860-03-02 11:16 G	38924721.76	38924721.97	38924722.18	0.0135	0.0008
Venus	101860-10-14 16:18 G	38924947.96	38924948.18	38924948.39	0.0135	0.0009
Venus	101861-05-28 21:06 G	38925174.18	38925174.38	38925174.60	0.0135	0.0027
Venus	101862-01-10 02:23 G	38925400.40	38925400.60	38925400.80	0.0135	0.0045
Venus	101862-08-24 07:26 G	38925626.63	38925626.81	38925627.01	0.0135	0.0063
Venus	101863-04-07 12:42 G	38925852.87	38925853.03	38925853.22	0.0135	0.0080
Venus	101863-11-19 18:14 G	38926079.12	38926079.26	38926079.42	0.0136	0.0098
Venus	101864-07-02 23:45 G	38926305.39	38926305.49	38926305.61	0.0136	0.0115

Venus	101865-02-14 05:30 G	38926531.69	38926531.73	38926531.78	0.0136	0.0132
Mars	101868-06-04 04:04 G	38927737.46	38927737.67	38927737.92	0.0137	0.0081
Mercury	101881-08-22 00:28 G	38932564.48	38932564.52	38932564.56	0.0141	0.0132
Mercury	101881-11-18 03:50 G	38932652.58	38932652.66	38932652.74	0.0141	0.0112
Mercury	101882-02-14 07:11 G	38932740.70	38932740.80	38932740.90	0.0141	0.0091
Mercury	101882-05-13 10:33 G	38932828.83	38932828.94	38932829.06	0.0141	0.0071
Mercury	101882-08-09 13:54 G	38932916.96	38932917.08	38932917.21	0.0141	0.0051
Mercury	101882-11-05 17:16 G	38933005.10	38933005.22	38933005.35	0.0141	0.0030
Mercury	101883-02-01 20:38 G	38933093.23	38933093.36	38933093.50	0.0141	0.0011
Mercury	101883-05-01 00:14 G	38933181.38	38933181.51	38933181.64	0.0141	0.0012
Mercury	101883-07-28 03:35 G	38933269.52	38933269.65	38933269.77	0.0142	0.0032
Mercury	101883-10-24 06:42 G	38933357.67	38933357.78	38933357.91	0.0142	0.0054
Mercury	101884-01-20 10:18 G	38933445.82	38933445.93	38933446.04	0.0142	0.0074
Mercury	101884-04-17 13:40 G	38933533.98	38933534.07	38933534.17	0.0142	0.0095
Mercury	101884-07-14 17:02 G	38933622.14	38933622.21	38933622.29	0.0142	0.0116
Mercury	101884-10-10 20:38 G	38933710.32	38933710.36	38933710.39	0.0142	0.0136
Earth	101894-04-14 17:45 G	38937183.00	38937183.24	38937183.49	0.0144	0.0043
Moon	101894-04-14 19:54 G	38937183.09	38937183.33	38937183.57	0.0144	0.0041 *
Moon	101895-04-19 18:28 G	38937553.04	38937553.27	38937553.51	0.0144	0.0069
Earth	101895-04-19 19:40 G	38937553.10	38937553.32	38937553.56	0.0144	0.0066 *
Venus	101897-12-23 23:30 G	38938532.41	38938532.48	38938532.60	0.0144	0.0130
Venus	101898-08-07 12:57 G	38938758.91	38938759.04	38938759.20	0.0144	0.0108
Venus	101899-03-22 02:09 G	38938985.42	38938985.59	38938985.78	0.0143	0.0086
Venus	101899-11-03 15:06 G	38939211.95	38939212.13	38939212.34	0.0143	0.0065
Venus	101900-06-18 04:18 G	38939438.47	38939438.68	38939438.89	0.0143	0.0042
Venus	101901-01-30 17:16 G	38939665.00	38939665.22	38939665.44	0.0143	0.0020
Venus	101901-09-14 05:59 G	38939891.53	38939891.75	38939891.97	0.0143	0.0001
Venus	101902-04-28 18:42 G	38940118.06	38940118.28	38940118.49	0.0143	0.0023
Venus	101902-12-11 06:57 G	38940344.58	38940344.79	38940345.01	0.0143	0.0045
Venus	101903-07-25 19:26 G	38940571.11	38940571.31	38940571.50	0.0143	0.0066

Venus	101904-03-08 07:26 G	38940797.65	38940797.81	38940798.00	0.0143	0.0088
Venus	101904-10-20 19:26 G	38941024.18	38941024.31	38941024.47	0.0143	0.0108
Venus	101905-06-04 07:11 G	38941250.72	38941250.80	38941250.91	0.0142	0.0129
Mars	101908-12-21 17:59 G	38942546.99	38942547.25	38942547.53	0.0141	0.0082
Mercury	101922-09-14 04:18 G	38947561.59	38947561.68	38947561.80	0.0137	0.0115
Mercury	101922-12-11 11:59 G	38947649.86	38947650.00	38947650.16	0.0137	0.0087
Mercury	101923-03-09 19:54 G	38947738.16	38947738.33	38947738.51	0.0137	0.0059
Mercury	101923-06-06 03:50 G	38947826.47	38947826.66	38947826.85	0.0137	0.0031
Mercury	101923-09-02 11:30 G	38947914.79	38947914.98	38947915.18	0.0137	0.0004
Mercury	101923-11-29 19:11 G	38948003.11	38948003.30	38948003.50	0.0137	0.0025
Mercury	101924-02-26 03:06 G	38948091.45	38948091.63	38948091.81	0.0137	0.0053
Mercury	101924-05-24 10:47 G	38948179.80	38948179.95	38948180.11	0.0137	0.0081
Mercury	101924-08-20 18:28 G	38948268.16	38948268.27	38948268.39	0.0136	0.0109
Mercury	101924-11-17 02:23 G	38948356.60	38948356.60	38948356.60	0.0136	0.0136
Moon	101935-10-15 23:45 G	38952341.26	38952341.49	38952341.72	0.0135	0.0055
Earth	101935-10-16 02:52 G	38952341.40	38952341.62	38952341.86	0.0135	0.0056 *
Earth	101936-10-19 09:06 G	38952710.65	38952710.88	38952711.14	0.0135	0.0032
Moon	101936-10-19 12:57 G	38952710.80	38952711.04	38952711.30	0.0135	0.0028 *
Moon	101937-10-23 11:45 G	38953079.91	38953079.99	38953080.11	0.0135	0.0123
Earth	101937-10-23 15:06 G	38953080.03	38953080.13	38953080.27	0.0135	0.0118 *
Venus	101939-07-02 14:09 G	38953697.06	38953697.09	38953697.12	0.0135	0.0133
Venus	101940-02-13 18:28 G	38953923.18	38953923.27	38953923.39	0.0135	0.0117
Venus	101940-09-26 23:16 G	38954149.33	38954149.47	38954149.62	0.0135	0.0100
Venus	101941-05-11 03:50 G	38954375.50	38954375.66	38954375.84	0.0135	0.0083
Venus	101941-12-23 08:38 G	38954601.68	38954601.86	38954602.05	0.0135	0.0066
Venus	101942-08-06 13:26 G	38954827.87	38954828.06	38954828.26	0.0135	0.0049
Venus	101943-03-20 18:14 G	38955054.06	38955054.26	38955054.47	0.0135	0.0032
Venus	101943-11-01 23:16 G	38955280.26	38955280.47	38955280.68	0.0135	0.0014
Venus	101944-06-15 04:04 G	38955506.46	38955506.67	38955506.89	0.0135	0.0004
Venus	101945-01-27 09:06 G	38955732.67	38955732.88	38955733.09	0.0135	0.0021

Venus	101945-09-10 14:23 G	38955958.89	38955959.10	38955959.30	0.0135	0.0039
Venus	101946-04-24 19:11 G	38956185.12	38956185.30	38956185.51	0.0135	0.0057
Venus	101946-12-07 00:42 G	38956411.35	38956411.53	38956411.71	0.0135	0.0074
Venus	101947-07-21 05:45 G	38956637.60	38956637.74	38956637.91	0.0136	0.0092
Venus	101948-03-03 11:16 G	38956863.85	38956863.97	38956864.11	0.0136	0.0109
Venus	101948-10-15 17:02 G	38957090.14	38957090.21	38957090.30	0.0136	0.0126
Mars	101953-01-28 20:09 G	38958656.06	38958656.34	38958656.62	0.0137	0.0036
Mercury	101965-09-12 08:09 G	38963265.79	38963265.84	38963265.90	0.0141	0.0125
Mercury	101965-12-09 11:45 G	38963353.90	38963353.99	38963354.07	0.0141	0.0104
Mercury	101966-03-07 14:52 G	38963442.02	38963442.12	38963442.23	0.0141	0.0084
Mercury	101966-06-03 18:28 G	38963530.15	38963530.27	38963530.39	0.0141	0.0063
Mercury	101966-08-30 21:50 G	38963618.28	38963618.41	38963618.53	0.0141	0.0043
Mercury	101966-11-27 01:11 G	38963706.42	38963706.55	38963706.68	0.0141	0.0022
Mercury	101967-02-23 04:33 G	38963794.56	38963794.69	38963794.82	0.0141	0.0002
Mercury	101967-05-22 07:54 G	38963882.70	38963882.83	38963882.96	0.0141	0.0019
Mercury	101967-08-18 11:16 G	38963970.85	38963970.97	38963971.10	0.0141	0.0040
Mercury	101967-11-14 14:38 G	38964059.00	38964059.11	38964059.23	0.0142	0.0061
Mercury	101968-02-10 17:59 G	38964147.15	38964147.25	38964147.36	0.0142	0.0082
Mercury	101968-05-08 21:21 G	38964235.31	38964235.39	38964235.49	0.0142	0.0103
Mercury	101968-08-05 00:57 G	38964323.48	38964323.54	38964323.60	0.0142	0.0123
Moon	101977-04-11 01:26 G	38967494.50	38967494.56	38967494.65	0.0143	0.0137
Earth	101977-04-11 04:33 G	38967494.69	38967494.69	38967494.71	0.0143	0.0143
Earth	101978-04-16 05:59 G	38967864.51	38967864.75	38967865.01	0.0143	0.0036
Moon	101978-04-16 08:52 G	38967864.63	38967864.87	38967865.11	0.0143	0.0038 *
Moon	101979-04-21 05:30 G	38968234.51	38968234.73	38968234.97	0.0144	0.0073
Earth	101979-04-21 07:54 G	38968234.62	38968234.83	38968235.06	0.0144	0.0074 *
Venus	101981-08-24 06:28 G	38969090.72	38969090.77	38969090.86	0.0143	0.0137
Venus	101982-04-07 19:40 G	38969317.21	38969317.32	38969317.47	0.0143	0.0116
Venus	101982-11-20 09:06 G	38969543.72	38969543.88	38969544.05	0.0143	0.0094
Venus	101983-07-04 21:50 G	38969770.23	38969770.41	38969770.62	0.0143	0.0073

Venus	101984-02-16 11:02 G	38969996.76	38969996.96	38969997.18	0.0143	0.0051
Venus	101984-09-29 23:59 G	38970223.29	38970223.50	38970223.72	0.0143	0.0029
Venus	101985-05-14 12:42 G	38970449.81	38970450.03	38970450.26	0.0143	0.0007
Venus	101985-12-27 01:26 G	38970676.34	38970676.56	38970676.78	0.0143	0.0015
Venus	101986-08-10 13:40 G	38970902.87	38970903.07	38970903.29	0.0143	0.0037
Venus	101987-03-25 02:09 G	38971129.40	38971129.59	38971129.80	0.0143	0.0058
Venus	101987-11-06 14:23 G	38971355.92	38971356.10	38971356.29	0.0143	0.0079
Venus	101988-06-20 02:23 G	38971582.45	38971582.60	38971582.76	0.0143	0.0100
Venus	101989-02-01 13:54 G	38971808.99	38971809.08	38971809.22	0.0142	0.0121
Venus	101989-09-16 01:40 G	38972035.56	38972035.57	38972035.62	0.0142	0.0141
Mars	101993-08-17 18:14 G	38973466.99	38973467.26	38973467.58	0.0141	0.0062

103RD MILLENNIUM CE

This is a list of transits visible from Uranus in the 103rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	102006-07-08 04:04 G	38978174.64	38978174.67	38978174.70	0.0137	0.0135		
Mercury	102006-10-04 11:30 G	38978262.87	38978262.98	38978263.11	0.0137	0.0108		
Mercury	102006-12-31 19:11 G	38978351.16	38978351.30	38978351.47	0.0137	0.0080		
Mercury	102007-03-30 03:06 G	38978439.46	38978439.63	38978439.82	0.0137	0.0052		
Mercury	102007-06-26 11:02 G	38978527.77	38978527.96	38978528.15	0.0137	0.0024		
Mercury	102007-09-22 18:42 G	38978616.09	38978616.28	38978616.48	0.0137	0.0006		
Mercury	102007-12-20 02:23 G	38978704.42	38978704.60	38978704.80	0.0137	0.0033		

Mercury	102008-03-17 10:04 G	38978792.76	38978792.92	38978793.11	0.0137	0.0061
Mercury	102008-06-13 17:45 G	38978881.11	38978881.24	38978881.40	0.0137	0.0089
Mercury	102008-09-10 01:26 G	38978969.48	38978969.56	38978969.68	0.0136	0.0117
Moon	102019-10-16 11:02 G	38983022.74	38983022.96	38983023.21	0.0135	0.0049
Earth	102019-10-16 14:23 G	38983022.88	38983023.10	38983023.35	0.0135	0.0050 *
Earth	102020-10-19 20:52 G	38983392.14	38983392.37	38983392.62	0.0135	0.0038
Moon	102020-10-20 00:14 G	38983392.27	38983392.51	38983392.76	0.0135	0.0040 *
Moon	102021-10-23 23:59 G	38983761.38	38983761.50	38983761.62	0.0135	0.0118
Earth	102021-10-24 03:21 G	38983761.55	38983761.64	38983761.74	0.0135	0.0124 *
Venus	102023-10-14 06:14 G	38984481.68	38984481.76	38984481.86	0.0135	0.0122
Venus	102024-05-27 11:02 G	38984707.83	38984707.96	38984708.09	0.0135	0.0105
Venus	102025-01-08 15:21 G	38984934.00	38984934.14	38984934.32	0.0135	0.0089
Venus	102025-08-22 20:09 G	38985160.18	38985160.34	38985160.54	0.0135	0.0072
Venus	102026-04-06 00:57 G	38985386.36	38985386.54	38985386.75	0.0135	0.0055
Venus	102026-11-18 05:59 G	38985612.55	38985612.75	38985612.96	0.0135	0.0037
Venus	102027-07-02 10:47 G	38985838.74	38985838.95	38985839.16	0.0135	0.0020
Venus	102028-02-13 15:50 G	38986064.94	38986065.16	38986065.37	0.0135	0.0003
Venus	102028-09-26 20:52 G	38986291.15	38986291.37	38986291.58	0.0135	0.0015
Venus	102029-05-11 01:54 G	38986517.37	38986517.58	38986517.79	0.0135	0.0033
Venus	102029-12-23 06:42 G	38986743.59	38986743.78	38986743.99	0.0135	0.0050
Venus	102030-08-06 11:59 G	38986969.82	38986970.00	38986970.19	0.0135	0.0068
Venus	102031-03-20 17:30 G	38987196.06	38987196.23	38987196.40	0.0136	0.0085
Venus	102031-11-01 22:33 G	38987422.32	38987422.44	38987422.60	0.0136	0.0103
Venus	102032-06-15 04:04 G	38987648.59	38987648.67	38987648.78	0.0136	0.0120
Mars	102035-10-24 09:06 G	38988874.84	38988874.88	38988874.98	0.0137	0.0133
Mercury	102049-07-06 12:28 G	38993879.00	38993879.02	38993879.05	0.0141	0.0138
Mercury	102049-10-02 16:04 G	38993967.10	38993967.17	38993967.24	0.0141	0.0117
Mercury	102049-12-29 19:11 G	38994055.22	38994055.30	38994055.41	0.0141	0.0097
Mercury	102050-03-27 22:47 G	38994143.34	38994143.45	38994143.56	0.0141	0.0076
Mercury	102050-06-24 02:09 G	38994231.47	38994231.59	38994231.71	0.0141	0.0056

Mercury	102050-09-20 05:30 G	38994319.61	38994319.73	38994319.86	0.0141	0.0035
Mercury	102050-12-17 08:52 G	38994407.75	38994407.87	38994408.01	0.0141	0.0015
Mercury	102051-03-15 12:28 G	38994495.89	38994496.02	38994496.15	0.0141	0.0007
Mercury	102051-06-11 15:50 G	38994584.03	38994584.16	38994584.29	0.0141	0.0027
Mercury	102051-09-07 19:11 G	38994672.18	38994672.30	38994672.42	0.0141	0.0048
Mercury	102051-12-04 22:33 G	38994760.33	38994760.44	38994760.56	0.0142	0.0069
Mercury	102052-03-02 01:54 G	38994848.48	38994848.58	38994848.68	0.0142	0.0089
Mercury	102052-05-29 05:16 G	38994936.64	38994936.72	38994936.81	0.0142	0.0110
Mercury	102052-08-25 08:38 G	38995024.82	38995024.86	38995024.91	0.0142	0.0131
Moon	102061-04-11 14:23 G	38998176.09	38998176.10	38998176.15	0.0143	0.0143
Earth	102061-04-11 17:45 G	38998176.18	38998176.24	38998176.35	0.0143	0.0136
Earth	102062-04-16 19:54 G	38998546.08	38998546.33	38998546.59	0.0143	0.0027
Moon	102062-04-16 22:47 G	38998546.21	38998546.45	38998546.70	0.0143	0.0023 *
Moon	102063-04-21 19:26 G	38998916.10	38998916.31	38998916.53	0.0143	0.0084
Earth	102063-04-21 21:35 G	38998916.20	38998916.40	38998916.63	0.0143	0.0082 *
Venus	102065-04-23 14:38 G	38999649.10	38999649.11	38999649.14	0.0143	0.0143
Venus	102065-12-06 03:50 G	38999875.55	38999875.66	38999875.78	0.0143	0.0122
Venus	102066-07-20 16:47 G	39000102.06	39000102.20	39000102.37	0.0143	0.0101
Venus	102067-03-04 06:28 G	39000328.58	39000328.77	39000328.95	0.0143	0.0079
Venus	102067-10-16 19:11 G	39000555.11	39000555.30	39000555.51	0.0143	0.0057
Venus	102068-05-30 08:09 G	39000781.63	39000781.84	39000782.06	0.0143	0.0036
Venus	102069-01-11 20:52 G	39001008.16	39001008.37	39001008.60	0.0143	0.0014
Venus	102069-08-26 09:50 G	39001234.68	39001234.91	39001235.13	0.0143	0.0008
Venus	102070-04-09 22:18 G	39001461.22	39001461.43	39001461.65	0.0143	0.0029
Venus	102070-11-22 10:33 G	39001687.74	39001687.94	39001688.16	0.0143	0.0051
Venus	102071-07-06 22:47 G	39001914.27	39001914.45	39001914.65	0.0143	0.0072
Venus	102072-02-18 10:47 G	39002140.80	39002140.95	39002141.13	0.0143	0.0093
Venus	102072-10-01 22:47 G	39002367.33	39002367.45	39002367.60	0.0143	0.0113
Venus	102073-05-16 10:33 G	39002593.88	39002593.94	39002594.03	0.0142	0.0134
Mercury	102090-07-28 11:59 G	39008875.93	39008876.00	39008876.08	0.0137	0.0125

Mercury	102090-10-24 19:54 G	39008964.19	39008964.33	39008964.46	0.0137	0.0097
Mercury	102091-01-21 03:21 G	39009052.48	39009052.64	39009052.82	0.0137	0.0070
Mercury	102091-04-19 11:16 G	39009140.79	39009140.97	39009141.16	0.0137	0.0042
Mercury	102091-07-16 19:11 G	39009229.10	39009229.30	39009229.49	0.0137	0.0014
Mercury	102091-10-13 02:52 G	39009317.43	39009317.62	39009317.81	0.0137	0.0015
Mercury	102092-01-09 10:33 G	39009405.76	39009405.94	39009406.13	0.0137	0.0043
Mercury	102092-04-06 18:14 G	39009494.10	39009494.26	39009494.43	0.0137	0.0071
Mercury	102092-07-04 01:54 G	39009582.46	39009582.58	39009582.72	0.0136	0.0099
Mercury	102092-09-30 09:35 G	39009670.84	39009670.90	39009670.99	0.0136	0.0126
Earth	102102-10-13 20:09 G	39013335.29	39013335.34	39013335.41	0.0135	0.0130
Moon	102102-10-13 23:16 G	39013335.38	39013335.47	39013335.57	0.0135	0.0125 *
Moon	102103-10-17 23:59 G	39013704.27	39013704.50	39013704.74	0.0135	0.0044
Earth	102103-10-18 03:06 G	39013704.39	39013704.63	39013704.87	0.0135	0.0043 *
Earth	102104-10-21 09:21 G	39014073.66	39014073.89	39014074.13	0.0135	0.0044
Moon	102104-10-21 12:57 G	39014073.79	39014074.04	39014074.28	0.0135	0.0041 *
Earth	102105-10-25 15:21 G	39014443.10	39014443.14	39014443.22	0.0135	0.0131
Venus	102107-06-14 17:59 G	39015040.19	39015040.25	39015040.34	0.0135	0.0126
Venus	102108-01-26 22:47 G	39015266.34	39015266.45	39015266.58	0.0135	0.0110
Venus	102108-09-09 03:21 G	39015492.50	39015492.64	39015492.81	0.0135	0.0094
Venus	102109-04-23 08:09 G	39015718.67	39015718.84	39015719.02	0.0135	0.0077
Venus	102109-12-05 12:42 G	39015944.85	39015945.03	39015945.24	0.0135	0.0060
Venus	102110-07-19 17:30 G	39016171.04	39016171.23	39016171.44	0.0135	0.0043
Venus	102111-03-02 22:33 G	39016397.23	39016397.44	39016397.65	0.0135	0.0025
Venus	102111-10-15 03:21 G	39016623.43	39016623.64	39016623.86	0.0135	0.0008
Venus	102112-05-28 08:09 G	39016849.63	39016849.84	39016850.06	0.0135	0.0010
Venus	102113-01-09 13:11 G	39017075.84	39017076.05	39017076.26	0.0135	0.0027
Venus	102113-08-23 18:14 G	39017302.07	39017302.26	39017302.47	0.0135	0.0045
Venus	102114-04-06 23:30 G	39017528.29	39017528.48	39017528.67	0.0135	0.0062
Venus	102114-11-19 04:47 G	39017754.53	39017754.70	39017754.87	0.0135	0.0079
Venus	102115-07-03 09:50 G	39017980.77	39017980.91	39017981.07	0.0136	0.0097

Venus	102116-02-14 15:06 G	39018207.03	39018207.13	39018207.27	0.0136	0.0114
Venus	102116-09-27 20:52 G	39018433.33	39018433.37	39018433.44	0.0136	0.0131
Mars	102120-06-18 23:30 G	39019793.20	39019793.48	39019793.77	0.0137	0.0019
Mercury	102133-07-27 20:09 G	39024580.30	39024580.34	39024580.39	0.0141	0.0131
Mercury	102133-10-23 23:30 G	39024668.41	39024668.48	39024668.57	0.0141	0.0111
Mercury	102134-01-20 02:52 G	39024756.53	39024756.62	39024756.73	0.0141	0.0090
Mercury	102134-04-18 06:28 G	39024844.66	39024844.77	39024844.88	0.0141	0.0069
Mercury	102134-07-15 09:50 G	39024932.79	39024932.91	39024933.03	0.0141	0.0049
Mercury	102134-10-11 13:11 G	39025020.92	39025021.05	39025021.18	0.0141	0.0028
Mercury	102135-01-07 16:33 G	39025109.06	39025109.19	39025109.32	0.0141	0.0009
Mercury	102135-04-05 19:54 G	39025197.20	39025197.33	39025197.47	0.0141	0.0014
Mercury	102135-07-02 23:16 G	39025285.35	39025285.47	39025285.60	0.0141	0.0035
Mercury	102135-09-29 02:52 G	39025373.50	39025373.62	39025373.74	0.0141	0.0055
Mercury	102135-12-26 06:14 G	39025461.65	39025461.76	39025461.87	0.0142	0.0075
Mercury	102136-03-23 09:35 G	39025549.81	39025549.90	39025550.00	0.0142	0.0096
Mercury	102136-06-19 12:57 G	39025637.97	39025638.04	39025638.12	0.0142	0.0117
Mercury	102136-09-15 16:18 G	39025726.16	39025726.18	39025726.21	0.0142	0.0138
Moon	102145-04-13 02:23 G	39028857.48	39028857.60	39028857.75	0.0143	0.0122
Earth	102145-04-13 05:45 G	39028857.65	39028857.74	39028857.87	0.0143	0.0129 *
Earth	102146-04-18 07:40 G	39029227.57	39029227.82	39029228.08	0.0143	0.0020
Moon	102146-04-18 11:02 G	39029227.71	39029227.96	39029228.21	0.0143	0.0023 *
Moon	102147-04-23 06:28 G	39029597.57	39029597.77	39029597.98	0.0143	0.0089
Earth	102147-04-23 09:35 G	39029597.70	39029597.90	39029598.10	0.0143	0.0089 *
Venus	102149-08-06 10:18 G	39030433.85	39030433.93	39030434.04	0.0143	0.0129
Venus	102150-03-20 23:30 G	39030660.35	39030660.48	39030660.64	0.0143	0.0108
Venus	102150-11-02 12:42 G	39030886.86	39030887.03	39030887.22	0.0143	0.0086
Venus	102151-06-17 01:54 G	39031113.38	39031113.58	39031113.78	0.0143	0.0065
Venus	102152-01-29 14:38 G	39031339.91	39031340.11	39031340.33	0.0143	0.0044
Venus	102152-09-12 03:50 G	39031566.44	39031566.66	39031566.88	0.0143	0.0022
Venus	102153-04-26 16:33 G	39031792.97	39031793.19	39031793.41	0.0143	0.0002

Venus	102153-12-09 05:02 G	39032019.49	39032019.71	39032019.93	0.0143	0.0022
Venus	102154-07-23 17:16 G	39032246.02	39032246.22	39032246.44	0.0143	0.0043
Venus	102155-03-07 05:59 G	39032472.55	39032472.75	39032472.95	0.0143	0.0064
Venus	102155-10-19 17:59 G	39032699.08	39032699.25	39032699.43	0.0143	0.0085
Venus	102156-06-02 05:45 G	39032925.61	39032925.74	39032925.90	0.0143	0.0106
Venus	102157-01-14 17:45 G	39033152.15	39033152.24	39033152.35	0.0142	0.0126
Mars	102161-01-03 21:50 G	39034602.09	39034602.41	39034602.74	0.0141	0.0013
Mercury	102174-08-18 19:54 G	39039577.23	39039577.33	39039577.43	0.0137	0.0116
Mercury	102174-11-15 03:35 G	39039665.50	39039665.65	39039665.80	0.0137	0.0088
Mercury	102175-02-11 11:02 G	39039753.80	39039753.96	39039754.15	0.0137	0.0061
Mercury	102175-05-10 18:57 G	39039842.11	39039842.29	39039842.49	0.0137	0.0033
Mercury	102175-08-07 02:52 G	39039930.43	39039930.62	39039930.82	0.0137	0.0004
Mercury	102175-11-03 10:33 G	39040018.75	39040018.94	39040019.14	0.0137	0.0024
Mercury	102176-01-30 18:14 G	39040107.09	39040107.26	39040107.45	0.0137	0.0052
Mercury	102176-04-28 01:54 G	39040195.43	39040195.58	39040195.75	0.0137	0.0080
Mercury	102176-07-25 09:35 G	39040283.79	39040283.90	39040284.03	0.0136	0.0108
Mercury	102176-10-21 17:16 G	39040372.21	39040372.22	39040372.26	0.0136	0.0135
Earth	102186-10-14 08:09 G	39044016.75	39044016.84	39044016.95	0.0135	0.0124
Moon	102186-10-14 11:02 G	39044016.89	39044016.96	39044017.06	0.0135	0.0127 *
Moon	102187-10-18 12:28 G	39044385.78	39044386.02	39044386.25	0.0135	0.0035
Earth	102187-10-18 15:06 G	39044385.89	39044386.13	39044386.37	0.0135	0.0037 *
Earth	102188-10-21 21:06 G	39044755.16	39044755.38	39044755.63	0.0135	0.0051
Moon	102188-10-22 00:14 G	39044755.27	39044755.51	39044755.75	0.0135	0.0052 *
Moon	102189-10-26 00:57 G	39045124.50	39045124.54	39045124.59	0.0135	0.0132
Venus	102191-02-12 05:59 G	39045598.71	39045598.75	39045598.80	0.0135	0.0131
Venus	102191-09-26 10:33 G	39045824.84	39045824.94	39045825.06	0.0135	0.0115
Venus	102192-05-09 14:52 G	39046050.99	39046051.12	39046051.28	0.0135	0.0099
Venus	102192-12-21 19:40 G	39046277.16	39046277.32	39046277.50	0.0135	0.0082
Venus	102193-08-05 00:28 G	39046503.34	39046503.52	39046503.71	0.0135	0.0065
Venus	102194-03-19 05:02 G	39046729.52	39046729.71	39046729.92	0.0135	0.0048

Venus	102194-10-31 09:50 G	39046955.71	39046955.91	39046956.12	0.0135	0.0031
Venus	102195-06-14 14:38 G	39047181.90	39047182.11	39047182.32	0.0135	0.0014
Venus	102196-01-26 19:26 G	39047408.10	39047408.31	39047408.53	0.0135	0.0004
Venus	102196-09-09 00:28 G	39047634.31	39047634.52	39047634.73	0.0135	0.0021
Venus	102197-04-23 05:30 G	39047860.53	39047860.73	39047860.94	0.0135	0.0038
Venus	102197-12-05 10:33 G	39048086.75	39048086.94	39048087.14	0.0135	0.0056
Venus	102198-07-19 15:21 G	39048312.97	39048313.14	39048313.33	0.0135	0.0073
Venus	102199-03-02 20:38 G	39048539.22	39048539.36	39048539.53	0.0135	0.0091
Venus	102199-10-15 02:09 G	39048765.47	39048765.59	39048765.73	0.0136	0.0108
Venus	102200-05-29 07:40 G	39048991.75	39048991.82	39048991.92	0.0136	0.0125
Mars	102205-02-12 13:11 G	39050711.84	39050712.05	39050712.26	0.0137	0.0095
Mercury	102217-08-18 03:21 G	39055281.59	39055281.64	39055281.71	0.0141	0.0126
Mercury	102217-11-14 06:57 G	39055369.71	39055369.79	39055369.88	0.0141	0.0105
Mercury	102218-02-10 10:18 G	39055457.83	39055457.93	39055458.04	0.0141	0.0085
Mercury	102218-05-09 13:40 G	39055545.96	39055546.07	39055546.19	0.0141	0.0064
Mercury	102218-08-05 17:16 G	39055634.09	39055634.22	39055634.34	0.0141	0.0044
Mercury	102218-11-01 20:38 G	39055722.23	39055722.36	39055722.49	0.0141	0.0023
Mercury	102219-01-28 23:59 G	39055810.37	39055810.50	39055810.63	0.0141	0.0002
Mercury	102219-04-27 03:21 G	39055898.51	39055898.64	39055898.77	0.0141	0.0019
Mercury	102219-07-24 06:42 G	39055986.66	39055986.78	39055986.91	0.0141	0.0039
Mercury	102219-10-20 10:04 G	39056074.81	39056074.92	39056075.04	0.0142	0.0060
Mercury	102220-01-16 13:26 G	39056162.96	39056163.06	39056163.17	0.0142	0.0081
Mercury	102220-04-13 16:47 G	39056251.12	39056251.20	39056251.30	0.0142	0.0102
Mercury	102220-07-10 20:23 G	39056339.28	39056339.35	39056339.41	0.0142	0.0122
Moon	102229-04-14 11:59 G	39059538.92	39059539.00	39059539.12	0.0143	0.0132
Earth	102229-04-14 15:50 G	39059539.05	39059539.16	39059539.30	0.0143	0.0124 *
Earth	102230-04-19 17:45 G	39059908.99	39059909.24	39059909.50	0.0143	0.0015
Moon	102230-04-19 21:06 G	39059909.13	39059909.38	39059909.64	0.0143	0.0011 *
Moon	102231-04-24 16:33 G	39060279.00	39060279.19	39060279.39	0.0143	0.0095
Earth	102231-04-24 19:26 G	39060279.14	39060279.31	39060279.52	0.0143	0.0095 *

Venus	102233-04-06 16:04 G	39060992.11	39060992.17	39060992.25	0.0143	0.0136
Venus	102233-11-19 05:02 G	39061218.60	39061218.71	39061218.86	0.0143	0.0115
Venus	102234-07-03 18:28 G	39061445.11	39061445.27	39061445.44	0.0143	0.0094
Venus	102235-02-15 07:26 G	39061671.63	39061671.81	39061672.01	0.0143	0.0073
Venus	102235-09-29 20:23 G	39061898.16	39061898.35	39061898.57	0.0143	0.0052
Venus	102236-05-13 09:35 G	39062124.68	39062124.90	39062125.11	0.0143	0.0030
Venus	102236-12-25 22:18 G	39062351.21	39062351.43	39062351.65	0.0143	0.0008
Venus	102237-08-09 10:47 G	39062577.73	39062577.95	39062578.18	0.0143	0.0014
Venus	102238-03-23 23:30 G	39062804.27	39062804.48	39062804.70	0.0143	0.0035
Venus	102238-11-05 11:59 G	39063030.80	39063031.00	39063031.20	0.0143	0.0056
Venus	102239-06-19 23:59 G	39063257.32	39063257.50	39063257.70	0.0143	0.0077
Venus	102240-02-01 12:14 G	39063483.86	39063484.01	39063484.18	0.0143	0.0098
Venus	102240-09-14 23:59 G	39063710.39	39063710.50	39063710.64	0.0143	0.0119
Venus	102241-04-29 11:59 G	39063936.96	39063937.00	39063937.06	0.0142	0.0138
Mars	102245-08-31 22:04 G	39065522.32	39065522.42	39065522.57	0.0141	0.0130
Mercury	102258-06-12 19:40 G	39070190.30	39070190.32	39070190.36	0.0137	0.0135
Mercury	102258-09-09 03:35 G	39070278.53	39070278.65	39070278.77	0.0137	0.0107
Mercury	102258-12-06 11:16 G	39070366.82	39070366.97	39070367.14	0.0137	0.0079
Mercury	102259-03-04 19:11 G	39070455.12	39070455.30	39070455.48	0.0137	0.0051
Mercury	102259-06-01 02:52 G	39070543.43	39070543.62	39070543.82	0.0137	0.0023
Mercury	102259-08-28 10:47 G	39070631.75	39070631.95	39070632.14	0.0137	0.0005
Mercury	102259-11-24 18:28 G	39070720.08	39070720.27	39070720.46	0.0137	0.0033
Mercury	102260-02-21 02:09 G	39070808.42	39070808.59	39070808.77	0.0137	0.0061
Mercury	102260-05-19 09:50 G	39070896.77	39070896.91	39070897.07	0.0137	0.0089
Mercury	102260-08-15 17:30 G	39070985.14	39070985.23	39070985.34	0.0137	0.0117
Earth	102270-10-15 20:09 G	39074698.24	39074698.34	39074698.48	0.0135	0.0118
Moon	102270-10-15 22:33 G	39074698.31	39074698.44	39074698.60	0.0135	0.0112 *
Moon	102271-10-20 00:57 G	39075067.31	39075067.54	39075067.78	0.0135	0.0032
Earth	102271-10-20 03:21 G	39075067.40	39075067.64	39075067.89	0.0135	0.0030 *
Earth	102272-10-23 09:35 G	39075436.69	39075436.90	39075437.14	0.0135	0.0058

Moon	102272-10-23 12:14 G	39075436.79	39075437.01	39075437.26	0.0135	0.0056 *
Venus	102275-05-27 22:04 G	39076383.34	39076383.42	39076383.53	0.0135	0.0120
Venus	102276-01-09 02:38 G	39076609.49	39076609.61	39076609.76	0.0135	0.0104
Venus	102276-08-22 07:26 G	39076835.66	39076835.81	39076835.98	0.0135	0.0087
Venus	102277-04-05 12:14 G	39077061.83	39077062.01	39077062.19	0.0135	0.0070
Venus	102277-11-17 16:33 G	39077288.01	39077288.19	39077288.40	0.0135	0.0054
Venus	102278-07-01 21:21 G	39077514.19	39077514.39	39077514.60	0.0135	0.0036
Venus	102279-02-13 02:09 G	39077740.38	39077740.59	39077740.80	0.0135	0.0019
Venus	102279-09-27 06:57 G	39077966.58	39077966.79	39077967.01	0.0135	0.0003
Venus	102280-05-10 11:45 G	39078192.78	39078192.99	39078193.21	0.0135	0.0015
Venus	102280-12-22 16:47 G	39078418.99	39078419.20	39078419.41	0.0135	0.0032
Venus	102281-08-05 21:35 G	39078645.21	39078645.40	39078645.61	0.0135	0.0050
Venus	102282-03-20 02:38 G	39078871.43	39078871.61	39078871.80	0.0135	0.0067
Venus	102282-11-01 07:54 G	39079097.67	39079097.83	39079098.00	0.0135	0.0084
Venus	102283-06-15 13:11 G	39079323.92	39079324.05	39079324.20	0.0135	0.0102
Venus	102284-01-27 18:28 G	39079550.18	39079550.27	39079550.39	0.0136	0.0119
Venus	102284-09-10 00:28 G	39079776.52	39079776.52	39079776.53	0.0136	0.0135
Mars	102287-11-08 00:57 G	39080930.33	39080930.54	39080930.80	0.0136	0.0079
Mercury	102301-06-12 07:26 G	39085894.81	39085894.81	39085894.82	0.0141	0.0141
Mercury	102301-09-08 11:02 G	39085982.89	39085982.96	39085983.02	0.0141	0.0120
Mercury	102301-12-05 14:09 G	39086071.01	39086071.09	39086071.19	0.0141	0.0100
Mercury	102302-03-03 17:45 G	39086159.13	39086159.24	39086159.35	0.0141	0.0079
Mercury	102302-05-30 21:06 G	39086247.26	39086247.38	39086247.50	0.0141	0.0059
Mercury	102302-08-27 00:28 G	39086335.39	39086335.52	39086335.65	0.0141	0.0038
Mercury	102302-11-23 03:50 G	39086423.53	39086423.66	39086423.79	0.0141	0.0018
Mercury	102303-02-19 07:11 G	39086511.67	39086511.80	39086511.93	0.0141	0.0004
Mercury	102303-05-18 10:33 G	39086599.81	39086599.94	39086600.07	0.0141	0.0024
Mercury	102303-08-14 13:54 G	39086687.96	39086688.08	39086688.21	0.0141	0.0044
Mercury	102303-11-10 17:30 G	39086776.11	39086776.23	39086776.34	0.0141	0.0065
Mercury	102304-02-06 20:38 G	39086864.26	39086864.36	39086864.47	0.0142	0.0086

Mercury	102304-05-05 00:14 G	39086952.42	39086952.51	39086952.59	0.0142	0.0106
Mercury	102304-08-01 03:35 G	39087040.59	39087040.65	39087040.71	0.0142	0.0127
Moon	102313-04-15 20:38 G	39090220.22	39090220.36	39090220.53	0.0143	0.0113
Earth	102313-04-16 00:28 G	39090220.38	39090220.52	39090220.66	0.0143	0.0120 *
Earth	102314-04-21 02:09 G	39090590.33	39090590.59	39090590.85	0.0143	0.0011
Moon	102314-04-21 05:45 G	39090590.49	39090590.74	39090591.00	0.0143	0.0016 *
Moon	102315-04-26 00:14 G	39090960.34	39090960.51	39090960.71	0.0143	0.0100
Earth	102315-04-26 03:35 G	39090960.48	39090960.65	39090960.86	0.0143	0.0098 *
Venus	102317-07-20 09:06 G	39091776.78	39091776.88	39091777.01	0.0143	0.0124
Venus	102318-03-03 22:33 G	39092003.29	39092003.44	39092003.60	0.0143	0.0103
Venus	102318-10-16 11:30 G	39092229.81	39092229.98	39092230.17	0.0143	0.0082
Venus	102319-05-31 00:28 G	39092456.33	39092456.52	39092456.73	0.0143	0.0060
Venus	102320-01-12 13:26 G	39092682.85	39092683.06	39092683.28	0.0143	0.0039
Venus	102320-08-26 02:23 G	39092909.38	39092909.60	39092909.82	0.0143	0.0017
Venus	102321-04-09 15:06 G	39093135.91	39093136.13	39093136.35	0.0143	0.0005
Venus	102321-11-22 03:35 G	39093362.44	39093362.65	39093362.87	0.0143	0.0026
Venus	102322-07-06 16:04 G	39093588.96	39093589.17	39093589.38	0.0143	0.0047
Venus	102323-02-18 04:18 G	39093815.50	39093815.68	39093815.88	0.0143	0.0068
Venus	102323-10-02 16:33 G	39094042.03	39094042.19	39094042.37	0.0143	0.0089
Venus	102324-05-16 04:33 G	39094268.56	39094268.69	39094268.84	0.0143	0.0110
Venus	102324-12-28 16:33 G	39094495.11	39094495.19	39094495.29	0.0142	0.0130
Mars	102328-05-23 05:45 G	39095736.54	39095736.74	39095736.98	0.0142	0.0104
Mercury	102342-07-04 02:09 G	39100891.55	39100891.59	39100891.67	0.0137	0.0131
Mercury	102342-09-30 10:04 G	39100979.80	39100979.92	39100980.06	0.0137	0.0102
Mercury	102342-12-27 17:59 G	39101068.09	39101068.25	39101068.42	0.0137	0.0074
Mercury	102343-03-26 01:40 G	39101156.40	39101156.57	39101156.77	0.0137	0.0046
Mercury	102343-06-22 09:35 G	39101244.71	39101244.90	39101245.10	0.0137	0.0018
Mercury	102343-09-18 17:30 G	39101333.03	39101333.23	39101333.42	0.0137	0.0010
Mercury	102343-12-16 01:11 G	39101421.37	39101421.55	39101421.74	0.0137	0.0039
Mercury	102344-03-13 08:52 G	39101509.71	39101509.87	39101510.05	0.0137	0.0067

Mercury	102344-06-09 16:33 G	39101598.06	39101598.19	39101598.34	0.0137	0.0095
Mercury	102344-09-06 00:14 G	39101686.44	39101686.51	39101686.61	0.0137	0.0123
Earth	102354-10-17 06:57 G	39105379.67	39105379.79	39105379.95	0.0135	0.0112
Moon	102354-10-17 09:06 G	39105379.77	39105379.88	39105380.03	0.0135	0.0116 *
Moon	102355-10-21 12:28 G	39105748.79	39105749.02	39105749.27	0.0135	0.0022
Earth	102355-10-21 14:09 G	39105748.85	39105749.09	39105749.35	0.0135	0.0025 *
Earth	102356-10-24 20:38 G	39106118.15	39106118.36	39106118.60	0.0135	0.0064
Moon	102356-10-24 22:33 G	39106118.22	39106118.44	39106118.68	0.0135	0.0064 *
Venus	102359-01-26 09:06 G	39106941.82	39106941.88	39106941.97	0.0135	0.0126
Venus	102359-09-09 14:09 G	39107167.97	39107168.09	39107168.22	0.0135	0.0109
Venus	102360-04-22 18:28 G	39107394.13	39107394.27	39107394.44	0.0135	0.0093
Venus	102360-12-04 23:16 G	39107620.30	39107620.47	39107620.65	0.0135	0.0076
Venus	102361-07-19 03:50 G	39107846.47	39107846.66	39107846.85	0.0135	0.0059
Venus	102362-03-02 08:23 G	39108072.65	39108072.85	39108073.06	0.0135	0.0043
Venus	102362-10-14 13:11 G	39108298.84	39108299.05	39108299.26	0.0135	0.0025
Venus	102363-05-28 17:59 G	39108525.03	39108525.25	39108525.46	0.0135	0.0008
Venus	102364-01-09 22:47 G	39108751.23	39108751.45	39108751.66	0.0135	0.0009
Venus	102364-08-23 03:35 G	39108977.45	39108977.65	39108977.87	0.0135	0.0026
Venus	102365-04-06 08:38 G	39109203.66	39109203.86	39109204.07	0.0135	0.0044
Venus	102365-11-18 13:26 G	39109429.88	39109430.06	39109430.26	0.0135	0.0061
Venus	102366-07-02 18:28 G	39109656.11	39109656.27	39109656.46	0.0135	0.0079
Venus	102367-02-13 23:45 G	39109882.36	39109882.49	39109882.66	0.0135	0.0096
Venus	102367-09-28 05:16 G	39110108.62	39110108.72	39110108.86	0.0135	0.0113
Venus	102368-05-11 11:16 G	39110334.91	39110334.97	39110335.03	0.0136	0.0129
Mars	102372-07-03 12:42 G	39111848.76	39111849.03	39111849.32	0.0137	0.0035
Jupiter	102383-11-17 19:11 G	39116003.06	39116003.30	39116003.57	0.0140	0.0122
Mercury	102385-07-02 14:52 G	39116596.09	39116596.12	39116596.16	0.0141	0.0135
Mercury	102385-09-28 18:13 G	39116684.19	39116684.26	39116684.34	0.0141	0.0115
Mercury	102385-12-25 21:35 G	39116772.31	39116772.40	39116772.50	0.0141	0.0094
Mercury	102386-03-24 00:57 G	39116860.43	39116860.54	39116860.66	0.0141	0.0074

Mercury	102386-06-20 04:18 G	39116948.57	39116948.68	39116948.81	0.0141	0.0054
Mercury	102386-09-16 07:54 G	39117036.70	39117036.83	39117036.95	0.0141	0.0033
Mercury	102386-12-13 11:16 G	39117124.84	39117124.97	39117125.10	0.0141	0.0013
Mercury	102387-03-11 14:37 G	39117212.98	39117213.11	39117213.24	0.0141	0.0008
Mercury	102387-06-07 17:59 G	39117301.12	39117301.25	39117301.38	0.0141	0.0029
Mercury	102387-09-03 21:21 G	39117389.27	39117389.39	39117389.51	0.0141	0.0049
Mercury	102387-12-01 00:42 G	39117477.42	39117477.53	39117477.64	0.0141	0.0070
Mercury	102388-02-27 04:04 G	39117565.57	39117565.67	39117565.77	0.0141	0.0090
Mercury	102388-05-25 07:25 G	39117653.73	39117653.81	39117653.89	0.0142	0.0111
Mercury	102388-08-21 10:47 G	39117741.91	39117741.95	39117742.00	0.0142	0.0132
Moon	102397-04-16 05:45 G	39120901.63	39120901.74	39120901.88	0.0143	0.0124
Earth	102397-04-16 09:21 G	39120901.75	39120901.89	39120902.06	0.0143	0.0115 *
Earth	102398-04-21 11:01 G	39121271.71	39121271.96	39121272.22	0.0143	0.0007
Moon	102398-04-21 14:37 G	39121271.85	39121272.11	39121272.37	0.0143	0.0001 *
Moon	102399-04-26 08:52 G	39121641.70	39121641.87	39121642.07	0.0143	0.0102
Earth	102399-04-26 12:42 G	39121641.86	39121642.03	39121642.22	0.0143	0.0103 *
Venus	102401-03-19 13:54 G	39122335.00	39122335.08	39122335.17	0.0143	0.0132
Venus	102401-11-01 02:37 G	39122561.49	39122561.61	39122561.77	0.0143	0.0112
Venus	102402-06-15 15:49 G	39122788.00	39122788.16	39122788.34	0.0143	0.0090
Venus	102403-01-28 04:47 G	39123014.52	39123014.70	39123014.91	0.0143	0.0069
Venus	102403-09-11 17:59 G	39123241.04	39123241.25	39123241.46	0.0143	0.0048
Venus	102404-04-25 06:42 G	39123467.57	39123467.78	39123468.00	0.0143	0.0026
Venus	102404-12-07 19:25 G	39123694.09	39123694.31	39123694.53	0.0143	0.0005
Venus	102405-07-22 07:54 G	39123920.62	39123920.83	39123921.06	0.0143	0.0017
Venus	102406-03-05 20:37 G	39124147.15	39124147.36	39124147.58	0.0143	0.0038
Venus	102406-10-18 09:06 G	39124373.68	39124373.88	39124374.08	0.0143	0.0059
Venus	102407-06-01 21:06 G	39124600.21	39124600.38	39124600.58	0.0143	0.0080
Venus	102408-01-14 09:21 G	39124826.74	39124826.89	39124827.06	0.0143	0.0101
Venus	102408-08-27 21:21 G	39125053.29	39125053.39	39125053.52	0.0143	0.0121
Venus	102409-04-11 09:35 G	39125279.88	39125279.90	39125279.94	0.0142	0.0141

Mars	102413-01-17 03:35 G	39126656.34	39126656.65	39126656.98	0.0141	0.0038
Mercury	102426-07-24 09:06 G	39131592.81	39131592.88	39131592.97	0.0137	0.0125
Mercury	102426-10-20 17:01 G	39131681.08	39131681.21	39131681.35	0.0137	0.0096
Mercury	102427-01-17 00:42 G	39131769.37	39131769.53	39131769.71	0.0137	0.0068
Mercury	102427-04-15 08:37 G	39131857.67	39131857.86	39131858.05	0.0137	0.0040
Mercury	102427-07-12 16:33 G	39131945.99	39131946.19	39131946.38	0.0137	0.0012
Mercury	102427-10-09 00:13 G	39132034.32	39132034.51	39132034.70	0.0137	0.0016
Mercury	102428-01-05 07:54 G	39132122.65	39132122.83	39132123.02	0.0137	0.0044
Mercury	102428-04-02 15:49 G	39132210.99	39132211.16	39132211.32	0.0137	0.0072
Mercury	102428-06-29 23:30 G	39132299.35	39132299.48	39132299.61	0.0137	0.0100
Mercury	102428-09-26 07:11 G	39132387.74	39132387.80	39132387.87	0.0137	0.0128
Earth	102438-10-17 17:45 G	39136061.10	39136061.24	39136061.41	0.0135	0.0107
Moon	102438-10-17 18:42 G	39136061.12	39136061.28	39136061.46	0.0135	0.0100 *
Moon	102439-10-21 23:59 G	39136430.26	39136430.50	39136430.74	0.0135	0.0022
Earth	102439-10-22 00:57 G	39136430.30	39136430.54	39136430.79	0.0135	0.0019 *
Earth	102440-10-25 07:40 G	39136799.61	39136799.82	39136800.04	0.0135	0.0069
Moon	102440-10-25 09:06 G	39136799.67	39136799.88	39136800.11	0.0135	0.0069 *
Venus	102442-09-25 20:09 G	39137500.31	39137500.34	39137500.41	0.0135	0.0131
Venus	102443-05-10 00:42 G	39137726.44	39137726.53	39137726.66	0.0135	0.0115
Venus	102443-12-22 05:16 G	39137952.59	39137952.72	39137952.88	0.0135	0.0099
Venus	102444-08-04 10:04 G	39138178.76	39138178.92	39138179.10	0.0135	0.0082
Venus	102445-03-18 14:52 G	39138404.93	39138405.12	39138405.31	0.0135	0.0065
Venus	102445-10-30 19:11 G	39138631.11	39138631.30	39138631.51	0.0135	0.0049
Venus	102446-06-13 23:59 G	39138857.30	39138857.50	39138857.71	0.0135	0.0032
Venus	102447-01-26 04:47 G	39139083.49	39139083.70	39139083.91	0.0135	0.0014
Venus	102447-09-09 09:49 G	39139309.69	39139309.91	39139310.12	0.0135	0.0004
Venus	102448-04-22 14:37 G	39139535.90	39139536.11	39139536.32	0.0135	0.0020
Venus	102448-12-04 19:25 G	39139762.11	39139762.31	39139762.52	0.0135	0.0037
Venus	102449-07-19 00:28 G	39139988.33	39139988.52	39139988.72	0.0135	0.0054
Venus	102450-03-02 05:30 G	39140214.56	39140214.73	39140214.92	0.0135	0.0072

Venus	102450-10-14 11:01 G	39140440.80	39140440.96	39140441.12	0.0135	0.0089
Venus	102451-05-28 16:18 G	39140667.06	39140667.18	39140667.32	0.0136	0.0106
Venus	102452-01-09 21:35 G	39140893.33	39140893.40	39140893.51	0.0136	0.0123
Mars	102455-03-29 03:06 G	39142067.62	39142067.63	39142067.68	0.0136	0.0136
Mercury	102469-07-22 22:18 G	39147297.39	39147297.43	39147297.49	0.0141	0.0129
Mercury	102469-10-19 01:40 G	39147385.50	39147385.57	39147385.66	0.0141	0.0109
Mercury	102470-01-15 05:16 G	39147473.62	39147473.72	39147473.82	0.0141	0.0088
Mercury	102470-04-13 08:37 G	39147561.75	39147561.86	39147561.98	0.0141	0.0068
Mercury	102470-07-10 11:59 G	39147649.88	39147650.00	39147650.13	0.0141	0.0047
Mercury	102470-10-06 15:21 G	39147738.01	39147738.14	39147738.27	0.0141	0.0027
Mercury	102471-01-02 18:42 G	39147826.15	39147826.28	39147826.41	0.0141	0.0007
Mercury	102471-03-31 22:04 G	39147914.29	39147914.42	39147914.55	0.0141	0.0015
Mercury	102471-06-28 01:25 G	39148002.44	39148002.56	39148002.69	0.0141	0.0035
Mercury	102471-09-24 04:47 G	39148090.58	39148090.70	39148090.82	0.0141	0.0056
Mercury	102471-12-21 08:09 G	39148178.74	39148178.84	39148178.95	0.0141	0.0076
Mercury	102472-03-18 11:30 G	39148266.89	39148266.98	39148267.08	0.0141	0.0097
Mercury	102472-06-14 14:52 G	39148355.05	39148355.12	39148355.20	0.0141	0.0117
Mercury	102472-09-10 18:13 G	39148443.24	39148443.26	39148443.29	0.0142	0.0138
Moon	102481-04-16 17:30 G	39151583.07	39151583.23	39151583.42	0.0143	0.0101
Earth	102481-04-16 20:09 G	39151583.20	39151583.34	39151583.53	0.0143	0.0109 *
Earth	102482-04-21 22:04 G	39151953.16	39151953.42	39151953.68	0.0143	0.0000
Moon	102482-04-22 01:40 G	39151953.31	39151953.57	39151953.83	0.0143	0.0007 *
Moon	102483-04-26 19:54 G	39152323.18	39152323.33	39152323.50	0.0143	0.0113
Earth	102483-04-26 23:16 G	39152323.32	39152323.47	39152323.65	0.0143	0.0109 *
Venus	102484-11-16 19:25 G	39152893.27	39152893.31	39152893.37	0.0143	0.0139
Venus	102485-07-01 08:09 G	39153119.74	39153119.84	39153119.98	0.0143	0.0120
Venus	102486-02-12 21:21 G	39153346.24	39153346.39	39153346.57	0.0143	0.0099
Venus	102486-09-27 10:18 G	39153572.76	39153572.93	39153573.13	0.0143	0.0078
Venus	102487-05-11 23:16 G	39153799.27	39153799.47	39153799.68	0.0143	0.0056
Venus	102487-12-24 11:59 G	39154025.79	39154026.00	39154026.22	0.0143	0.0035

Venus	102488-08-07 00:42 G	39154252.31	39154252.53	39154252.75	0.0143	0.0014
Venus	102489-03-21 13:25 G	39154478.84	39154479.06	39154479.29	0.0143	0.0008
Venus	102489-11-03 01:54 G	39154705.37	39154705.58	39154705.80	0.0143	0.0029
Venus	102490-06-17 14:23 G	39154931.89	39154932.10	39154932.31	0.0143	0.0050
Venus	102491-01-30 02:37 G	39155158.42	39155158.61	39155158.81	0.0143	0.0071
Venus	102491-09-13 14:37 G	39155384.96	39155385.11	39155385.29	0.0143	0.0092
Venus	102492-04-27 03:06 G	39155611.50	39155611.63	39155611.77	0.0142	0.0112
Venus	102492-12-09 15:06 G	39155838.05	39155838.13	39155838.21	0.0142	0.0132
Mercury	102510-08-14 15:21 G	39162294.06	39162294.14	39162294.25	0.0137	0.0120
Mercury	102510-11-10 23:16 G	39162382.34	39162382.47	39162382.62	0.0137	0.0092
Mercury	102511-02-07 06:57 G	39162470.63	39162470.79	39162470.98	0.0137	0.0064
Mercury	102511-05-06 14:52 G	39162558.94	39162559.12	39162559.32	0.0137	0.0036
Mercury	102511-08-02 22:47 G	39162647.26	39162647.45	39162647.65	0.0137	0.0008
Mercury	102511-10-30 06:28 G	39162735.58	39162735.77	39162735.97	0.0137	0.0021
Mercury	102512-01-26 14:09 G	39162823.92	39162824.09	39162824.28	0.0137	0.0049
Mercury	102512-04-23 21:49 G	39162912.26	39162912.41	39162912.59	0.0137	0.0077
Mercury	102512-07-21 05:30 G	39163000.62	39163000.73	39163000.87	0.0137	0.0105
Mercury	102512-10-17 13:11 G	39163089.02	39163089.05	39163089.12	0.0137	0.0133
Earth	102522-10-19 03:35 G	39166742.49	39166742.65	39166742.81	0.0135	0.0102
Moon	102522-10-19 03:35 G	39166742.51	39166742.65	39166742.82	0.0135	0.0108 *
Moon	102523-10-23 10:18 G	39167111.69	39167111.93	39167112.18	0.0135	0.0010
Earth	102523-10-23 10:33 G	39167111.70	39167111.94	39167112.20	0.0135	0.0015 *
Earth	102524-10-26 17:16 G	39167481.02	39167481.22	39167481.44	0.0135	0.0074
Moon	102524-10-26 17:30 G	39167481.02	39167481.23	39167481.46	0.0135	0.0072 *
Venus	102527-01-08 10:47 G	39168284.88	39168284.95	39168285.07	0.0135	0.0121
Venus	102527-08-22 16:04 G	39168511.04	39168511.17	39168511.30	0.0135	0.0104
Venus	102528-04-04 20:23 G	39168737.20	39168737.35	39168737.52	0.0135	0.0088
Venus	102528-11-17 01:11 G	39168963.37	39168963.55	39168963.73	0.0135	0.0071
Venus	102529-07-01 05:30 G	39169189.55	39169189.73	39169189.94	0.0135	0.0055
Venus	102530-02-12 10:18 G	39169415.73	39169415.93	39169416.14	0.0135	0.0038

Venus	102530-09-26 15:06 G	39169641.93	39169642.13	39169642.35	0.0135	0.0022
Venus	102531-05-10 20:09 G	39169868.13	39169868.34	39169868.55	0.0135	0.0004
Venus	102531-12-23 00:57 G	39170094.33	39170094.54	39170094.75	0.0135	0.0013
Venus	102532-08-05 05:59 G	39170320.54	39170320.75	39170320.96	0.0135	0.0031
Venus	102533-03-19 10:47 G	39170546.76	39170546.95	39170547.16	0.0135	0.0048
Venus	102533-10-31 16:04 G	39170772.99	39170773.17	39170773.37	0.0135	0.0065
Venus	102534-06-14 21:06 G	39170999.23	39170999.38	39170999.57	0.0135	0.0083
Venus	102535-01-27 02:23 G	39171225.48	39171225.60	39171225.77	0.0136	0.0100
Venus	102535-09-10 08:23 G	39171451.75	39171451.85	39171451.96	0.0136	0.0116
Venus	102536-04-23 13:54 G	39171678.05	39171678.08	39171678.13	0.0136	0.0133
Mars	102539-11-22 13:40 G	39172985.79	39172986.07	39172986.36	0.0137	0.0023
Mercury	102553-08-13 05:59 G	39177998.69	39177998.75	39177998.82	0.0141	0.0122
Mercury	102553-11-09 09:21 G	39178086.81	39178086.89	39178086.99	0.0141	0.0102
Mercury	102554-02-05 12:42 G	39178174.93	39178175.03	39178175.14	0.0141	0.0082
Mercury	102554-05-04 16:18 G	39178263.06	39178263.18	39178263.30	0.0141	0.0061
Mercury	102554-07-31 19:25 G	39178351.19	39178351.31	39178351.44	0.0141	0.0041
Mercury	102554-10-27 23:01 G	39178439.33	39178439.46	39178439.59	0.0141	0.0020
Mercury	102555-01-24 02:23 G	39178527.47	39178527.60	39178527.73	0.0141	0.0001
Mercury	102555-04-22 05:45 G	39178615.61	39178615.74	39178615.87	0.0141	0.0021
Mercury	102555-07-19 09:06 G	39178703.75	39178703.88	39178704.01	0.0141	0.0041
Mercury	102555-10-15 12:13 G	39178791.90	39178792.01	39178792.14	0.0141	0.0063
Mercury	102556-01-11 15:49 G	39178880.06	39178880.16	39178880.27	0.0141	0.0082
Mercury	102556-04-08 18:57 G	39178968.21	39178968.29	39178968.39	0.0141	0.0104
Mercury	102556-07-05 22:33 G	39179056.38	39179056.44	39179056.50	0.0141	0.0123
Moon	102565-04-18 05:45 G	39182264.60	39182264.74	39182264.92	0.0143	0.0110
Earth	102565-04-18 08:52 G	39182264.70	39182264.87	39182265.06	0.0143	0.0101 *
Earth	102566-04-23 10:18 G	39182634.67	39182634.93	39182635.18	0.0143	0.0007
Moon	102566-04-23 13:11 G	39182634.79	39182635.05	39182635.31	0.0143	0.0014 *
Moon	102567-04-28 08:09 G	39183004.69	39183004.84	39183004.99	0.0143	0.0114
Earth	102567-04-28 11:30 G	39183004.84	39183004.98	39183005.14	0.0143	0.0117 *

Venus	102569-03-01 15:06 G	39183678.04	39183678.13	39183678.25	0.0143	0.0126
Venus	102569-10-14 04:04 G	39183904.53	39183904.67	39183904.83	0.0143	0.0106
Venus	102570-05-28 17:16 G	39184131.04	39184131.22	39184131.40	0.0143	0.0085
Venus	102571-01-10 05:59 G	39184357.55	39184357.75	39184357.95	0.0143	0.0064
Venus	102571-08-24 18:42 G	39184584.07	39184584.28	39184584.50	0.0143	0.0043
Venus	102572-04-07 07:40 G	39184810.60	39184810.82	39184811.04	0.0143	0.0021
Venus	102572-11-19 20:23 G	39185037.12	39185037.35	39185037.57	0.0143	0.0002
Venus	102573-07-04 08:52 G	39185263.65	39185263.87	39185264.09	0.0143	0.0021
Venus	102574-02-15 21:06 G	39185490.18	39185490.38	39185490.60	0.0143	0.0043
Venus	102574-09-30 09:49 G	39185716.71	39185716.91	39185717.11	0.0143	0.0063
Venus	102575-05-14 21:49 G	39185943.24	39185943.41	39185943.60	0.0143	0.0084
Venus	102575-12-27 09:49 G	39186169.78	39186169.91	39186170.08	0.0142	0.0105
Venus	102576-08-09 21:49 G	39186396.32	39186396.41	39186396.54	0.0142	0.0125
Mars	102580-06-04 13:54 G	39187790.78	39187791.08	39187791.40	0.0142	0.0049
Jupiter	102591-08-26 07:25 G	39191890.41	39191890.81	39191891.26	0.0138	0.0081
Mercury	102594-09-03 22:47 G	39192995.35	39192995.45	39192995.56	0.0137	0.0113
Mercury	102594-12-01 06:42 G	39193083.63	39193083.78	39193083.93	0.0137	0.0085
Mercury	102595-02-27 14:09 G	39193171.92	39193172.09	39193172.28	0.0137	0.0057
Mercury	102595-05-26 22:04 G	39193260.23	39193260.42	39193260.62	0.0137	0.0029
Mercury	102595-08-23 05:59 G	39193348.55	39193348.75	39193348.94	0.0137	0.0001
Mercury	102595-11-19 13:40 G	39193436.88	39193437.07	39193437.26	0.0137	0.0027
Mercury	102596-02-15 21:21 G	39193525.22	39193525.39	39193525.57	0.0137	0.0056
Mercury	102596-05-14 05:01 G	39193613.56	39193613.71	39193613.87	0.0137	0.0084
Mercury	102596-08-10 12:57 G	39193701.93	39193702.04	39193702.15	0.0137	0.0111
Moon	102606-10-20 12:42 G	39197423.86	39197424.03	39197424.25	0.0135	0.0091
Earth	102606-10-20 13:40 G	39197423.92	39197424.07	39197424.26	0.0135	0.0098 *
Earth	102607-10-24 21:06 G	39197793.13	39197793.38	39197793.63	0.0135	0.0010
Moon	102607-10-24 21:35 G	39197793.16	39197793.40	39197793.64	0.0135	0.0014 *
Moon	102608-10-28 03:21 G	39198162.45	39198162.64	39198162.87	0.0135	0.0081
Earth	102608-10-28 03:35 G	39198162.46	39198162.65	39198162.87	0.0135	0.0079 *

Venus	102610-09-08 21:35 G	39198843.35	39198843.40	39198843.49	0.0135	0.0126
Venus	102611-04-23 02:09 G	39199069.49	39199069.59	39199069.73	0.0135	0.0110
Venus	102611-12-05 06:42 G	39199295.65	39199295.78	39199295.95	0.0135	0.0094
Venus	102612-07-18 11:30 G	39199521.82	39199521.98	39199522.17	0.0135	0.0077
Venus	102613-03-01 16:18 G	39199747.99	39199748.18	39199748.38	0.0135	0.0060
Venus	102613-10-13 21:06 G	39199974.18	39199974.38	39199974.58	0.0135	0.0043
Venus	102614-05-28 01:40 G	39200200.37	39200200.57	39200200.79	0.0135	0.0027
Venus	102615-01-09 06:28 G	39200426.56	39200426.77	39200426.99	0.0135	0.0011
Venus	102615-08-23 11:30 G	39200652.77	39200652.98	39200653.20	0.0135	0.0008
Venus	102616-04-05 16:33 G	39200878.98	39200879.19	39200879.40	0.0135	0.0025
Venus	102616-11-17 21:35 G	39201105.20	39201105.40	39201105.61	0.0135	0.0042
Venus	102617-07-02 02:23 G	39201331.42	39201331.60	39201331.81	0.0135	0.0059
Venus	102618-02-13 07:54 G	39201557.66	39201557.83	39201558.01	0.0135	0.0076
Venus	102618-09-27 13:25 G	39201783.91	39201784.06	39201784.22	0.0136	0.0093
Venus	102619-05-11 18:42 G	39202010.17	39202010.28	39202010.42	0.0136	0.0110
Venus	102619-12-23 23:59 G	39202236.45	39202236.50	39202236.60	0.0136	0.0127
Mars	102624-07-18 00:42 G	39203904.32	39203904.53	39203904.74	0.0137	0.0091
Mercury	102637-06-07 10:18 G	39208611.90	39208611.93	39208611.96	0.0141	0.0136
Mercury	102637-09-03 13:25 G	39208700.00	39208700.06	39208700.14	0.0141	0.0116
Mercury	102637-11-30 16:47 G	39208788.11	39208788.20	39208788.31	0.0141	0.0096
Mercury	102638-02-26 20:23 G	39208876.24	39208876.35	39208876.46	0.0141	0.0075
Mercury	102638-05-25 23:45 G	39208964.37	39208964.49	39208964.61	0.0141	0.0055
Mercury	102638-08-22 03:06 G	39209052.51	39209052.63	39209052.76	0.0141	0.0034
Mercury	102638-11-18 06:28 G	39209140.64	39209140.77	39209140.90	0.0141	0.0014
Mercury	102639-02-14 09:49 G	39209228.78	39209228.91	39209229.04	0.0141	0.0008
Mercury	102639-05-13 13:11 G	39209316.93	39209317.05	39209317.18	0.0141	0.0028
Mercury	102639-08-09 16:33 G	39209405.07	39209405.19	39209405.32	0.0141	0.0048
Mercury	102639-11-05 19:54 G	39209493.22	39209493.33	39209493.45	0.0141	0.0069
Mercury	102640-02-01 23:30 G	39209581.38	39209581.48	39209581.58	0.0141	0.0089
Mercury	102640-04-30 02:37 G	39209669.54	39209669.61	39209669.70	0.0141	0.0110

Mercury	102640-07-27 06:13 G	39209757.71	39209757.76	39209757.81	0.0142	0.0130
Moon	102649-04-19 19:25 G	39212946.11	39212946.31	39212946.51	0.0143	0.0087
Earth	102649-04-19 21:06 G	39212946.20	39212946.38	39212946.58	0.0143	0.0094 *
Earth	102650-04-24 22:33 G	39213316.18	39213316.44	39213316.70	0.0143	0.0015
Moon	102650-04-25 01:25 G	39213316.30	39213316.56	39213316.83	0.0143	0.0009 *
Moon	102651-04-29 21:06 G	39213686.27	39213686.38	39213686.49	0.0143	0.0129
Earth	102651-04-29 23:59 G	39213686.37	39213686.50	39213686.63	0.0143	0.0124 *
Venus	102652-10-30 22:04 G	39214236.35	39214236.42	39214236.51	0.0143	0.0133
Venus	102653-06-14 10:47 G	39214462.83	39214462.95	39214463.10	0.0143	0.0113
Venus	102654-01-26 23:59 G	39214689.33	39214689.50	39214689.67	0.0143	0.0091
Venus	102654-09-10 12:57 G	39214915.85	39214916.04	39214916.23	0.0143	0.0071
Venus	102655-04-25 01:54 G	39215142.37	39215142.58	39215142.78	0.0143	0.0050
Venus	102655-12-07 14:37 G	39215368.89	39215369.11	39215369.32	0.0143	0.0028
Venus	102656-07-21 03:06 G	39215595.41	39215595.63	39215595.86	0.0143	0.0008
Venus	102657-03-04 16:04 G	39215821.95	39215822.17	39215822.39	0.0143	0.0014
Venus	102657-10-17 04:33 G	39216048.48	39216048.69	39216048.91	0.0143	0.0035
Venus	102658-05-31 16:47 G	39216275.00	39216275.20	39216275.41	0.0143	0.0056
Venus	102659-01-13 05:01 G	39216501.53	39216501.71	39216501.91	0.0143	0.0077
Venus	102659-08-27 17:16 G	39216728.07	39216728.22	39216728.39	0.0142	0.0097
Venus	102660-04-10 05:30 G	39216954.62	39216954.73	39216954.87	0.0142	0.0117
Venus	102660-11-22 17:30 G	39217181.18	39217181.23	39217181.30	0.0142	0.0136
Mars	102665-01-30 18:42 G	39218711.06	39218711.28	39218711.53	0.0141	0.0100
Mercury	102678-06-28 22:04 G	39223608.39	39223608.42	39223608.47	0.0137	0.0134
Mercury	102678-09-25 05:59 G	39223696.63	39223696.75	39223696.87	0.0137	0.0106
Mercury	102678-12-22 13:25 G	39223784.91	39223785.06	39223785.23	0.0137	0.0078
Mercury	102679-03-20 21:21 G	39223873.22	39223873.39	39223873.58	0.0137	0.0050
Mercury	102679-06-17 05:16 G	39223961.53	39223961.72	39223961.91	0.0137	0.0022
Mercury	102679-09-13 12:57 G	39224049.85	39224050.04	39224050.24	0.0137	0.0006
Mercury	102679-12-10 20:37 G	39224138.18	39224138.36	39224138.55	0.0137	0.0034
Mercury	102680-03-08 04:18 G	39224226.51	39224226.68	39224226.86	0.0137	0.0062

Mercury	102680-06-04 11:59 G	39224314.86	39224315.00	39224315.16	0.0137	0.0090
Mercury	102680-08-31 19:40 G	39224403.24	39224403.32	39224403.43	0.0137	0.0118
Moon	102690-10-20 22:18 G	39228105.27	39228105.43	39228105.62	0.0135	0.0100
Earth	102690-10-20 23:30 G	39228105.32	39228105.48	39228105.68	0.0135	0.0094 *
Earth	102691-10-25 06:57 G	39228474.54	39228474.79	39228475.04	0.0135	0.0005
Moon	102691-10-25 08:09 G	39228474.60	39228474.84	39228475.09	0.0135	0.0002 *
Moon	102692-10-28 12:13 G	39228843.81	39228844.01	39228844.23	0.0135	0.0079
Earth	102692-10-28 13:40 G	39228843.88	39228844.07	39228844.28	0.0135	0.0083 *
Venus	102694-05-09 07:54 G	39229401.80	39229401.83	39229401.89	0.0135	0.0131
Venus	102694-12-21 12:28 G	39229627.92	39229628.02	39229628.14	0.0135	0.0115
Venus	102695-08-04 17:01 G	39229854.08	39229854.21	39229854.37	0.0135	0.0099
Venus	102696-03-17 21:35 G	39230080.25	39230080.40	39230080.59	0.0135	0.0083
Venus	102696-10-30 02:23 G	39230306.42	39230306.60	39230306.80	0.0135	0.0066
Venus	102697-06-13 07:11 G	39230532.60	39230532.80	39230533.00	0.0135	0.0049
Venus	102698-01-25 11:59 G	39230758.79	39230759.00	39230759.21	0.0135	0.0032
Venus	102698-09-08 16:47 G	39230984.99	39230985.20	39230985.42	0.0135	0.0016
Venus	102699-04-22 21:49 G	39231211.20	39231211.41	39231211.62	0.0135	0.0001
Venus	102699-12-05 02:37 G	39231437.40	39231437.61	39231437.83	0.0135	0.0019
Venus	102700-07-19 07:40 G	39231663.62	39231663.82	39231664.03	0.0135	0.0036
Venus	102701-03-02 12:57 G	39231889.84	39231890.04	39231890.23	0.0135	0.0053
Venus	102701-10-14 18:13 G	39232116.08	39232116.26	39232116.44	0.0135	0.0070
Venus	102702-05-28 23:16 G	39232342.32	39232342.47	39232342.65	0.0135	0.0087
Venus	102703-01-10 04:33 G	39232568.57	39232568.69	39232568.84	0.0136	0.0104
Venus	102703-08-24 10:18 G	39232794.84	39232794.93	39232795.04	0.0136	0.0120
Mars	102707-04-13 13:11 G	39234122.83	39234123.05	39234123.28	0.0137	0.0084
Mercury	102721-06-28 17:30 G	39239313.19	39239313.23	39239313.28	0.0141	0.0131
Mercury	102721-09-24 20:52 G	39239401.29	39239401.37	39239401.45	0.0141	0.0111
Mercury	102721-12-22 00:13 G	39239489.41	39239489.51	39239489.61	0.0141	0.0090
Mercury	102722-03-20 03:35 G	39239577.54	39239577.65	39239577.77	0.0141	0.0070
Mercury	102722-06-16 06:57 G	39239665.67	39239665.79	39239665.92	0.0141	0.0050

Mercury	102722-09-12 10:18 G	39239753.81	39239753.93	39239754.06	0.0141	0.0030
Mercury	102722-12-09 13:40 G	39239841.94	39239842.07	39239842.21	0.0141	0.0011
Mercury	102723-03-07 17:16 G	39239930.09	39239930.22	39239930.35	0.0141	0.0012
Mercury	102723-06-03 20:37 G	39240018.23	39240018.36	39240018.48	0.0141	0.0032
Mercury	102723-08-30 23:45 G	39240106.38	39240106.49	39240106.62	0.0141	0.0053
Mercury	102723-11-27 03:21 G	39240194.53	39240194.64	39240194.75	0.0141	0.0073
Mercury	102724-02-23 06:42 G	39240282.68	39240282.78	39240282.88	0.0141	0.0094
Mercury	102724-05-21 09:49 G	39240370.85	39240370.91	39240371.00	0.0142	0.0115
Mercury	102724-08-17 13:25 G	39240459.03	39240459.06	39240459.10	0.0142	0.0135
Moon	102733-04-21 05:59 G	39243627.58	39243627.75	39243627.95	0.0143	0.0097
Earth	102733-04-21 07:25 G	39243627.63	39243627.81	39243628.03	0.0143	0.0090 *
Earth	102734-04-26 08:52 G	39243997.62	39243997.87	39243998.13	0.0143	0.0020
Moon	102734-04-26 10:47 G	39243997.70	39243997.95	39243998.22	0.0143	0.0028 *
Moon	102735-05-01 07:11 G	39244367.69	39244367.80	39244367.93	0.0143	0.0125
Earth	102735-05-01 10:04 G	39244367.83	39244367.92	39244368.04	0.0143	0.0129 *
Venus	102736-07-01 03:35 G	39244794.62	39244794.65	39244794.71	0.0143	0.0140
Venus	102737-02-12 16:33 G	39245021.09	39245021.19	39245021.33	0.0143	0.0120
Venus	102737-09-27 05:59 G	39245247.59	39245247.75	39245247.91	0.0143	0.0099
Venus	102738-05-11 18:28 G	39245474.10	39245474.27	39245474.47	0.0143	0.0078
Venus	102738-12-24 07:25 G	39245700.62	39245700.81	39245701.02	0.0143	0.0057
Venus	102739-08-07 20:23 G	39245927.14	39245927.35	39245927.57	0.0143	0.0036
Venus	102740-03-21 09:21 G	39246153.67	39246153.89	39246154.12	0.0143	0.0015
Venus	102740-11-02 22:18 G	39246380.20	39246380.43	39246380.65	0.0143	0.0007
Venus	102741-06-17 10:33 G	39246606.73	39246606.94	39246607.17	0.0143	0.0028
Venus	102742-01-29 23:01 G	39246833.27	39246833.46	39246833.68	0.0143	0.0049
Venus	102742-09-13 11:45 G	39247059.80	39247059.99	39247060.19	0.0143	0.0069
Venus	102743-04-27 23:59 G	39247286.34	39247286.50	39247286.68	0.0143	0.0090
Venus	102743-12-10 12:13 G	39247512.88	39247513.01	39247513.16	0.0142	0.0110
Venus	102744-07-24 00:13 G	39247739.43	39247739.51	39247739.61	0.0142	0.0129
Mars	102747-10-23 04:47 G	39248925.62	39248925.70	39248925.83	0.0142	0.0134

Mercury	102762-07-20 05:30 G	39254309.66	39254309.73	39254309.82	0.0137	0.0126
Mercury	102762-10-16 13:25 G	39254397.93	39254398.06	39254398.20	0.0137	0.0098
Mercury	102763-01-12 20:52 G	39254486.22	39254486.37	39254486.55	0.0137	0.0070
Mercury	102763-04-11 04:47 G	39254574.52	39254574.70	39254574.89	0.0137	0.0042
Mercury	102763-07-08 12:42 G	39254662.84	39254663.03	39254663.22	0.0137	0.0014
Mercury	102763-10-04 20:23 G	39254751.16	39254751.35	39254751.55	0.0137	0.0014
Mercury	102764-01-01 04:04 G	39254839.49	39254839.67	39254839.86	0.0137	0.0042
Mercury	102764-03-29 11:45 G	39254927.83	39254927.99	39254928.17	0.0137	0.0070
Mercury	102764-06-25 19:25 G	39255016.18	39255016.31	39255016.46	0.0137	0.0098
Mercury	102764-09-22 03:06 G	39255104.57	39255104.63	39255104.72	0.0137	0.0126
Moon	102774-10-22 08:09 G	39258786.65	39258786.84	39258787.07	0.0135	0.0081
Earth	102774-10-22 10:18 G	39258786.77	39258786.93	39258787.14	0.0135	0.0089 *
Earth	102775-10-26 17:45 G	39259155.99	39259156.24	39259156.49	0.0135	0.0001
Moon	102775-10-26 19:40 G	39259156.07	39259156.32	39259156.56	0.0135	0.0006 *
Moon	102776-10-29 22:33 G	39259525.26	39259525.44	39259525.64	0.0135	0.0092
Earth	102776-10-30 00:28 G	39259525.33	39259525.52	39259525.71	0.0135	0.0088 *
Venus	102778-08-21 23:16 G	39260186.39	39260186.47	39260186.58	0.0135	0.0120
Venus	102779-04-05 03:49 G	39260412.54	39260412.66	39260412.81	0.0135	0.0104
Venus	102779-11-17 08:23 G	39260638.70	39260638.85	39260639.02	0.0135	0.0088
Venus	102780-06-30 13:11 G	39260864.87	39260865.05	39260865.23	0.0135	0.0071
Venus	102781-02-11 17:45 G	39261091.05	39261091.24	39261091.44	0.0135	0.0055
Venus	102781-09-25 22:33 G	39261317.24	39261317.44	39261317.65	0.0135	0.0038
Venus	102782-05-10 03:21 G	39261543.43	39261543.64	39261543.85	0.0135	0.0021
Venus	102782-12-22 08:09 G	39261769.63	39261769.84	39261770.06	0.0135	0.0005
Venus	102783-08-05 13:11 G	39261995.84	39261996.05	39261996.26	0.0135	0.0013
Venus	102784-03-18 17:59 G	39262222.05	39262222.25	39262222.47	0.0135	0.0030
Venus	102784-10-30 23:01 G	39262448.27	39262448.46	39262448.67	0.0135	0.0047
Venus	102785-06-14 04:18 G	39262674.50	39262674.68	39262674.87	0.0135	0.0064
Venus	102786-01-26 09:21 G	39262900.73	39262900.89	39262901.07	0.0135	0.0081
Venus	102786-09-09 14:37 G	39263126.98	39263127.11	39263127.28	0.0135	0.0098

Venus	102787-04-23 20:23 G	39263353.24	39263353.35	39263353.47	0.0136	0.0114
Venus	102787-12-06 01:25 G	39263579.53	39263579.56	39263579.64	0.0136	0.0131
Mars	102791-12-06 21:49 G	39265041.14	39265041.41	39265041.70	0.0137	0.0026
Mercury	102805-07-19 00:28 G	39270014.47	39270014.52	39270014.58	0.0141	0.0127
Mercury	102805-10-15 03:49 G	39270102.58	39270102.66	39270102.75	0.0141	0.0107
Mercury	102806-01-11 07:25 G	39270190.71	39270190.81	39270190.91	0.0141	0.0086
Mercury	102806-04-09 10:47 G	39270278.83	39270278.95	39270279.06	0.0141	0.0066
Mercury	102806-07-06 13:54 G	39270366.96	39270367.08	39270367.21	0.0141	0.0046
Mercury	102806-10-02 17:30 G	39270455.10	39270455.23	39270455.36	0.0141	0.0025
Mercury	102806-12-29 20:52 G	39270543.24	39270543.37	39270543.50	0.0141	0.0005
Mercury	102807-03-28 00:13 G	39270631.38	39270631.51	39270631.64	0.0141	0.0016
Mercury	102807-06-24 03:35 G	39270719.53	39270719.65	39270719.78	0.0141	0.0036
Mercury	102807-09-20 06:57 G	39270807.67	39270807.79	39270807.91	0.0141	0.0057
Mercury	102807-12-17 10:18 G	39270895.82	39270895.93	39270896.04	0.0141	0.0077
Mercury	102808-03-14 13:40 G	39270983.98	39270984.07	39270984.17	0.0141	0.0098
Mercury	102808-06-10 17:01 G	39271072.15	39271072.21	39271072.29	0.0141	0.0119
Mercury	102808-09-06 20:37 G	39271160.34	39271160.36	39271160.38	0.0142	0.0139
Moon	102817-04-21 15:49 G	39274308.96	39274309.16	39274309.37	0.0143	0.0079
Earth	102817-04-21 16:04 G	39274308.98	39274309.17	39274309.39	0.0143	0.0086 *
Earth	102818-04-26 17:30 G	39274678.98	39274679.23	39274679.49	0.0143	0.0024
Moon	102818-04-26 19:11 G	39274679.04	39274679.30	39274679.57	0.0143	0.0017 *
Moon	102819-05-01 17:01 G	39275049.17	39275049.21	39275049.27	0.0143	0.0139
Earth	102819-05-01 18:28 G	39275049.20	39275049.27	39275049.38	0.0143	0.0133 *
Venus	102820-10-12 21:06 G	39275579.30	39275579.38	39275579.50	0.0143	0.0127
Venus	102821-05-27 10:18 G	39275805.79	39275805.93	39275806.09	0.0143	0.0107
Venus	102822-01-08 23:01 G	39276032.30	39276032.46	39276032.66	0.0143	0.0086
Venus	102822-08-23 12:13 G	39276258.82	39276259.01	39276259.22	0.0143	0.0065
Venus	102823-04-07 01:11 G	39276485.35	39276485.55	39276485.77	0.0143	0.0044
Venus	102823-11-19 14:09 G	39276711.88	39276712.09	39276712.31	0.0143	0.0023
Venus	102824-07-03 03:06 G	39276938.40	39276938.63	39276938.85	0.0143	0.0003

Venus	102825-02-14 15:49 G	39277164.94	39277165.16	39277165.38	0.0143	0.0019
Venus	102825-09-29 04:18 G	39277391.47	39277391.68	39277391.90	0.0143	0.0040
Venus	102826-05-13 16:47 G	39277618.01	39277618.20	39277618.41	0.0143	0.0061
Venus	102826-12-26 05:01 G	39277844.54	39277844.71	39277844.90	0.0143	0.0082
Venus	102827-08-09 17:16 G	39278071.08	39278071.22	39278071.39	0.0142	0.0102
Venus	102828-03-23 05:30 G	39278297.63	39278297.73	39278297.86	0.0142	0.0121
Venus	102828-11-04 17:30 G	39278524.21	39278524.23	39278524.28	0.0142	0.0141
Mars	102832-06-18 04:47 G	39279845.37	39279845.70	39279846.03	0.0141	0.0010
Mercury	102846-08-09 12:13 G	39285010.93	39285011.01	39285011.12	0.0137	0.0120
Mercury	102846-11-05 19:54 G	39285099.20	39285099.33	39285099.49	0.0137	0.0092
Mercury	102847-02-02 03:49 G	39285187.49	39285187.66	39285187.84	0.0137	0.0064
Mercury	102847-05-01 11:45 G	39285275.80	39285275.99	39285276.18	0.0137	0.0036
Mercury	102847-07-28 19:25 G	39285364.12	39285364.31	39285364.51	0.0137	0.0008
Mercury	102847-10-25 03:06 G	39285452.44	39285452.63	39285452.83	0.0137	0.0020
Mercury	102848-01-21 10:47 G	39285540.77	39285540.95	39285541.14	0.0137	0.0048
Mercury	102848-04-18 18:28 G	39285629.12	39285629.27	39285629.44	0.0137	0.0076
Mercury	102848-07-16 02:09 G	39285717.48	39285717.59	39285717.73	0.0137	0.0104
Mercury	102848-10-12 10:04 G	39285805.87	39285805.92	39285805.98	0.0137	0.0131
Moon	102858-10-22 17:30 G	39289468.06	39289468.23	39289468.44	0.0135	0.0091
Earth	102858-10-22 20:09 G	39289468.16	39289468.34	39289468.55	0.0135	0.0084 *
Earth	102859-10-27 03:21 G	39289837.39	39289837.64	39289837.89	0.0135	0.0005
Moon	102859-10-27 05:59 G	39289837.50	39289837.75	39289837.99	0.0135	0.0012 *
Moon	102860-10-30 07:11 G	39290206.62	39290206.80	39290207.01	0.0135	0.0087
Earth	102860-10-30 09:49 G	39290206.75	39290206.91	39290207.11	0.0135	0.0093 *
Venus	102862-04-21 09:21 G	39290744.83	39290744.89	39290744.98	0.0135	0.0126
Venus	102862-12-03 13:54 G	39290970.97	39290971.08	39290971.22	0.0135	0.0110
Venus	102863-07-17 18:28 G	39291197.13	39291197.27	39291197.44	0.0135	0.0094
Venus	102864-02-28 23:16 G	39291423.30	39291423.47	39291423.65	0.0135	0.0077
Venus	102864-10-12 03:49 G	39291649.48	39291649.66	39291649.86	0.0135	0.0061
Venus	102865-05-26 08:37 G	39291875.67	39291875.86	39291876.07	0.0135	0.0044

Venus	102866-01-07 13:25 G	39292101.86	39292102.06	39292102.27	0.0135	0.0027
Venus	102866-08-21 18:28 G	39292328.06	39292328.27	39292328.48	0.0135	0.0010
Venus	102867-04-04 23:16 G	39292554.26	39292554.47	39292554.69	0.0135	0.0007
Venus	102867-11-17 04:18 G	39292780.47	39292780.68	39292780.89	0.0135	0.0023
Venus	102868-06-30 09:21 G	39293006.68	39293006.89	39293007.09	0.0135	0.0040
Venus	102869-02-11 14:09 G	39293232.91	39293233.09	39293233.29	0.0135	0.0058
Venus	102869-09-25 19:25 G	39293459.14	39293459.31	39293459.50	0.0135	0.0074
Venus	102870-05-10 00:57 G	39293685.38	39293685.54	39293685.70	0.0135	0.0091
Venus	102870-12-22 05:59 G	39293911.63	39293911.75	39293911.89	0.0136	0.0108
Venus	102871-08-05 11:30 G	39294137.90	39294137.98	39294138.07	0.0136	0.0124
Mars	102876-07-31 05:01 G	39295959.71	39295959.71	39295959.77	0.0137	0.0136
Mercury	102889-08-08 07:25 G	39300715.76	39300715.81	39300715.88	0.0141	0.0124
Mercury	102889-11-04 11:01 G	39300803.87	39300803.96	39300804.05	0.0141	0.0103
Mercury	102890-01-31 14:23 G	39300891.99	39300892.10	39300892.21	0.0141	0.0083
Mercury	102890-04-29 17:45 G	39300980.12	39300980.24	39300980.36	0.0141	0.0062
Mercury	102890-07-26 21:06 G	39301068.26	39301068.38	39301068.51	0.0141	0.0042
Mercury	102890-10-23 00:28 G	39301156.39	39301156.52	39301156.65	0.0141	0.0022
Mercury	102891-01-19 03:49 G	39301244.53	39301244.66	39301244.79	0.0141	0.0002
Mercury	102891-04-17 07:11 G	39301332.67	39301332.80	39301332.93	0.0141	0.0020
Mercury	102891-07-14 10:33 G	39301420.82	39301420.94	39301421.07	0.0141	0.0040
Mercury	102891-10-10 13:54 G	39301508.97	39301509.08	39301509.20	0.0141	0.0061
Mercury	102892-01-06 17:16 G	39301597.12	39301597.22	39301597.33	0.0141	0.0081
Mercury	102892-04-03 20:37 G	39301685.28	39301685.36	39301685.46	0.0141	0.0102
Mercury	102892-06-30 23:59 G	39301773.44	39301773.50	39301773.57	0.0141	0.0122
Earth	102901-04-22 23:30 G	39304990.27	39304990.48	39304990.69	0.0143	0.0082
Moon	102901-04-22 23:30 G	39304990.30	39304990.48	39304990.69	0.0143	0.0089 *
Moon	102902-04-28 00:28 G	39305360.26	39305360.52	39305360.78	0.0143	0.0034
Earth	102902-04-28 00:28 G	39305360.27	39305360.52	39305360.78	0.0143	0.0026 *
Moon	102903-05-03 00:13 G	39305730.42	39305730.51	39305730.62	0.0143	0.0130
Earth	102903-05-03 01:25 G	39305730.49	39305730.56	39305730.65	0.0143	0.0136 *

Venus	102904-06-13 00:28 G	39306137.47	39306137.52	39306137.61	0.0143	0.0136
Venus	102905-01-25 13:40 G	39306363.95	39306364.07	39306364.22	0.0143	0.0115
Venus	102905-09-09 02:52 G	39306590.46	39306590.62	39306590.79	0.0143	0.0094
Venus	102906-04-23 16:04 G	39306816.98	39306817.17	39306817.36	0.0143	0.0073
Venus	102906-12-06 04:47 G	39307043.50	39307043.70	39307043.91	0.0143	0.0053
Venus	102907-07-20 17:45 G	39307270.03	39307270.24	39307270.46	0.0143	0.0032
Venus	102908-03-03 06:42 G	39307496.56	39307496.78	39307497.01	0.0143	0.0011
Venus	102908-10-15 19:40 G	39307723.10	39307723.32	39307723.54	0.0143	0.0010
Venus	102909-05-30 08:09 G	39307949.63	39307949.84	39307950.06	0.0143	0.0031
Venus	102910-01-11 20:37 G	39308176.16	39308176.36	39308176.57	0.0143	0.0052
Venus	102910-08-26 09:06 G	39308402.70	39308402.88	39308403.08	0.0143	0.0072
Venus	102911-04-09 21:35 G	39308629.24	39308629.40	39308629.58	0.0143	0.0093
Venus	102911-11-22 09:49 G	39308855.79	39308855.91	39308856.05	0.0142	0.0113
Venus	102912-07-05 22:04 G	39309082.34	39309082.42	39309082.50	0.0142	0.0132
Mercury	102930-08-30 18:42 G	39315712.19	39315712.28	39315712.39	0.0137	0.0116
Mercury	102930-11-27 02:37 G	39315800.46	39315800.61	39315800.76	0.0137	0.0088
Mercury	102931-02-23 10:18 G	39315888.76	39315888.93	39315889.11	0.0137	0.0060
Mercury	102931-05-22 17:59 G	39315977.07	39315977.25	39315977.45	0.0137	0.0032
Mercury	102931-08-19 01:54 G	39316065.38	39316065.58	39316065.78	0.0137	0.0004
Mercury	102931-11-15 09:35 G	39316153.71	39316153.90	39316154.10	0.0137	0.0024
Mercury	102932-02-11 17:16 G	39316242.05	39316242.22	39316242.41	0.0137	0.0052
Mercury	102932-05-10 01:11 G	39316330.39	39316330.55	39316330.71	0.0137	0.0080
Mercury	102932-08-06 08:52 G	39316418.76	39316418.87	39316418.99	0.0137	0.0108
Mercury	102932-11-02 16:33 G	39316507.18	39316507.19	39316507.22	0.0137	0.0136
Moon	102942-10-24 02:23 G	39320149.39	39320149.60	39320149.82	0.0135	0.0072
Earth	102942-10-24 05:45 G	39320149.55	39320149.74	39320149.96	0.0135	0.0080 *
Earth	102943-10-28 12:57 G	39320518.79	39320519.04	39320519.29	0.0135	0.0009
Moon	102943-10-28 16:18 G	39320518.93	39320519.18	39320519.43	0.0135	0.0002 *
Moon	102944-10-31 16:18 G	39320888.03	39320888.18	39320888.35	0.0135	0.0104
Earth	102944-10-31 19:54 G	39320888.16	39320888.33	39320888.50	0.0135	0.0097 *

Venus	102945-12-20 19:40 G	39321303.28	39321303.32	39321303.38	0.0135	0.0131
Venus	102946-08-04 00:28 G	39321529.42	39321529.52	39321529.63	0.0135	0.0115
Venus	102947-03-18 05:01 G	39321755.57	39321755.71	39321755.86	0.0135	0.0099
Venus	102947-10-30 09:35 G	39321981.74	39321981.90	39321982.08	0.0135	0.0083
Venus	102948-06-12 14:09 G	39322207.92	39322208.09	39322208.29	0.0135	0.0067
Venus	102949-01-24 18:57 G	39322434.10	39322434.29	39322434.49	0.0135	0.0050
Venus	102949-09-07 23:59 G	39322660.29	39322660.50	39322660.71	0.0135	0.0033
Venus	102950-04-22 04:47 G	39322886.49	39322886.70	39322886.91	0.0135	0.0017
Venus	102950-12-04 09:35 G	39323112.69	39323112.90	39323113.12	0.0135	0.0002
Venus	102951-07-18 14:23 G	39323338.89	39323339.10	39323339.32	0.0135	0.0017
Venus	102952-02-29 19:25 G	39323565.11	39323565.31	39323565.52	0.0135	0.0034
Venus	102952-10-13 00:28 G	39323791.33	39323791.52	39323791.73	0.0135	0.0051
Venus	102953-05-27 05:30 G	39324017.55	39324017.73	39324017.92	0.0135	0.0068
Venus	102954-01-08 10:33 G	39324243.79	39324243.94	39324244.12	0.0135	0.0085
Venus	102954-08-22 16:04 G	39324470.03	39324470.17	39324470.32	0.0135	0.0101
Venus	102955-04-05 21:06 G	39324696.29	39324696.38	39324696.50	0.0136	0.0118
Venus	102955-11-18 02:37 G	39324922.59	39324922.61	39324922.66	0.0136	0.0134
Mars	102959-04-26 18:57 G	39326178.03	39326178.29	39326178.57	0.0136	0.0041
Mercury	102973-06-02 11:16 G	39331328.96	39331328.97	39331328.99	0.0141	0.0139
Mercury	102973-08-29 14:52 G	39331417.05	39331417.12	39331417.19	0.0141	0.0119
Mercury	102973-11-25 17:59 G	39331505.17	39331505.25	39331505.35	0.0141	0.0099
Mercury	102974-02-21 21:21 G	39331593.29	39331593.39	39331593.51	0.0141	0.0079
Mercury	102974-05-21 00:57 G	39331681.42	39331681.54	39331681.66	0.0141	0.0058
Mercury	102974-08-17 04:18 G	39331769.55	39331769.68	39331769.81	0.0141	0.0038
Mercury	102974-11-13 07:40 G	39331857.69	39331857.82	39331857.95	0.0141	0.0017
Mercury	102975-02-09 11:01 G	39331945.83	39331945.96	39331946.09	0.0141	0.0004
Mercury	102975-05-08 14:23 G	39332033.97	39332034.10	39332034.23	0.0141	0.0024
Mercury	102975-08-04 17:45 G	39332122.12	39332122.24	39332122.37	0.0141	0.0044
Mercury	102975-10-31 21:06 G	39332210.27	39332210.38	39332210.50	0.0141	0.0065
Mercury	102976-01-28 00:28 G	39332298.42	39332298.52	39332298.63	0.0141	0.0085

Mercury	102976-04-25 03:49 G	39332386.58	39332386.66	39332386.75	0.0141	0.0106
Mercury	102976-07-22 07:11 G	39332474.75	39332474.80	39332474.86	0.0141	0.0126
Earth	102985-04-23 07:25 G	39335671.61	39335671.81	39335672.04	0.0143	0.0079
Moon	102985-04-23 09:21 G	39335671.69	39335671.89	39335672.11	0.0143	0.0075 *
Moon	102986-04-28 07:54 G	39336041.57	39336041.83	39336042.10	0.0143	0.0023
Earth	102986-04-28 08:37 G	39336041.61	39336041.86	39336042.11	0.0143	0.0030 *
Earth	102987-05-03 09:21 G	39336411.85	39336411.89	39336411.96	0.0143	0.0139
Venus	102988-02-11 05:01 G	39336695.71	39336695.71	39336695.73	0.0143	0.0143
Venus	102988-09-24 17:45 G	39336922.15	39336922.24	39336922.37	0.0143	0.0124
Venus	102989-05-09 07:11 G	39337148.65	39337148.80	39337148.95	0.0143	0.0103
Venus	102989-12-21 19:54 G	39337375.16	39337375.33	39337375.52	0.0143	0.0082
Venus	102990-08-05 09:06 G	39337601.68	39337601.88	39337602.08	0.0143	0.0061
Venus	102991-03-19 21:49 G	39337828.21	39337828.41	39337828.63	0.0143	0.0041
Venus	102991-11-01 10:47 G	39338054.74	39338054.95	39338055.18	0.0143	0.0020
Venus	102992-06-14 23:45 G	39338281.26	39338281.49	39338281.71	0.0143	0.0002
Venus	102993-01-27 12:13 G	39338507.80	39338508.01	39338508.24	0.0143	0.0022
Venus	102993-09-11 00:57 G	39338734.33	39338734.54	39338734.75	0.0143	0.0043
Venus	102994-04-25 13:11 G	39338960.87	39338961.05	39338961.26	0.0143	0.0064
Venus	102994-12-08 01:40 G	39339187.40	39339187.57	39339187.76	0.0143	0.0084
Venus	102995-07-22 13:54 G	39339413.94	39339414.08	39339414.24	0.0143	0.0104
Venus	102996-03-05 01:54 G	39339640.49	39339640.58	39339640.70	0.0142	0.0123
Venus	102996-10-17 14:09 G	39339867.09	39339867.09	39339867.10	0.0142	0.0142
Mars	102999-11-03 22:47 G	39340979.20	39340979.45	39340979.70	0.0142	0.0093

104TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 104th millennium

CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	103014-09-21 00:28	G	39346413.42	39346413.52	39346413.64	0.0137	0.0113	
Mercury	103014-12-18 08:09	G	39346501.70	39346501.84	39346502.01	0.0137	0.0086	
Mercury	103015-03-16 16:04	G	39346590.00	39346590.17	39346590.35	0.0137	0.0057	
Mercury	103015-06-12 23:59	G	39346678.31	39346678.50	39346678.69	0.0137	0.0029	
Mercury	103015-09-09 07:40	G	39346766.63	39346766.82	39346767.02	0.0137	0.0003	
Mercury	103015-12-06 15:21	G	39346854.96	39346855.14	39346855.34	0.0137	0.0027	
Mercury	103016-03-03 23:16	G	39346943.29	39346943.47	39346943.65	0.0137	0.0055	
Mercury	103016-05-31 06:57	G	39347031.64	39347031.79	39347031.95	0.0137	0.0083	
Mercury	103016-08-27 14:37	G	39347120.01	39347120.11	39347120.23	0.0137	0.0111	
Moon	103026-10-25 10:04	G	39350830.74	39350830.92	39350831.14	0.0135	0.0083	
Earth	103026-10-25 13:54	G	39350830.87	39350831.08	39350831.29	0.0135	0.0077	*
Earth	103027-10-29 20:52	G	39351200.12	39351200.37	39351200.62	0.0135	0.0012	
Moon	103027-10-30 00:28	G	39351200.27	39351200.52	39351200.77	0.0135	0.0020	*
Moon	103028-11-01 23:59	G	39351569.34	39351569.50	39351569.70	0.0135	0.0094	
Earth	103028-11-02 03:35	G	39351569.50	39351569.65	39351569.83	0.0135	0.0101	*
Venus	103030-04-04 09:49	G	39352087.83	39352087.91	39352088.01	0.0135	0.0121	
Venus	103030-11-16 14:37	G	39352313.98	39352314.11	39352314.24	0.0135	0.0105	
Venus	103031-06-30 19:11	G	39352540.14	39352540.30	39352540.46	0.0135	0.0089	
Venus	103032-02-11 23:45	G	39352766.32	39352766.49	39352766.68	0.0135	0.0073	
Venus	103032-09-25 04:47	G	39352992.51	39352992.70	39352992.89	0.0135	0.0056	
Venus	103033-05-09 09:21	G	39353218.70	39353218.89	39353219.10	0.0135	0.0040	
Venus	103033-12-21 14:23	G	39353444.89	39353445.10	39353445.31	0.0135	0.0023	
Venus	103034-08-04 19:11	G	39353671.09	39353671.30	39353671.52	0.0135	0.0007	
Venus	103035-03-19 00:13	G	39353897.30	39353897.51	39353897.72	0.0135	0.0010	
Venus	103035-10-31 05:01	G	39354123.51	39354123.71	39354123.93	0.0135	0.0027	

Venus	103036-06-13 09:49 G	39354349.72	39354349.91	39354350.13	0.0135	0.0045
Venus	103037-01-25 15:06 G	39354575.94	39354576.13	39354576.32	0.0135	0.0061
Venus	103037-09-08 20:09 G	39354802.18	39354802.34	39354802.53	0.0135	0.0078
Venus	103038-04-23 01:40 G	39355028.42	39355028.57	39355028.72	0.0136	0.0094
Venus	103038-12-05 06:42 G	39355254.67	39355254.78	39355254.91	0.0136	0.0111
Venus	103039-07-19 11:59 G	39355480.94	39355481.00	39355481.09	0.0136	0.0127
Mars	103043-12-21 01:54 G	39357096.35	39357096.58	39357096.84	0.0137	0.0071
Mercury	103057-06-23 18:42 G	39362030.25	39362030.28	39362030.32	0.0140	0.0134
Mercury	103057-09-19 22:04 G	39362118.35	39362118.42	39362118.50	0.0141	0.0114
Mercury	103057-12-17 01:25 G	39362206.47	39362206.56	39362206.66	0.0141	0.0093
Mercury	103058-03-15 05:01 G	39362294.59	39362294.71	39362294.82	0.0141	0.0073
Mercury	103058-06-11 08:09 G	39362382.73	39362382.84	39362382.97	0.0141	0.0053
Mercury	103058-09-07 11:45 G	39362470.86	39362470.99	39362471.12	0.0141	0.0032
Mercury	103058-12-04 15:06 G	39362559.00	39362559.13	39362559.26	0.0141	0.0012
Mercury	103059-03-02 18:28 G	39362647.14	39362647.27	39362647.40	0.0141	0.0009
Mercury	103059-05-29 21:49 G	39362735.28	39362735.41	39362735.54	0.0141	0.0029
Mercury	103059-08-26 01:11 G	39362823.43	39362823.55	39362823.67	0.0141	0.0050
Mercury	103059-11-22 04:33 G	39362911.58	39362911.69	39362911.80	0.0141	0.0070
Mercury	103060-02-18 07:54 G	39362999.73	39362999.83	39362999.93	0.0141	0.0091
Mercury	103060-05-16 11:16 G	39363087.89	39363087.97	39363088.05	0.0141	0.0111
Mercury	103060-08-12 14:37 G	39363176.07	39363176.11	39363176.16	0.0141	0.0132
Earth	103069-04-24 17:16 G	39366353.02	39366353.22	39366353.46	0.0143	0.0074
Moon	103069-04-24 20:37 G	39366353.15	39366353.36	39366353.59	0.0143	0.0074 *
Moon	103070-04-29 15:06 G	39366722.88	39366723.13	39366723.38	0.0143	0.0038
Earth	103070-04-29 18:28 G	39366723.02	39366723.27	39366723.52	0.0143	0.0035 *
Moon	103071-05-04 21:21 G	39367093.35	39367093.39	39367093.47	0.0143	0.0138
Venus	103072-05-25 23:16 G	39367480.39	39367480.47	39367480.57	0.0143	0.0130
Venus	103073-01-07 12:13 G	39367706.88	39367707.01	39367707.16	0.0143	0.0110
Venus	103073-08-22 01:11 G	39367933.39	39367933.55	39367933.74	0.0143	0.0090
Venus	103074-04-05 14:23 G	39368159.91	39368160.10	39368160.30	0.0143	0.0069

Venus	103074-11-18 03:06 G	39368386.43	39368386.63	39368386.85	0.0143	0.0049
Venus	103075-07-02 16:04 G	39368612.96	39368613.17	39368613.39	0.0143	0.0028
Venus	103076-02-14 05:01 G	39368839.49	39368839.71	39368839.93	0.0143	0.0007
Venus	103076-09-27 17:45 G	39369066.02	39369066.24	39369066.46	0.0143	0.0014
Venus	103077-05-12 06:13 G	39369292.55	39369292.76	39369292.98	0.0143	0.0034
Venus	103077-12-24 18:42 G	39369519.08	39369519.28	39369519.49	0.0143	0.0055
Venus	103078-08-08 06:57 G	39369745.61	39369745.79	39369745.99	0.0143	0.0075
Venus	103079-03-22 19:25 G	39369972.15	39369972.31	39369972.48	0.0143	0.0095
Venus	103079-11-04 07:25 G	39370198.69	39370198.81	39370198.95	0.0142	0.0115
Venus	103080-06-17 19:25 G	39370425.24	39370425.31	39370425.39	0.0142	0.0134
Mars	103084-06-30 23:01 G	39371899.16	39371899.46	39371899.78	0.0141	0.0052
Mercury	103098-07-14 23:01 G	39377026.46	39377026.46	39377026.49	0.0137	0.0137
Mercury	103098-10-11 06:57 G	39377114.68	39377114.79	39377114.91	0.0137	0.0109
Mercury	103099-01-07 14:52 G	39377202.96	39377203.12	39377203.28	0.0137	0.0081
Mercury	103099-04-05 22:18 G	39377291.26	39377291.43	39377291.62	0.0137	0.0053
Mercury	103099-07-03 06:13 G	39377379.57	39377379.76	39377379.96	0.0137	0.0025
Mercury	103099-09-29 14:09 G	39377467.89	39377468.09	39377468.28	0.0137	0.0004
Mercury	103099-12-26 21:49 G	39377556.22	39377556.41	39377556.60	0.0137	0.0031
Mercury	103100-03-25 05:45 G	39377644.56	39377644.74	39377644.91	0.0137	0.0059
Mercury	103100-06-21 13:25 G	39377732.91	39377733.06	39377733.21	0.0137	0.0087
Mercury	103100-09-17 21:06 G	39377821.28	39377821.38	39377821.49	0.0137	0.0115
Moon	103110-10-26 20:37 G	39381512.17	39381512.36	39381512.58	0.0135	0.0076
Earth	103110-10-26 22:04 G	39381512.22	39381512.42	39381512.64	0.0135	0.0074 *
Earth	103111-10-31 05:30 G	39381881.48	39381881.73	39381881.98	0.0135	0.0016
Moon	103111-10-31 06:28 G	39381881.51	39381881.77	39381882.03	0.0135	0.0015 *
Moon	103112-11-03 10:47 G	39382250.83	39382250.95	39382251.11	0.0135	0.0109
Earth	103112-11-03 12:13 G	39382250.87	39382251.01	39382251.18	0.0135	0.0105 *
Venus	103113-12-03 19:11 G	39382646.25	39382646.30	39382646.39	0.0135	0.0127
Venus	103114-07-17 23:59 G	39382872.39	39382872.50	39382872.63	0.0135	0.0111
Venus	103115-03-01 04:47 G	39383098.56	39383098.70	39383098.86	0.0135	0.0095

Venus	103115-10-13 09:21 G	39383324.74	39383324.89	39383325.08	0.0135	0.0079
Venus	103116-05-26 14:23 G	39383550.92	39383551.10	39383551.30	0.0135	0.0062
Venus	103117-01-07 19:11 G	39383777.10	39383777.30	39383777.51	0.0135	0.0046
Venus	103117-08-22 00:13 G	39384003.30	39384003.51	39384003.72	0.0135	0.0029
Venus	103118-04-05 05:01 G	39384229.50	39384229.71	39384229.93	0.0135	0.0013
Venus	103118-11-17 09:49 G	39384455.70	39384455.91	39384456.13	0.0135	0.0005
Venus	103119-07-01 14:37 G	39384681.91	39384682.11	39384682.33	0.0135	0.0021
Venus	103120-02-12 19:40 G	39384908.12	39384908.32	39384908.53	0.0135	0.0038
Venus	103120-09-26 00:42 G	39385134.34	39385134.53	39385134.74	0.0135	0.0055
Venus	103121-05-10 05:59 G	39385360.57	39385360.75	39385360.93	0.0136	0.0071
Venus	103121-12-22 10:47 G	39385586.80	39385586.95	39385587.13	0.0136	0.0088
Venus	103122-08-05 16:18 G	39385813.05	39385813.18	39385813.32	0.0136	0.0104
Venus	103123-03-19 21:49 G	39386039.31	39386039.41	39386039.51	0.0136	0.0120
Mars	103126-09-15 17:01 G	39387315.05	39387315.21	39387315.41	0.0136	0.0106
Mercury	103141-07-15 01:54 G	39392731.54	39392731.58	39392731.64	0.0141	0.0129
Mercury	103141-10-11 05:30 G	39392819.65	39392819.73	39392819.81	0.0141	0.0108
Mercury	103142-01-07 08:52 G	39392907.77	39392907.87	39392907.97	0.0141	0.0088
Mercury	103142-04-05 12:13 G	39392995.90	39392996.01	39392996.13	0.0141	0.0067
Mercury	103142-07-02 15:35 G	39393084.03	39393084.15	39393084.28	0.0141	0.0047
Mercury	103142-09-28 18:57 G	39393172.17	39393172.29	39393172.43	0.0141	0.0027
Mercury	103142-12-25 22:33 G	39393260.31	39393260.44	39393260.57	0.0141	0.0006
Mercury	103143-03-24 01:54 G	39393348.45	39393348.58	39393348.71	0.0141	0.0015
Mercury	103143-06-20 05:16 G	39393436.59	39393436.72	39393436.85	0.0141	0.0035
Mercury	103143-09-16 08:37 G	39393524.74	39393524.86	39393524.98	0.0141	0.0055
Mercury	103143-12-13 11:59 G	39393612.89	39393613.00	39393613.11	0.0141	0.0076
Mercury	103144-03-10 15:21 G	39393701.05	39393701.14	39393701.24	0.0141	0.0096
Mercury	103144-06-06 18:42 G	39393789.21	39393789.28	39393789.36	0.0141	0.0117
Mercury	103144-09-02 22:04 G	39393877.40	39393877.42	39393877.45	0.0141	0.0138
Earth	103153-04-26 05:01 G	39397034.48	39397034.71	39397034.94	0.0143	0.0067
Moon	103153-04-26 05:01 G	39397034.50	39397034.71	39397034.95	0.0143	0.0075 *

Moon	103154-05-01 05:01 G	39397404.49	39397404.71	39397404.95	0.0143	0.0049
Earth	103154-05-01 05:30 G	39397404.50	39397404.73	39397404.99	0.0143	0.0042 *
Venus	103156-01-25 05:59 G	39398038.69	39398038.75	39398038.82	0.0143	0.0136
Venus	103156-09-07 18:42 G	39398265.17	39398265.28	39398265.42	0.0143	0.0117
Venus	103157-04-22 07:40 G	39398491.67	39398491.82	39398492.00	0.0143	0.0097
Venus	103157-12-04 20:52 G	39398718.19	39398718.37	39398718.56	0.0143	0.0076
Venus	103158-07-19 09:35 G	39398944.71	39398944.90	39398945.11	0.0143	0.0056
Venus	103159-03-02 22:47 G	39399171.23	39399171.45	39399171.67	0.0143	0.0035
Venus	103159-10-15 11:30 G	39399397.76	39399397.98	39399398.20	0.0143	0.0015
Venus	103160-05-29 00:13 G	39399624.29	39399624.51	39399624.73	0.0143	0.0006
Venus	103161-01-10 12:42 G	39399850.81	39399851.03	39399851.25	0.0143	0.0027
Venus	103161-08-25 01:11 G	39400077.34	39400077.55	39400077.76	0.0143	0.0047
Venus	103162-04-08 13:25 G	39400303.88	39400304.06	39400304.27	0.0143	0.0068
Venus	103162-11-21 01:40 G	39400530.41	39400530.57	39400530.76	0.0143	0.0088
Venus	103163-07-05 14:09 G	39400756.94	39400757.09	39400757.23	0.0142	0.0107
Venus	103164-02-17 01:40 G	39400983.49	39400983.57	39400983.69	0.0142	0.0127
Mercury	103182-08-05 05:30 G	39407727.70	39407727.73	39407727.80	0.0137	0.0132
Mercury	103182-11-01 13:25 G	39407815.94	39407816.06	39407816.20	0.0137	0.0104
Mercury	103183-01-28 21:21 G	39407904.23	39407904.39	39407904.56	0.0137	0.0075
Mercury	103183-04-27 05:16 G	39407992.53	39407992.72	39407992.90	0.0137	0.0047
Mercury	103183-07-24 12:57 G	39408080.85	39408081.04	39408081.23	0.0137	0.0019
Mercury	103183-10-20 20:37 G	39408169.17	39408169.36	39408169.56	0.0137	0.0009
Mercury	103184-01-17 04:18 G	39408257.50	39408257.68	39408257.87	0.0137	0.0037
Mercury	103184-04-14 11:59 G	39408345.84	39408346.00	39408346.18	0.0137	0.0065
Mercury	103184-07-11 19:40 G	39408434.19	39408434.32	39408434.48	0.0137	0.0093
Mercury	103184-10-08 03:35 G	39408522.57	39408522.65	39408522.75	0.0137	0.0120
Earth	103194-10-27 06:13 G	39412193.56	39412193.76	39412193.98	0.0135	0.0071
Moon	103194-10-27 09:35 G	39412193.69	39412193.90	39412194.13	0.0135	0.0066 *
Moon	103195-10-31 10:47 G	39412562.71	39412562.95	39412563.20	0.0135	0.0012
Earth	103195-10-31 13:40 G	39412562.83	39412563.07	39412563.32	0.0135	0.0018 *

Earth	103196-11-03 20:37 G	39412932.22	39412932.36	39412932.52	0.0135	0.0107
Moon	103196-11-04 00:13 G	39412932.38	39412932.51	39412932.64	0.0135	0.0114 *
Venus	103197-08-03 04:47 G	39413204.67	39413204.70	39413204.75	0.0135	0.0132
Venus	103198-03-17 09:35 G	39413430.80	39413430.90	39413431.01	0.0135	0.0116
Venus	103198-10-29 14:23 G	39413656.96	39413657.10	39413657.24	0.0135	0.0100
Venus	103199-06-12 19:11 G	39413883.13	39413883.30	39413883.46	0.0135	0.0084
Venus	103200-01-24 23:45 G	39414109.31	39414109.49	39414109.68	0.0135	0.0068
Venus	103200-09-07 04:33 G	39414335.51	39414335.69	39414335.90	0.0135	0.0052
Venus	103201-04-21 09:35 G	39414561.70	39414561.90	39414562.11	0.0135	0.0035
Venus	103201-12-03 14:23 G	39414787.89	39414788.10	39414788.31	0.0135	0.0019
Venus	103202-07-17 19:11 G	39415014.09	39415014.30	39415014.52	0.0135	0.0003
Venus	103203-03-01 00:13 G	39415240.29	39415240.51	39415240.72	0.0135	0.0015
Venus	103203-10-13 05:01 G	39415466.51	39415466.71	39415466.92	0.0135	0.0031
Venus	103204-05-26 10:04 G	39415692.72	39415692.92	39415693.12	0.0135	0.0048
Venus	103205-01-07 14:52 G	39415918.95	39415919.12	39415919.32	0.0136	0.0065
Venus	103205-08-21 20:09 G	39416145.18	39416145.34	39416145.52	0.0136	0.0081
Venus	103206-04-05 01:11 G	39416371.42	39416371.55	39416371.72	0.0136	0.0098
Venus	103206-11-17 06:42 G	39416597.67	39416597.78	39416597.90	0.0136	0.0114
Venus	103207-07-01 11:59 G	39416823.96	39416824.00	39416824.07	0.0136	0.0130
Mars	103211-05-10 23:01 G	39418233.18	39418233.46	39418233.75	0.0137	0.0004
Mercury	103225-08-04 09:21 G	39423432.83	39423432.89	39423432.96	0.0141	0.0123
Mercury	103225-10-31 12:42 G	39423520.95	39423521.03	39423521.12	0.0141	0.0103
Mercury	103226-01-27 16:04 G	39423609.07	39423609.17	39423609.28	0.0141	0.0083
Mercury	103226-04-25 19:40 G	39423697.20	39423697.32	39423697.44	0.0141	0.0062
Mercury	103226-07-22 23:01 G	39423785.33	39423785.46	39423785.59	0.0141	0.0041
Mercury	103226-10-19 02:23 G	39423873.47	39423873.60	39423873.73	0.0141	0.0021
Mercury	103227-01-15 05:45 G	39423961.61	39423961.74	39423961.87	0.0141	0.0003
Mercury	103227-04-13 09:06 G	39424049.75	39424049.88	39424050.01	0.0141	0.0020
Mercury	103227-07-10 12:28 G	39424137.90	39424138.02	39424138.15	0.0141	0.0041
Mercury	103227-10-06 15:49 G	39424226.05	39424226.16	39424226.29	0.0141	0.0062

Mercury	103228-01-02 19:25 G	39424314.20	39424314.31	39424314.42	0.0141	0.0081
Mercury	103228-03-30 22:33 G	39424402.36	39424402.44	39424402.54	0.0141	0.0102
Mercury	103228-06-27 02:09 G	39424490.53	39424490.59	39424490.65	0.0141	0.0122
Moon	103237-04-26 13:11 G	39427715.84	39427716.05	39427716.28	0.0143	0.0069
Earth	103237-04-26 15:35 G	39427715.93	39427716.15	39427716.39	0.0143	0.0062 *
Earth	103238-05-01 16:33 G	39428085.96	39428086.19	39428086.44	0.0143	0.0048
Moon	103238-05-01 19:40 G	39428086.08	39428086.32	39428086.57	0.0143	0.0050 *
Venus	103239-09-24 12:13 G	39428597.01	39428597.01	39428597.02	0.0143	0.0143
Venus	103240-05-08 00:57 G	39428823.44	39428823.54	39428823.66	0.0143	0.0123
Venus	103240-12-20 13:54 G	39429049.94	39429050.08	39429050.25	0.0143	0.0103
Venus	103241-08-04 02:52 G	39429276.45	39429276.62	39429276.81	0.0143	0.0083
Venus	103242-03-18 16:04 G	39429502.98	39429503.17	39429503.38	0.0143	0.0063
Venus	103242-10-31 05:01 G	39429729.50	39429729.71	39429729.93	0.0143	0.0042
Venus	103243-06-14 17:45 G	39429956.03	39429956.24	39429956.47	0.0143	0.0022
Venus	103244-01-27 06:42 G	39430182.55	39430182.78	39430183.00	0.0143	0.0003
Venus	103244-09-09 19:11 G	39430409.08	39430409.30	39430409.52	0.0143	0.0020
Venus	103245-04-24 07:54 G	39430635.62	39430635.83	39430636.04	0.0143	0.0040
Venus	103245-12-06 19:54 G	39430862.15	39430862.33	39430862.55	0.0143	0.0061
Venus	103246-07-21 08:09 G	39431088.68	39431088.84	39431089.04	0.0143	0.0081
Venus	103247-03-04 20:52 G	39431315.21	39431315.37	39431315.53	0.0142	0.0100
Venus	103247-10-17 08:37 G	39431541.75	39431541.86	39431541.99	0.0142	0.0119
Venus	103248-05-30 20:23 G	39431768.32	39431768.35	39431768.42	0.0142	0.0139
Mars	103251-11-17 10:33 G	39433033.63	39433033.94	39433034.27	0.0141	0.0035
Mercury	103266-08-25 12:42 G	39438428.97	39438429.03	39438429.13	0.0137	0.0124
Mercury	103266-11-21 20:37 G	39438517.23	39438517.36	39438517.51	0.0137	0.0096
Mercury	103267-02-18 04:33 G	39438605.52	39438605.69	39438605.86	0.0137	0.0068
Mercury	103267-05-17 12:13 G	39438693.83	39438694.01	39438694.20	0.0137	0.0040
Mercury	103267-08-13 20:09 G	39438782.14	39438782.34	39438782.53	0.0137	0.0012
Mercury	103267-11-10 03:49 G	39438870.47	39438870.66	39438870.85	0.0137	0.0016
Mercury	103268-02-06 11:30 G	39438958.80	39438958.98	39438959.17	0.0137	0.0044

Mercury	103268-05-04 19:11 G	39439047.14	39439047.30	39439047.47	0.0137	0.0072
Mercury	103268-08-01 02:52 G	39439135.50	39439135.62	39439135.76	0.0137	0.0100
Mercury	103268-10-28 10:47 G	39439223.88	39439223.95	39439224.02	0.0137	0.0127
Moon	103278-10-27 11:59 G	39442874.79	39442875.00	39442875.24	0.0135	0.0060
Earth	103278-10-27 16:04 G	39442874.95	39442875.17	39442875.39	0.0135	0.0067 *
Earth	103279-10-31 23:16 G	39443244.22	39443244.47	39443244.72	0.0135	0.0022
Moon	103279-11-01 02:37 G	39443244.36	39443244.61	39443244.85	0.0135	0.0015 *
Moon	103280-11-04 02:37 G	39443613.50	39443613.61	39443613.75	0.0135	0.0116
Earth	103280-11-04 05:59 G	39443613.63	39443613.75	39443613.91	0.0135	0.0111 *
Venus	103281-11-14 19:11 G	39443989.23	39443989.30	39443989.41	0.0135	0.0122
Venus	103282-06-28 23:59 G	39444215.39	39444215.50	39444215.65	0.0135	0.0106
Venus	103283-02-10 04:47 G	39444441.56	39444441.70	39444441.87	0.0135	0.0090
Venus	103283-09-24 09:35 G	39444667.74	39444667.90	39444668.09	0.0135	0.0074
Venus	103284-05-07 14:37 G	39444893.92	39444894.11	39444894.31	0.0135	0.0057
Venus	103284-12-19 19:11 G	39445120.11	39445120.30	39445120.51	0.0135	0.0041
Venus	103285-08-02 23:59 G	39445346.30	39445346.50	39445346.72	0.0135	0.0025
Venus	103286-03-17 05:01 G	39445572.50	39445572.71	39445572.92	0.0135	0.0008
Venus	103286-10-29 09:49 G	39445798.70	39445798.91	39445799.12	0.0135	0.0009
Venus	103287-06-12 14:37 G	39446024.90	39446025.11	39446025.32	0.0135	0.0025
Venus	103288-01-24 19:40 G	39446251.11	39446251.32	39446251.52	0.0135	0.0042
Venus	103288-09-07 00:28 G	39446477.34	39446477.52	39446477.72	0.0135	0.0059
Venus	103289-04-21 05:45 G	39446703.57	39446703.74	39446703.92	0.0135	0.0075
Venus	103289-12-03 10:33 G	39446929.80	39446929.94	39446930.11	0.0136	0.0092
Venus	103290-07-17 15:49 G	39447156.05	39447156.16	39447156.30	0.0136	0.0108
Venus	103291-02-28 21:06 G	39447382.31	39447382.38	39447382.48	0.0136	0.0124
Mars	103296-01-03 06:28 G	39449151.62	39449151.77	39449151.93	0.0137	0.0115
Mercury	103309-05-29 13:11 G	39454046.03	39454046.05	39454046.06	0.0141	0.0139
Mercury	103309-08-25 16:33 G	39454134.12	39454134.19	39454134.26	0.0141	0.0119
Mercury	103309-11-21 19:40 G	39454222.24	39454222.32	39454222.43	0.0141	0.0099
Mercury	103310-02-17 23:16 G	39454310.37	39454310.47	39454310.58	0.0141	0.0078

Mercury	103310-05-17 02:37 G	39454398.50	39454398.61	39454398.73	0.0141	0.0058
Mercury	103310-08-13 06:13 G	39454486.63	39454486.76	39454486.88	0.0141	0.0037
Mercury	103310-11-09 09:35 G	39454574.77	39454574.90	39454575.03	0.0141	0.0017
Mercury	103311-02-05 12:57 G	39454662.91	39454663.04	39454663.17	0.0141	0.0004
Mercury	103311-05-04 16:18 G	39454751.05	39454751.18	39454751.31	0.0141	0.0024
Mercury	103311-07-31 19:40 G	39454839.20	39454839.32	39454839.45	0.0141	0.0045
Mercury	103311-10-27 23:01 G	39454927.35	39454927.46	39454927.58	0.0141	0.0065
Mercury	103312-01-24 02:23 G	39455015.50	39455015.60	39455015.71	0.0141	0.0086
Mercury	103312-04-21 05:45 G	39455103.66	39455103.74	39455103.83	0.0141	0.0106
Mercury	103312-07-18 09:21 G	39455191.83	39455191.89	39455191.94	0.0141	0.0127
Earth	103321-04-28 01:25 G	39458397.33	39458397.56	39458397.80	0.0143	0.0057
Moon	103321-04-28 05:01 G	39458397.48	39458397.71	39458397.95	0.0143	0.0059 *
Moon	103322-05-02 23:01 G	39458767.22	39458767.46	39458767.71	0.0143	0.0048
Earth	103322-05-03 02:23 G	39458767.37	39458767.60	39458767.85	0.0143	0.0052 *
Venus	103324-01-07 06:13 G	39459381.69	39459381.76	39459381.87	0.0143	0.0130
Venus	103324-08-20 19:25 G	39459608.18	39459608.31	39459608.46	0.0143	0.0110
Venus	103325-04-04 08:37 G	39459834.69	39459834.86	39459835.04	0.0143	0.0090
Venus	103325-11-16 21:21 G	39460061.21	39460061.39	39460061.60	0.0143	0.0070
Venus	103326-07-01 10:33 G	39460287.73	39460287.94	39460288.15	0.0143	0.0049
Venus	103327-02-12 23:30 G	39460514.26	39460514.48	39460514.70	0.0143	0.0029
Venus	103327-09-27 12:13 G	39460740.79	39460741.01	39460741.23	0.0143	0.0008
Venus	103328-05-11 00:57 G	39460967.32	39460967.54	39460967.76	0.0143	0.0012
Venus	103328-12-23 13:25 G	39461193.85	39461194.06	39461194.28	0.0143	0.0032
Venus	103329-08-07 01:54 G	39461420.38	39461420.58	39461420.79	0.0143	0.0053
Venus	103330-03-21 14:23 G	39461646.91	39461647.10	39461647.29	0.0143	0.0073
Venus	103330-11-03 02:23 G	39461873.45	39461873.60	39461873.78	0.0143	0.0093
Venus	103331-06-17 14:23 G	39462099.98	39462100.10	39462100.25	0.0142	0.0113
Venus	103332-01-30 02:23 G	39462326.54	39462326.60	39462326.70	0.0142	0.0132
Mars	103336-07-14 14:52 G	39463953.94	39463954.12	39463954.34	0.0141	0.0113
Mercury	103350-09-15 19:54 G	39469130.24	39469130.33	39469130.44	0.0137	0.0117

Mercury	103350-12-13 03:49 G	39469218.52	39469218.66	39469218.81	0.0137	0.0089
Mercury	103351-03-11 11:30 G	39469306.81	39469306.98	39469307.16	0.0137	0.0061
Mercury	103351-06-07 19:25 G	39469395.12	39469395.31	39469395.50	0.0137	0.0033
Mercury	103351-09-04 03:06 G	39469483.44	39469483.63	39469483.83	0.0137	0.0006
Mercury	103351-12-01 10:47 G	39469571.76	39469571.95	39469572.15	0.0137	0.0023
Mercury	103352-02-27 18:42 G	39469660.10	39469660.28	39469660.46	0.0137	0.0050
Mercury	103352-05-26 02:23 G	39469748.44	39469748.60	39469748.76	0.0137	0.0078
Mercury	103352-08-22 10:04 G	39469836.80	39469836.92	39469837.05	0.0137	0.0106
Mercury	103352-11-18 17:30 G	39469925.21	39469925.23	39469925.28	0.0137	0.0134
Earth	103362-10-29 00:57 G	39473556.33	39473556.54	39473556.77	0.0135	0.0064
Moon	103362-10-29 03:06 G	39473556.41	39473556.63	39473556.85	0.0135	0.0058 *
Moon	103363-11-02 06:57 G	39473925.53	39473925.79	39473926.05	0.0135	0.0023
Earth	103363-11-02 08:23 G	39473925.61	39473925.85	39473926.10	0.0135	0.0026 *
Earth	103364-11-05 15:06 G	39474295.02	39474295.13	39474295.28	0.0135	0.0115
Moon	103364-11-05 16:47 G	39474295.10	39474295.20	39474295.35	0.0135	0.0115 *
Venus	103365-07-16 05:01 G	39474547.66	39474547.71	39474547.80	0.0135	0.0127
Venus	103366-02-27 10:04 G	39474773.81	39474773.92	39474774.05	0.0135	0.0111
Venus	103366-10-11 14:52 G	39474999.98	39475000.12	39475000.27	0.0135	0.0095
Venus	103367-05-25 19:25 G	39475226.15	39475226.31	39475226.49	0.0135	0.0079
Venus	103368-01-07 00:13 G	39475452.32	39475452.51	39475452.70	0.0135	0.0063
Venus	103368-08-20 04:47 G	39475678.51	39475678.70	39475678.91	0.0135	0.0047
Venus	103369-04-03 09:49 G	39475904.70	39475904.91	39475905.12	0.0135	0.0031
Venus	103369-11-15 14:23 G	39476130.89	39476131.10	39476131.32	0.0135	0.0014
Venus	103370-06-29 19:11 G	39476357.09	39476357.30	39476357.51	0.0135	0.0002
Venus	103371-02-10 23:59 G	39476583.29	39476583.50	39476583.71	0.0135	0.0019
Venus	103371-09-25 05:01 G	39476809.50	39476809.71	39476809.92	0.0135	0.0035
Venus	103372-05-08 09:35 G	39477035.72	39477035.90	39477036.11	0.0135	0.0053
Venus	103372-12-20 14:37 G	39477261.94	39477262.11	39477262.31	0.0135	0.0069
Venus	103373-08-03 19:54 G	39477488.17	39477488.33	39477488.50	0.0135	0.0085
Venus	103374-03-18 00:42 G	39477714.41	39477714.53	39477714.69	0.0136	0.0102

Venus	103374-10-30 06:13 G	39477940.67	39477940.76	39477940.88	0.0136	0.0118
Venus	103375-06-13 11:30 G	39478166.97	39478166.98	39478167.04	0.0136	0.0134
Mars	103378-09-28 19:40 G	39479370.09	39479370.32	39479370.59	0.0136	0.0067
Jupiter	103392-02-28 02:37 G	39484270.41	39484270.61	39484270.91	0.0140	0.0123
Mercury	103393-06-18 19:54 G	39484747.31	39484747.33	39484747.37	0.0141	0.0136
Mercury	103393-09-14 23:16 G	39484835.41	39484835.47	39484835.56	0.0141	0.0116
Mercury	103393-12-12 02:52 G	39484923.53	39484923.62	39484923.72	0.0141	0.0095
Mercury	103394-03-10 06:13 G	39485011.65	39485011.76	39485011.88	0.0141	0.0075
Mercury	103394-06-06 09:49 G	39485099.79	39485099.91	39485100.03	0.0141	0.0054
Mercury	103394-09-02 13:11 G	39485187.92	39485188.05	39485188.17	0.0141	0.0034
Mercury	103394-11-29 16:33 G	39485276.06	39485276.19	39485276.32	0.0141	0.0013
Mercury	103395-02-25 19:54 G	39485364.20	39485364.33	39485364.46	0.0141	0.0007
Mercury	103395-05-24 23:16 G	39485452.34	39485452.47	39485452.60	0.0141	0.0028
Mercury	103395-08-21 02:37 G	39485540.49	39485540.61	39485540.73	0.0141	0.0048
Mercury	103395-11-17 05:59 G	39485628.64	39485628.75	39485628.87	0.0141	0.0069
Mercury	103396-02-13 09:21 G	39485716.79	39485716.89	39485716.99	0.0141	0.0089
Mercury	103396-05-11 12:42 G	39485804.95	39485805.03	39485805.12	0.0141	0.0110
Mercury	103396-08-07 16:04 G	39485893.13	39485893.17	39485893.23	0.0141	0.0130
Moon	103405-04-29 06:28 G	39489078.53	39489078.77	39489079.03	0.0143	0.0050
Earth	103405-04-29 09:21 G	39489078.65	39489078.89	39489079.13	0.0143	0.0054 *
Earth	103406-05-04 10:04 G	39489448.70	39489448.92	39489449.17	0.0143	0.0056
Moon	103406-05-04 11:59 G	39489448.77	39489449.00	39489449.24	0.0143	0.0048 *
Venus	103407-09-07 10:47 G	39489939.90	39489939.95	39489940.01	0.0143	0.0137
Venus	103408-04-20 23:30 G	39490166.37	39490166.48	39490166.62	0.0143	0.0118
Venus	103408-12-03 12:28 G	39490392.88	39490393.02	39490393.20	0.0143	0.0098
Venus	103409-07-18 01:25 G	39490619.39	39490619.56	39490619.76	0.0143	0.0078
Venus	103410-03-01 14:52 G	39490845.92	39490846.12	39490846.33	0.0143	0.0057
Venus	103410-10-14 03:35 G	39491072.44	39491072.65	39491072.87	0.0143	0.0037
Venus	103411-05-28 16:33 G	39491298.97	39491299.19	39491299.41	0.0143	0.0017
Venus	103412-01-10 05:16 G	39491525.49	39491525.72	39491525.94	0.0143	0.0004

Venus	103412-08-23 17:45 G	39491752.02	39491752.24	39491752.46	0.0143	0.0024
Venus	103413-04-07 06:13 G	39491978.56	39491978.76	39491978.98	0.0143	0.0045
Venus	103413-11-19 18:42 G	39492205.09	39492205.28	39492205.49	0.0143	0.0065
Venus	103414-07-04 06:57 G	39492431.63	39492431.79	39492431.98	0.0143	0.0085
Venus	103415-02-15 19:11 G	39492658.16	39492658.30	39492658.46	0.0142	0.0104
Venus	103415-09-30 07:25 G	39492884.71	39492884.81	39492884.93	0.0142	0.0124
Mars	103419-04-05 12:28 G	39494167.92	39494168.02	39494168.14	0.0142	0.0133
Mercury	103434-10-07 02:52 G	39499831.52	39499831.62	39499831.74	0.0137	0.0111
Mercury	103435-01-03 10:33 G	39499919.80	39499919.94	39499920.11	0.0137	0.0083
Mercury	103435-04-01 18:28 G	39500008.10	39500008.27	39500008.45	0.0137	0.0055
Mercury	103435-06-29 02:23 G	39500096.41	39500096.60	39500096.79	0.0137	0.0027
Mercury	103435-09-25 10:04 G	39500184.72	39500184.92	39500185.11	0.0137	0.0001
Mercury	103435-12-22 17:45 G	39500273.05	39500273.24	39500273.43	0.0137	0.0028
Mercury	103436-03-20 01:11 G	39500361.39	39500361.55	39500361.74	0.0137	0.0057
Mercury	103436-06-16 09:21 G	39500449.73	39500449.89	39500450.04	0.0137	0.0084
Mercury	103436-09-12 16:47 G	39500538.10	39500538.20	39500538.32	0.0137	0.0112
Earth	103446-10-30 10:47 G	39504237.73	39504237.95	39504238.19	0.0135	0.0059
Moon	103446-10-30 11:45 G	39504237.77	39504237.99	39504238.24	0.0135	0.0060 *
Moon	103447-11-03 16:47 G	39504606.97	39504607.20	39504607.44	0.0135	0.0035
Earth	103447-11-03 18:28 G	39504607.02	39504607.27	39504607.51	0.0135	0.0030 *
Earth	103448-11-07 00:57 G	39504976.45	39504976.54	39504976.68	0.0135	0.0120
Moon	103448-11-07 02:23 G	39504976.47	39504976.60	39504976.75	0.0135	0.0113 *
Venus	103449-03-16 15:35 G	39505106.12	39505106.15	39505106.20	0.0135	0.0132
Venus	103449-10-28 20:23 G	39505332.25	39505332.35	39505332.46	0.0135	0.0116
Venus	103450-06-12 00:42 G	39505558.41	39505558.53	39505558.69	0.0135	0.0101
Venus	103451-01-24 05:30 G	39505784.57	39505784.73	39505784.90	0.0135	0.0085
Venus	103451-09-07 10:18 G	39506010.75	39506010.93	39506011.12	0.0135	0.0069
Venus	103452-04-20 14:52 G	39506236.94	39506237.12	39506237.33	0.0135	0.0053
Venus	103452-12-02 19:25 G	39506463.12	39506463.31	39506463.53	0.0135	0.0037
Venus	103453-07-17 00:28 G	39506689.31	39506689.52	39506689.73	0.0135	0.0020

Venus	103454-02-28 05:01 G	39506915.50	39506915.71	39506915.93	0.0135	0.0004
Venus	103454-10-12 09:49 G	39507141.70	39507141.91	39507142.13	0.0135	0.0013
Venus	103455-05-26 14:37 G	39507367.91	39507368.11	39507368.32	0.0135	0.0029
Venus	103456-01-07 19:40 G	39507594.12	39507594.32	39507594.52	0.0135	0.0046
Venus	103456-08-21 00:28 G	39507820.34	39507820.52	39507820.72	0.0135	0.0062
Venus	103457-04-04 05:30 G	39508046.57	39508046.73	39508046.91	0.0135	0.0079
Venus	103457-11-16 10:33 G	39508272.80	39508272.94	39508273.11	0.0135	0.0095
Venus	103458-06-30 15:35 G	39508499.05	39508499.15	39508499.29	0.0136	0.0112
Venus	103459-02-11 20:52 G	39508725.32	39508725.37	39508725.47	0.0136	0.0128
Mars	103463-05-25 01:25 G	39510288.30	39510288.56	39510288.84	0.0136	0.0044
Mercury	103477-07-10 02:52 G	39515448.59	39515448.62	39515448.67	0.0141	0.0133
Mercury	103477-10-06 06:28 G	39515536.69	39515536.77	39515536.85	0.0141	0.0112
Mercury	103478-01-02 09:49 G	39515624.82	39515624.91	39515625.01	0.0141	0.0092
Mercury	103478-03-31 13:11 G	39515712.94	39515713.05	39515713.17	0.0141	0.0071
Mercury	103478-06-27 16:33 G	39515801.07	39515801.19	39515801.32	0.0141	0.0051
Mercury	103478-09-23 19:54 G	39515889.21	39515889.33	39515889.47	0.0141	0.0031
Mercury	103478-12-20 23:30 G	39515977.35	39515977.48	39515977.61	0.0141	0.0010
Mercury	103479-03-19 02:52 G	39516065.49	39516065.62	39516065.75	0.0141	0.0011
Mercury	103479-06-15 06:13 G	39516153.63	39516153.76	39516153.89	0.0141	0.0031
Mercury	103479-09-11 09:35 G	39516241.78	39516241.90	39516242.02	0.0141	0.0051
Mercury	103479-12-08 12:57 G	39516329.93	39516330.04	39516330.15	0.0141	0.0072
Mercury	103480-03-05 16:18 G	39516418.08	39516418.18	39516418.28	0.0141	0.0092
Mercury	103480-06-01 19:40 G	39516506.24	39516506.32	39516506.40	0.0141	0.0113
Mercury	103480-08-28 22:47 G	39516594.42	39516594.45	39516594.50	0.0141	0.0134
Moon	103489-04-29 16:04 G	39519759.94	39519760.17	39519760.42	0.0143	0.0045
Earth	103489-04-29 16:18 G	39519759.95	39519760.18	39519760.43	0.0143	0.0052 *
Earth	103490-05-04 17:30 G	39520130.00	39520130.23	39520130.47	0.0143	0.0058
Moon	103490-05-04 18:28 G	39520130.03	39520130.27	39520130.52	0.0143	0.0052 *
Venus	103491-12-20 03:06 G	39520724.54	39520724.63	39520724.75	0.0143	0.0126
Venus	103492-08-02 16:04 G	39520951.04	39520951.17	39520951.33	0.0143	0.0107

Venus	103493-03-17 05:16 G	39521177.56	39521177.72	39521177.91	0.0143	0.0086
Venus	103493-10-29 18:13 G	39521404.07	39521404.26	39521404.47	0.0143	0.0066
Venus	103494-06-13 06:57 G	39521630.59	39521630.79	39521631.01	0.0143	0.0046
Venus	103495-01-25 20:09 G	39521857.12	39521857.34	39521857.56	0.0143	0.0025
Venus	103495-09-09 08:52 G	39522083.65	39522083.87	39522084.09	0.0143	0.0005
Venus	103496-04-22 21:35 G	39522310.18	39522310.40	39522310.62	0.0143	0.0016
Venus	103496-12-05 10:04 G	39522536.71	39522536.92	39522537.14	0.0143	0.0036
Venus	103497-07-19 22:33 G	39522763.24	39522763.44	39522763.65	0.0143	0.0056
Venus	103498-03-03 11:01 G	39522989.78	39522989.96	39522990.15	0.0143	0.0076
Venus	103498-10-15 23:16 G	39523216.32	39523216.47	39523216.64	0.0143	0.0096
Venus	103499-05-30 11:16 G	39523442.86	39523442.97	39523443.12	0.0142	0.0116
Venus	103500-01-11 23:30 G	39523669.43	39523669.48	39523669.57	0.0142	0.0134
Mars	103503-12-01 12:13 G	39525087.68	39525088.01	39525088.35	0.0141	0.0012
Mercury	103518-08-01 01:11 G	39530444.54	39530444.55	39530444.60	0.0137	0.0136
Mercury	103518-10-28 09:06 G	39530532.77	39530532.88	39530533.01	0.0137	0.0107
Mercury	103519-01-24 17:01 G	39530621.06	39530621.21	39530621.37	0.0137	0.0079
Mercury	103519-04-23 00:42 G	39530709.35	39530709.53	39530709.71	0.0137	0.0051
Mercury	103519-07-20 08:23 G	39530797.66	39530797.85	39530798.05	0.0137	0.0024
Mercury	103519-10-16 16:18 G	39530885.98	39530886.18	39530886.37	0.0137	0.0004
Mercury	103520-01-12 23:59 G	39530974.31	39530974.50	39530974.69	0.0137	0.0032
Mercury	103520-04-10 07:40 G	39531062.65	39531062.82	39531063.00	0.0137	0.0060
Mercury	103520-07-07 15:21 G	39531151.00	39531151.14	39531151.30	0.0137	0.0088
Mercury	103520-10-03 23:01 G	39531239.37	39531239.46	39531239.57	0.0137	0.0116
Moon	103530-10-31 16:04 G	39534918.96	39534919.17	39534919.40	0.0135	0.0063
Earth	103530-10-31 19:11 G	39534919.09	39534919.30	39534919.55	0.0135	0.0056 *
Earth	103531-11-05 02:37 G	39535288.37	39535288.61	39535288.86	0.0135	0.0034
Moon	103531-11-05 05:59 G	39535288.52	39535288.75	39535289.00	0.0135	0.0042 *
Moon	103532-11-08 06:42 G	39535657.67	39535657.78	39535657.91	0.0135	0.0116
Earth	103532-11-08 10:04 G	39535657.82	39535657.92	39535658.02	0.0135	0.0123 *
Venus	103533-06-29 05:45 G	39535890.66	39535890.74	39535890.83	0.0135	0.0122

Venus	103534-02-10 10:04 G	39536116.81	39536116.92	39536117.07	0.0135	0.0107
Venus	103534-09-24 14:52 G	39536342.98	39536343.12	39536343.29	0.0135	0.0091
Venus	103535-05-08 19:40 G	39536569.15	39536569.32	39536569.50	0.0135	0.0075
Venus	103535-12-21 00:13 G	39536795.33	39536795.51	39536795.71	0.0135	0.0059
Venus	103536-08-03 05:01 G	39537021.51	39537021.71	39537021.92	0.0135	0.0043
Venus	103537-03-17 09:49 G	39537247.70	39537247.91	39537248.12	0.0135	0.0027
Venus	103537-10-29 14:37 G	39537473.89	39537474.11	39537474.32	0.0135	0.0011
Venus	103538-06-12 19:11 G	39537700.09	39537700.30	39537700.52	0.0135	0.0006
Venus	103539-01-24 23:59 G	39537926.29	39537926.50	39537926.71	0.0135	0.0023
Venus	103539-09-08 04:47 G	39538152.51	39538152.70	39538152.91	0.0135	0.0040
Venus	103540-04-21 09:49 G	39538378.72	39538378.91	39538379.11	0.0135	0.0056
Venus	103540-12-03 14:37 G	39538604.94	39538605.11	39538605.31	0.0135	0.0073
Venus	103541-07-17 19:40 G	39538831.18	39538831.32	39538831.50	0.0135	0.0089
Venus	103542-03-01 00:57 G	39539057.42	39539057.54	39539057.69	0.0136	0.0105
Venus	103542-10-13 06:28 G	39539283.69	39539283.77	39539283.88	0.0136	0.0121
Mars	103546-02-17 18:13 G	39540507.23	39540507.26	39540507.31	0.0136	0.0135
Mercury	103561-07-31 10:18 G	39546149.88	39546149.93	39546149.98	0.0141	0.0128
Mercury	103561-10-27 13:25 G	39546237.99	39546238.06	39546238.15	0.0141	0.0108
Mercury	103562-01-23 16:47 G	39546326.11	39546326.20	39546326.31	0.0141	0.0088
Mercury	103562-04-21 20:23 G	39546414.24	39546414.35	39546414.47	0.0141	0.0067
Mercury	103562-07-18 23:45 G	39546502.37	39546502.49	39546502.62	0.0141	0.0047
Mercury	103562-10-15 03:06 G	39546590.50	39546590.63	39546590.76	0.0141	0.0027
Mercury	103563-01-11 06:28 G	39546678.64	39546678.77	39546678.91	0.0141	0.0008
Mercury	103563-04-09 10:04 G	39546766.79	39546766.92	39546767.05	0.0141	0.0015
Mercury	103563-07-06 13:11 G	39546854.93	39546855.05	39546855.18	0.0141	0.0035
Mercury	103563-10-02 16:33 G	39546943.08	39546943.19	39546943.32	0.0141	0.0056
Mercury	103563-12-29 20:09 G	39547031.23	39547031.34	39547031.45	0.0141	0.0076
Mercury	103564-03-26 23:16 G	39547119.38	39547119.47	39547119.57	0.0141	0.0096
Mercury	103564-06-23 02:37 G	39547207.55	39547207.61	39547207.69	0.0141	0.0117
Mercury	103564-09-19 06:13 G	39547295.73	39547295.76	39547295.79	0.0141	0.0137

Earth	103573-05-01 00:57 G	39550441.31	39550441.54	39550441.79	0.0143	0.0048
Moon	103573-05-01 04:04 G	39550441.43	39550441.67	39550441.93	0.0143	0.0045 *
Moon	103574-05-05 22:33 G	39550811.23	39550811.44	39550811.68	0.0143	0.0063
Earth	103574-05-06 02:09 G	39550811.36	39550811.59	39550811.82	0.0143	0.0062 *
Venus	103575-08-20 07:40 G	39551282.75	39551282.82	39551282.91	0.0143	0.0133
Venus	103576-04-02 20:37 G	39551509.24	39551509.36	39551509.51	0.0143	0.0114
Venus	103576-11-15 09:35 G	39551735.74	39551735.90	39551736.08	0.0143	0.0094
Venus	103577-06-29 22:33 G	39551962.25	39551962.44	39551962.63	0.0143	0.0074
Venus	103578-02-11 11:16 G	39552188.78	39552188.97	39552189.19	0.0143	0.0054
Venus	103578-09-26 00:13 G	39552415.30	39552415.51	39552415.73	0.0143	0.0034
Venus	103579-05-10 12:57 G	39552641.82	39552642.04	39552642.27	0.0143	0.0014
Venus	103579-12-23 01:40 G	39552868.35	39552868.57	39552868.79	0.0143	0.0007
Venus	103580-08-05 14:23 G	39553094.88	39553095.10	39553095.31	0.0143	0.0027
Venus	103581-03-20 02:52 G	39553321.42	39553321.62	39553321.83	0.0143	0.0047
Venus	103581-11-01 15:06 G	39553547.95	39553548.13	39553548.34	0.0143	0.0068
Venus	103582-06-16 03:21 G	39553774.49	39553774.64	39553774.83	0.0143	0.0088
Venus	103583-01-28 15:49 G	39554001.03	39554001.16	39554001.32	0.0142	0.0107
Venus	103583-09-12 04:04 G	39554227.58	39554227.67	39554227.78	0.0142	0.0126
Jupiter	103599-11-30 08:52 G	39560150.70	39560150.87	39560151.10	0.0138	0.0127
Mercury	103602-08-21 07:25 G	39561145.78	39561145.81	39561145.89	0.0137	0.0132
Mercury	103602-11-17 15:21 G	39561234.02	39561234.14	39561234.28	0.0137	0.0103
Mercury	103603-02-13 23:16 G	39561322.31	39561322.47	39561322.63	0.0137	0.0075
Mercury	103603-05-13 06:42 G	39561410.61	39561410.78	39561410.98	0.0137	0.0048
Mercury	103603-08-09 14:37 G	39561498.92	39561499.11	39561499.31	0.0137	0.0020
Mercury	103603-11-05 22:33 G	39561587.24	39561587.44	39561587.63	0.0137	0.0008
Mercury	103604-02-02 05:59 G	39561675.57	39561675.75	39561675.95	0.0137	0.0036
Mercury	103604-04-30 13:40 G	39561763.91	39561764.07	39561764.25	0.0137	0.0064
Mercury	103604-07-27 21:21 G	39561852.26	39561852.39	39561852.55	0.0137	0.0092
Mercury	103604-10-24 05:16 G	39561940.63	39561940.72	39561940.82	0.0137	0.0119
Moon	103613-10-27 16:47 G	39565231.20	39565231.20	39565231.23	0.0135	0.0135

Earth	103614-11-01 03:49 G	39565600.44	39565600.66	39565600.90	0.0135	0.0052
Moon	103614-11-01 06:42 G	39565600.57	39565600.78	39565601.01	0.0135	0.0059 *
Moon	103615-11-05 07:54 G	39565969.60	39565969.83	39565970.08	0.0135	0.0043
Earth	103615-11-05 11:16 G	39565969.74	39565969.97	39565970.22	0.0135	0.0038 *
Earth	103616-11-08 18:28 G	39566339.20	39566339.27	39566339.36	0.0135	0.0127
Moon	103616-11-08 21:35 G	39566339.32	39566339.40	39566339.49	0.0135	0.0126 *
Venus	103617-02-26 15:06 G	39566449.08	39566449.13	39566449.21	0.0135	0.0128
Venus	103617-10-10 19:54 G	39566675.22	39566675.33	39566675.46	0.0135	0.0113
Venus	103618-05-25 00:28 G	39566901.39	39566901.52	39566901.68	0.0135	0.0097
Venus	103619-01-06 05:01 G	39567127.56	39567127.71	39567127.89	0.0135	0.0081
Venus	103619-08-20 09:49 G	39567353.74	39567353.91	39567354.11	0.0135	0.0065
Venus	103620-04-02 14:37 G	39567579.92	39567580.11	39567580.31	0.0135	0.0049
Venus	103620-11-14 19:11 G	39567806.10	39567806.30	39567806.52	0.0135	0.0033
Venus	103621-06-28 23:59 G	39568032.29	39568032.50	39568032.71	0.0135	0.0017
Venus	103622-02-10 04:47 G	39568258.49	39568258.70	39568258.91	0.0135	0.0000
Venus	103622-09-24 09:49 G	39568484.70	39568484.91	39568485.12	0.0135	0.0016
Venus	103623-05-08 14:37 G	39568710.90	39568711.11	39568711.32	0.0135	0.0033
Venus	103623-12-20 19:25 G	39568937.12	39568937.31	39568937.51	0.0135	0.0049
Venus	103624-08-03 00:28 G	39569163.34	39569163.52	39569163.71	0.0135	0.0066
Venus	103625-03-17 05:30 G	39569389.57	39569389.73	39569389.91	0.0135	0.0082
Venus	103625-10-29 11:01 G	39569615.81	39569615.96	39569616.10	0.0136	0.0098
Venus	103626-06-12 16:18 G	39569842.07	39569842.18	39569842.29	0.0136	0.0114
Venus	103627-01-24 21:35 G	39570068.35	39570068.40	39570068.46	0.0136	0.0130
Mars	103630-10-12 23:01 G	39571425.19	39571425.46	39571425.75	0.0136	0.0024
Mercury	103645-08-20 17:16 G	39576851.17	39576851.22	39576851.29	0.0141	0.0123
Mercury	103645-11-16 20:52 G	39576939.28	39576939.37	39576939.46	0.0141	0.0103
Mercury	103646-02-13 00:13 G	39577027.41	39577027.51	39577027.62	0.0141	0.0083
Mercury	103646-05-12 03:35 G	39577115.54	39577115.65	39577115.77	0.0141	0.0062
Mercury	103646-08-08 06:57 G	39577203.67	39577203.79	39577203.92	0.0141	0.0042
Mercury	103646-11-04 10:18 G	39577291.81	39577291.93	39577292.07	0.0141	0.0022

Mercury	103647-01-31 13:54 G	39577379.95	39577380.08	39577380.21	0.0141	0.0004
Mercury	103647-04-29 17:16 G	39577468.09	39577468.22	39577468.35	0.0141	0.0019
Mercury	103647-07-26 20:37 G	39577556.23	39577556.36	39577556.48	0.0141	0.0040
Mercury	103647-10-22 23:59 G	39577644.38	39577644.50	39577644.62	0.0141	0.0060
Mercury	103648-01-19 03:21 G	39577732.53	39577732.64	39577732.75	0.0141	0.0080
Mercury	103648-04-16 06:42 G	39577820.69	39577820.78	39577820.87	0.0141	0.0101
Mercury	103648-07-13 09:49 G	39577908.86	39577908.91	39577908.99	0.0141	0.0122
Moon	103657-05-01 07:54 G	39581122.59	39581122.83	39581123.08	0.0143	0.0046
Earth	103657-05-01 11:30 G	39581122.74	39581122.98	39581123.23	0.0143	0.0042 *
Earth	103658-05-06 11:59 G	39581492.78	39581493.00	39581493.24	0.0143	0.0068
Moon	103658-05-06 15:21 G	39581492.94	39581493.14	39581493.37	0.0143	0.0075 *
Venus	103659-04-19 13:11 G	39581841.02	39581841.05	39581841.11	0.0143	0.0140
Venus	103659-12-02 01:54 G	39582067.48	39582067.58	39582067.72	0.0143	0.0121
Venus	103660-07-15 15:06 G	39582293.98	39582294.13	39582294.29	0.0143	0.0101
Venus	103661-02-27 04:18 G	39582520.50	39582520.68	39582520.86	0.0143	0.0081
Venus	103661-10-11 17:01 G	39582747.01	39582747.21	39582747.41	0.0143	0.0061
Venus	103662-05-26 05:45 G	39582973.53	39582973.74	39582973.95	0.0143	0.0041
Venus	103663-01-07 18:28 G	39583200.05	39583200.27	39583200.49	0.0143	0.0021
Venus	103663-08-22 07:11 G	39583426.58	39583426.80	39583427.02	0.0143	0.0001
Venus	103664-04-04 19:54 G	39583653.11	39583653.33	39583653.55	0.0143	0.0020
Venus	103664-11-17 08:23 G	39583879.64	39583879.85	39583880.07	0.0143	0.0040
Venus	103665-07-01 20:52 G	39584106.18	39584106.37	39584106.58	0.0143	0.0060
Venus	103666-02-13 09:06 G	39584332.71	39584332.88	39584333.08	0.0143	0.0080
Venus	103666-09-27 21:49 G	39584559.25	39584559.41	39584559.57	0.0142	0.0099
Venus	103667-05-12 09:49 G	39584785.80	39584785.91	39584786.05	0.0142	0.0118
Venus	103667-12-24 22:18 G	39585012.37	39585012.43	39585012.49	0.0142	0.0137
Mars	103671-04-17 08:52 G	39586221.62	39586221.87	39586222.15	0.0142	0.0088
Mercury	103686-09-10 14:09 G	39591847.02	39591847.09	39591847.17	0.0137	0.0127
Mercury	103686-12-07 21:35 G	39591935.28	39591935.40	39591935.55	0.0137	0.0099
Mercury	103687-03-06 05:30 G	39592023.57	39592023.73	39592023.90	0.0137	0.0071

Mercury	103687-06-02 13:25 G	39592111.87	39592112.06	39592112.24	0.0137	0.0043
Mercury	103687-08-29 20:52 G	39592200.18	39592200.37	39592200.57	0.0137	0.0016
Mercury	103687-11-26 04:47 G	39592288.50	39592288.70	39592288.89	0.0137	0.0012
Mercury	103688-02-22 12:28 G	39592376.83	39592377.02	39592377.21	0.0137	0.0040
Mercury	103688-05-20 19:54 G	39592465.17	39592465.33	39592465.51	0.0137	0.0068
Mercury	103688-08-17 03:35 G	39592553.52	39592553.65	39592553.80	0.0137	0.0096
Mercury	103688-11-13 11:30 G	39592641.90	39592641.98	39592642.07	0.0137	0.0123
Moon	103698-11-01 11:16 G	39596281.74	39596281.97	39596282.23	0.0135	0.0051
Earth	103698-11-01 12:13 G	39596281.77	39596282.01	39596282.24	0.0135	0.0050 *
Earth	103699-11-05 19:25 G	39596651.07	39596651.31	39596651.55	0.0135	0.0041
Moon	103699-11-05 20:23 G	39596651.12	39596651.35	39596651.59	0.0135	0.0039 *
Venus	103700-10-28 00:13 G	39597007.49	39597007.51	39597007.56	0.0135	0.0133
Earth	103700-11-10 02:23 G	39597020.55	39597020.60	39597020.68	0.0135	0.0130
Moon	103700-11-10 01:54 G	39597020.57	39597020.58	39597020.61	0.0135	0.0134 *
Venus	103701-06-11 04:47 G	39597233.62	39597233.70	39597233.82	0.0135	0.0118
Venus	103702-01-23 09:49 G	39597459.77	39597459.91	39597460.05	0.0135	0.0102
Venus	103702-09-06 14:09 G	39597685.95	39597686.09	39597686.27	0.0135	0.0088
Venus	103703-04-20 18:57 G	39597912.12	39597912.29	39597912.48	0.0135	0.0071
Venus	103703-12-02 23:45 G	39598138.30	39598138.49	39598138.69	0.0135	0.0055
Venus	103704-07-16 04:18 G	39598364.48	39598364.68	39598364.89	0.0135	0.0039
Venus	103705-02-27 09:06 G	39598590.67	39598590.88	39598591.09	0.0135	0.0023
Venus	103705-10-11 13:54 G	39598816.87	39598817.08	39598817.30	0.0135	0.0007
Venus	103706-05-25 18:42 G	39599043.07	39599043.28	39599043.50	0.0135	0.0010
Venus	103707-01-06 23:30 G	39599269.28	39599269.48	39599269.70	0.0135	0.0027
Venus	103707-08-21 04:47 G	39599495.49	39599495.70	39599495.90	0.0135	0.0043
Venus	103708-04-03 09:21 G	39599721.71	39599721.89	39599722.10	0.0135	0.0060
Venus	103708-11-15 14:37 G	39599947.94	39599948.11	39599948.30	0.0135	0.0076
Venus	103709-06-29 19:40 G	39600174.18	39600174.32	39600174.49	0.0136	0.0092
Venus	103710-02-11 00:57 G	39600400.43	39600400.54	39600400.68	0.0136	0.0108
Venus	103710-09-25 06:28 G	39600626.70	39600626.77	39600626.87	0.0136	0.0124

Mars	103715-06-08 03:35 G	39602343.45	39602343.65	39602343.88	0.0137	0.0087
Mercury	103729-06-14 21:06 G	39607464.37	39607464.38	39607464.41	0.0141	0.0139
Mercury	103729-09-11 00:42 G	39607552.46	39607552.53	39607552.60	0.0141	0.0118
Mercury	103729-12-08 04:04 G	39607640.58	39607640.67	39607640.77	0.0141	0.0098
Mercury	103730-03-06 07:25 G	39607728.70	39607728.81	39607728.92	0.0141	0.0078
Mercury	103730-06-02 11:01 G	39607816.84	39607816.96	39607817.08	0.0141	0.0057
Mercury	103730-08-29 14:23 G	39607904.97	39607905.10	39607905.23	0.0141	0.0037
Mercury	103730-11-25 17:45 G	39607993.11	39607993.24	39607993.37	0.0141	0.0016
Mercury	103731-02-21 21:06 G	39608081.25	39608081.38	39608081.51	0.0141	0.0004
Mercury	103731-05-21 00:28 G	39608169.39	39608169.52	39608169.65	0.0141	0.0024
Mercury	103731-08-17 03:49 G	39608257.54	39608257.66	39608257.79	0.0141	0.0045
Mercury	103731-11-13 07:11 G	39608345.69	39608345.80	39608345.92	0.0141	0.0065
Mercury	103732-02-09 10:47 G	39608433.84	39608433.95	39608434.05	0.0141	0.0086
Mercury	103732-05-07 13:54 G	39608522.00	39608522.08	39608522.17	0.0141	0.0106
Mercury	103732-08-03 17:16 G	39608610.17	39608610.22	39608610.28	0.0141	0.0127
Moon	103740-04-27 20:23 G	39611434.30	39611434.35	39611434.41	0.0143	0.0139
Earth	103741-05-02 22:47 G	39611804.20	39611804.45	39611804.70	0.0143	0.0035
Moon	103741-05-03 00:28 G	39611804.28	39611804.52	39611804.76	0.0143	0.0043 *
Moon	103742-05-07 22:18 G	39612174.22	39612174.43	39612174.66	0.0143	0.0081
Earth	103742-05-07 23:16 G	39612174.27	39612174.47	39612174.71	0.0143	0.0075 *
Venus	103743-08-02 08:37 G	39612625.77	39612625.86	39612625.97	0.0143	0.0127
Venus	103744-03-15 21:21 G	39612852.26	39612852.39	39612852.55	0.0143	0.0108
Venus	103744-10-28 10:33 G	39613078.77	39613078.94	39613079.12	0.0143	0.0088
Venus	103745-06-11 23:16 G	39613305.28	39613305.47	39613305.67	0.0143	0.0068
Venus	103746-01-24 12:13 G	39613531.80	39613532.01	39613532.22	0.0143	0.0048
Venus	103746-09-08 00:57 G	39613758.33	39613758.54	39613758.76	0.0143	0.0028
Venus	103747-04-22 13:54 G	39613984.86	39613985.08	39613985.30	0.0143	0.0008
Venus	103747-12-05 02:37 G	39614211.39	39614211.61	39614211.83	0.0143	0.0012
Venus	103748-07-18 15:06 G	39614437.92	39614438.13	39614438.35	0.0143	0.0033
Venus	103749-03-02 03:49 G	39614664.46	39614664.66	39614664.87	0.0143	0.0053

Venus	103749-10-14 16:04 G	39614890.99	39614891.17	39614891.38	0.0143	0.0073
Venus	103750-05-29 04:47 G	39615117.53	39615117.70	39615117.87	0.0142	0.0092
Venus	103751-01-10 16:47 G	39615344.08	39615344.20	39615344.35	0.0142	0.0111
Venus	103751-08-25 04:47 G	39615570.63	39615570.70	39615570.81	0.0142	0.0131
Mars	103755-12-13 17:59 G	39617141.98	39617142.25	39617142.57	0.0141	0.0068
Mercury	103770-10-01 20:52 G	39622548.29	39622548.37	39622548.48	0.0137	0.0120
Mercury	103770-12-29 04:47 G	39622636.56	39622636.70	39622636.85	0.0137	0.0093
Mercury	103771-03-27 12:13 G	39622724.85	39622725.01	39622725.19	0.0137	0.0065
Mercury	103771-06-23 20:09 G	39622813.16	39622813.34	39622813.53	0.0137	0.0037
Mercury	103771-09-20 03:49 G	39622901.47	39622901.66	39622901.86	0.0137	0.0010
Mercury	103771-12-17 11:30 G	39622989.79	39622989.98	39622990.18	0.0137	0.0019
Mercury	103772-03-14 19:11 G	39623078.12	39623078.30	39623078.49	0.0137	0.0046
Mercury	103772-06-11 02:52 G	39623166.46	39623166.62	39623166.79	0.0137	0.0074
Mercury	103772-09-07 10:18 G	39623254.82	39623254.93	39623255.08	0.0137	0.0102
Mercury	103772-12-04 18:13 G	39623343.21	39623343.26	39623343.33	0.0137	0.0129
Moon	103782-11-02 18:57 G	39626963.06	39626963.29	39626963.53	0.0135	0.0041
Earth	103782-11-02 21:06 G	39626963.15	39626963.38	39626963.62	0.0135	0.0046 *
Earth	103783-11-07 04:18 G	39627332.45	39627332.68	39627332.93	0.0135	0.0044
Moon	103783-11-07 06:28 G	39627332.52	39627332.77	39627333.02	0.0135	0.0038 *
Earth	103784-11-10 11:45 G	39627701.95	39627701.99	39627702.02	0.0135	0.0134
Venus	103785-02-08 14:37 G	39627792.04	39627792.11	39627792.21	0.0135	0.0123
Venus	103785-09-22 19:11 G	39628018.19	39628018.30	39628018.45	0.0135	0.0108
Venus	103786-05-06 23:59 G	39628244.36	39628244.50	39628244.67	0.0135	0.0092
Venus	103786-12-19 04:47 G	39628470.53	39628470.70	39628470.88	0.0135	0.0076
Venus	103787-08-02 09:35 G	39628696.71	39628696.90	39628697.09	0.0135	0.0060
Venus	103788-03-15 14:09 G	39628922.89	39628923.09	39628923.29	0.0135	0.0044
Venus	103788-10-27 18:57 G	39629149.08	39629149.29	39629149.50	0.0135	0.0028
Venus	103789-06-10 23:45 G	39629375.27	39629375.49	39629375.70	0.0135	0.0012
Venus	103790-01-23 04:33 G	39629601.47	39629601.69	39629601.90	0.0135	0.0005
Venus	103790-09-06 09:21 G	39629827.68	39629827.89	39629828.11	0.0135	0.0021

Venus	103791-04-20 14:09 G	39630053.90	39630054.09	39630054.31	0.0135	0.0038
Venus	103791-12-02 19:11 G	39630280.11	39630280.30	39630280.51	0.0135	0.0053
Venus	103792-07-16 00:13 G	39630506.34	39630506.51	39630506.70	0.0135	0.0070
Venus	103793-02-27 05:16 G	39630732.57	39630732.72	39630732.90	0.0136	0.0086
Venus	103793-10-11 10:47 G	39630958.82	39630958.95	39630959.10	0.0136	0.0102
Venus	103794-05-25 15:49 G	39631185.08	39631185.16	39631185.29	0.0136	0.0118
Venus	103795-01-06 21:35 G	39631411.37	39631411.40	39631411.44	0.0136	0.0133
Mars	103798-03-02 20:37 G	39632562.18	39632562.36	39632562.59	0.0136	0.0094
Mercury	103813-07-06 04:18 G	39638165.65	39638165.68	39638165.73	0.0141	0.0134
Mercury	103813-10-02 07:40 G	39638253.76	39638253.82	39638253.91	0.0141	0.0114
Mercury	103813-12-29 11:16 G	39638341.88	39638341.97	39638342.07	0.0141	0.0093
Mercury	103814-03-27 14:37 G	39638430.00	39638430.11	39638430.23	0.0141	0.0073
Mercury	103814-06-23 17:59 G	39638518.13	39638518.25	39638518.38	0.0141	0.0053
Mercury	103814-09-19 21:35 G	39638606.27	39638606.40	39638606.53	0.0141	0.0032
Mercury	103814-12-17 00:57 G	39638694.41	39638694.54	39638694.67	0.0141	0.0012
Mercury	103815-03-15 04:18 G	39638782.55	39638782.68	39638782.81	0.0141	0.0009
Mercury	103815-06-11 07:40 G	39638870.69	39638870.82	39638870.95	0.0141	0.0029
Mercury	103815-09-07 11:01 G	39638958.84	39638958.96	39638959.09	0.0141	0.0050
Mercury	103815-12-04 14:23 G	39639046.99	39639047.10	39639047.22	0.0141	0.0070
Mercury	103816-03-01 17:45 G	39639135.15	39639135.24	39639135.35	0.0141	0.0091
Mercury	103816-05-28 21:21 G	39639223.31	39639223.39	39639223.47	0.0141	0.0111
Mercury	103816-08-25 00:28 G	39639311.48	39639311.52	39639311.58	0.0142	0.0132
Moon	103824-04-29 07:25 G	39642115.74	39642115.81	39642115.92	0.0143	0.0133
Earth	103824-04-29 08:23 G	39642115.82	39642115.85	39642115.93	0.0143	0.0140 *
Earth	103825-05-04 09:21 G	39642485.65	39642485.89	39642486.15	0.0143	0.0030
Moon	103825-05-04 10:33 G	39642485.70	39642485.94	39642486.21	0.0143	0.0036 *
Moon	103826-05-09 08:09 G	39642855.65	39642855.84	39642856.06	0.0143	0.0081
Earth	103826-05-09 10:18 G	39642855.72	39642855.93	39642856.15	0.0143	0.0080 *
Venus	103827-04-02 14:37 G	39643184.04	39643184.11	39643184.20	0.0143	0.0133
Venus	103827-11-15 03:35 G	39643410.53	39643410.65	39643410.79	0.0143	0.0114

Venus	103828-06-28 16:18 G	39643637.03	39643637.18	39643637.36	0.0143	0.0095
Venus	103829-02-10 05:16 G	39643863.55	39643863.72	39643863.92	0.0143	0.0075
Venus	103829-09-24 18:13 G	39644090.07	39644090.26	39644090.48	0.0143	0.0055
Venus	103830-05-09 07:11 G	39644316.59	39644316.80	39644317.03	0.0143	0.0035
Venus	103830-12-21 20:09 G	39644543.12	39644543.34	39644543.56	0.0143	0.0015
Venus	103831-08-05 09:06 G	39644769.65	39644769.88	39644770.10	0.0143	0.0006
Venus	103832-03-18 21:49 G	39644996.19	39644996.41	39644996.63	0.0143	0.0026
Venus	103832-10-31 10:33 G	39645222.73	39645222.94	39645223.15	0.0143	0.0046
Venus	103833-06-14 23:01 G	39645449.27	39645449.46	39645449.66	0.0143	0.0066
Venus	103834-01-27 11:16 G	39645675.81	39645675.97	39645676.16	0.0143	0.0086
Venus	103834-09-10 23:45 G	39645902.36	39645902.49	39645902.65	0.0142	0.0105
Venus	103835-04-25 12:13 G	39646128.92	39646129.01	39646129.13	0.0142	0.0124
Venus	103835-12-08 00:28 G	39646355.52	39646355.52	39646355.54	0.0142	0.0142
Mercury	103854-10-23 04:04 G	39653249.58	39653249.67	39653249.79	0.0137	0.0113
Mercury	103855-01-19 11:59 G	39653337.85	39653338.00	39653338.15	0.0137	0.0085
Mercury	103855-04-17 19:25 G	39653426.15	39653426.31	39653426.50	0.0137	0.0058
Mercury	103855-07-15 03:21 G	39653514.45	39653514.64	39653514.83	0.0137	0.0030
Mercury	103855-10-11 11:01 G	39653602.77	39653602.96	39653603.16	0.0137	0.0003
Mercury	103856-01-07 18:42 G	39653691.09	39653691.28	39653691.47	0.0137	0.0025
Mercury	103856-04-05 02:23 G	39653779.42	39653779.60	39653779.78	0.0137	0.0053
Mercury	103856-07-02 09:49 G	39653867.77	39653867.91	39653868.08	0.0137	0.0081
Mercury	103856-09-28 17:45 G	39653956.13	39653956.24	39653956.36	0.0137	0.0108
Mercury	103856-12-26 01:11 G	39654044.55	39654044.55	39654044.59	0.0137	0.0136
Earth	103865-10-30 22:47 G	39657275.42	39657275.45	39657275.51	0.0135	0.0132
Earth	103866-11-04 06:13 G	39657644.53	39657644.76	39657645.01	0.0135	0.0043
Moon	103866-11-04 10:04 G	39657644.68	39657644.92	39657645.16	0.0135	0.0034 *
Moon	103867-11-08 10:04 G	39658013.69	39658013.92	39658014.17	0.0135	0.0042
Earth	103867-11-08 13:25 G	39658013.84	39658014.06	39658014.30	0.0135	0.0048 *
Venus	103868-10-10 00:28 G	39658350.47	39658350.52	39658350.60	0.0135	0.0128
Venus	103869-05-24 04:47 G	39658576.61	39658576.70	39658576.84	0.0135	0.0113

Venus	103870-01-05 09:49 G	39658802.77	39658802.91	39658803.06	0.0135	0.0097
Venus	103870-08-19 14:09 G	39659028.94	39659029.09	39659029.28	0.0135	0.0082
Venus	103871-04-02 18:57 G	39659255.11	39659255.29	39659255.49	0.0135	0.0066
Venus	103871-11-14 23:30 G	39659481.29	39659481.48	39659481.69	0.0135	0.0050
Venus	103872-06-28 04:18 G	39659707.48	39659707.68	39659707.89	0.0135	0.0034
Venus	103873-02-09 09:06 G	39659933.67	39659933.88	39659934.09	0.0135	0.0018
Venus	103873-09-23 14:09 G	39660159.87	39660160.09	39660160.30	0.0135	0.0003
Venus	103874-05-07 18:42 G	39660386.07	39660386.28	39660386.50	0.0135	0.0015
Venus	103874-12-19 23:30 G	39660612.28	39660612.48	39660612.70	0.0135	0.0032
Venus	103875-08-03 04:33 G	39660838.50	39660838.69	39660838.90	0.0135	0.0047
Venus	103876-03-16 09:35 G	39661064.72	39661064.90	39661065.09	0.0135	0.0063
Venus	103876-10-28 14:37 G	39661290.95	39661291.11	39661291.29	0.0135	0.0080
Venus	103877-06-11 19:54 G	39661517.19	39661517.33	39661517.49	0.0135	0.0096
Venus	103878-01-24 00:57 G	39661743.44	39661743.54	39661743.68	0.0136	0.0112
Venus	103878-09-07 06:28 G	39661969.71	39661969.77	39661969.85	0.0136	0.0127
Mars	103882-10-27 01:11 G	39663480.27	39663480.55	39663480.83	0.0137	0.0015
Mercury	103897-07-26 11:16 G	39668866.93	39668866.97	39668867.03	0.0141	0.0131
Mercury	103897-10-22 14:52 G	39668955.04	39668955.12	39668955.20	0.0141	0.0110
Mercury	103898-01-18 18:13 G	39669043.16	39669043.26	39669043.37	0.0141	0.0090
Mercury	103898-04-16 21:49 G	39669131.29	39669131.41	39669131.52	0.0141	0.0069
Mercury	103898-07-14 01:11 G	39669219.43	39669219.55	39669219.67	0.0141	0.0049
Mercury	103898-10-10 04:33 G	39669307.56	39669307.69	39669307.82	0.0141	0.0028
Mercury	103899-01-06 07:54 G	39669395.70	39669395.83	39669395.96	0.0141	0.0008
Mercury	103899-04-04 11:16 G	39669483.84	39669483.97	39669484.10	0.0141	0.0013
Mercury	103899-07-01 14:37 G	39669571.99	39669572.11	39669572.24	0.0141	0.0033
Mercury	103899-09-27 18:13 G	39669660.14	39669660.26	39669660.38	0.0141	0.0054
Mercury	103899-12-24 21:21 G	39669748.29	39669748.39	39669748.51	0.0141	0.0074
Mercury	103900-03-23 00:57 G	39669836.44	39669836.54	39669836.64	0.0141	0.0094
Mercury	103900-06-19 04:18 G	39669924.61	39669924.68	39669924.76	0.0142	0.0115
Mercury	103900-09-15 07:40 G	39670012.79	39670012.82	39670012.86	0.0142	0.0135

Earth	103908-04-30 18:13 G	39672797.19	39672797.26	39672797.35	0.0143	0.0135
Moon	103908-04-30 21:21 G	39672797.32	39672797.39	39672797.51	0.0143	0.0133 *
Moon	103909-05-05 15:49 G	39673166.91	39673167.16	39673167.41	0.0143	0.0025
Earth	103909-05-05 19:11 G	39673167.04	39673167.30	39673167.55	0.0143	0.0025 *
Earth	103910-05-10 19:40 G	39673537.12	39673537.32	39673537.54	0.0143	0.0085
Moon	103910-05-10 23:16 G	39673537.27	39673537.47	39673537.70	0.0143	0.0079 *
Venus	103910-12-01 19:40 G	39673742.30	39673742.32	39673742.38	0.0143	0.0140
Venus	103911-07-16 08:37 G	39673968.76	39673968.86	39673969.00	0.0143	0.0121
Venus	103912-02-27 22:04 G	39674195.27	39674195.42	39674195.58	0.0143	0.0101
Venus	103912-10-11 10:47 G	39674421.78	39674421.95	39674422.14	0.0143	0.0082
Venus	103913-05-25 23:45 G	39674648.30	39674648.49	39674648.70	0.0143	0.0062
Venus	103914-01-07 12:42 G	39674874.83	39674875.03	39674875.25	0.0143	0.0042
Venus	103914-08-22 01:40 G	39675101.36	39675101.57	39675101.80	0.0143	0.0022
Venus	103915-04-05 14:52 G	39675327.90	39675328.12	39675328.34	0.0143	0.0001
Venus	103915-11-18 03:35 G	39675554.43	39675554.65	39675554.88	0.0143	0.0019
Venus	103916-07-01 16:18 G	39675780.97	39675781.18	39675781.40	0.0143	0.0039
Venus	103917-02-13 05:01 G	39676007.51	39676007.71	39676007.92	0.0143	0.0059
Venus	103917-09-27 17:30 G	39676234.06	39676234.23	39676234.43	0.0143	0.0078
Venus	103918-05-12 06:13 G	39676460.60	39676460.76	39676460.93	0.0142	0.0098
Venus	103918-12-24 18:28 G	39676687.16	39676687.27	39676687.41	0.0142	0.0117
Venus	103919-08-08 06:28 G	39676913.73	39676913.77	39676913.86	0.0142	0.0136
Mars	103923-05-02 03:06 G	39678276.31	39678276.63	39678276.97	0.0142	0.0025
Mercury	103938-08-17 03:35 G	39683862.63	39683862.65	39683862.72	0.0137	0.0134
Mercury	103938-11-13 11:30 G	39683950.87	39683950.98	39683951.11	0.0137	0.0105
Mercury	103939-02-09 19:11 G	39684039.15	39684039.30	39684039.47	0.0137	0.0078
Mercury	103939-05-09 02:52 G	39684127.45	39684127.62	39684127.81	0.0137	0.0050
Mercury	103939-08-05 10:33 G	39684215.76	39684215.94	39684216.14	0.0137	0.0023
Mercury	103939-11-01 18:28 G	39684304.07	39684304.27	39684304.46	0.0137	0.0005
Mercury	103940-01-29 01:54 G	39684392.40	39684392.58	39684392.78	0.0137	0.0033
Mercury	103940-04-26 09:35 G	39684480.73	39684480.90	39684481.08	0.0137	0.0061

Mercury	103940-07-23 17:30 G	39684569.08	39684569.23	39684569.38	0.0137	0.0088
Mercury	103940-10-20 00:57 G	39684657.45	39684657.54	39684657.65	0.0137	0.0116
Earth	103949-11-01 09:21 G	39687956.82	39687956.89	39687956.98	0.0135	0.0127
Moon	103949-11-01 11:45 G	39687956.97	39687956.99	39687957.05	0.0135	0.0133 *
Moon	103950-11-05 13:40 G	39688325.83	39688326.07	39688326.33	0.0135	0.0033
Earth	103950-11-05 16:47 G	39688325.96	39688326.20	39688326.45	0.0135	0.0037 *
Earth	103951-11-09 23:30 G	39688695.27	39688695.48	39688695.73	0.0135	0.0053
Moon	103951-11-10 02:09 G	39688695.37	39688695.59	39688695.82	0.0135	0.0053 *
Venus	103952-06-10 10:47 G	39688908.93	39688908.95	39688909.00	0.0135	0.0133
Venus	103953-01-22 15:21 G	39689135.05	39689135.14	39689135.26	0.0135	0.0118
Venus	103953-09-05 20:23 G	39689361.22	39689361.35	39689361.49	0.0135	0.0102
Venus	103954-04-20 00:42 G	39689587.38	39689587.53	39689587.71	0.0135	0.0087
Venus	103954-12-02 05:30 G	39689813.55	39689813.73	39689813.91	0.0135	0.0071
Venus	103955-07-16 10:04 G	39690039.73	39690039.92	39690040.12	0.0135	0.0055
Venus	103956-02-27 14:37 G	39690265.91	39690266.11	39690266.32	0.0135	0.0039
Venus	103956-10-10 19:25 G	39690492.11	39690492.31	39690492.53	0.0135	0.0023
Venus	103957-05-25 00:13 G	39690718.30	39690718.51	39690718.73	0.0135	0.0007
Venus	103958-01-06 05:01 G	39690944.50	39690944.71	39690944.93	0.0135	0.0009
Venus	103958-08-20 10:04 G	39691170.71	39691170.92	39691171.13	0.0135	0.0026
Venus	103959-04-03 14:52 G	39691396.92	39691397.12	39691397.32	0.0135	0.0042
Venus	103959-11-15 19:40 G	39691623.14	39691623.32	39691623.52	0.0135	0.0058
Venus	103960-06-29 00:42 G	39691849.36	39691849.53	39691849.71	0.0135	0.0074
Venus	103961-02-10 05:45 G	39692075.59	39692075.74	39692075.91	0.0135	0.0090
Venus	103961-09-24 10:47 G	39692301.83	39692301.95	39692302.10	0.0135	0.0106
Venus	103962-05-08 15:49 G	39692528.09	39692528.16	39692528.28	0.0136	0.0122
Mars	103967-06-22 05:16 G	39694398.63	39694398.72	39694398.86	0.0137	0.0125
Mercury	103981-08-16 18:28 G	39699568.22	39699568.27	39699568.32	0.0141	0.0127
Mercury	103981-11-12 21:49 G	39699656.33	39699656.41	39699656.50	0.0141	0.0107
Mercury	103982-02-09 01:11 G	39699744.45	39699744.55	39699744.66	0.0141	0.0087
Mercury	103982-05-08 04:33 G	39699832.58	39699832.69	39699832.81	0.0141	0.0066

Mercury	103982-08-04 07:54 G	39699920.71	39699920.83	39699920.96	0.0141	0.0046
Mercury	103982-10-31 11:30 G	39700008.85	39700008.98	39700009.11	0.0141	0.0025
Mercury	103983-01-27 14:52 G	39700096.99	39700097.12	39700097.25	0.0141	0.0005
Mercury	103983-04-25 18:13 G	39700185.13	39700185.26	39700185.39	0.0141	0.0016
Mercury	103983-07-22 21:35 G	39700273.28	39700273.40	39700273.53	0.0141	0.0037
Mercury	103983-10-19 00:57 G	39700361.43	39700361.54	39700361.67	0.0141	0.0057
Mercury	103984-01-15 04:18 G	39700449.58	39700449.68	39700449.80	0.0141	0.0078
Mercury	103984-04-12 07:54 G	39700537.74	39700537.83	39700537.92	0.0141	0.0098
Mercury	103984-07-09 11:01 G	39700625.90	39700625.96	39700626.04	0.0142	0.0119
Mercury	103984-10-05 14:37 G	39700714.09	39700714.11	39700714.14	0.0142	0.0139
Moon	103992-04-30 21:49 G	39703478.35	39703478.41	39703478.51	0.0143	0.0136
Earth	103992-05-01 01:54 G	39703478.49	39703478.58	39703478.68	0.0143	0.0132 *
Earth	103993-05-06 02:37 G	39703848.35	39703848.61	39703848.86	0.0143	0.0023
Moon	103993-05-06 05:45 G	39703848.49	39703848.74	39703848.99	0.0143	0.0016 *
Moon	103994-05-11 00:13 G	39704218.31	39704218.51	39704218.75	0.0143	0.0080
Earth	103994-05-11 03:21 G	39704218.45	39704218.64	39704218.85	0.0143	0.0088 *
Venus	103995-03-15 12:57 G	39704526.95	39704527.04	39704527.15	0.0143	0.0128
Venus	103995-10-28 01:54 G	39704753.45	39704753.58	39704753.73	0.0143	0.0109
Venus	103996-06-10 14:52 G	39704979.96	39704980.12	39704980.30	0.0143	0.0090
Venus	103997-01-23 04:04 G	39705206.48	39705206.67	39705206.87	0.0143	0.0069
Venus	103997-09-06 17:16 G	39705433.01	39705433.22	39705433.43	0.0143	0.0049
Venus	103998-04-21 06:13 G	39705659.54	39705659.76	39705659.98	0.0143	0.0029
Venus	103998-12-03 19:11 G	39705886.08	39705886.30	39705886.52	0.0143	0.0009
Venus	103999-07-18 08:09 G	39706112.62	39706112.84	39706113.06	0.0143	0.0011
Venus	104000-02-29 21:06 G	39706339.16	39706339.38	39706339.60	0.0143	0.0031
Venus	104000-10-13 09:49 G	39706565.70	39706565.91	39706566.12	0.0143	0.0051

105TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 105th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	104001-05-27 22:18	G	39706792.25	39706792.43	39706792.63	0.0143	0.0071	
Venus	104002-01-09 11:01	G	39707018.79	39707018.96	39707019.13	0.0143	0.0090	
Venus	104002-08-23 23:01	G	39707245.34	39707245.46	39707245.62	0.0143	0.0110	
Venus	104003-04-07 11:59	G	39707471.91	39707472.00	39707472.10	0.0142	0.0128	
Mars	104007-12-27 06:13	G	39709196.61	39709196.76	39709196.93	0.0141	0.0124	
Mercury	104022-09-06 10:47	G	39714563.89	39714563.95	39714564.03	0.0137	0.0127	
Mercury	104022-12-03 18:28	G	39714652.15	39714652.27	39714652.41	0.0137	0.0099	
Mercury	104023-03-02 02:09	G	39714740.43	39714740.59	39714740.76	0.0137	0.0072	
Mercury	104023-05-29 09:49	G	39714828.73	39714828.91	39714829.10	0.0137	0.0044	
Mercury	104023-08-25 17:45	G	39714917.05	39714917.24	39714917.43	0.0137	0.0016	
Mercury	104023-11-22 01:25	G	39715005.36	39715005.56	39715005.75	0.0137	0.0011	
Mercury	104024-02-18 09:06	G	39715093.69	39715093.88	39715094.07	0.0137	0.0039	
Mercury	104024-05-16 16:33	G	39715182.03	39715182.19	39715182.37	0.0137	0.0067	
Mercury	104024-08-13 00:13	G	39715270.38	39715270.51	39715270.66	0.0137	0.0094	
Mercury	104024-11-09 07:54	G	39715358.76	39715358.83	39715358.93	0.0137	0.0122	
Moon	104033-11-01 18:42	G	39718638.19	39718638.28	39718638.40	0.0135	0.0122	
Earth	104033-11-01 18:42	G	39718638.20	39718638.28	39718638.40	0.0135	0.0123	*
Earth	104034-11-06 02:09	G	39719007.36	39719007.59	39719007.85	0.0135	0.0033	
Moon	104034-11-06 02:37	G	39719007.38	39719007.61	39719007.84	0.0135	0.0035	*
Earth	104035-11-10 09:21	G	39719376.67	39719376.89	39719377.12	0.0135	0.0057	
Moon	104035-11-10 09:21	G	39719376.68	39719376.89	39719377.14	0.0135	0.0063	*

Venus	104036-09-22 01:40 G	39719693.50	39719693.57	39719693.67	0.0135	0.0123
Venus	104037-05-06 05:59 G	39719919.64	39719919.75	39719919.90	0.0135	0.0108
Venus	104037-12-18 10:47 G	39720145.81	39720145.95	39720146.11	0.0135	0.0092
Venus	104038-08-01 15:21 G	39720371.98	39720372.14	39720372.33	0.0135	0.0077
Venus	104039-03-15 19:54 G	39720598.15	39720598.33	39720598.53	0.0135	0.0061
Venus	104039-10-28 00:42 G	39720824.34	39720824.53	39720824.74	0.0135	0.0045
Venus	104040-06-10 05:30 G	39721050.52	39721050.73	39721050.94	0.0135	0.0029
Venus	104041-01-22 10:04 G	39721276.71	39721276.92	39721277.14	0.0135	0.0013
Venus	104041-09-05 15:06 G	39721502.92	39721503.13	39721503.34	0.0135	0.0003
Venus	104042-04-19 19:54 G	39721729.12	39721729.33	39721729.54	0.0135	0.0019
Venus	104042-12-02 00:42 G	39721955.32	39721955.53	39721955.74	0.0135	0.0035
Venus	104043-07-16 05:30 G	39722181.53	39722181.73	39722181.93	0.0135	0.0052
Venus	104044-02-27 10:18 G	39722407.75	39722407.93	39722408.12	0.0135	0.0068
Venus	104044-10-10 15:21 G	39722633.98	39722634.14	39722634.32	0.0135	0.0084
Venus	104045-05-24 20:23 G	39722860.22	39722860.35	39722860.50	0.0135	0.0099
Venus	104046-01-06 01:40 G	39723086.46	39723086.57	39723086.68	0.0136	0.0115
Venus	104046-08-20 06:28 G	39723312.73	39723312.77	39723312.84	0.0136	0.0131
Mars	104050-03-16 23:01 G	39724617.22	39724617.46	39724617.73	0.0136	0.0058
Mercury	104065-09-06 01:11 G	39730269.50	39730269.55	39730269.62	0.0141	0.0124
Mercury	104065-12-03 04:33 G	39730357.61	39730357.69	39730357.79	0.0141	0.0104
Mercury	104066-03-01 08:09 G	39730445.74	39730445.84	39730445.95	0.0141	0.0083
Mercury	104066-05-28 11:30 G	39730533.87	39730533.98	39730534.10	0.0141	0.0063
Mercury	104066-08-24 15:06 G	39730622.00	39730622.13	39730622.25	0.0141	0.0042
Mercury	104066-11-20 18:28 G	39730710.14	39730710.27	39730710.40	0.0141	0.0022
Mercury	104067-02-16 21:49 G	39730798.28	39730798.41	39730798.54	0.0141	0.0003
Mercury	104067-05-16 01:11 G	39730886.42	39730886.55	39730886.68	0.0141	0.0020
Mercury	104067-08-12 04:33 G	39730974.57	39730974.69	39730974.82	0.0141	0.0040
Mercury	104067-11-08 07:54 G	39731062.72	39731062.83	39731062.96	0.0141	0.0061
Mercury	104068-02-04 11:30 G	39731150.87	39731150.98	39731151.09	0.0141	0.0081
Mercury	104068-05-02 14:37 G	39731239.03	39731239.11	39731239.21	0.0141	0.0102

Mercury	104068-07-29 18:13 G	39731327.20	39731327.26	39731327.33	0.0142	0.0122
Earth	104076-05-01 09:21 G	39734159.80	39734159.89	39734160.01	0.0143	0.0129
Moon	104076-05-01 11:01 G	39734159.91	39734159.96	39734160.05	0.0143	0.0137 *
Moon	104077-05-06 09:21 G	39734529.63	39734529.89	39734530.16	0.0143	0.0013
Earth	104077-05-06 10:18 G	39734529.68	39734529.93	39734530.19	0.0143	0.0019 *
Earth	104078-05-11 11:01 G	39734899.77	39734899.96	39734900.16	0.0143	0.0091
Moon	104078-05-11 11:30 G	39734899.78	39734899.98	39734900.18	0.0143	0.0087 *
Venus	104078-11-12 17:16 G	39735085.15	39735085.22	39735085.29	0.0143	0.0136
Venus	104079-06-27 05:59 G	39735311.63	39735311.75	39735311.89	0.0143	0.0117
Venus	104080-02-08 18:57 G	39735538.14	39735538.29	39735538.47	0.0143	0.0097
Venus	104080-09-22 08:09 G	39735764.66	39735764.84	39735765.03	0.0143	0.0077
Venus	104081-05-06 21:21 G	39735991.19	39735991.39	39735991.60	0.0143	0.0057
Venus	104081-12-19 10:18 G	39736217.72	39736217.93	39736218.15	0.0143	0.0037
Venus	104082-08-02 23:16 G	39736444.25	39736444.47	39736444.70	0.0143	0.0018
Venus	104083-03-17 12:28 G	39736670.80	39736671.02	39736671.24	0.0143	0.0003
Venus	104083-10-30 01:11 G	39736897.34	39736897.55	39736897.78	0.0143	0.0023
Venus	104084-06-12 13:54 G	39737123.88	39737124.08	39737124.30	0.0143	0.0043
Venus	104085-01-25 02:52 G	39737350.42	39737350.62	39737350.82	0.0143	0.0062
Venus	104085-09-08 15:21 G	39737576.97	39737577.14	39737577.33	0.0143	0.0082
Venus	104086-04-23 04:04 G	39737803.52	39737803.67	39737803.83	0.0143	0.0101
Venus	104086-12-05 16:33 G	39738030.07	39738030.19	39738030.31	0.0143	0.0120
Venus	104087-07-20 04:33 G	39738256.65	39738256.69	39738256.75	0.0142	0.0139
Mars	104090-09-15 20:23 G	39739410.23	39739410.35	39739410.49	0.0142	0.0130
Mercury	104106-09-27 17:45 G	39745265.15	39745265.24	39745265.33	0.0137	0.0122
Mercury	104106-12-25 01:11 G	39745353.42	39745353.55	39745353.70	0.0137	0.0094
Mercury	104107-03-23 08:37 G	39745441.71	39745441.86	39745442.05	0.0137	0.0067
Mercury	104107-06-19 16:33 G	39745530.01	39745530.19	39745530.38	0.0137	0.0039
Mercury	104107-09-16 00:13 G	39745618.32	39745618.51	39745618.71	0.0137	0.0012
Mercury	104107-12-13 07:54 G	39745706.64	39745706.83	39745707.03	0.0137	0.0017
Mercury	104108-03-10 15:49 G	39745794.97	39745795.16	39745795.34	0.0137	0.0044

Mercury	104108-06-06 23:16 G	39745883.31	39745883.47	39745883.64	0.0137	0.0072
Mercury	104108-09-03 06:57 G	39745971.67	39745971.79	39745971.93	0.0137	0.0100
Mercury	104108-11-30 14:52 G	39746060.05	39746060.12	39746060.19	0.0137	0.0127
Moon	104117-11-03 01:54 G	39749319.47	39749319.58	39749319.74	0.0135	0.0114
Earth	104117-11-03 04:33 G	39749319.58	39749319.69	39749319.82	0.0135	0.0119 *
Earth	104118-11-07 11:59 G	39749688.76	39749689.00	39749689.25	0.0135	0.0028
Moon	104118-11-07 14:37 G	39749688.87	39749689.11	39749689.36	0.0135	0.0035 *
Moon	104119-11-11 16:18 G	39750057.98	39750058.18	39750058.40	0.0135	0.0069
Earth	104119-11-11 18:57 G	39750058.08	39750058.29	39750058.52	0.0135	0.0062 *
Venus	104120-05-23 11:45 G	39750251.94	39750251.99	39750252.07	0.0135	0.0128
Venus	104121-01-04 16:18 G	39750478.08	39750478.18	39750478.31	0.0135	0.0113
Venus	104121-08-18 21:21 G	39750704.25	39750704.39	39750704.54	0.0135	0.0097
Venus	104122-04-02 01:40 G	39750930.42	39750930.57	39750930.75	0.0135	0.0082
Venus	104122-11-14 06:28 G	39751156.59	39751156.77	39751156.96	0.0135	0.0066
Venus	104123-06-28 11:01 G	39751382.77	39751382.96	39751383.17	0.0135	0.0051
Venus	104124-02-09 15:35 G	39751608.96	39751609.15	39751609.37	0.0135	0.0035
Venus	104124-09-22 20:37 G	39751835.15	39751835.36	39751835.58	0.0135	0.0019
Venus	104125-05-07 01:25 G	39752061.35	39752061.56	39752061.78	0.0135	0.0003
Venus	104125-12-19 06:13 G	39752287.55	39752287.76	39752287.97	0.0135	0.0013
Venus	104126-08-02 11:01 G	39752513.75	39752513.96	39752514.17	0.0135	0.0030
Venus	104127-03-16 15:49 G	39752739.96	39752740.16	39752740.36	0.0135	0.0045
Venus	104127-10-28 20:37 G	39752966.18	39752966.36	39752966.55	0.0135	0.0062
Venus	104128-06-11 01:25 G	39753192.40	39753192.56	39753192.74	0.0135	0.0078
Venus	104129-01-23 06:13 G	39753418.62	39753418.76	39753418.93	0.0135	0.0094
Venus	104129-09-06 11:30 G	39753644.86	39753644.98	39753645.12	0.0136	0.0109
Venus	104130-04-20 16:33 G	39753871.12	39753871.19	39753871.29	0.0136	0.0125
Mars	104134-11-10 04:04 G	39755535.42	39755535.67	39755535.94	0.0136	0.0055
Mercury	104149-07-01 05:01 G	39760882.70	39760882.71	39760882.73	0.0141	0.0140
Mercury	104149-09-27 08:37 G	39760970.79	39760970.86	39760970.93	0.0141	0.0119
Mercury	104149-12-24 11:59 G	39761058.91	39761059.00	39761059.09	0.0141	0.0099

Mercury	104150-03-22 15:21 G	39761147.04	39761147.14	39761147.25	0.0141	0.0079
Mercury	104150-06-18 18:42 G	39761235.17	39761235.28	39761235.41	0.0141	0.0058
Mercury	104150-09-14 22:18 G	39761323.30	39761323.43	39761323.56	0.0141	0.0038
Mercury	104150-12-12 01:40 G	39761411.44	39761411.57	39761411.70	0.0141	0.0017
Mercury	104151-03-10 05:01 G	39761499.58	39761499.71	39761499.85	0.0141	0.0005
Mercury	104151-06-06 08:23 G	39761587.73	39761587.85	39761587.99	0.0141	0.0025
Mercury	104151-09-02 11:59 G	39761675.87	39761676.00	39761676.12	0.0141	0.0044
Mercury	104151-11-29 15:06 G	39761764.02	39761764.13	39761764.26	0.0141	0.0066
Mercury	104152-02-25 18:42 G	39761852.18	39761852.28	39761852.39	0.0141	0.0085
Mercury	104152-05-23 22:04 G	39761940.34	39761940.42	39761940.51	0.0141	0.0106
Mercury	104152-08-20 01:25 G	39762028.51	39762028.56	39762028.62	0.0141	0.0126
Earth	104160-05-02 18:13 G	39764841.16	39764841.26	39764841.41	0.0143	0.0125
Moon	104160-05-02 19:40 G	39764841.22	39764841.32	39764841.44	0.0143	0.0130 *
Moon	104161-05-07 17:01 G	39765210.97	39765211.21	39765211.47	0.0143	0.0014
Earth	104161-05-07 19:11 G	39765211.05	39765211.30	39765211.56	0.0143	0.0015 *
Earth	104162-05-12 19:54 G	39765581.15	39765581.33	39765581.53	0.0143	0.0096
Moon	104162-05-12 22:18 G	39765581.25	39765581.43	39765581.63	0.0143	0.0098 *
Venus	104162-07-13 21:49 G	39765643.40	39765643.41	39765643.44	0.0143	0.0142
Venus	104163-02-25 11:01 G	39765869.85	39765869.96	39765870.07	0.0143	0.0123
Venus	104163-10-09 23:59 G	39766096.36	39766096.50	39766096.66	0.0143	0.0104
Venus	104164-05-23 12:57 G	39766322.87	39766323.04	39766323.23	0.0143	0.0085
Venus	104165-01-05 01:54 G	39766549.39	39766549.58	39766549.79	0.0143	0.0065
Venus	104165-08-19 15:06 G	39766775.92	39766776.13	39766776.35	0.0143	0.0045
Venus	104166-04-03 04:18 G	39767002.46	39767002.68	39767002.90	0.0143	0.0025
Venus	104166-11-15 17:16 G	39767229.00	39767229.22	39767229.44	0.0143	0.0005
Venus	104167-06-30 05:59 G	39767455.54	39767455.75	39767455.98	0.0143	0.0015
Venus	104168-02-11 18:42 G	39767682.08	39767682.28	39767682.51	0.0143	0.0035
Venus	104168-09-25 07:40 G	39767908.62	39767908.82	39767909.03	0.0143	0.0054
Venus	104169-05-09 20:23 G	39768135.17	39768135.35	39768135.54	0.0143	0.0074
Venus	104169-12-22 08:52 G	39768361.71	39768361.87	39768362.04	0.0143	0.0093

Venus	104170-08-05 21:21 G	39768588.26	39768588.39	39768588.53	0.0143	0.0112
Venus	104171-03-20 09:35 G	39768814.82	39768814.90	39768815.00	0.0143	0.0131
Mars	104175-05-14 00:57 G	39770330.22	39770330.54	39770330.89	0.0142	0.0022
Mercury	104190-10-17 23:59 G	39775966.41	39775966.50	39775966.61	0.0137	0.0117
Mercury	104191-01-14 07:40 G	39776054.68	39776054.82	39776054.98	0.0137	0.0089
Mercury	104191-04-12 15:21 G	39776142.98	39776143.14	39776143.32	0.0137	0.0062
Mercury	104191-07-09 23:16 G	39776231.28	39776231.47	39776231.66	0.0137	0.0034
Mercury	104191-10-06 06:57 G	39776319.60	39776319.79	39776319.98	0.0137	0.0006
Mercury	104192-01-02 14:37 G	39776407.92	39776408.11	39776408.30	0.0137	0.0021
Mercury	104192-03-30 22:18 G	39776496.25	39776496.43	39776496.61	0.0137	0.0049
Mercury	104192-06-27 05:59 G	39776584.59	39776584.75	39776584.91	0.0137	0.0077
Mercury	104192-09-23 13:25 G	39776672.95	39776673.06	39776673.20	0.0137	0.0105
Mercury	104192-12-20 21:21 G	39776761.35	39776761.39	39776761.44	0.0137	0.0132
Earth	104201-11-04 12:57 G	39780000.93	39780001.04	39780001.19	0.0135	0.0115
Moon	104201-11-04 16:47 G	39780001.06	39780001.20	39780001.36	0.0135	0.0108 *
Moon	104202-11-08 17:16 G	39780369.98	39780370.22	39780370.47	0.0135	0.0030
Earth	104202-11-08 20:52 G	39780370.12	39780370.37	39780370.62	0.0135	0.0024 *
Earth	104203-11-13 03:35 G	39780739.45	39780739.65	39780739.89	0.0135	0.0066
Moon	104203-11-13 07:40 G	39780739.61	39780739.82	39780740.04	0.0135	0.0069 *
Venus	104204-01-22 21:35 G	39780810.38	39780810.40	39780810.44	0.0135	0.0133
Venus	104204-09-05 02:23 G	39781036.51	39781036.60	39781036.71	0.0135	0.0118
Venus	104205-04-19 06:57 G	39781262.66	39781262.79	39781262.94	0.0135	0.0103
Venus	104205-12-01 11:16 G	39781488.83	39781488.97	39781489.15	0.0135	0.0088
Venus	104206-07-15 16:04 G	39781715.00	39781715.17	39781715.36	0.0135	0.0072
Venus	104207-02-26 20:52 G	39781941.18	39781941.37	39781941.57	0.0135	0.0056
Venus	104207-10-11 01:40 G	39782167.37	39782167.57	39782167.78	0.0135	0.0041
Venus	104208-05-24 06:13 G	39782393.56	39782393.76	39782393.98	0.0135	0.0025
Venus	104209-01-05 11:01 G	39782619.75	39782619.96	39782620.18	0.0135	0.0009
Venus	104209-08-19 15:49 G	39782845.95	39782846.16	39782846.38	0.0135	0.0008
Venus	104210-04-02 20:37 G	39783072.15	39783072.36	39783072.57	0.0135	0.0023

Venus	104210-11-15 01:25 G	39783298.36	39783298.56	39783298.77	0.0135	0.0039
Venus	104211-06-29 05:59 G	39783524.57	39783524.75	39783524.96	0.0135	0.0056
Venus	104212-02-10 10:47 G	39783750.78	39783750.95	39783751.14	0.0135	0.0071
Venus	104212-09-23 16:04 G	39783977.01	39783977.17	39783977.34	0.0135	0.0087
Venus	104213-05-07 20:52 G	39784203.25	39784203.37	39784203.52	0.0136	0.0103
Venus	104213-12-20 02:09 G	39784429.49	39784429.59	39784429.70	0.0136	0.0118
Venus	104214-08-03 06:57 G	39784655.77	39784655.79	39784655.84	0.0136	0.0134
Mars	104217-08-05 23:59 G	39785754.41	39785754.50	39785754.62	0.0136	0.0125
Mercury	104233-07-22 12:13 G	39791583.98	39791584.01	39791584.05	0.0141	0.0135
Mercury	104233-10-18 15:49 G	39791672.09	39791672.16	39791672.24	0.0141	0.0114
Mercury	104234-01-14 19:11 G	39791760.21	39791760.30	39791760.40	0.0141	0.0094
Mercury	104234-04-12 22:33 G	39791848.34	39791848.44	39791848.56	0.0141	0.0074
Mercury	104234-07-10 02:09 G	39791936.47	39791936.59	39791936.71	0.0141	0.0053
Mercury	104234-10-06 05:30 G	39792024.60	39792024.73	39792024.86	0.0141	0.0033
Mercury	104235-01-02 08:52 G	39792112.74	39792112.87	39792113.01	0.0141	0.0013
Mercury	104235-03-31 12:28 G	39792200.89	39792201.02	39792201.15	0.0141	0.0009
Mercury	104235-06-27 15:49 G	39792289.03	39792289.16	39792289.29	0.0141	0.0029
Mercury	104235-09-23 19:11 G	39792377.18	39792377.30	39792377.43	0.0141	0.0050
Mercury	104235-12-20 22:33 G	39792465.33	39792465.44	39792465.56	0.0141	0.0070
Mercury	104236-03-18 01:54 G	39792553.49	39792553.58	39792553.69	0.0141	0.0091
Mercury	104236-06-14 05:30 G	39792641.65	39792641.73	39792641.81	0.0141	0.0111
Mercury	104236-09-10 08:37 G	39792729.83	39792729.86	39792729.92	0.0142	0.0132
Moon	104244-05-04 02:09 G	39795522.46	39795522.59	39795522.74	0.0143	0.0118
Earth	104244-05-04 05:16 G	39795522.59	39795522.72	39795522.88	0.0143	0.0119 *
Earth	104245-05-09 06:13 G	39795892.51	39795892.76	39795893.02	0.0143	0.0008
Moon	104245-05-09 10:04 G	39795892.66	39795892.92	39795893.18	0.0143	0.0014 *
Moon	104246-05-14 03:06 G	39796262.49	39796262.63	39796262.82	0.0143	0.0110
Earth	104246-05-14 06:57 G	39796262.62	39796262.79	39796262.98	0.0143	0.0102 *
Venus	104246-10-26 16:47 G	39796428.13	39796428.20	39796428.31	0.0143	0.0131
Venus	104247-06-10 05:59 G	39796654.62	39796654.75	39796654.90	0.0143	0.0111

Venus	104248-01-22 19:11 G	39796881.14	39796881.30	39796881.48	0.0143	0.0092
Venus	104248-09-05 08:09 G	39797107.66	39797107.84	39797108.05	0.0143	0.0072
Venus	104249-04-19 21:21 G	39797334.19	39797334.39	39797334.61	0.0143	0.0052
Venus	104249-12-02 10:33 G	39797560.72	39797560.94	39797561.16	0.0143	0.0032
Venus	104250-07-16 23:30 G	39797787.26	39797787.48	39797787.70	0.0143	0.0012
Venus	104251-02-28 12:28 G	39798013.80	39798014.02	39798014.25	0.0143	0.0008
Venus	104251-10-13 01:25 G	39798240.34	39798240.56	39798240.78	0.0143	0.0027
Venus	104252-05-26 14:09 G	39798466.88	39798467.09	39798467.30	0.0143	0.0047
Venus	104253-01-08 02:37 G	39798693.42	39798693.61	39798693.81	0.0143	0.0067
Venus	104253-08-22 15:06 G	39798919.97	39798920.13	39798920.32	0.0143	0.0086
Venus	104254-04-06 03:49 G	39799146.52	39799146.66	39799146.82	0.0143	0.0105
Venus	104254-11-18 15:49 G	39799373.07	39799373.16	39799373.29	0.0143	0.0124
Venus	104255-07-03 04:18 G	39799599.67	39799599.68	39799599.71	0.0142	0.0142
Mercury	104274-11-08 06:57 G	39806667.69	39806667.79	39806667.92	0.0137	0.0110
Mercury	104275-02-04 14:37 G	39806755.97	39806756.11	39806756.28	0.0137	0.0083
Mercury	104275-05-03 22:33 G	39806844.27	39806844.44	39806844.62	0.0137	0.0055
Mercury	104275-07-31 06:13 G	39806932.57	39806932.76	39806932.95	0.0137	0.0027
Mercury	104275-10-27 13:54 G	39807020.89	39807021.08	39807021.28	0.0137	0.0002
Mercury	104276-01-23 21:35 G	39807109.21	39807109.40	39807109.59	0.0137	0.0028
Mercury	104276-04-21 05:16 G	39807197.55	39807197.72	39807197.90	0.0137	0.0056
Mercury	104276-07-18 12:42 G	39807285.89	39807286.03	39807286.20	0.0137	0.0084
Mercury	104276-10-14 20:37 G	39807374.26	39807374.36	39807374.48	0.0137	0.0111
Moon	104285-11-04 20:23 G	39810682.22	39810682.35	39810682.52	0.0135	0.0108
Earth	104285-11-04 22:47 G	39810682.33	39810682.45	39810682.61	0.0135	0.0111 *
Earth	104286-11-09 06:28 G	39811051.53	39811051.77	39811052.02	0.0135	0.0021
Moon	104286-11-09 08:37 G	39811051.62	39811051.86	39811052.10	0.0135	0.0019 *
Moon	104287-11-13 11:16 G	39811420.75	39811420.97	39811421.19	0.0135	0.0067
Earth	104287-11-13 13:25 G	39811420.86	39811421.06	39811421.29	0.0135	0.0070 *
Venus	104288-05-05 12:28 G	39811594.95	39811595.02	39811595.12	0.0135	0.0123
Venus	104288-12-17 17:01 G	39811821.10	39811821.21	39811821.35	0.0135	0.0108

Venus	104289-07-31 22:04 G	39812047.27	39812047.42	39812047.58	0.0135	0.0092
Venus	104290-03-15 02:37 G	39812273.44	39812273.61	39812273.79	0.0135	0.0077
Venus	104290-10-27 07:25 G	39812499.62	39812499.81	39812500.00	0.0135	0.0061
Venus	104291-06-10 11:59 G	39812725.81	39812726.00	39812726.21	0.0135	0.0046
Venus	104292-01-22 16:33 G	39812951.99	39812952.19	39812952.41	0.0135	0.0030
Venus	104292-09-04 21:35 G	39813178.19	39813178.40	39813178.61	0.0135	0.0014
Venus	104293-04-19 02:23 G	39813404.38	39813404.60	39813404.81	0.0135	0.0003
Venus	104293-12-01 06:57 G	39813630.58	39813630.79	39813631.00	0.0135	0.0018
Venus	104294-07-15 11:30 G	39813856.78	39813856.98	39813857.19	0.0135	0.0034
Venus	104295-02-26 16:18 G	39814082.99	39814083.18	39814083.38	0.0135	0.0050
Venus	104295-10-10 21:06 G	39814309.21	39814309.38	39814309.58	0.0135	0.0066
Venus	104296-05-24 01:54 G	39814535.43	39814535.58	39814535.77	0.0135	0.0082
Venus	104297-01-05 06:57 G	39814761.65	39814761.79	39814761.95	0.0135	0.0097
Venus	104297-08-19 11:45 G	39814987.89	39814987.99	39814988.13	0.0136	0.0113
Venus	104298-04-02 17:01 G	39815214.15	39815214.21	39815214.29	0.0136	0.0128
Mars	104302-04-01 04:33 G	39816672.42	39816672.69	39816672.98	0.0136	0.0014
Mercury	104317-08-12 19:40 G	39822285.28	39822285.32	39822285.38	0.0141	0.0129
Mercury	104317-11-08 23:01 G	39822373.39	39822373.46	39822373.55	0.0141	0.0109
Mercury	104318-02-05 02:37 G	39822461.51	39822461.61	39822461.72	0.0141	0.0088
Mercury	104318-05-04 05:59 G	39822549.64	39822549.75	39822549.87	0.0141	0.0068
Mercury	104318-07-31 09:35 G	39822637.78	39822637.90	39822638.02	0.0141	0.0047
Mercury	104318-10-27 12:57 G	39822725.91	39822726.04	39822726.17	0.0141	0.0027
Mercury	104319-01-23 16:18 G	39822814.05	39822814.18	39822814.32	0.0141	0.0008
Mercury	104319-04-21 19:54 G	39822902.20	39822902.33	39822902.46	0.0141	0.0015
Mercury	104319-07-18 23:16 G	39822990.34	39822990.47	39822990.60	0.0141	0.0035
Mercury	104319-10-15 02:37 G	39823078.49	39823078.61	39823078.73	0.0141	0.0055
Mercury	104320-01-11 05:59 G	39823166.64	39823166.75	39823166.86	0.0141	0.0076
Mercury	104320-04-08 09:21 G	39823254.80	39823254.89	39823254.99	0.0141	0.0097
Mercury	104320-07-05 12:57 G	39823342.97	39823343.04	39823343.11	0.0142	0.0117
Mercury	104320-10-01 16:04 G	39823431.15	39823431.17	39823431.21	0.0142	0.0138

Earth	104328-05-05 16:47 G	39826204.06	39826204.20	39826204.37	0.0143	0.0113
Moon	104328-05-05 19:40 G	39826204.17	39826204.32	39826204.50	0.0143	0.0106 *
Moon	104329-05-10 14:52 G	39826573.86	39826574.12	39826574.38	0.0143	0.0010
Earth	104329-05-10 17:59 G	39826573.99	39826574.25	39826574.51	0.0143	0.0002 *
Earth	104330-05-15 18:42 G	39826944.13	39826944.28	39826944.46	0.0143	0.0109
Moon	104330-05-15 21:06 G	39826944.25	39826944.38	39826944.54	0.0143	0.0115 *
Venus	104330-06-26 23:45 G	39826986.43	39826986.49	39826986.56	0.0143	0.0136
Venus	104331-02-08 12:57 G	39827212.91	39827213.04	39827213.17	0.0143	0.0117
Venus	104331-09-23 01:54 G	39827439.43	39827439.58	39827439.75	0.0143	0.0098
Venus	104332-05-06 14:52 G	39827665.95	39827666.12	39827666.32	0.0143	0.0078
Venus	104332-12-19 04:04 G	39827892.47	39827892.67	39827892.88	0.0143	0.0059
Venus	104333-08-02 17:01 G	39828119.01	39828119.21	39828119.44	0.0143	0.0039
Venus	104334-03-17 06:28 G	39828345.55	39828345.77	39828345.99	0.0143	0.0019
Venus	104334-10-29 19:25 G	39828572.09	39828572.31	39828572.53	0.0143	0.0001
Venus	104335-06-13 08:09 G	39828798.62	39828798.84	39828799.06	0.0143	0.0021
Venus	104336-01-25 21:06 G	39829025.16	39829025.38	39829025.59	0.0143	0.0040
Venus	104336-09-08 09:35 G	39829251.71	39829251.90	39829252.11	0.0143	0.0060
Venus	104337-04-22 22:33 G	39829478.25	39829478.44	39829478.62	0.0143	0.0079
Venus	104337-12-05 11:01 G	39829704.80	39829704.96	39829705.12	0.0143	0.0098
Venus	104338-07-19 23:16 G	39829931.35	39829931.47	39829931.60	0.0143	0.0117
Venus	104339-03-03 11:16 G	39830157.92	39830157.97	39830158.06	0.0143	0.0136
Mars	104342-09-30 08:23 G	39831464.57	39831464.85	39831465.16	0.0142	0.0070
Mercury	104358-09-02 06:57 G	39837280.74	39837280.79	39837280.86	0.0137	0.0129
Mercury	104358-11-29 14:23 G	39837368.99	39837369.10	39837369.24	0.0137	0.0102
Mercury	104359-02-25 22:04 G	39837457.27	39837457.42	39837457.60	0.0137	0.0075
Mercury	104359-05-25 05:59 G	39837545.57	39837545.75	39837545.93	0.0137	0.0047
Mercury	104359-08-21 13:40 G	39837633.88	39837634.07	39837634.26	0.0137	0.0019
Mercury	104359-11-17 21:21 G	39837722.20	39837722.39	39837722.59	0.0137	0.0008
Mercury	104360-02-14 05:01 G	39837810.52	39837810.71	39837810.90	0.0137	0.0036
Mercury	104360-05-12 12:28 G	39837898.86	39837899.02	39837899.21	0.0137	0.0064

Mercury	104360-08-08 20:09 G	39837987.21	39837987.34	39837987.50	0.0137	0.0092
Mercury	104360-11-05 04:04 G	39838075.58	39838075.67	39838075.77	0.0136	0.0119
Moon	104369-11-06 07:54 G	39841363.71	39841363.83	39841363.99	0.0135	0.0111
Earth	104369-11-06 09:06 G	39841363.73	39841363.88	39841364.04	0.0135	0.0106 *
Earth	104370-11-10 16:33 G	39841732.94	39841733.19	39841733.44	0.0135	0.0016
Moon	104370-11-10 17:01 G	39841732.95	39841733.21	39841733.47	0.0135	0.0010 *
Moon	104371-11-14 23:01 G	39842102.26	39842102.46	39842102.68	0.0135	0.0068
Earth	104371-11-14 23:45 G	39842102.28	39842102.49	39842102.70	0.0135	0.0074 *
Venus	104372-01-04 22:47 G	39842153.39	39842153.45	39842153.53	0.0135	0.0127
Venus	104372-08-18 03:35 G	39842379.54	39842379.65	39842379.77	0.0135	0.0112
Venus	104373-04-01 08:09 G	39842605.71	39842605.84	39842606.00	0.0135	0.0097
Venus	104373-11-13 12:42 G	39842831.88	39842832.03	39842832.21	0.0135	0.0082
Venus	104374-06-27 17:30 G	39843058.05	39843058.23	39843058.42	0.0135	0.0066
Venus	104375-02-08 22:04 G	39843284.23	39843284.42	39843284.62	0.0135	0.0051
Venus	104375-09-23 02:52 G	39843510.42	39843510.62	39843510.83	0.0135	0.0035
Venus	104376-05-06 07:40 G	39843736.61	39843736.82	39843737.03	0.0135	0.0019
Venus	104376-12-18 12:13 G	39843962.80	39843963.01	39843963.22	0.0135	0.0004
Venus	104377-08-01 16:47 G	39844188.99	39844189.20	39844189.41	0.0135	0.0012
Venus	104378-03-15 21:21 G	39844415.19	39844415.39	39844415.61	0.0135	0.0028
Venus	104378-10-28 02:09 G	39844641.39	39844641.59	39844641.80	0.0135	0.0044
Venus	104379-06-11 06:57 G	39844867.60	39844867.79	39844867.99	0.0135	0.0060
Venus	104380-01-23 11:30 G	39845093.82	39845093.98	39845094.17	0.0135	0.0076
Venus	104380-09-05 16:47 G	39845320.04	39845320.20	39845320.36	0.0135	0.0091
Venus	104381-04-19 21:35 G	39845546.28	39845546.40	39845546.54	0.0135	0.0106
Venus	104381-12-02 02:37 G	39845772.53	39845772.61	39845772.71	0.0136	0.0122
Mars	104386-11-24 09:06 G	39847590.71	39847590.88	39847591.10	0.0137	0.0099
Jupiter	104400-06-03 06:57 G	39852530.37	39852530.79	39852531.23	0.0140	0.0076
Mercury	104401-09-02 03:06 G	39852986.57	39852986.63	39852986.69	0.0141	0.0124
Mercury	104401-11-29 06:28 G	39853074.68	39853074.77	39853074.86	0.0141	0.0104
Mercury	104402-02-25 09:49 G	39853162.81	39853162.91	39853163.02	0.0141	0.0083

Mercury	104402-05-24 13:11 G	39853250.94	39853251.05	39853251.18	0.0141	0.0063
Mercury	104402-08-20 16:47 G	39853339.07	39853339.20	39853339.33	0.0141	0.0042
Mercury	104402-11-16 20:09 G	39853427.21	39853427.34	39853427.47	0.0141	0.0022
Mercury	104403-02-12 23:45 G	39853515.35	39853515.49	39853515.62	0.0141	0.0005
Mercury	104403-05-12 03:06 G	39853603.50	39853603.63	39853603.76	0.0141	0.0019
Mercury	104403-08-08 06:28 G	39853691.64	39853691.77	39853691.90	0.0141	0.0040
Mercury	104403-11-04 09:49 G	39853779.79	39853779.91	39853780.03	0.0141	0.0060
Mercury	104404-01-31 13:11 G	39853867.95	39853868.05	39853868.16	0.0142	0.0081
Mercury	104404-04-28 16:33 G	39853956.11	39853956.19	39853956.29	0.0142	0.0101
Mercury	104404-07-25 19:54 G	39854044.27	39854044.33	39854044.40	0.0142	0.0122
Moon	104412-05-06 03:21 G	39856885.46	39856885.64	39856885.84	0.0143	0.0100
Earth	104412-05-06 03:49 G	39856885.50	39856885.66	39856885.84	0.0143	0.0107 *
Earth	104413-05-11 05:16 G	39857255.46	39857255.72	39857255.97	0.0143	0.0004
Moon	104413-05-11 05:30 G	39857255.49	39857255.73	39857255.98	0.0143	0.0003 *
Venus	104414-02-24 05:59 G	39857544.73	39857544.75	39857544.79	0.0143	0.0142
Earth	104414-05-16 06:13 G	39857625.62	39857625.76	39857625.92	0.0143	0.0116
Moon	104414-05-16 06:57 G	39857625.64	39857625.79	39857625.96	0.0143	0.0114 *
Venus	104414-10-08 18:57 G	39857771.19	39857771.29	39857771.42	0.0143	0.0123
Venus	104415-05-23 08:23 G	39857997.70	39857997.85	39857998.00	0.0143	0.0104
Venus	104416-01-04 21:21 G	39858224.22	39858224.39	39858224.58	0.0143	0.0084
Venus	104416-08-18 10:18 G	39858450.75	39858450.93	39858451.14	0.0143	0.0066
Venus	104417-04-01 23:45 G	39858677.29	39858677.49	39858677.71	0.0143	0.0045
Venus	104417-11-14 12:57 G	39858903.82	39858904.04	39858904.26	0.0143	0.0025
Venus	104418-06-29 01:54 G	39859130.36	39859130.58	39859130.81	0.0143	0.0006
Venus	104419-02-10 14:52 G	39859356.90	39859357.12	39859357.35	0.0143	0.0014
Venus	104419-09-25 03:49 G	39859583.45	39859583.66	39859583.88	0.0143	0.0034
Venus	104420-05-08 16:47 G	39859809.99	39859810.20	39859810.40	0.0143	0.0053
Venus	104420-12-21 05:16 G	39860036.54	39860036.72	39860036.92	0.0143	0.0073
Venus	104421-08-04 17:45 G	39860263.08	39860263.24	39860263.42	0.0143	0.0092
Venus	104422-03-19 06:13 G	39860489.64	39860489.76	39860489.92	0.0143	0.0111

Venus	104422-10-31 18:42 G	39860716.20	39860716.28	39860716.39	0.0143	0.0129
Mars	104427-05-27 23:16 G	39862385.22	39862385.47	39862385.74	0.0142	0.0091
Mercury	104442-09-22 14:37 G	39867982.04	39867982.11	39867982.22	0.0137	0.0120
Mercury	104442-12-19 22:33 G	39868070.30	39868070.44	39868070.59	0.0137	0.0092
Mercury	104443-03-18 06:13 G	39868158.59	39868158.76	39868158.93	0.0137	0.0065
Mercury	104443-06-14 13:40 G	39868246.90	39868247.07	39868247.27	0.0137	0.0038
Mercury	104443-09-10 21:35 G	39868335.21	39868335.40	39868335.60	0.0137	0.0010
Mercury	104443-12-08 05:16 G	39868423.53	39868423.72	39868423.91	0.0137	0.0018
Mercury	104444-03-05 12:42 G	39868511.86	39868512.03	39868512.22	0.0137	0.0046
Mercury	104444-06-01 20:37 G	39868600.20	39868600.36	39868600.53	0.0137	0.0073
Mercury	104444-08-29 04:04 G	39868688.55	39868688.67	39868688.81	0.0137	0.0101
Mercury	104444-11-25 11:59 G	39868776.94	39868777.00	39868777.07	0.0136	0.0128
Earth	104453-11-06 20:09 G	39872045.20	39872045.34	39872045.53	0.0135	0.0101
Moon	104453-11-06 23:30 G	39872045.35	39872045.48	39872045.65	0.0135	0.0108 *
Moon	104454-11-11 01:11 G	39872414.30	39872414.55	39872414.80	0.0135	0.0003
Earth	104454-11-11 04:04 G	39872414.42	39872414.67	39872414.92	0.0135	0.0010 *
Venus	104455-09-04 10:18 G	39872711.89	39872711.93	39872711.98	0.0135	0.0131
Earth	104455-11-15 10:47 G	39872783.76	39872783.95	39872784.16	0.0135	0.0080
Moon	104455-11-15 13:54 G	39872783.88	39872784.08	39872784.30	0.0135	0.0076 *
Venus	104456-04-17 14:37 G	39872938.02	39872938.11	39872938.23	0.0135	0.0117
Venus	104456-11-29 19:11 G	39873164.18	39873164.30	39873164.46	0.0135	0.0102
Venus	104457-07-14 00:13 G	39873390.34	39873390.51	39873390.67	0.0135	0.0086
Venus	104458-02-25 04:33 G	39873616.52	39873616.69	39873616.88	0.0135	0.0071
Venus	104458-10-09 09:06 G	39873842.70	39873842.88	39873843.09	0.0135	0.0056
Venus	104459-05-23 13:54 G	39874068.88	39874069.08	39874069.28	0.0135	0.0040
Venus	104460-01-04 18:28 G	39874295.06	39874295.27	39874295.48	0.0135	0.0024
Venus	104460-08-17 23:01 G	39874521.25	39874521.46	39874521.67	0.0135	0.0009
Venus	104461-04-01 03:35 G	39874747.44	39874747.65	39874747.87	0.0135	0.0007
Venus	104461-11-13 08:09 G	39874973.63	39874973.84	39874974.05	0.0135	0.0023
Venus	104462-06-27 12:42 G	39875199.83	39875200.03	39875200.24	0.0135	0.0039

Venus	104463-02-08 17:30 G	39875426.04	39875426.23	39875426.43	0.0135	0.0054
Venus	104463-09-22 22:18 G	39875652.25	39875652.43	39875652.62	0.0135	0.0070
Venus	104464-05-06 03:06 G	39875878.47	39875878.63	39875878.80	0.0135	0.0086
Venus	104464-12-18 07:54 G	39876104.70	39876104.83	39876104.98	0.0135	0.0101
Venus	104465-08-01 12:42 G	39876330.94	39876331.03	39876331.15	0.0135	0.0117
Venus	104466-03-15 17:59 G	39876557.21	39876557.25	39876557.31	0.0136	0.0132
Mars	104469-08-19 07:11 G	39877809.60	39877809.80	39877810.04	0.0136	0.0083
Mercury	104485-06-26 06:42 G	39883599.77	39883599.78	39883599.80	0.0141	0.0140
Mercury	104485-09-22 10:04 G	39883687.86	39883687.92	39883688.00	0.0141	0.0120
Mercury	104485-12-19 13:40 G	39883775.98	39883776.07	39883776.16	0.0141	0.0099
Mercury	104486-03-17 17:01 G	39883864.11	39883864.21	39883864.32	0.0141	0.0079
Mercury	104486-06-13 20:37 G	39883952.24	39883952.36	39883952.48	0.0141	0.0058
Mercury	104486-09-09 23:59 G	39884040.37	39884040.50	39884040.63	0.0141	0.0038
Mercury	104486-12-07 03:21 G	39884128.51	39884128.64	39884128.77	0.0141	0.0017
Mercury	104487-03-05 06:42 G	39884216.65	39884216.78	39884216.92	0.0141	0.0006
Mercury	104487-06-01 10:18 G	39884304.80	39884304.93	39884305.06	0.0141	0.0024
Mercury	104487-08-28 13:40 G	39884392.94	39884393.07	39884393.19	0.0141	0.0044
Mercury	104487-11-24 17:01 G	39884481.09	39884481.21	39884481.33	0.0142	0.0065
Mercury	104488-02-20 20:09 G	39884569.25	39884569.34	39884569.46	0.0142	0.0086
Mercury	104488-05-18 23:45 G	39884657.41	39884657.49	39884657.58	0.0142	0.0106
Mercury	104488-08-15 03:21 G	39884745.58	39884745.64	39884745.69	0.0142	0.0126
Moon	104496-05-06 11:30 G	39887566.81	39887566.98	39887567.16	0.0143	0.0101
Earth	104496-05-06 13:54 G	39887566.91	39887567.08	39887567.27	0.0143	0.0102 *
Earth	104497-05-11 15:06 G	39887936.87	39887937.13	39887937.38	0.0143	0.0009
Moon	104497-05-11 17:16 G	39887936.97	39887937.22	39887937.49	0.0143	0.0013 *
Moon	104498-05-16 13:25 G	39888306.91	39888307.06	39888307.21	0.0143	0.0114
Earth	104498-05-16 16:33 G	39888307.05	39888307.19	39888307.33	0.0143	0.0121 *
Venus	104498-06-08 00:28 G	39888329.44	39888329.52	39888329.62	0.0143	0.0129
Venus	104499-01-20 13:40 G	39888555.94	39888556.07	39888556.22	0.0143	0.0110
Venus	104499-09-04 02:37 G	39888782.46	39888782.61	39888782.80	0.0143	0.0092

Venus	104500-04-18 16:04 G	39889008.99	39889009.17	39889009.37	0.0143	0.0072
Venus	104500-12-01 05:16 G	39889235.52	39889235.72	39889235.93	0.0143	0.0052
Venus	104501-07-15 18:28 G	39889462.05	39889462.27	39889462.49	0.0143	0.0032
Venus	104502-02-27 07:40 G	39889688.60	39889688.82	39889689.04	0.0143	0.0013
Venus	104502-10-11 20:37 G	39889915.14	39889915.36	39889915.58	0.0143	0.0007
Venus	104503-05-26 09:21 G	39890141.68	39890141.89	39890142.12	0.0143	0.0027
Venus	104504-01-07 22:18 G	39890368.22	39890368.43	39890368.64	0.0143	0.0047
Venus	104504-08-21 11:01 G	39890594.77	39890594.96	39890595.16	0.0143	0.0066
Venus	104505-04-04 23:45 G	39890821.32	39890821.49	39890821.68	0.0143	0.0085
Venus	104505-11-17 12:28 G	39891047.88	39891048.02	39891048.18	0.0143	0.0104
Venus	104506-07-02 00:42 G	39891274.44	39891274.53	39891274.66	0.0143	0.0123
Venus	104507-02-13 13:25 G	39891501.04	39891501.06	39891501.10	0.0143	0.0141
Mercury	104526-10-13 22:33 G	39898683.34	39898683.44	39898683.57	0.0137	0.0111
Mercury	104527-01-10 06:28 G	39898771.62	39898771.77	39898771.93	0.0137	0.0083
Mercury	104527-04-08 13:54 G	39898859.91	39898860.08	39898860.27	0.0137	0.0056
Mercury	104527-07-05 21:49 G	39898948.22	39898948.41	39898948.60	0.0137	0.0028
Mercury	104527-10-02 05:30 G	39899036.53	39899036.73	39899036.92	0.0137	0.0001
Mercury	104527-12-29 13:11 G	39899124.86	39899125.05	39899125.24	0.0137	0.0027
Mercury	104528-03-26 20:37 G	39899213.19	39899213.36	39899213.54	0.0137	0.0054
Mercury	104528-06-23 04:18 G	39899301.53	39899301.68	39899301.84	0.0137	0.0082
Mercury	104528-09-19 11:45 G	39899389.89	39899389.99	39899390.12	0.0137	0.0110
Moon	104537-11-08 04:47 G	39902726.53	39902726.70	39902726.87	0.0135	0.0099
Earth	104537-11-08 07:54 G	39902726.67	39902726.83	39902727.03	0.0135	0.0095 *
Earth	104538-11-12 15:35 G	39903095.89	39903096.15	39903096.40	0.0135	0.0005
Moon	104538-11-12 18:57 G	39903096.04	39903096.29	39903096.54	0.0135	0.0002 *
Moon	104539-11-16 18:57 G	39903465.11	39903465.29	39903465.50	0.0135	0.0088
Earth	104539-11-16 22:33 G	39903465.25	39903465.44	39903465.64	0.0135	0.0086 *
Venus	104539-12-18 01:54 G	39903496.50	39903496.58	39903496.68	0.0135	0.0121
Venus	104540-07-31 06:28 G	39903722.65	39903722.77	39903722.91	0.0135	0.0106
Venus	104541-03-14 11:01 G	39903948.82	39903948.96	39903949.13	0.0135	0.0091

Venus	104541-10-26 15:35 G	39904174.98	39904175.15	39904175.34	0.0135	0.0076
Venus	104542-06-09 19:54 G	39904401.16	39904401.33	39904401.54	0.0135	0.0061
Venus	104543-01-22 00:42 G	39904627.33	39904627.53	39904627.73	0.0135	0.0045
Venus	104543-09-05 05:16 G	39904853.52	39904853.72	39904853.93	0.0135	0.0029
Venus	104544-04-18 09:49 G	39905079.70	39905079.91	39905080.12	0.0135	0.0014
Venus	104544-11-30 14:23 G	39905305.88	39905306.10	39905306.31	0.0135	0.0003
Venus	104545-07-14 18:42 G	39905532.07	39905532.28	39905532.49	0.0135	0.0018
Venus	104546-02-25 23:16 G	39905758.27	39905758.47	39905758.68	0.0135	0.0033
Venus	104546-10-10 03:49 G	39905984.47	39905984.66	39905984.87	0.0135	0.0049
Venus	104547-05-24 08:52 G	39906210.68	39906210.87	39906211.05	0.0135	0.0064
Venus	104548-01-05 13:11 G	39906436.89	39906437.05	39906437.23	0.0135	0.0080
Venus	104548-08-18 18:13 G	39906663.11	39906663.26	39906663.41	0.0135	0.0095
Venus	104549-04-01 23:16 G	39906889.35	39906889.47	39906889.59	0.0135	0.0111
Venus	104549-11-14 03:49 G	39907115.61	39907115.66	39907115.76	0.0135	0.0127
Mars	104554-04-14 10:47 G	39908727.69	39908727.95	39908728.24	0.0136	0.0028
Mercury	104569-07-17 13:40 G	39914301.05	39914301.07	39914301.10	0.0141	0.0137
Mercury	104569-10-13 17:16 G	39914389.14	39914389.22	39914389.29	0.0141	0.0116
Mercury	104570-01-09 20:37 G	39914477.26	39914477.36	39914477.46	0.0141	0.0096
Mercury	104570-04-07 23:59 G	39914565.39	39914565.50	39914565.61	0.0141	0.0076
Mercury	104570-07-05 03:21 G	39914653.52	39914653.64	39914653.77	0.0141	0.0055
Mercury	104570-10-01 06:57 G	39914741.66	39914741.79	39914741.92	0.0141	0.0035
Mercury	104570-12-28 10:18 G	39914829.80	39914829.93	39914830.06	0.0141	0.0014
Mercury	104571-03-26 13:40 G	39914917.94	39914918.07	39914918.20	0.0141	0.0007
Mercury	104571-06-22 17:01 G	39915006.09	39915006.21	39915006.34	0.0141	0.0027
Mercury	104571-09-18 20:23 G	39915094.23	39915094.35	39915094.48	0.0141	0.0048
Mercury	104571-12-15 23:59 G	39915182.38	39915182.50	39915182.61	0.0142	0.0068
Mercury	104572-03-13 03:06 G	39915270.54	39915270.63	39915270.74	0.0142	0.0089
Mercury	104572-06-09 06:42 G	39915358.70	39915358.78	39915358.87	0.0142	0.0109
Mercury	104572-09-05 10:04 G	39915446.87	39915446.92	39915446.98	0.0142	0.0129
Earth	104580-05-07 22:04 G	39918248.24	39918248.42	39918248.61	0.0143	0.0099

Moon	104580-05-08 01:25 G	39918248.40	39918248.56	39918248.76	0.0143	0.0104 *
Moon	104581-05-12 19:40 G	39918618.08	39918618.32	39918618.58	0.0143	0.0021
Earth	104581-05-12 23:16 G	39918618.22	39918618.47	39918618.73	0.0143	0.0013 *
Venus	104582-02-06 04:47 G	39918887.65	39918887.70	39918887.78	0.0143	0.0136
Earth	104582-05-18 00:42 G	39918988.41	39918988.53	39918988.65	0.0143	0.0125
Moon	104582-05-18 04:04 G	39918988.54	39918988.67	39918988.83	0.0143	0.0117 *
Venus	104582-09-20 17:59 G	39919114.14	39919114.25	39919114.39	0.0143	0.0118
Venus	104583-05-05 07:11 G	39919340.65	39919340.80	39919340.97	0.0143	0.0099
Venus	104583-12-17 20:23 G	39919567.17	39919567.35	39919567.54	0.0143	0.0079
Venus	104584-07-31 09:35 G	39919793.70	39919793.90	39919794.11	0.0143	0.0060
Venus	104585-03-14 22:47 G	39920020.25	39920020.45	39920020.67	0.0143	0.0040
Venus	104585-10-27 11:59 G	39920246.79	39920247.00	39920247.23	0.0143	0.0021
Venus	104586-06-11 01:11 G	39920473.33	39920473.55	39920473.77	0.0143	0.0001
Venus	104587-01-23 14:09 G	39920699.87	39920700.09	39920700.31	0.0143	0.0019
Venus	104587-09-07 02:52 G	39920926.42	39920926.62	39920926.84	0.0143	0.0039
Venus	104588-04-20 16:04 G	39921152.97	39921153.17	39921153.38	0.0143	0.0058
Venus	104588-12-03 04:33 G	39921379.52	39921379.69	39921379.89	0.0143	0.0078
Venus	104589-07-17 17:16 G	39921606.08	39921606.22	39921606.40	0.0143	0.0097
Venus	104590-03-01 05:59 G	39921832.64	39921832.75	39921832.90	0.0143	0.0116
Venus	104590-10-13 18:42 G	39922059.22	39922059.28	39922059.37	0.0143	0.0134
Mars	104594-10-13 01:40 G	39923519.23	39923519.57	39923519.91	0.0142	0.0007
Jupiter	104608-03-13 01:54 G	39928418.51	39928418.58	39928418.76	0.0138	0.0134
Mercury	104610-08-07 22:33 G	39929296.40	39929296.44	39929296.52	0.0137	0.0130
Mercury	104610-11-04 06:28 G	39929384.65	39929384.77	39929384.90	0.0137	0.0102
Mercury	104611-01-31 13:54 G	39929472.93	39929473.08	39929473.25	0.0137	0.0075
Mercury	104611-04-29 21:35 G	39929561.23	39929561.40	39929561.59	0.0137	0.0048
Mercury	104611-07-27 05:30 G	39929649.53	39929649.73	39929649.92	0.0137	0.0020
Mercury	104611-10-23 12:57 G	39929737.85	39929738.04	39929738.24	0.0137	0.0008
Mercury	104612-01-19 20:37 G	39929826.18	39929826.36	39929826.55	0.0137	0.0035
Mercury	104612-04-17 04:04 G	39929914.51	39929914.67	39929914.85	0.0137	0.0063

Mercury	104612-07-14 11:59 G	39930002.86	39930003.00	39930003.15	0.0137	0.0090
Mercury	104612-10-10 19:25 G	39930091.22	39930091.31	39930091.42	0.0137	0.0118
Earth	104621-11-09 19:54 G	39933408.15	39933408.33	39933408.53	0.0135	0.0088
Moon	104621-11-09 21:49 G	39933408.23	39933408.41	39933408.60	0.0135	0.0086 *
Moon	104622-11-14 01:54 G	39933777.32	39933777.58	39933777.84	0.0135	0.0002
Earth	104622-11-14 03:35 G	39933777.40	39933777.65	39933777.90	0.0135	0.0003 *
Venus	104623-08-18 13:40 G	39934055.00	39934055.07	39934055.15	0.0135	0.0125
Earth	104623-11-18 10:04 G	39934146.76	39934146.92	39934147.12	0.0135	0.0093
Moon	104623-11-18 11:30 G	39934146.83	39934146.98	39934147.15	0.0135	0.0100 *
Venus	104624-03-31 17:59 G	39934281.15	39934281.25	39934281.39	0.0135	0.0111
Venus	104624-11-12 22:33 G	39934507.30	39934507.44	39934507.60	0.0135	0.0096
Venus	104625-06-27 02:52 G	39934733.47	39934733.62	39934733.81	0.0135	0.0081
Venus	104626-02-08 07:40 G	39934959.64	39934959.82	39934960.01	0.0135	0.0065
Venus	104626-09-22 12:13 G	39935185.82	39935186.01	39935186.21	0.0135	0.0050
Venus	104627-05-06 16:33 G	39935411.99	39935412.19	39935412.40	0.0135	0.0035
Venus	104627-12-18 21:06 G	39935638.17	39935638.38	39935638.59	0.0135	0.0019
Venus	104628-08-01 01:40 G	39935864.35	39935864.57	39935864.78	0.0135	0.0004
Venus	104629-03-15 05:59 G	39936090.54	39936090.75	39936090.97	0.0135	0.0013
Venus	104629-10-27 10:33 G	39936316.74	39936316.94	39936317.16	0.0135	0.0028
Venus	104630-06-10 15:06 G	39936542.94	39936543.13	39936543.34	0.0135	0.0044
Venus	104631-01-22 19:40 G	39936769.14	39936769.32	39936769.52	0.0135	0.0059
Venus	104631-09-06 00:28 G	39936995.35	39936995.52	39936995.71	0.0135	0.0075
Venus	104632-04-19 05:16 G	39937221.57	39937221.72	39937221.89	0.0135	0.0090
Venus	104632-12-01 10:18 G	39937447.80	39937447.93	39937448.06	0.0135	0.0106
Venus	104633-07-15 15:06 G	39937674.04	39937674.13	39937674.23	0.0135	0.0121
Mercury	104653-08-07 20:52 G	39945002.33	39945002.37	39945002.42	0.0141	0.0132
Mercury	104653-11-04 00:13 G	39945090.44	39945090.51	39945090.60	0.0141	0.0112
Mercury	104654-01-31 03:49 G	39945178.56	39945178.66	39945178.76	0.0141	0.0091
Mercury	104654-04-29 07:11 G	39945266.69	39945266.80	39945266.92	0.0141	0.0071
Mercury	104654-07-26 10:33 G	39945354.82	39945354.94	39945355.07	0.0141	0.0051

Mercury	104654-10-22 14:09 G	39945442.96	39945443.09	39945443.22	0.0141	0.0030
Mercury	104655-01-18 17:30 G	39945531.10	39945531.23	39945531.36	0.0141	0.0010
Mercury	104655-04-16 20:52 G	39945619.24	39945619.37	39945619.51	0.0141	0.0012
Mercury	104655-07-14 00:13 G	39945707.39	39945707.51	39945707.64	0.0141	0.0032
Mercury	104655-10-10 03:49 G	39945795.54	39945795.66	39945795.78	0.0141	0.0052
Mercury	104656-01-06 06:57 G	39945883.69	39945883.79	39945883.91	0.0142	0.0073
Mercury	104656-04-03 10:33 G	39945971.84	39945971.94	39945972.04	0.0142	0.0093
Mercury	104656-06-30 13:54 G	39946060.01	39946060.08	39946060.16	0.0142	0.0113
Mercury	104656-09-26 17:01 G	39946148.18	39946148.21	39946148.27	0.0142	0.0134
Moon	104664-05-09 03:49 G	39948929.50	39948929.66	39948929.86	0.0143	0.0102
Earth	104664-05-09 07:11 G	39948929.62	39948929.80	39948930.00	0.0143	0.0094 *
Earth	104665-05-14 08:23 G	39949299.59	39949299.85	39949300.10	0.0143	0.0017
Moon	104665-05-14 10:18 G	39949299.69	39949299.93	39949300.18	0.0143	0.0024 *
Venus	104665-10-07 09:35 G	39949445.90	39949445.90	39949445.93	0.0143	0.0143
Moon	104666-05-19 07:11 G	39949669.70	39949669.80	39949669.94	0.0143	0.0126
Earth	104666-05-19 09:21 G	39949669.80	39949669.89	39949670.01	0.0143	0.0130 *
Venus	104666-05-21 22:47 G	39949672.35	39949672.45	39949672.57	0.0143	0.0124
Venus	104667-01-03 11:45 G	39949898.85	39949898.99	39949899.15	0.0143	0.0106
Venus	104667-08-18 00:57 G	39950125.37	39950125.54	39950125.73	0.0143	0.0087
Venus	104668-03-31 14:09 G	39950351.91	39950352.09	39950352.30	0.0143	0.0068
Venus	104668-11-13 03:35 G	39950578.44	39950578.65	39950578.86	0.0143	0.0048
Venus	104669-06-27 16:33 G	39950804.97	39950805.19	39950805.41	0.0143	0.0028
Venus	104670-02-09 05:30 G	39951031.51	39951031.73	39951031.96	0.0143	0.0009
Venus	104670-09-23 18:42 G	39951258.06	39951258.28	39951258.50	0.0143	0.0011
Venus	104671-05-08 07:40 G	39951484.61	39951484.82	39951485.04	0.0143	0.0031
Venus	104671-12-20 20:37 G	39951711.15	39951711.36	39951711.57	0.0143	0.0051
Venus	104672-08-03 09:21 G	39951937.70	39951937.89	39951938.09	0.0143	0.0070
Venus	104673-03-17 22:18 G	39952164.26	39952164.43	39952164.61	0.0143	0.0089
Venus	104673-10-30 11:01 G	39952390.82	39952390.96	39952391.11	0.0143	0.0108
Venus	104674-06-13 23:30 G	39952617.40	39952617.48	39952617.60	0.0143	0.0127

Mercury	104694-08-28 05:45 G	39959997.67	39959997.74	39959997.83	0.0137	0.0123
Mercury	104694-11-24 13:25 G	39960085.93	39960086.06	39960086.21	0.0137	0.0096
Mercury	104695-02-20 21:21 G	39960174.22	39960174.39	39960174.55	0.0137	0.0068
Mercury	104695-05-20 04:47 G	39960262.52	39960262.70	39960262.89	0.0137	0.0041
Mercury	104695-08-16 12:28 G	39960350.83	39960351.02	39960351.21	0.0137	0.0014
Mercury	104695-11-12 20:09 G	39960439.15	39960439.34	39960439.53	0.0137	0.0014
Mercury	104696-02-09 03:35 G	39960527.47	39960527.65	39960527.84	0.0137	0.0042
Mercury	104696-05-07 11:16 G	39960615.81	39960615.97	39960616.15	0.0137	0.0069
Mercury	104696-08-03 18:42 G	39960704.16	39960704.28	39960704.43	0.0137	0.0097
Mercury	104696-10-31 02:37 G	39960792.54	39960792.61	39960792.70	0.0137	0.0124
Earth	104705-11-11 07:11 G	39964089.61	39964089.80	39964090.01	0.0135	0.0082
Moon	104705-11-11 08:23 G	39964089.64	39964089.85	39964090.07	0.0135	0.0075 *
Moon	104706-11-15 12:57 G	39964458.80	39964459.04	39964459.28	0.0135	0.0002
Earth	104706-11-15 14:37 G	39964458.86	39964459.11	39964459.36	0.0135	0.0009 *
Venus	104707-04-19 00:28 G	39964613.48	39964613.52	39964613.59	0.0135	0.0130
Earth	104707-11-19 21:06 G	39964828.23	39964828.38	39964828.56	0.0135	0.0099
Moon	104707-11-19 23:01 G	39964828.30	39964828.46	39964828.62	0.0135	0.0105 *
Venus	104707-12-01 04:47 G	39964839.61	39964839.70	39964839.83	0.0135	0.0116
Venus	104708-07-14 09:21 G	39965065.77	39965065.89	39965066.05	0.0135	0.0101
Venus	104709-02-25 13:54 G	39965291.93	39965292.08	39965292.26	0.0135	0.0086
Venus	104709-10-09 18:28 G	39965518.10	39965518.27	39965518.46	0.0135	0.0071
Venus	104710-05-23 23:16 G	39965744.27	39965744.47	39965744.66	0.0135	0.0055
Venus	104711-01-05 03:35 G	39965970.45	39965970.65	39965970.85	0.0135	0.0040
Venus	104711-08-19 07:54 G	39966196.63	39966196.83	39966197.05	0.0135	0.0025
Venus	104712-04-01 12:28 G	39966422.81	39966423.02	39966423.23	0.0135	0.0009
Venus	104712-11-13 17:01 G	39966649.00	39966649.21	39966649.42	0.0135	0.0007
Venus	104713-06-27 21:21 G	39966875.18	39966875.39	39966875.60	0.0135	0.0023
Venus	104714-02-09 01:54 G	39967101.38	39967101.58	39967101.79	0.0135	0.0038
Venus	104714-09-23 06:28 G	39967327.59	39967327.77	39967327.98	0.0135	0.0054
Venus	104715-05-07 11:16 G	39967553.79	39967553.97	39967554.16	0.0135	0.0069

Venus	104715-12-19 16:04 G	39967780.01	39967780.17	39967780.34	0.0135	0.0084
Venus	104716-08-01 20:37 G	39968006.23	39968006.36	39968006.52	0.0135	0.0100
Venus	104717-03-16 01:25 G	39968232.47	39968232.56	39968232.69	0.0135	0.0115
Venus	104717-10-28 06:28 G	39968458.74	39968458.77	39968458.85	0.0135	0.0131
Mars	104721-09-03 16:47 G	39969864.94	39969865.20	39969865.48	0.0136	0.0037
Mercury	104737-08-29 03:49 G	39975703.62	39975703.66	39975703.73	0.0141	0.0128
Mercury	104737-11-25 07:25 G	39975791.73	39975791.81	39975791.90	0.0141	0.0107
Mercury	104738-02-21 10:47 G	39975879.86	39975879.95	39975880.06	0.0141	0.0087
Mercury	104738-05-20 14:23 G	39975967.99	39975968.10	39975968.22	0.0141	0.0066
Mercury	104738-08-16 17:45 G	39976056.12	39976056.24	39976056.37	0.0141	0.0046
Mercury	104738-11-12 21:21 G	39976144.26	39976144.39	39976144.52	0.0141	0.0026
Mercury	104739-02-09 00:42 G	39976232.40	39976232.53	39976232.66	0.0141	0.0005
Mercury	104739-05-08 04:04 G	39976320.54	39976320.67	39976320.80	0.0141	0.0016
Mercury	104739-08-04 07:25 G	39976408.69	39976408.81	39976408.94	0.0141	0.0036
Mercury	104739-10-31 10:47 G	39976496.84	39976496.95	39976497.08	0.0141	0.0057
Mercury	104740-01-27 14:23 G	39976584.99	39976585.10	39976585.21	0.0141	0.0077
Mercury	104740-04-24 17:45 G	39976673.15	39976673.24	39976673.34	0.0142	0.0097
Mercury	104740-07-21 21:06 G	39976761.31	39976761.38	39976761.46	0.0142	0.0117
Mercury	104740-10-18 00:28 G	39976849.50	39976849.52	39976849.55	0.0142	0.0138
Earth	104748-05-10 17:16 G	39979611.02	39979611.22	39979611.42	0.0143	0.0089
Moon	104748-05-10 17:30 G	39979611.05	39979611.23	39979611.43	0.0143	0.0093 *
Earth	104749-05-15 18:13 G	39979981.01	39979981.26	39979981.52	0.0143	0.0023
Moon	104749-05-15 19:11 G	39979981.04	39979981.30	39979981.57	0.0143	0.0022 *
Venus	104750-01-20 03:49 G	39980230.59	39980230.66	39980230.77	0.0143	0.0132
Moon	104750-05-20 18:28 G	39980351.23	39980351.27	39980351.34	0.0143	0.0140
Earth	104750-05-20 19:11 G	39980351.24	39980351.30	39980351.40	0.0143	0.0136 *
Venus	104750-09-03 17:16 G	39980457.09	39980457.22	39980457.36	0.0143	0.0113
Venus	104751-04-18 06:28 G	39980683.61	39980683.77	39980683.94	0.0143	0.0094
Venus	104751-11-30 19:25 G	39980910.13	39980910.31	39980910.51	0.0143	0.0075
Venus	104752-07-14 08:37 G	39981136.66	39981136.86	39981137.07	0.0143	0.0055

Venus	104753-02-25 21:49 G	39981363.20	39981363.41	39981363.63	0.0143	0.0036
Venus	104753-10-10 11:01 G	39981589.74	39981589.96	39981590.18	0.0143	0.0016
Venus	104754-05-24 23:59 G	39981816.28	39981816.50	39981816.73	0.0143	0.0005
Venus	104755-01-06 12:57 G	39982042.83	39982043.04	39982043.27	0.0143	0.0024
Venus	104755-08-21 01:54 G	39982269.38	39982269.58	39982269.80	0.0143	0.0043
Venus	104756-04-03 15:06 G	39982495.93	39982496.13	39982496.33	0.0143	0.0062
Venus	104756-11-16 04:04 G	39982722.49	39982722.67	39982722.85	0.0143	0.0081
Venus	104757-06-30 16:47 G	39982949.05	39982949.20	39982949.36	0.0143	0.0100
Venus	104758-02-12 05:30 G	39983175.61	39983175.73	39983175.86	0.0143	0.0119
Venus	104758-09-26 18:13 G	39983402.21	39983402.26	39983402.32	0.0143	0.0137
Mars	104762-02-28 21:06 G	39984653.18	39984653.38	39984653.61	0.0142	0.0110
Mercury	104778-09-18 12:57 G	39990698.95	39990699.04	39990699.15	0.0137	0.0116
Mercury	104778-12-15 20:37 G	39990787.22	39990787.36	39990787.52	0.0137	0.0089
Mercury	104779-03-14 04:18 G	39990875.51	39990875.68	39990875.86	0.0137	0.0061
Mercury	104779-06-10 11:59 G	39990963.82	39990964.00	39990964.19	0.0137	0.0034
Mercury	104779-09-06 19:40 G	39991052.13	39991052.32	39991052.52	0.0137	0.0007
Mercury	104779-12-04 03:21 G	39991140.45	39991140.64	39991140.83	0.0137	0.0021
Mercury	104780-03-01 10:47 G	39991228.78	39991228.95	39991229.14	0.0137	0.0049
Mercury	104780-05-28 18:28 G	39991317.12	39991317.27	39991317.44	0.0137	0.0076
Mercury	104780-08-25 01:54 G	39991405.47	39991405.58	39991405.72	0.0137	0.0104
Mercury	104780-11-21 09:49 G	39991493.86	39991493.91	39991493.97	0.0137	0.0131
Moon	104789-11-11 15:21 G	39994770.94	39994771.14	39994771.36	0.0135	0.0070
Earth	104789-11-11 18:42 G	39994771.07	39994771.28	39994771.49	0.0135	0.0076 *
Earth	104790-11-16 01:40 G	39995140.33	39995140.57	39995140.83	0.0135	0.0015
Moon	104790-11-16 05:16 G	39995140.47	39995140.72	39995140.98	0.0135	0.0012 *
Venus	104790-12-17 11:45 G	39995171.98	39995171.99	39995172.01	0.0135	0.0134
Venus	104791-07-31 16:04 G	39995398.09	39995398.17	39995398.28	0.0135	0.0120
Moon	104791-11-20 05:16 G	39995509.58	39995509.72	39995509.88	0.0135	0.0107
Earth	104791-11-20 08:37 G	39995509.71	39995509.86	39995510.02	0.0135	0.0105 *
Venus	104792-03-13 20:52 G	39995624.24	39995624.37	39995624.51	0.0135	0.0105

Venus	104792-10-26 01:25 G	39995850.41	39995850.56	39995850.72	0.0135	0.0090
Venus	104793-06-09 05:45 G	39996076.57	39996076.74	39996076.92	0.0135	0.0075
Venus	104794-01-21 10:18 G	39996302.74	39996302.93	39996303.12	0.0135	0.0060
Venus	104794-09-04 14:37 G	39996528.92	39996529.11	39996529.32	0.0135	0.0045
Venus	104795-04-18 19:25 G	39996755.10	39996755.31	39996755.52	0.0135	0.0029
Venus	104795-11-30 23:45 G	39996981.28	39996981.49	39996981.70	0.0135	0.0014
Venus	104796-07-14 04:18 G	39997207.46	39997207.68	39997207.89	0.0135	0.0003
Venus	104797-02-25 08:37 G	39997433.65	39997433.86	39997434.08	0.0135	0.0017
Venus	104797-10-09 13:25 G	39997659.85	39997660.06	39997660.27	0.0135	0.0033
Venus	104798-05-23 17:59 G	39997886.05	39997886.25	39997886.45	0.0135	0.0048
Venus	104799-01-04 22:33 G	39998112.26	39998112.44	39998112.63	0.0135	0.0064
Venus	104799-08-19 03:21 G	39998338.47	39998338.64	39998338.82	0.0135	0.0079
Venus	104800-04-01 08:09 G	39998564.69	39998564.84	39998565.00	0.0135	0.0095
Venus	104800-11-13 13:11 G	39998790.93	39998791.05	39998791.18	0.0135	0.0110
Venus	104801-06-27 18:13 G	39999017.18	39999017.26	39999017.34	0.0135	0.0125
Mars	104806-04-28 23:01 G	40000783.25	40000783.46	40000783.71	0.0136	0.0079
Mercury	104821-09-18 11:30 G	40006404.92	40006404.98	40006405.06	0.0141	0.0121
Mercury	104821-12-15 15:06 G	40006493.04	40006493.13	40006493.22	0.0141	0.0101
Mercury	104822-03-13 18:28 G	40006581.17	40006581.27	40006581.38	0.0141	0.0080
Mercury	104822-06-09 21:49 G	40006669.30	40006669.41	40006669.54	0.0141	0.0060
Mercury	104822-09-06 01:25 G	40006757.44	40006757.56	40006757.69	0.0141	0.0039
Mercury	104822-12-03 04:47 G	40006845.57	40006845.70	40006845.84	0.0141	0.0020
Mercury	104823-03-01 08:23 G	40006933.71	40006933.85	40006933.98	0.0141	0.0004
Mercury	104823-05-28 11:45 G	40007021.86	40007021.99	40007022.12	0.0141	0.0022
Mercury	104823-08-24 15:06 G	40007110.01	40007110.13	40007110.26	0.0141	0.0042
Mercury	104823-11-20 18:28 G	40007198.16	40007198.27	40007198.39	0.0141	0.0063
Mercury	104824-02-16 21:49 G	40007286.31	40007286.41	40007286.52	0.0141	0.0083
Mercury	104824-05-15 01:11 G	40007374.47	40007374.55	40007374.65	0.0142	0.0104
Mercury	104824-08-11 04:47 G	40007462.64	40007462.70	40007462.76	0.0142	0.0124
Earth	104832-05-11 05:45 G	40010292.54	40010292.74	40010292.96	0.0143	0.0081

Moon	104832-05-11 08:09 G	40010292.64	40010292.84	40010293.08	0.0143	0.0078	*
Moon	104833-05-16 03:35 G	40010662.41	40010662.65	40010662.90	0.0143	0.0024	
Earth	104833-05-16 06:42 G	40010662.54	40010662.78	40010663.04	0.0143	0.0031	*
Venus	104833-09-19 11:16 G	40010788.91	40010788.97	40010789.04	0.0143	0.0137	
Venus	104834-05-03 23:59 G	40011015.40	40011015.50	40011015.64	0.0143	0.0119	
Earth	104834-05-21 07:54 G	40011032.82	40011032.83	40011032.85	0.0143	0.0143	
Venus	104834-12-16 13:11 G	40011241.90	40011242.05	40011242.22	0.0143	0.0100	
Venus	104835-07-31 02:23 G	40011468.42	40011468.60	40011468.79	0.0143	0.0080	
Venus	104836-03-13 15:35 G	40011694.96	40011695.15	40011695.36	0.0143	0.0061	
Venus	104836-10-26 04:47 G	40011921.49	40011921.70	40011921.92	0.0143	0.0042	
Venus	104837-06-09 17:45 G	40012148.03	40012148.24	40012148.47	0.0143	0.0023	
Venus	104838-01-22 06:57 G	40012374.57	40012374.79	40012375.02	0.0143	0.0003	
Venus	104838-09-05 19:54 G	40012601.12	40012601.33	40012601.56	0.0143	0.0018	
Venus	104839-04-20 09:21 G	40012827.67	40012827.89	40012828.10	0.0143	0.0037	
Venus	104839-12-02 22:04 G	40013054.22	40013054.42	40013054.63	0.0143	0.0056	
Venus	104840-07-16 11:01 G	40013280.78	40013280.96	40013281.16	0.0143	0.0075	
Venus	104841-02-27 23:59 G	40013507.34	40013507.50	40013507.67	0.0143	0.0094	
Venus	104841-10-12 12:42 G	40013733.91	40013734.03	40013734.18	0.0143	0.0113	
Venus	104842-05-27 01:25 G	40013960.49	40013960.56	40013960.66	0.0143	0.0131	
Mars	104846-10-26 13:11 G	40015573.76	40015574.05	40015574.38	0.0142	0.0055	
Mercury	104862-07-12 12:57 G	40021312.02	40021312.04	40021312.08	0.0137	0.0135	
Mercury	104862-10-08 20:23 G	40021400.25	40021400.35	40021400.49	0.0137	0.0108	
Mercury	104863-01-05 04:18 G	40021488.53	40021488.68	40021488.84	0.0137	0.0080	
Mercury	104863-04-03 11:59 G	40021576.82	40021577.00	40021577.18	0.0137	0.0053	
Mercury	104863-06-30 19:25 G	40021665.13	40021665.31	40021665.51	0.0137	0.0026	
Mercury	104863-09-27 03:06 G	40021753.44	40021753.63	40021753.83	0.0137	0.0004	
Mercury	104863-12-24 10:47 G	40021841.76	40021841.95	40021842.14	0.0137	0.0029	
Mercury	104864-03-21 18:28 G	40021930.10	40021930.27	40021930.45	0.0137	0.0057	
Mercury	104864-06-18 02:09 G	40022018.44	40022018.59	40022018.74	0.0137	0.0084	
Mercury	104864-09-14 09:35 G	40022106.80	40022106.90	40022107.02	0.0137	0.0112	

Earth	104873-11-12 05:30 G	40025452.54	40025452.73	40025452.97	0.0135	0.0071
Moon	104873-11-12 08:52 G	40025452.66	40025452.87	40025453.08	0.0135	0.0070 *
Moon	104874-11-16 09:49 G	40025821.66	40025821.91	40025822.17	0.0135	0.0023
Earth	104874-11-16 12:57 G	40025821.80	40025822.04	40025822.30	0.0135	0.0021 *
Venus	104875-03-31 03:21 G	40025956.57	40025956.64	40025956.74	0.0135	0.0124
Venus	104875-11-12 08:09 G	40026182.72	40026182.84	40026182.96	0.0135	0.0109
Earth	104875-11-20 19:40 G	40026191.19	40026191.32	40026191.47	0.0135	0.0111
Moon	104875-11-20 22:33 G	40026191.31	40026191.44	40026191.61	0.0135	0.0107 *
Venus	104876-06-25 12:13 G	40026408.87	40026409.01	40026409.18	0.0135	0.0095
Venus	104877-02-06 16:47 G	40026635.04	40026635.20	40026635.38	0.0135	0.0080
Venus	104877-09-20 21:21 G	40026861.22	40026861.39	40026861.59	0.0135	0.0065
Venus	104878-05-05 02:09 G	40027087.39	40027087.59	40027087.79	0.0135	0.0049
Venus	104878-12-17 06:28 G	40027313.56	40027313.77	40027313.98	0.0135	0.0034
Venus	104879-07-31 10:47 G	40027539.74	40027539.95	40027540.17	0.0135	0.0019
Venus	104880-03-13 15:21 G	40027765.93	40027766.14	40027766.35	0.0135	0.0003
Venus	104880-10-25 19:54 G	40027992.12	40027992.33	40027992.54	0.0135	0.0013
Venus	104881-06-09 00:28 G	40028218.31	40028218.52	40028218.73	0.0135	0.0028
Venus	104882-01-21 04:47 G	40028444.51	40028444.70	40028444.91	0.0135	0.0044
Venus	104882-09-04 09:35 G	40028670.72	40028670.90	40028671.10	0.0135	0.0059
Venus	104883-04-18 14:23 G	40028896.93	40028897.10	40028897.28	0.0135	0.0074
Venus	104883-11-30 19:11 G	40029123.15	40029123.30	40029123.46	0.0135	0.0089
Venus	104884-07-13 23:59 G	40029349.37	40029349.50	40029349.64	0.0135	0.0105
Venus	104885-02-25 04:47 G	40029575.61	40029575.70	40029575.81	0.0135	0.0120
Venus	104885-10-09 09:49 G	40029801.90	40029801.91	40029801.95	0.0135	0.0134
Mars	104889-01-22 01:25 G	40031002.39	40031002.56	40031002.76	0.0136	0.0100
Mercury	104905-07-13 15:35 G	40037018.12	40037018.15	40037018.19	0.0141	0.0136
Mercury	104905-10-09 18:57 G	40037106.22	40037106.29	40037106.37	0.0141	0.0116
Mercury	104906-01-05 22:33 G	40037194.34	40037194.44	40037194.54	0.0141	0.0095
Mercury	104906-04-04 01:54 G	40037282.47	40037282.58	40037282.70	0.0141	0.0075
Mercury	104906-07-01 05:30 G	40037370.60	40037370.73	40037370.85	0.0141	0.0054

Mercury	104906-09-27 08:52 G	40037458.74	40037458.87	40037459.00	0.0141	0.0034
Mercury	104906-12-24 12:13 G	40037546.88	40037547.01	40037547.14	0.0141	0.0014
Mercury	104907-03-22 15:35 G	40037635.02	40037635.15	40037635.29	0.0141	0.0008
Mercury	104907-06-18 19:11 G	40037723.17	40037723.30	40037723.43	0.0141	0.0028
Mercury	104907-09-14 22:33 G	40037811.32	40037811.44	40037811.56	0.0141	0.0048
Mercury	104907-12-12 01:54 G	40037899.47	40037899.58	40037899.70	0.0141	0.0068
Mercury	104908-03-09 05:16 G	40037987.62	40037987.72	40037987.83	0.0142	0.0089
Mercury	104908-06-05 08:37 G	40038075.79	40038075.86	40038075.95	0.0142	0.0110
Mercury	104908-09-01 11:59 G	40038163.96	40038164.00	40038164.06	0.0142	0.0130
Moon	104916-05-12 14:09 G	40040973.86	40040974.09	40040974.32	0.0143	0.0067
Earth	104916-05-12 17:30 G	40040974.02	40040974.23	40040974.46	0.0143	0.0075 *
Earth	104917-05-17 18:28 G	40041344.03	40041344.27	40041344.53	0.0143	0.0038
Moon	104917-05-17 22:18 G	40041344.19	40041344.43	40041344.69	0.0143	0.0030 *
Venus	104917-05-20 17:30 G	40041347.23	40041347.23	40041347.28	0.0143	0.0143
Venus	104918-01-02 06:57 G	40041573.68	40041573.79	40041573.90	0.0143	0.0124
Venus	104918-08-16 19:54 G	40041800.19	40041800.33	40041800.49	0.0143	0.0105
Venus	104919-03-31 09:06 G	40042026.72	40042026.88	40042027.07	0.0143	0.0087
Venus	104919-11-12 22:18 G	40042253.24	40042253.43	40042253.64	0.0143	0.0067
Venus	104920-06-26 11:45 G	40042479.78	40042479.99	40042480.20	0.0143	0.0048
Venus	104921-02-08 00:42 G	40042706.32	40042706.53	40042706.76	0.0143	0.0029
Venus	104921-09-22 14:09 G	40042932.86	40042933.09	40042933.31	0.0143	0.0009
Venus	104922-05-07 03:21 G	40043159.42	40043159.64	40043159.86	0.0143	0.0011
Venus	104922-12-19 16:18 G	40043385.97	40043386.18	40043386.40	0.0143	0.0031
Venus	104923-08-03 05:16 G	40043612.52	40043612.72	40043612.94	0.0143	0.0050
Venus	104924-03-16 18:28 G	40043839.09	40043839.27	40043839.48	0.0143	0.0069
Venus	104924-10-29 07:25 G	40044065.65	40044065.81	40044066.00	0.0143	0.0089
Venus	104925-06-12 20:23 G	40044292.22	40044292.35	40044292.51	0.0143	0.0107
Venus	104926-01-25 09:21 G	40044518.79	40044518.89	40044519.00	0.0143	0.0125
Mercury	104946-08-02 21:21 G	40052013.31	40052013.39	40052013.47	0.0137	0.0125
Mercury	104946-10-30 04:47 G	40052101.57	40052101.70	40052101.84	0.0137	0.0097

Mercury	104947-01-26 12:28 G	40052189.86	40052190.02	40052190.19	0.0137	0.0070
Mercury	104947-04-24 19:54 G	40052278.16	40052278.33	40052278.52	0.0137	0.0043
Mercury	104947-07-22 03:35 G	40052366.46	40052366.65	40052366.85	0.0137	0.0016
Mercury	104947-10-18 11:16 G	40052454.78	40052454.97	40052455.17	0.0137	0.0012
Mercury	104948-01-14 18:42 G	40052543.11	40052543.28	40052543.48	0.0137	0.0040
Mercury	104948-04-12 02:37 G	40052631.44	40052631.61	40052631.78	0.0137	0.0067
Mercury	104948-07-09 10:04 G	40052719.79	40052719.92	40052720.07	0.0137	0.0094
Mercury	104948-10-05 17:45 G	40052808.16	40052808.24	40052808.34	0.0137	0.0122
Moon	104957-11-13 17:59 G	40056134.04	40056134.25	40056134.48	0.0135	0.0069
Earth	104957-11-13 18:13 G	40056134.06	40056134.26	40056134.50	0.0135	0.0064 *
Earth	104958-11-18 01:25 G	40056503.32	40056503.56	40056503.82	0.0135	0.0027
Moon	104958-11-18 02:23 G	40056503.37	40056503.60	40056503.84	0.0135	0.0034 *
Venus	104958-11-29 15:06 G	40056515.08	40056515.13	40056515.21	0.0135	0.0128
Venus	104959-07-13 19:54 G	40056741.22	40056741.33	40056741.45	0.0135	0.0113
Moon	104959-11-22 07:11 G	40056872.68	40056872.80	40056872.97	0.0135	0.0111
Earth	104959-11-22 07:54 G	40056872.73	40056872.83	40056872.98	0.0135	0.0118 *
Venus	104960-02-24 23:59 G	40056967.38	40056967.50	40056967.67	0.0135	0.0099
Venus	104960-10-08 04:47 G	40057193.54	40057193.70	40057193.88	0.0135	0.0084
Venus	104961-05-22 09:06 G	40057419.71	40057419.88	40057420.08	0.0135	0.0069
Venus	104962-01-03 13:40 G	40057645.88	40057646.07	40057646.27	0.0135	0.0053
Venus	104962-08-17 18:13 G	40057872.06	40057872.26	40057872.47	0.0135	0.0038
Venus	104963-03-31 22:47 G	40058098.24	40058098.45	40058098.66	0.0135	0.0023
Venus	104963-11-13 03:06 G	40058324.42	40058324.63	40058324.85	0.0135	0.0008
Venus	104964-06-26 07:40 G	40058550.61	40058550.82	40058551.03	0.0135	0.0008
Venus	104965-02-07 12:13 G	40058776.80	40058777.01	40058777.22	0.0135	0.0024
Venus	104965-09-21 17:01 G	40059003.00	40059003.21	40059003.41	0.0135	0.0039
Venus	104966-05-05 21:21 G	40059229.21	40059229.39	40059229.60	0.0135	0.0055
Venus	104966-12-18 01:54 G	40059455.41	40059455.58	40059455.78	0.0135	0.0070
Venus	104967-08-01 06:42 G	40059681.63	40059681.78	40059681.95	0.0135	0.0085
Venus	104968-03-14 11:30 G	40059907.85	40059907.98	40059908.13	0.0135	0.0100

Venus	104968-10-26 16:18 G	40060134.09	40060134.18	40060134.31	0.0135	0.0115
Venus	104969-06-09 21:35 G	40060360.35	40060360.40	40060360.46	0.0135	0.0130
Mars	104973-09-17 08:52 G	40061920.59	40061920.87	40061921.15	0.0136	0.0014
Mercury	104989-08-02 23:01 G	40067719.42	40067719.46	40067719.52	0.0141	0.0130
Mercury	104989-10-30 02:37 G	40067807.53	40067807.61	40067807.69	0.0141	0.0109
Mercury	104990-01-26 05:59 G	40067895.65	40067895.75	40067895.86	0.0141	0.0089
Mercury	104990-04-24 09:35 G	40067983.78	40067983.90	40067984.01	0.0141	0.0068
Mercury	104990-07-21 12:57 G	40068071.92	40068072.04	40068072.17	0.0141	0.0048
Mercury	104990-10-17 16:18 G	40068160.06	40068160.18	40068160.31	0.0141	0.0028
Mercury	104991-01-13 19:54 G	40068248.20	40068248.33	40068248.46	0.0141	0.0007
Mercury	104991-04-11 23:16 G	40068336.34	40068336.47	40068336.60	0.0141	0.0014
Mercury	104991-07-09 02:37 G	40068424.49	40068424.61	40068424.74	0.0141	0.0034
Mercury	104991-10-05 05:59 G	40068512.63	40068512.75	40068512.88	0.0141	0.0055
Mercury	104992-01-01 09:35 G	40068600.79	40068600.90	40068601.01	0.0142	0.0075
Mercury	104992-03-29 12:42 G	40068688.94	40068689.03	40068689.14	0.0142	0.0096
Mercury	104992-06-25 16:18 G	40068777.11	40068777.18	40068777.26	0.0142	0.0116
Mercury	104992-09-21 19:40 G	40068865.29	40068865.32	40068865.36	0.0142	0.0136
Earth	105000-05-14 05:59 G	40071655.54	40071655.75	40071655.99	0.0143	0.0067
Moon	105000-05-14 07:54 G	40071655.61	40071655.83	40071656.06	0.0143	0.0062 *

106TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 106th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Moon	105001-05-19 05:30 G	40072025.47	40072025.73	40072025.98	0.0143	0.0042
Earth	105001-05-19 07:11 G	40072025.57	40072025.80	40072026.05	0.0143	0.0046 *
Venus	105001-09-02 13:40 G	40072131.99	40072132.07	40072132.18	0.0143	0.0130
Venus	105002-04-17 03:06 G	40072358.50	40072358.63	40072358.78	0.0143	0.0111
Venus	105002-11-29 16:18 G	40072585.01	40072585.18	40072585.35	0.0143	0.0092
Venus	105003-07-14 05:30 G	40072811.54	40072811.73	40072811.92	0.0143	0.0073
Venus	105004-02-25 18:42 G	40073038.08	40073038.28	40073038.49	0.0143	0.0054
Venus	105004-10-09 07:54 G	40073264.62	40073264.83	40073265.06	0.0143	0.0034
Venus	105005-05-23 21:21 G	40073491.17	40073491.39	40073491.61	0.0143	0.0014
Venus	105006-01-05 10:33 G	40073717.72	40073717.94	40073718.16	0.0143	0.0005
Venus	105006-08-19 23:45 G	40073944.27	40073944.49	40073944.71	0.0143	0.0025
Venus	105007-04-03 12:57 G	40074170.84	40074171.04	40074171.26	0.0143	0.0044
Venus	105007-11-16 02:09 G	40074397.40	40074397.59	40074397.80	0.0143	0.0063
Venus	105008-06-29 15:06 G	40074623.96	40074624.13	40074624.32	0.0143	0.0083
Venus	105009-02-11 04:04 G	40074850.52	40074850.67	40074850.84	0.0143	0.0101
Venus	105009-09-25 16:47 G	40075077.10	40075077.20	40075077.34	0.0143	0.0120
Venus	105010-05-10 05:45 G	40075303.70	40075303.74	40075303.82	0.0143	0.0138
Mars	105014-03-15 03:35 G	40076708.33	40076708.65	40076708.99	0.0142	0.0035
Mercury	105030-08-24 05:16 G	40082714.64	40082714.72	40082714.85	0.0137	0.0115
Mercury	105030-11-20 13:11 G	40082802.91	40082803.05	40082803.21	0.0137	0.0087
Mercury	105031-02-16 20:52 G	40082891.20	40082891.37	40082891.55	0.0137	0.0059
Mercury	105031-05-16 04:18 G	40082979.50	40082979.68	40082979.88	0.0137	0.0032
Mercury	105031-08-12 12:13 G	40083067.81	40083068.01	40083068.20	0.0137	0.0005
Mercury	105031-11-08 19:40 G	40083156.13	40083156.32	40083156.51	0.0137	0.0023
Mercury	105032-02-05 03:06 G	40083244.46	40083244.63	40083244.82	0.0137	0.0051
Mercury	105032-05-03 10:47 G	40083332.80	40083332.95	40083333.12	0.0137	0.0078
Mercury	105032-07-30 18:13 G	40083421.16	40083421.26	40083421.40	0.0137	0.0106
Mercury	105032-10-27 02:09 G	40083509.56	40083509.59	40083509.64	0.0137	0.0133
Moon	105041-11-15 05:16 G	40086815.51	40086815.72	40086815.94	0.0135	0.0063

Earth	105041-11-15 07:54 G	40086815.60	40086815.83	40086816.06	0.0135	0.0056 *
Venus	105042-07-31 03:35 G	40087073.62	40087073.65	40087073.71	0.0135	0.0131
Earth	105042-11-19 14:23 G	40087184.87	40087185.10	40087185.36	0.0135	0.0035
Moon	105042-11-19 16:47 G	40087184.95	40087185.20	40087185.45	0.0135	0.0040 *
Venus	105043-03-14 07:54 G	40087299.74	40087299.83	40087299.95	0.0135	0.0117
Venus	105043-10-26 12:42 G	40087525.90	40087526.03	40087526.17	0.0135	0.0102
Moon	105043-11-23 18:42 G	40087554.20	40087554.28	40087554.40	0.0135	0.0123
Earth	105043-11-23 21:06 G	40087554.30	40087554.38	40087554.49	0.0135	0.0125 *
Venus	105044-06-08 16:47 G	40087752.06	40087752.20	40087752.38	0.0135	0.0088
Venus	105045-01-20 21:21 G	40087978.22	40087978.39	40087978.58	0.0135	0.0073
Venus	105045-09-04 01:54 G	40088204.40	40088204.58	40088204.78	0.0135	0.0057
Venus	105046-04-18 06:28 G	40088430.57	40088430.77	40088430.97	0.0135	0.0042
Venus	105046-11-30 10:47 G	40088656.74	40088656.95	40088657.16	0.0135	0.0027
Venus	105047-07-14 15:06 G	40088882.92	40088883.13	40088883.35	0.0135	0.0012
Venus	105048-02-25 19:40 G	40089109.11	40089109.32	40089109.53	0.0135	0.0004
Venus	105048-10-09 00:13 G	40089335.30	40089335.51	40089335.73	0.0135	0.0019
Venus	105049-05-23 04:47 G	40089561.50	40089561.70	40089561.91	0.0135	0.0035
Venus	105050-01-04 09:21 G	40089787.69	40089787.89	40089788.09	0.0135	0.0050
Venus	105050-08-18 13:54 G	40090013.90	40090014.08	40090014.27	0.0135	0.0065
Venus	105051-04-01 18:28 G	40090240.11	40090240.27	40090240.45	0.0135	0.0080
Venus	105051-11-13 23:16 G	40090466.33	40090466.47	40090466.63	0.0135	0.0095
Venus	105052-06-27 03:49 G	40090692.55	40090692.66	40090692.79	0.0135	0.0110
Venus	105053-02-08 08:23 G	40090918.79	40090918.85	40090918.95	0.0135	0.0126
Mars	105058-05-13 14:23 G	40092839.02	40092839.10	40092839.21	0.0136	0.0127
Mercury	105073-08-24 06:13 G	40098420.71	40098420.76	40098420.82	0.0141	0.0125
Mercury	105073-11-20 09:35 G	40098508.82	40098508.90	40098509.00	0.0141	0.0105
Mercury	105074-02-16 13:11 G	40098596.95	40098597.05	40098597.16	0.0141	0.0084
Mercury	105074-05-15 16:33 G	40098685.08	40098685.19	40098685.31	0.0141	0.0064
Mercury	105074-08-11 20:09 G	40098773.22	40098773.34	40098773.47	0.0141	0.0043
Mercury	105074-11-07 23:30 G	40098861.35	40098861.48	40098861.61	0.0141	0.0023

Mercury	105075-02-04 03:06 G	40098949.49	40098949.63	40098949.76	0.0141	0.0004
Mercury	105075-05-03 06:28 G	40099037.64	40099037.77	40099037.90	0.0141	0.0018
Mercury	105075-07-30 09:49 G	40099125.79	40099125.91	40099126.04	0.0141	0.0039
Mercury	105075-10-26 13:11 G	40099213.94	40099214.05	40099214.17	0.0141	0.0059
Mercury	105076-01-22 16:33 G	40099302.09	40099302.19	40099302.31	0.0142	0.0080
Mercury	105076-04-19 20:09 G	40099390.25	40099390.34	40099390.43	0.0142	0.0100
Mercury	105076-07-16 23:16 G	40099478.42	40099478.47	40099478.55	0.0142	0.0121
Mercury	105076-10-13 02:52 G	40099566.61	40099566.62	40099566.64	0.0142	0.0141
Earth	105084-05-14 15:21 G	40102336.92	40102337.14	40102337.38	0.0143	0.0063
Moon	105084-05-14 16:04 G	40102336.95	40102337.17	40102337.42	0.0143	0.0063 *
Venus	105085-05-02 18:57 G	40102690.23	40102690.29	40102690.37	0.0143	0.0136
Moon	105085-05-19 15:21 G	40102706.93	40102707.14	40102707.39	0.0143	0.0055
Earth	105085-05-19 16:47 G	40102706.96	40102707.20	40102707.44	0.0143	0.0050 *
Venus	105085-12-15 07:54 G	40102916.72	40102916.83	40102916.97	0.0143	0.0118
Venus	105086-07-29 21:06 G	40103143.24	40103143.38	40103143.56	0.0143	0.0099
Venus	105087-03-13 10:33 G	40103369.77	40103369.94	40103370.14	0.0144	0.0080
Venus	105087-10-25 23:59 G	40103596.31	40103596.50	40103596.71	0.0144	0.0060
Venus	105088-06-08 13:25 G	40103822.85	40103823.06	40103823.27	0.0144	0.0041
Venus	105089-01-21 02:37 G	40104049.40	40104049.61	40104049.84	0.0143	0.0022
Venus	105089-09-04 16:04 G	40104275.95	40104276.17	40104276.40	0.0143	0.0002
Venus	105090-04-19 05:30 G	40104502.51	40104502.73	40104502.95	0.0143	0.0018
Venus	105090-12-01 18:42 G	40104729.07	40104729.28	40104729.50	0.0143	0.0038
Venus	105091-07-16 07:54 G	40104955.63	40104955.83	40104956.04	0.0143	0.0057
Venus	105092-02-27 21:21 G	40105182.20	40105182.39	40105182.58	0.0143	0.0076
Venus	105092-10-11 10:18 G	40105408.77	40105408.93	40105409.10	0.0143	0.0095
Venus	105093-05-25 23:16 G	40105635.35	40105635.47	40105635.62	0.0143	0.0113
Venus	105094-01-07 12:13 G	40105861.93	40105862.01	40105862.10	0.0143	0.0132
Mars	105098-11-09 18:13 G	40107629.13	40107629.26	40107629.42	0.0142	0.0129
Mercury	105114-06-18 06:13 G	40113327.72	40113327.76	40113327.84	0.0137	0.0131
Mercury	105114-09-14 13:54 G	40113415.97	40113416.08	40113416.22	0.0137	0.0103

Mercury	105114-12-11 21:49 G	40113504.25	40113504.41	40113504.57	0.0137	0.0076
Mercury	105115-03-10 05:16 G	40113592.54	40113592.72	40113592.90	0.0137	0.0048
Mercury	105115-06-06 12:57 G	40113680.85	40113681.04	40113681.23	0.0137	0.0021
Mercury	105115-09-02 20:37 G	40113769.16	40113769.36	40113769.55	0.0137	0.0007
Mercury	105115-11-30 04:18 G	40113857.49	40113857.68	40113857.86	0.0137	0.0034
Mercury	105116-02-26 11:45 G	40113945.82	40113945.99	40113946.17	0.0137	0.0062
Mercury	105116-05-24 19:25 G	40114034.17	40114034.31	40114034.46	0.0137	0.0089
Mercury	105116-08-21 02:52 G	40114122.53	40114122.62	40114122.73	0.0137	0.0117
Moon	105124-11-12 10:47 G	40117127.94	40117127.95	40117127.99	0.0135	0.0134
Earth	105125-11-16 21:21 G	40117497.16	40117497.39	40117497.63	0.0135	0.0048
Moon	105125-11-17 01:11 G	40117497.32	40117497.55	40117497.79	0.0135	0.0050 *
Venus	105126-03-31 16:33 G	40117632.19	40117632.19	40117632.19	0.0135	0.0135
Venus	105126-11-12 20:37 G	40117858.28	40117858.36	40117858.47	0.0135	0.0121
Moon	105126-11-21 00:57 G	40117866.31	40117866.54	40117866.78	0.0135	0.0043
Earth	105126-11-21 04:18 G	40117866.45	40117866.68	40117866.93	0.0135	0.0043 *
Venus	105127-06-27 01:11 G	40118084.43	40118084.55	40118084.69	0.0135	0.0106
Earth	105127-11-25 10:33 G	40118235.92	40118235.94	40118236.00	0.0135	0.0133
Venus	105128-02-08 05:45 G	40118310.59	40118310.74	40118310.90	0.0135	0.0091
Venus	105128-09-21 10:04 G	40118536.76	40118536.92	40118537.11	0.0135	0.0077
Venus	105129-05-05 14:23 G	40118762.93	40118763.10	40118763.31	0.0135	0.0062
Venus	105129-12-17 18:57 G	40118989.10	40118989.29	40118989.50	0.0135	0.0046
Venus	105130-07-31 23:30 G	40119215.27	40119215.48	40119215.69	0.0135	0.0031
Venus	105131-03-15 03:49 G	40119441.45	40119441.66	40119441.88	0.0135	0.0016
Venus	105131-10-27 08:23 G	40119667.64	40119667.85	40119668.07	0.0135	0.0002
Venus	105132-06-09 12:42 G	40119893.83	40119894.03	40119894.25	0.0135	0.0016
Venus	105133-01-21 17:16 G	40120120.02	40120120.22	40120120.43	0.0135	0.0030
Venus	105133-09-04 21:49 G	40120346.22	40120346.41	40120346.62	0.0135	0.0046
Venus	105134-04-19 02:23 G	40120572.42	40120572.60	40120572.80	0.0135	0.0061
Venus	105134-12-01 06:57 G	40120798.62	40120798.79	40120798.97	0.0135	0.0076
Venus	105135-07-15 11:30 G	40121024.83	40121024.98	40121025.14	0.0135	0.0091

Venus	105136-02-26 15:49 G	40121251.05	40121251.16	40121251.31	0.0135	0.0106
Venus	105136-10-09 21:06 G	40121477.29	40121477.38	40121477.48	0.0135	0.0120
Venus	105137-05-24 01:40 G	40121703.57	40121703.57	40121703.59	0.0135	0.0135
Mars	105141-02-06 20:23 G	40123058.10	40123058.35	40123058.62	0.0136	0.0051
Mercury	105157-06-18 10:04 G	40129033.92	40129033.92	40129033.94	0.0141	0.0140
Mercury	105157-09-14 13:40 G	40129122.01	40129122.07	40129122.14	0.0141	0.0119
Mercury	105157-12-11 17:01 G	40129210.13	40129210.21	40129210.31	0.0141	0.0099
Mercury	105158-03-09 20:37 G	40129298.25	40129298.36	40129298.47	0.0141	0.0078
Mercury	105158-06-05 23:59 G	40129386.39	40129386.50	40129386.63	0.0141	0.0058
Mercury	105158-09-02 03:35 G	40129474.52	40129474.65	40129474.78	0.0141	0.0038
Mercury	105158-11-29 06:57 G	40129562.66	40129562.79	40129562.93	0.0141	0.0018
Mercury	105159-02-25 10:33 G	40129650.81	40129650.94	40129651.07	0.0141	0.0004
Mercury	105159-05-24 13:54 G	40129738.95	40129739.08	40129739.21	0.0141	0.0024
Mercury	105159-08-20 17:16 G	40129827.10	40129827.22	40129827.35	0.0141	0.0044
Mercury	105159-11-16 20:52 G	40129915.25	40129915.37	40129915.48	0.0141	0.0065
Mercury	105160-02-12 23:59 G	40130003.41	40130003.50	40130003.61	0.0142	0.0086
Mercury	105160-05-11 03:35 G	40130091.57	40130091.65	40130091.74	0.0142	0.0106
Mercury	105160-08-07 06:57 G	40130179.74	40130179.79	40130179.85	0.0142	0.0126
Moon	105168-05-15 22:47 G	40133018.23	40133018.45	40133018.68	0.0143	0.0063
Earth	105168-05-16 01:40 G	40133018.35	40133018.57	40133018.82	0.0143	0.0057 *
Venus	105169-01-01 00:28 G	40133248.50	40133248.52	40133248.56	0.0143	0.0142
Earth	105169-05-21 02:52 G	40133388.39	40133388.62	40133388.87	0.0143	0.0056
Moon	105169-05-21 06:13 G	40133388.54	40133388.76	40133389.00	0.0143	0.0063 *
Venus	105169-08-15 13:40 G	40133474.97	40133475.07	40133475.19	0.0143	0.0124
Venus	105170-03-30 03:06 G	40133701.48	40133701.63	40133701.78	0.0143	0.0105
Venus	105170-11-11 16:04 G	40133928.01	40133928.17	40133928.36	0.0144	0.0086
Venus	105171-06-26 05:45 G	40134154.54	40134154.74	40134154.93	0.0144	0.0067
Venus	105172-02-07 18:57 G	40134381.08	40134381.29	40134381.50	0.0144	0.0048
Venus	105172-09-21 08:09 G	40134607.63	40134607.84	40134608.07	0.0144	0.0029
Venus	105173-05-05 21:49 G	40134834.19	40134834.41	40134834.63	0.0144	0.0009

Venus	105173-12-18 11:01 G	40135060.74	40135060.96	40135061.19	0.0143	0.0011
Venus	105174-08-02 00:28 G	40135287.30	40135287.52	40135287.74	0.0143	0.0030
Venus	105175-03-16 13:54 G	40135513.87	40135514.08	40135514.29	0.0143	0.0050
Venus	105175-10-29 02:52 G	40135740.44	40135740.62	40135740.83	0.0143	0.0069
Venus	105176-06-11 15:49 G	40135967.00	40135967.16	40135967.35	0.0143	0.0089
Venus	105177-01-24 05:16 G	40136193.57	40136193.72	40136193.87	0.0143	0.0106
Venus	105177-09-07 17:59 G	40136420.16	40136420.25	40136420.37	0.0143	0.0125
Venus	105178-04-22 07:11 G	40136646.80	40136646.80	40136646.82	0.0143	0.0143
Mars	105181-07-31 03:49 G	40137842.59	40137842.66	40137842.78	0.0142	0.0137
Mercury	105198-07-08 14:09 G	40144029.02	40144029.09	40144029.20	0.0137	0.0121
Mercury	105198-10-04 22:04 G	40144117.28	40144117.42	40144117.56	0.0137	0.0094
Mercury	105199-01-01 05:30 G	40144205.57	40144205.73	40144205.91	0.0137	0.0066
Mercury	105199-03-30 13:11 G	40144293.87	40144294.05	40144294.24	0.0137	0.0039
Mercury	105199-06-26 20:52 G	40144382.18	40144382.37	40144382.57	0.0137	0.0012
Mercury	105199-09-23 04:33 G	40144470.50	40144470.69	40144470.88	0.0137	0.0016
Mercury	105199-12-20 11:59 G	40144558.83	40144559.00	40144559.19	0.0137	0.0044
Mercury	105200-03-17 19:54 G	40144647.16	40144647.33	40144647.49	0.0137	0.0071
Mercury	105200-06-14 03:21 G	40144735.51	40144735.64	40144735.78	0.0137	0.0099
Mercury	105200-09-10 11:01 G	40144823.90	40144823.96	40144824.04	0.0137	0.0126
Earth	105208-11-13 03:21 G	40147809.60	40147809.64	40147809.72	0.0135	0.0131
Moon	105208-11-13 05:45 G	40147809.71	40147809.74	40147809.78	0.0135	0.0133 *
Moon	105209-11-17 08:09 G	40148178.59	40148178.84	40148179.09	0.0135	0.0036
Earth	105209-11-17 10:47 G	40148178.72	40148178.95	40148179.20	0.0135	0.0040 *
Venus	105210-07-13 08:52 G	40148416.81	40148416.87	40148416.97	0.0135	0.0125
Earth	105210-11-21 17:30 G	40148548.01	40148548.23	40148548.47	0.0135	0.0051
Moon	105210-11-21 19:54 G	40148548.10	40148548.33	40148548.57	0.0135	0.0045 *
Venus	105211-02-24 13:40 G	40148642.96	40148643.07	40148643.20	0.0135	0.0110
Venus	105211-10-08 18:28 G	40148869.12	40148869.27	40148869.42	0.0135	0.0095
Venus	105212-05-21 22:33 G	40149095.28	40149095.44	40149095.62	0.0135	0.0081
Venus	105213-01-03 03:06 G	40149321.45	40149321.63	40149321.82	0.0135	0.0066

Venus	105213-08-17 07:25 G	40149547.62	40149547.81	40149548.02	0.0135	0.0051
Venus	105214-03-31 11:59 G	40149773.80	40149774.00	40149774.21	0.0135	0.0035
Venus	105214-11-12 16:33 G	40149999.98	40150000.19	40150000.40	0.0135	0.0020
Venus	105215-06-26 20:52 G	40150226.16	40150226.37	40150226.59	0.0135	0.0005
Venus	105216-02-08 01:25 G	40150452.34	40150452.56	40150452.77	0.0135	0.0011
Venus	105216-09-21 05:59 G	40150678.54	40150678.75	40150678.96	0.0135	0.0026
Venus	105217-05-05 10:18 G	40150904.73	40150904.93	40150905.14	0.0135	0.0041
Venus	105217-12-17 14:52 G	40151130.93	40151131.12	40151131.31	0.0135	0.0056
Venus	105218-07-31 19:11 G	40151357.12	40151357.30	40151357.49	0.0135	0.0071
Venus	105219-03-14 23:45 G	40151583.33	40151583.49	40151583.66	0.0135	0.0086
Venus	105219-10-27 04:18 G	40151809.55	40151809.68	40151809.83	0.0135	0.0101
Venus	105220-06-09 08:37 G	40152035.77	40152035.86	40152035.99	0.0135	0.0116
Venus	105221-01-21 13:25 G	40152262.02	40152262.06	40152262.13	0.0135	0.0130
Mars	105225-10-02 02:52 G	40153976.39	40153976.62	40153976.88	0.0136	0.0066
Mercury	105241-07-08 17:30 G	40159735.20	40159735.23	40159735.27	0.0141	0.0134
Mercury	105241-10-04 21:06 G	40159823.30	40159823.38	40159823.46	0.0141	0.0114
Mercury	105242-01-01 00:28 G	40159911.43	40159911.52	40159911.62	0.0141	0.0094
Mercury	105242-03-30 04:04 G	40159999.56	40159999.67	40159999.78	0.0141	0.0073
Mercury	105242-06-26 07:25 G	40160087.69	40160087.81	40160087.93	0.0141	0.0053
Mercury	105242-09-22 10:47 G	40160175.83	40160175.95	40160176.08	0.0141	0.0033
Mercury	105242-12-19 14:23 G	40160263.97	40160264.10	40160264.23	0.0141	0.0012
Mercury	105243-03-17 17:45 G	40160352.11	40160352.24	40160352.37	0.0141	0.0008
Mercury	105243-06-13 21:06 G	40160440.26	40160440.38	40160440.51	0.0141	0.0029
Mercury	105243-09-10 00:28 G	40160528.40	40160528.52	40160528.65	0.0141	0.0050
Mercury	105243-12-07 04:04 G	40160616.56	40160616.67	40160616.78	0.0141	0.0070
Mercury	105244-03-04 07:25 G	40160704.71	40160704.81	40160704.91	0.0141	0.0090
Mercury	105244-05-31 10:47 G	40160792.88	40160792.95	40160793.04	0.0142	0.0111
Mercury	105244-08-27 14:09 G	40160881.05	40160881.09	40160881.15	0.0142	0.0131
Earth	105252-05-16 10:47 G	40163699.72	40163699.95	40163700.20	0.0143	0.0052
Moon	105252-05-16 14:23 G	40163699.88	40163700.10	40163700.34	0.0143	0.0060 *

Venus	105253-04-14 18:13 G	40164033.19	40164033.26	40164033.38	0.0143	0.0131
Moon	105253-05-21 08:52 G	40164069.65	40164069.87	40164070.11	0.0143	0.0065
Earth	105253-05-21 11:59 G	40164069.78	40164070.00	40164070.24	0.0143	0.0060 *
Venus	105253-11-27 07:40 G	40164259.69	40164259.82	40164259.97	0.0143	0.0112
Venus	105254-07-11 21:06 G	40164486.21	40164486.38	40164486.55	0.0143	0.0093
Venus	105255-02-23 10:33 G	40164712.75	40164712.94	40164713.13	0.0144	0.0074
Venus	105255-10-07 23:45 G	40164939.29	40164939.49	40164939.70	0.0144	0.0055
Venus	105256-05-21 12:57 G	40165165.83	40165166.04	40165166.27	0.0144	0.0036
Venus	105257-01-03 02:23 G	40165392.38	40165392.60	40165392.83	0.0144	0.0016
Venus	105257-08-17 15:49 G	40165618.94	40165619.16	40165619.38	0.0144	0.0004
Venus	105258-04-01 05:16 G	40165845.50	40165845.72	40165845.94	0.0144	0.0023
Venus	105258-11-13 18:28 G	40166072.07	40166072.27	40166072.49	0.0143	0.0042
Venus	105259-06-28 07:40 G	40166298.63	40166298.82	40166299.03	0.0143	0.0062
Venus	105260-02-09 20:52 G	40166525.20	40166525.37	40166525.56	0.0143	0.0080
Venus	105260-09-23 09:49 G	40166751.77	40166751.91	40166752.09	0.0143	0.0100
Venus	105261-05-07 23:16 G	40166978.35	40166978.47	40166978.60	0.0143	0.0118
Venus	105261-12-20 12:13 G	40167204.95	40167205.01	40167205.08	0.0143	0.0136
Mars	105266-03-27 16:18 G	40168762.85	40168763.18	40168763.52	0.0142	0.0025
Mercury	105282-07-28 22:04 G	40174730.32	40174730.42	40174730.53	0.0137	0.0112
Mercury	105282-10-25 05:30 G	40174818.59	40174818.73	40174818.89	0.0137	0.0085
Mercury	105283-01-21 13:25 G	40174906.88	40174907.06	40174907.23	0.0137	0.0058
Mercury	105283-04-19 21:06 G	40174995.19	40174995.38	40174995.57	0.0137	0.0030
Mercury	105283-07-17 04:47 G	40175083.50	40175083.70	40175083.89	0.0137	0.0004
Mercury	105283-10-13 12:13 G	40175171.82	40175172.01	40175172.21	0.0137	0.0025
Mercury	105284-01-09 19:40 G	40175260.15	40175260.32	40175260.51	0.0137	0.0053
Mercury	105284-04-07 03:35 G	40175348.50	40175348.65	40175348.81	0.0137	0.0080
Mercury	105284-07-04 11:01 G	40175436.85	40175436.96	40175437.09	0.0137	0.0108
Mercury	105284-09-30 18:42 G	40175525.27	40175525.28	40175525.32	0.0137	0.0135
Earth	105292-11-13 16:04 G	40178491.10	40178491.17	40178491.29	0.0135	0.0124
Moon	105292-11-13 17:01 G	40178491.15	40178491.21	40178491.28	0.0135	0.0130 *

Moon	105293-11-17 23:30 G	40178860.25	40178860.48	40178860.73	0.0135	0.0026
Earth	105293-11-17 23:45 G	40178860.25	40178860.49	40178860.74	0.0135	0.0033 *
Venus	105294-03-12 21:35 G	40178975.34	40178975.40	40178975.46	0.0135	0.0128
Venus	105294-10-25 01:54 G	40179201.48	40179201.58	40179201.70	0.0135	0.0114
Earth	105294-11-22 06:28 G	40179229.56	40179229.77	40179230.01	0.0135	0.0059
Moon	105294-11-22 07:11 G	40179229.58	40179229.80	40179230.06	0.0135	0.0053 *
Venus	105295-06-08 06:42 G	40179427.64	40179427.78	40179427.92	0.0135	0.0099
Venus	105296-01-20 10:47 G	40179653.80	40179653.95	40179654.13	0.0135	0.0085
Venus	105296-09-02 15:35 G	40179879.98	40179880.15	40179880.34	0.0135	0.0070
Venus	105297-04-16 19:54 G	40180106.15	40180106.33	40180106.54	0.0135	0.0055
Venus	105297-11-29 00:28 G	40180332.32	40180332.52	40180332.73	0.0135	0.0040
Venus	105298-07-13 04:47 G	40180558.50	40180558.70	40180558.92	0.0135	0.0025
Venus	105299-02-24 09:21 G	40180784.68	40180784.89	40180785.11	0.0135	0.0010
Venus	105299-10-08 13:54 G	40181010.87	40181011.08	40181011.30	0.0135	0.0007
Venus	105300-05-22 18:28 G	40181237.06	40181237.27	40181237.48	0.0135	0.0021
Venus	105301-01-03 22:47 G	40181463.25	40181463.45	40181463.66	0.0135	0.0036
Venus	105301-08-18 03:06 G	40181689.44	40181689.63	40181689.84	0.0135	0.0052
Venus	105302-04-01 07:25 G	40181915.64	40181915.81	40181916.01	0.0135	0.0067
Venus	105302-11-13 11:59 G	40182141.85	40182142.00	40182142.18	0.0135	0.0082
Venus	105303-06-27 16:47 G	40182368.06	40182368.20	40182368.35	0.0135	0.0096
Venus	105304-02-08 21:06 G	40182594.27	40182594.38	40182594.51	0.0135	0.0111
Venus	105304-09-22 01:54 G	40182820.51	40182820.58	40182820.67	0.0135	0.0125
Mars	105308-06-28 11:30 G	40184195.84	40184195.98	40184196.16	0.0136	0.0110
Mercury	105325-07-30 01:25 G	40190436.51	40190436.56	40190436.62	0.0141	0.0127
Mercury	105325-10-26 04:47 G	40190524.62	40190524.70	40190524.79	0.0141	0.0106
Mercury	105326-01-22 08:23 G	40190612.74	40190612.85	40190612.95	0.0141	0.0086
Mercury	105326-04-20 11:45 G	40190700.88	40190700.99	40190701.11	0.0141	0.0066
Mercury	105326-07-17 15:06 G	40190789.01	40190789.13	40190789.26	0.0141	0.0046
Mercury	105326-10-13 18:42 G	40190877.15	40190877.28	40190877.41	0.0141	0.0025
Mercury	105327-01-09 22:04 G	40190965.29	40190965.42	40190965.55	0.0141	0.0005

Mercury	105327-04-08 01:25 G	40191053.43	40191053.56	40191053.70	0.0141	0.0017
Mercury	105327-07-05 05:01 G	40191141.58	40191141.71	40191141.84	0.0141	0.0036
Mercury	105327-10-01 08:23 G	40191229.73	40191229.85	40191229.97	0.0141	0.0057
Mercury	105327-12-28 11:45 G	40191317.88	40191317.99	40191318.10	0.0141	0.0077
Mercury	105328-03-25 15:06 G	40191406.04	40191406.13	40191406.23	0.0141	0.0098
Mercury	105328-06-21 18:42 G	40191494.21	40191494.28	40191494.35	0.0141	0.0118
Mercury	105328-09-17 21:49 G	40191582.40	40191582.41	40191582.45	0.0142	0.0139
Moon	105336-05-17 22:04 G	40194381.17	40194381.42	40194381.68	0.0143	0.0047
Earth	105336-05-17 23:45 G	40194381.25	40194381.49	40194381.74	0.0143	0.0044 *
Venus	105336-12-14 01:40 G	40194591.51	40194591.57	40194591.65	0.0143	0.0135
Earth	105337-05-23 00:57 G	40194751.32	40194751.54	40194751.77	0.0143	0.0069
Moon	105337-05-23 01:25 G	40194751.35	40194751.56	40194751.79	0.0143	0.0066 *
Venus	105337-07-28 14:37 G	40194818.00	40194818.11	40194818.26	0.0143	0.0118
Venus	105338-03-12 04:18 G	40195044.52	40195044.68	40195044.85	0.0143	0.0099
Venus	105338-10-24 17:30 G	40195271.05	40195271.23	40195271.42	0.0143	0.0080
Venus	105339-06-08 06:57 G	40195497.59	40195497.79	40195497.99	0.0143	0.0061
Venus	105340-01-20 20:09 G	40195724.13	40195724.34	40195724.56	0.0143	0.0042
Venus	105340-09-03 09:35 G	40195950.68	40195950.90	40195951.12	0.0143	0.0022
Venus	105341-04-17 23:01 G	40196177.24	40196177.46	40196177.68	0.0143	0.0003
Venus	105341-11-30 12:13 G	40196403.79	40196404.01	40196404.24	0.0143	0.0017
Venus	105342-07-15 01:25 G	40196630.35	40196630.56	40196630.78	0.0143	0.0036
Venus	105343-02-26 14:52 G	40196856.91	40196857.12	40196857.33	0.0143	0.0055
Venus	105343-10-11 04:04 G	40197083.48	40197083.67	40197083.86	0.0143	0.0074
Venus	105344-05-24 17:01 G	40197310.05	40197310.21	40197310.39	0.0143	0.0093
Venus	105345-01-06 05:45 G	40197536.62	40197536.74	40197536.90	0.0143	0.0112
Venus	105345-08-20 18:42 G	40197763.21	40197763.28	40197763.39	0.0143	0.0130
Mercury	105366-05-22 22:18 G	40205343.38	40205343.43	40205343.49	0.0137	0.0131
Mercury	105366-08-19 05:45 G	40205431.63	40205431.74	40205431.88	0.0137	0.0104
Mercury	105366-11-15 13:25 G	40205519.91	40205520.06	40205520.23	0.0137	0.0076
Mercury	105367-02-11 21:06 G	40205608.20	40205608.38	40205608.56	0.0137	0.0049

Mercury	105367-05-11 04:47 G	40205696.51	40205696.70	40205696.89	0.0137	0.0021
Mercury	105367-08-07 12:28 G	40205784.83	40205785.02	40205785.21	0.0137	0.0007
Mercury	105367-11-03 20:09 G	40205873.15	40205873.34	40205873.53	0.0137	0.0034
Mercury	105368-01-31 03:35 G	40205961.49	40205961.65	40205961.83	0.0137	0.0062
Mercury	105368-04-28 11:16 G	40206049.83	40206049.97	40206050.13	0.0137	0.0089
Mercury	105368-07-25 18:57 G	40206138.20	40206138.29	40206138.40	0.0137	0.0117
Moon	105376-11-15 01:40 G	40209172.50	40209172.57	40209172.69	0.0135	0.0125
Earth	105376-11-15 04:47 G	40209172.59	40209172.70	40209172.84	0.0135	0.0117 *
Venus	105377-11-11 09:21 G	40209533.86	40209533.89	40209533.94	0.0135	0.0132
Earth	105377-11-19 12:13 G	40209541.77	40209542.01	40209542.27	0.0135	0.0026
Moon	105377-11-19 15:06 G	40209541.89	40209542.13	40209542.39	0.0135	0.0022 *
Venus	105378-06-25 13:40 G	40209759.99	40209760.07	40209760.20	0.0135	0.0118
Moon	105378-11-23 16:18 G	40209910.97	40209911.18	40209911.40	0.0135	0.0065
Earth	105378-11-23 19:25 G	40209911.10	40209911.31	40209911.54	0.0135	0.0066 *
Venus	105379-02-06 18:28 G	40209986.15	40209986.27	40209986.42	0.0135	0.0103
Venus	105379-09-20 23:30 G	40210212.32	40210212.48	40210212.64	0.0135	0.0088
Venus	105380-05-04 03:49 G	40210438.49	40210438.66	40210438.85	0.0135	0.0074
Venus	105380-12-16 08:23 G	40210664.66	40210664.85	40210665.05	0.0135	0.0059
Venus	105381-07-30 12:42 G	40210890.84	40210891.03	40210891.24	0.0135	0.0044
Venus	105382-03-13 17:16 G	40211117.02	40211117.22	40211117.44	0.0135	0.0029
Venus	105382-10-25 21:49 G	40211343.20	40211343.41	40211343.63	0.0135	0.0014
Venus	105383-06-09 02:23 G	40211569.39	40211569.60	40211569.81	0.0135	0.0002
Venus	105384-01-21 06:42 G	40211795.57	40211795.78	40211796.00	0.0135	0.0017
Venus	105384-09-03 11:16 G	40212021.76	40212021.97	40212022.18	0.0135	0.0032
Venus	105385-04-17 15:35 G	40212247.96	40212248.15	40212248.35	0.0135	0.0047
Venus	105385-11-29 20:09 G	40212474.15	40212474.34	40212474.53	0.0135	0.0062
Venus	105386-07-14 00:28 G	40212700.35	40212700.52	40212700.70	0.0135	0.0077
Venus	105387-02-25 04:47 G	40212926.56	40212926.70	40212926.87	0.0135	0.0092
Venus	105387-10-09 09:35 G	40213152.78	40213152.90	40213153.04	0.0135	0.0106
Venus	105388-05-22 13:54 G	40213379.01	40213379.08	40213379.19	0.0135	0.0121

Venus	105389-01-03 18:57 G	40213605.29	40213605.29	40213605.29	0.0135	0.0135
Mars	105393-02-20 18:42 G	40215114.00	40215114.28	40215114.56	0.0136	0.0008
Jupiter	105408-09-17 02:23 G	40220800.18	40220800.60	40220801.09	0.0140	0.0064
Mercury	105409-05-24 05:45 G	40221049.73	40221049.74	40221049.74	0.0140	0.0140
Mercury	105409-08-20 09:06 G	40221137.81	40221137.88	40221137.95	0.0141	0.0120
Mercury	105409-11-16 12:28 G	40221225.93	40221226.02	40221226.12	0.0141	0.0100
Mercury	105410-02-12 16:04 G	40221314.06	40221314.17	40221314.28	0.0141	0.0079
Mercury	105410-05-11 19:25 G	40221402.19	40221402.31	40221402.43	0.0141	0.0059
Mercury	105410-08-07 22:47 G	40221490.33	40221490.45	40221490.58	0.0141	0.0039
Mercury	105410-11-04 02:23 G	40221578.47	40221578.60	40221578.73	0.0141	0.0018
Mercury	105411-01-31 05:45 G	40221666.61	40221666.74	40221666.87	0.0141	0.0003
Mercury	105411-04-29 09:06 G	40221754.75	40221754.88	40221755.01	0.0141	0.0023
Mercury	105411-07-26 12:28 G	40221842.90	40221843.02	40221843.15	0.0141	0.0043
Mercury	105411-10-22 16:04 G	40221931.05	40221931.17	40221931.29	0.0141	0.0063
Mercury	105412-01-18 19:25 G	40222019.21	40222019.31	40222019.42	0.0141	0.0084
Mercury	105412-04-15 22:47 G	40222107.37	40222107.45	40222107.54	0.0141	0.0104
Mercury	105412-07-13 02:09 G	40222195.54	40222195.59	40222195.66	0.0141	0.0124
Moon	105420-05-19 10:18 G	40225062.70	40225062.93	40225063.18	0.0143	0.0033
Earth	105420-05-19 11:59 G	40225062.76	40225063.00	40225063.25	0.0143	0.0037 *
Venus	105420-08-14 08:37 G	40225149.83	40225149.86	40225149.91	0.0143	0.0140
Venus	105421-03-28 21:49 G	40225376.31	40225376.41	40225376.53	0.0143	0.0122
Earth	105421-05-24 13:11 G	40225432.84	40225433.05	40225433.27	0.0143	0.0076
Moon	105421-05-24 15:35 G	40225432.91	40225433.15	40225433.38	0.0143	0.0068 *
Venus	105421-11-10 10:47 G	40225602.82	40225602.95	40225603.12	0.0143	0.0105
Venus	105422-06-25 00:13 G	40225829.34	40225829.51	40225829.70	0.0143	0.0086
Venus	105423-02-06 13:40 G	40226055.87	40226056.07	40226056.27	0.0143	0.0067
Venus	105423-09-21 02:52 G	40226282.42	40226282.62	40226282.84	0.0143	0.0048
Venus	105424-05-04 16:18 G	40226508.97	40226509.18	40226509.40	0.0143	0.0029
Venus	105424-12-17 05:45 G	40226735.52	40226735.74	40226735.96	0.0144	0.0009
Venus	105425-07-31 18:57 G	40226962.07	40226962.29	40226962.52	0.0144	0.0011

Venus	105426-03-15 08:23 G	40227188.64	40227188.85	40227189.07	0.0144	0.0030
Venus	105426-10-27 21:35 G	40227415.20	40227415.40	40227415.62	0.0143	0.0049
Venus	105427-06-11 10:47 G	40227641.76	40227641.95	40227642.15	0.0143	0.0068
Venus	105428-01-23 23:45 G	40227868.32	40227868.49	40227868.68	0.0143	0.0087
Venus	105428-09-06 12:57 G	40228094.90	40228095.04	40228095.20	0.0143	0.0105
Venus	105429-04-21 01:40 G	40228321.48	40228321.57	40228321.71	0.0143	0.0124
Venus	105429-12-03 15:06 G	40228548.09	40228548.13	40228548.17	0.0143	0.0141
Mars	105433-08-13 21:49 G	40229897.12	40229897.41	40229897.72	0.0143	0.0071
Mercury	105450-06-13 06:13 G	40236044.68	40236044.76	40236044.86	0.0137	0.0121
Mercury	105450-09-09 13:54 G	40236132.95	40236133.08	40236133.23	0.0137	0.0093
Mercury	105450-12-06 21:49 G	40236221.24	40236221.41	40236221.58	0.0137	0.0066
Mercury	105451-03-05 05:16 G	40236309.54	40236309.72	40236309.91	0.0137	0.0038
Mercury	105451-06-01 12:57 G	40236397.85	40236398.04	40236398.24	0.0137	0.0011
Mercury	105451-08-28 20:37 G	40236486.17	40236486.36	40236486.55	0.0137	0.0017
Mercury	105451-11-25 04:18 G	40236574.50	40236574.68	40236574.86	0.0137	0.0044
Mercury	105452-02-21 11:45 G	40236662.83	40236662.99	40236663.16	0.0137	0.0072
Mercury	105452-05-19 19:11 G	40236751.19	40236751.30	40236751.45	0.0137	0.0100
Mercury	105452-08-16 03:06 G	40236839.57	40236839.63	40236839.71	0.0137	0.0127
Earth	105460-11-16 17:45 G	40239854.12	40239854.24	40239854.41	0.0135	0.0110
Moon	105460-11-16 21:35 G	40239854.28	40239854.40	40239854.56	0.0135	0.0111 *
Moon	105461-11-20 22:18 G	40240223.19	40240223.43	40240223.69	0.0135	0.0021
Earth	105461-11-21 01:54 G	40240223.33	40240223.58	40240223.83	0.0135	0.0018 *
Venus	105462-02-24 02:23 G	40240318.52	40240318.60	40240318.70	0.0135	0.0121
Venus	105462-10-08 06:57 G	40240544.68	40240544.79	40240544.93	0.0135	0.0107
Earth	105462-11-25 08:37 G	40240592.66	40240592.86	40240593.08	0.0135	0.0073
Moon	105462-11-25 12:13 G	40240592.82	40240593.01	40240593.22	0.0135	0.0079 *
Venus	105463-05-22 11:45 G	40240770.84	40240770.99	40240771.15	0.0135	0.0092
Venus	105464-01-03 16:18 G	40240997.01	40240997.18	40240997.36	0.0135	0.0077
Venus	105464-08-16 21:06 G	40241223.19	40241223.38	40241223.57	0.0135	0.0062
Venus	105465-03-31 01:25 G	40241449.37	40241449.56	40241449.77	0.0135	0.0047

Venus	105465-11-12 05:45 G	40241675.55	40241675.74	40241675.96	0.0135	0.0033
Venus	105466-06-26 10:18 G	40241901.73	40241901.93	40241902.15	0.0135	0.0018
Venus	105467-02-07 14:52 G	40242127.91	40242128.12	40242128.33	0.0135	0.0002
Venus	105467-09-21 19:25 G	40242354.10	40242354.31	40242354.52	0.0135	0.0013
Venus	105468-05-04 23:45 G	40242580.29	40242580.49	40242580.70	0.0135	0.0028
Venus	105468-12-17 04:04 G	40242806.47	40242806.67	40242806.88	0.0135	0.0043
Venus	105469-07-31 08:23 G	40243032.66	40243032.85	40243033.05	0.0135	0.0058
Venus	105470-03-14 12:42 G	40243258.86	40243259.03	40243259.22	0.0135	0.0073
Venus	105470-10-26 17:16 G	40243485.07	40243485.22	40243485.39	0.0135	0.0088
Venus	105471-06-09 21:49 G	40243711.28	40243711.41	40243711.56	0.0135	0.0102
Venus	105472-01-22 02:09 G	40243937.51	40243937.59	40243937.72	0.0135	0.0117
Venus	105472-09-04 06:57 G	40244163.75	40244163.79	40244163.85	0.0135	0.0131
Mars	105477-10-17 04:04 G	40246032.57	40246032.67	40246032.78	0.0136	0.0126
Mercury	105493-06-13 13:25 G	40251751.02	40251751.06	40251751.11	0.0141	0.0132
Mercury	105493-09-09 16:47 G	40251839.13	40251839.20	40251839.29	0.0141	0.0112
Mercury	105493-12-06 20:23 G	40251927.26	40251927.35	40251927.46	0.0141	0.0091
Mercury	105494-03-04 23:59 G	40252015.39	40252015.50	40252015.61	0.0141	0.0071
Mercury	105494-06-01 03:21 G	40252103.52	40252103.64	40252103.77	0.0141	0.0051
Mercury	105494-08-28 06:42 G	40252191.66	40252191.78	40252191.91	0.0141	0.0031
Mercury	105494-11-24 10:18 G	40252279.80	40252279.93	40252280.06	0.0141	0.0010
Mercury	105495-02-20 13:40 G	40252367.94	40252368.07	40252368.20	0.0141	0.0010
Mercury	105495-05-19 17:01 G	40252456.08	40252456.21	40252456.34	0.0141	0.0031
Mercury	105495-08-15 20:23 G	40252544.23	40252544.35	40252544.48	0.0141	0.0051
Mercury	105495-11-11 23:59 G	40252632.38	40252632.50	40252632.61	0.0141	0.0071
Mercury	105496-02-08 03:21 G	40252720.54	40252720.64	40252720.74	0.0141	0.0092
Mercury	105496-05-06 06:28 G	40252808.70	40252808.77	40252808.86	0.0141	0.0113
Mercury	105496-08-02 10:04 G	40252896.88	40252896.92	40252896.97	0.0142	0.0132
Earth	105503-05-17 01:25 G	40255374.53	40255374.56	40255374.63	0.0143	0.0140
Earth	105504-05-21 02:37 G	40255744.36	40255744.61	40255744.86	0.0143	0.0028
Moon	105504-05-21 06:13 G	40255744.51	40255744.76	40255745.02	0.0143	0.0020 *

Venus	105504-11-27 05:59 G	40255934.66	40255934.75	40255934.87	0.0143	0.0127
Moon	105505-05-25 23:59 G	40256114.30	40256114.50	40256114.73	0.0143	0.0078
Earth	105505-05-26 03:49 G	40256114.47	40256114.66	40256114.88	0.0143	0.0085 *
Venus	105505-07-11 19:25 G	40256161.17	40256161.31	40256161.46	0.0143	0.0109
Venus	105506-02-23 08:23 G	40256387.69	40256387.85	40256388.04	0.0143	0.0091
Venus	105506-10-07 21:49 G	40256614.23	40256614.41	40256614.61	0.0143	0.0072
Venus	105507-05-22 11:16 G	40256840.77	40256840.97	40256841.18	0.0143	0.0053
Venus	105508-01-04 00:28 G	40257067.31	40257067.52	40257067.75	0.0143	0.0034
Venus	105508-08-17 13:54 G	40257293.86	40257294.08	40257294.31	0.0144	0.0015
Venus	105509-04-01 03:35 G	40257520.42	40257520.65	40257520.87	0.0144	0.0005
Venus	105509-11-13 16:47 G	40257746.98	40257747.20	40257747.42	0.0144	0.0024
Venus	105510-06-28 05:45 G	40257973.54	40257973.74	40257973.96	0.0144	0.0044
Venus	105511-02-09 18:57 G	40258200.10	40258200.29	40258200.50	0.0144	0.0063
Venus	105511-09-24 08:23 G	40258426.67	40258426.85	40258427.04	0.0143	0.0081
Venus	105512-05-07 21:21 G	40258653.24	40258653.39	40258653.56	0.0143	0.0100
Venus	105512-12-20 10:33 G	40258879.82	40258879.94	40258880.07	0.0143	0.0118
Venus	105513-08-03 23:30 G	40259106.42	40259106.48	40259106.55	0.0143	0.0136
Mars	105518-04-11 23:01 G	40260818.25	40260818.46	40260818.71	0.0142	0.0104
Mercury	105534-04-07 07:25 G	40266657.79	40266657.81	40266657.84	0.0137	0.0136
Mercury	105534-07-04 15:06 G	40266746.02	40266746.13	40266746.25	0.0137	0.0108
Mercury	105534-09-30 22:33 G	40266834.29	40266834.44	40266834.60	0.0137	0.0081
Mercury	105534-12-28 06:13 G	40266922.59	40266922.76	40266922.94	0.0137	0.0054
Mercury	105535-03-26 13:54 G	40267010.89	40267011.08	40267011.27	0.0137	0.0026
Mercury	105535-06-22 21:35 G	40267099.21	40267099.40	40267099.59	0.0137	0.0001
Mercury	105535-09-19 05:01 G	40267187.53	40267187.71	40267187.91	0.0137	0.0029
Mercury	105535-12-16 12:42 G	40267275.86	40267276.03	40267276.21	0.0137	0.0056
Mercury	105536-03-13 20:09 G	40267364.20	40267364.34	40267364.51	0.0137	0.0084
Mercury	105536-06-10 04:04 G	40267452.56	40267452.67	40267452.79	0.0137	0.0111
Moon	105544-11-18 06:13 G	40270535.60	40270535.76	40270535.96	0.0135	0.0097
Earth	105544-11-18 07:54 G	40270535.69	40270535.83	40270536.02	0.0135	0.0102 *

Venus	105545-10-25 15:06 G	40270877.06	40270877.13	40270877.22	0.0135	0.0124
Earth	105545-11-22 15:49 G	40270904.91	40270905.16	40270905.41	0.0135	0.0010
Moon	105545-11-22 17:01 G	40270904.97	40270905.21	40270905.45	0.0135	0.0017 *
Venus	105546-06-08 19:40 G	40271103.21	40271103.32	40271103.46	0.0135	0.0110
Moon	105546-11-26 20:52 G	40271274.20	40271274.37	40271274.59	0.0135	0.0089
Earth	105546-11-26 23:01 G	40271274.26	40271274.46	40271274.66	0.0135	0.0081 *
Venus	105547-01-21 00:28 G	40271329.38	40271329.52	40271329.68	0.0135	0.0095
Venus	105547-09-04 05:01 G	40271555.56	40271555.71	40271555.90	0.0135	0.0081
Venus	105548-04-17 09:49 G	40271781.73	40271781.91	40271782.10	0.0135	0.0066
Venus	105548-11-29 14:09 G	40272007.90	40272008.09	40272008.30	0.0135	0.0051
Venus	105549-07-13 18:42 G	40272234.08	40272234.28	40272234.49	0.0135	0.0036
Venus	105550-02-24 23:16 G	40272460.26	40272460.47	40272460.68	0.0135	0.0021
Venus	105550-10-09 03:35 G	40272686.44	40272686.65	40272686.87	0.0135	0.0007
Venus	105551-05-23 08:09 G	40272912.63	40272912.84	40272913.05	0.0135	0.0009
Venus	105552-01-04 12:13 G	40273138.81	40273139.01	40273139.23	0.0135	0.0025
Venus	105552-08-17 16:33 G	40273365.00	40273365.19	40273365.40	0.0135	0.0040
Venus	105553-03-31 21:06 G	40273591.19	40273591.38	40273591.58	0.0135	0.0054
Venus	105553-11-13 01:25 G	40273817.39	40273817.56	40273817.75	0.0135	0.0069
Venus	105554-06-27 05:45 G	40274043.59	40274043.74	40274043.92	0.0135	0.0084
Venus	105555-02-08 10:18 G	40274269.79	40274269.93	40274270.08	0.0135	0.0098
Venus	105555-09-22 14:37 G	40274496.01	40274496.11	40274496.24	0.0135	0.0113
Venus	105556-05-05 19:25 G	40274722.25	40274722.31	40274722.39	0.0135	0.0127
Mars	105560-07-13 12:28 G	40276251.77	40276252.02	40276252.28	0.0135	0.0052
Mercury	105577-07-04 20:52 G	40282452.32	40282452.37	40282452.44	0.0141	0.0126
Mercury	105577-10-01 00:28 G	40282540.44	40282540.52	40282540.61	0.0141	0.0105
Mercury	105577-12-28 04:04 G	40282628.56	40282628.67	40282628.77	0.0141	0.0085
Mercury	105578-03-26 07:25 G	40282716.69	40282716.81	40282716.93	0.0141	0.0065
Mercury	105578-06-22 10:47 G	40282804.83	40282804.95	40282805.08	0.0141	0.0045
Mercury	105578-09-18 14:23 G	40282892.97	40282893.10	40282893.23	0.0141	0.0024
Mercury	105578-12-15 17:45 G	40282981.11	40282981.24	40282981.37	0.0141	0.0004

Mercury	105579-03-13 21:06 G	40283069.25	40283069.38	40283069.51	0.0141	0.0017
Mercury	105579-06-10 00:28 G	40283157.40	40283157.52	40283157.65	0.0141	0.0037
Mercury	105579-09-06 04:04 G	40283245.55	40283245.67	40283245.79	0.0141	0.0057
Mercury	105579-12-03 07:25 G	40283333.70	40283333.81	40283333.92	0.0141	0.0077
Mercury	105580-02-29 10:47 G	40283421.86	40283421.95	40283422.05	0.0141	0.0098
Mercury	105580-05-27 13:54 G	40283510.02	40283510.08	40283510.16	0.0142	0.0119
Mercury	105580-08-23 17:30 G	40283598.21	40283598.23	40283598.26	0.0142	0.0138
Earth	105587-05-17 12:42 G	40286055.96	40286056.03	40286056.14	0.0143	0.0134
Moon	105587-05-17 16:18 G	40286056.16	40286056.18	40286056.23	0.0143	0.0142
Moon	105588-05-21 11:01 G	40286425.70	40286425.96	40286426.22	0.0143	0.0016
Earth	105588-05-21 14:23 G	40286425.85	40286426.10	40286426.36	0.0143	0.0021 *
Venus	105588-07-27 12:28 G	40286492.95	40286493.02	40286493.11	0.0143	0.0132
Venus	105589-03-11 01:40 G	40286719.45	40286719.57	40286719.72	0.0143	0.0114
Earth	105589-05-26 15:35 G	40286795.95	40286796.15	40286796.35	0.0143	0.0092
Moon	105589-05-26 18:42 G	40286796.09	40286796.28	40286796.48	0.0143	0.0090 *
Venus	105589-10-23 14:52 G	40286945.97	40286946.12	40286946.30	0.0143	0.0096
Venus	105590-06-07 04:04 G	40287172.50	40287172.67	40287172.87	0.0143	0.0078
Venus	105591-01-19 17:30 G	40287399.03	40287399.23	40287399.44	0.0143	0.0059
Venus	105591-09-03 06:57 G	40287625.58	40287625.79	40287626.01	0.0144	0.0039
Venus	105592-04-16 20:23 G	40287852.13	40287852.35	40287852.57	0.0144	0.0020
Venus	105592-11-29 09:49 G	40288078.68	40288078.91	40288079.13	0.0144	0.0002
Venus	105593-07-13 23:01 G	40288305.24	40288305.46	40288305.68	0.0144	0.0018
Venus	105594-02-25 12:13 G	40288531.80	40288532.01	40288532.23	0.0144	0.0037
Venus	105594-10-10 01:25 G	40288758.36	40288758.56	40288758.77	0.0144	0.0056
Venus	105595-05-24 14:52 G	40288984.93	40288985.12	40288985.31	0.0144	0.0075
Venus	105596-01-06 03:49 G	40289211.50	40289211.66	40289211.84	0.0143	0.0094
Venus	105596-08-19 16:47 G	40289438.08	40289438.20	40289438.35	0.0143	0.0112
Venus	105597-04-03 05:59 G	40289664.68	40289664.75	40289664.86	0.0143	0.0130
Jupiter	105616-07-10 11:45 G	40296702.60	40296702.99	40296703.46	0.0138	0.0079
Mercury	105618-04-27 15:49 G	40297359.10	40297359.16	40297359.26	0.0137	0.0125

Mercury	105618-07-24 23:45 G	40297447.36	40297447.49	40297447.63	0.0137	0.0097
Mercury	105618-10-21 07:11 G	40297535.64	40297535.80	40297535.98	0.0137	0.0070
Mercury	105619-01-17 14:52 G	40297623.94	40297624.12	40297624.31	0.0137	0.0042
Mercury	105619-04-15 22:33 G	40297712.25	40297712.44	40297712.64	0.0137	0.0015
Mercury	105619-07-13 06:13 G	40297800.57	40297800.76	40297800.95	0.0137	0.0013
Mercury	105619-10-09 13:54 G	40297888.89	40297889.08	40297889.26	0.0137	0.0040
Mercury	105620-01-05 21:21 G	40297977.23	40297977.39	40297977.57	0.0137	0.0068
Mercury	105620-04-03 05:01 G	40298065.58	40298065.71	40298065.85	0.0137	0.0095
Mercury	105620-06-30 12:28 G	40298153.95	40298154.02	40298154.12	0.0137	0.0123
Moon	105628-11-18 22:47 G	40301217.28	40301217.45	40301217.65	0.0135	0.0087
Earth	105628-11-18 22:47 G	40301217.28	40301217.45	40301217.64	0.0135	0.0093 *
Venus	105629-06-25 04:18 G	40301435.62	40301435.68	40301435.75	0.0135	0.0127
Earth	105629-11-23 06:28 G	40301586.52	40301586.77	40301587.03	0.0135	0.0002
Moon	105629-11-23 06:57 G	40301586.53	40301586.79	40301587.05	0.0135	0.0008 *
Venus	105630-02-06 08:52 G	40301661.77	40301661.87	40301662.00	0.0135	0.0113
Venus	105630-09-20 13:40 G	40301887.94	40301888.07	40301888.23	0.0135	0.0099
Earth	105630-11-27 13:25 G	40301955.88	40301956.06	40301956.25	0.0135	0.0090
Moon	105630-11-27 13:40 G	40301955.91	40301956.07	40301956.24	0.0135	0.0096 *
Venus	105631-05-04 18:28 G	40302114.11	40302114.27	40302114.44	0.0135	0.0084
Venus	105631-12-16 23:01 G	40302340.28	40302340.46	40302340.64	0.0135	0.0069
Venus	105632-07-30 03:21 G	40302566.45	40302566.64	40302566.84	0.0135	0.0054
Venus	105633-03-13 07:40 G	40302792.63	40302792.82	40302793.03	0.0135	0.0040
Venus	105633-10-25 12:13 G	40303018.81	40303019.01	40303019.23	0.0135	0.0025
Venus	105634-06-08 16:47 G	40303244.98	40303245.20	40303245.41	0.0135	0.0010
Venus	105635-01-20 21:06 G	40303471.16	40303471.38	40303471.59	0.0135	0.0006
Venus	105635-09-04 01:25 G	40303697.35	40303697.56	40303697.77	0.0135	0.0020
Venus	105636-04-17 05:30 G	40303923.53	40303923.73	40303923.94	0.0135	0.0036
Venus	105636-11-29 09:49 G	40304149.72	40304149.91	40304150.12	0.0135	0.0050
Venus	105637-07-13 14:23 G	40304375.91	40304376.10	40304376.28	0.0135	0.0065
Venus	105638-02-24 18:28 G	40304602.11	40304602.27	40304602.45	0.0135	0.0080

Venus	105638-10-08 22:47 G	40304828.32	40304828.45	40304828.62	0.0135	0.0095
Venus	105639-05-23 03:21 G	40305054.53	40305054.64	40305054.78	0.0135	0.0109
Venus	105640-01-04 07:54 G	40305280.76	40305280.83	40305280.93	0.0135	0.0123
Mars	105645-03-07 20:23 G	40307170.12	40307170.35	40307170.61	0.0136	0.0066
Mercury	105661-04-28 00:57 G	40313065.54	40313065.54	40313065.57	0.0140	0.0140
Mercury	105661-07-25 04:47 G	40313153.63	40313153.70	40313153.77	0.0141	0.0119
Mercury	105661-10-21 08:09 G	40313241.75	40313241.84	40313241.93	0.0141	0.0099
Mercury	105662-01-17 11:30 G	40313329.87	40313329.98	40313330.09	0.0141	0.0079
Mercury	105662-04-15 15:06 G	40313418.01	40313418.13	40313418.25	0.0141	0.0058
Mercury	105662-07-12 18:28 G	40313506.14	40313506.27	40313506.40	0.0141	0.0038
Mercury	105662-10-08 21:49 G	40313594.28	40313594.41	40313594.55	0.0141	0.0018
Mercury	105663-01-05 01:25 G	40313682.42	40313682.56	40313682.69	0.0141	0.0004
Mercury	105663-04-03 04:47 G	40313770.57	40313770.70	40313770.83	0.0141	0.0023
Mercury	105663-06-30 08:09 G	40313858.72	40313858.84	40313858.97	0.0141	0.0043
Mercury	105663-09-26 11:30 G	40313946.87	40313946.98	40313947.10	0.0141	0.0064
Mercury	105663-12-23 15:06 G	40314035.02	40314035.13	40314035.23	0.0141	0.0084
Mercury	105664-03-20 18:13 G	40314123.18	40314123.26	40314123.36	0.0141	0.0104
Mercury	105664-06-16 21:35 G	40314211.35	40314211.40	40314211.47	0.0142	0.0125
Moon	105671-05-17 21:35 G	40316737.33	40316737.40	40316737.51	0.0143	0.0134
Earth	105671-05-18 00:57 G	40316737.44	40316737.54	40316737.67	0.0143	0.0127 *
Venus	105672-03-26 19:25 G	40317051.26	40317051.31	40317051.37	0.0143	0.0138
Earth	105672-05-22 02:09 G	40317107.34	40317107.59	40317107.85	0.0143	0.0015
Moon	105672-05-22 05:01 G	40317107.46	40317107.71	40317107.97	0.0143	0.0012 *
Venus	105672-11-08 08:37 G	40317277.74	40317277.86	40317277.98	0.0143	0.0120
Moon	105673-05-27 00:13 G	40317477.34	40317477.51	40317477.72	0.0143	0.0099
Earth	105673-05-27 03:35 G	40317477.47	40317477.65	40317477.84	0.0143	0.0099 *
Venus	105673-06-22 21:35 G	40317504.25	40317504.40	40317504.56	0.0143	0.0102
Venus	105674-02-04 10:33 G	40317730.78	40317730.94	40317731.14	0.0143	0.0084
Venus	105674-09-18 23:59 G	40317957.31	40317957.50	40317957.71	0.0144	0.0065
Venus	105675-05-03 13:25 G	40318183.86	40318184.06	40318184.28	0.0144	0.0046

Venus	105675-12-16 02:52 G	40318410.40	40318410.62	40318410.84	0.0144	0.0026
Venus	105676-07-29 16:04 G	40318636.95	40318637.17	40318637.40	0.0144	0.0008
Venus	105677-03-13 05:30 G	40318863.51	40318863.73	40318863.96	0.0144	0.0012
Venus	105677-10-25 18:57 G	40319090.07	40319090.29	40319090.51	0.0144	0.0031
Venus	105678-06-09 08:09 G	40319316.63	40319316.84	40319317.05	0.0144	0.0050
Venus	105679-01-21 21:21 G	40319543.20	40319543.39	40319543.59	0.0144	0.0069
Venus	105679-09-05 10:33 G	40319769.77	40319769.94	40319770.12	0.0144	0.0088
Venus	105680-04-18 23:59 G	40319996.35	40319996.50	40319996.65	0.0143	0.0106
Venus	105680-12-01 12:42 G	40320222.94	40320223.03	40320223.16	0.0143	0.0125
Venus	105681-07-16 01:40 G	40320449.57	40320449.57	40320449.62	0.0143	0.0143
Mars	105685-08-27 05:45 G	40321952.40	40321952.74	40321953.08	0.0143	0.0005
Mercury	105702-05-19 00:42 G	40328060.42	40328060.53	40328060.64	0.0137	0.0113
Mercury	105702-08-15 08:09 G	40328148.70	40328148.84	40328149.00	0.0137	0.0086
Mercury	105702-11-11 15:49 G	40328236.99	40328237.16	40328237.34	0.0137	0.0058
Mercury	105703-02-07 23:16 G	40328325.29	40328325.47	40328325.67	0.0137	0.0032
Mercury	105703-05-07 07:11 G	40328413.60	40328413.80	40328413.99	0.0137	0.0004
Mercury	105703-08-03 14:37 G	40328501.92	40328502.11	40328502.31	0.0137	0.0024
Mercury	105703-10-30 22:18 G	40328590.25	40328590.43	40328590.61	0.0137	0.0051
Mercury	105704-01-27 05:45 G	40328678.59	40328678.74	40328678.91	0.0137	0.0079
Mercury	105704-04-24 13:25 G	40328766.95	40328767.06	40328767.19	0.0137	0.0106
Mercury	105704-07-21 20:52 G	40328855.35	40328855.37	40328855.43	0.0137	0.0134
Moon	105712-11-20 10:33 G	40331898.74	40331898.94	40331899.15	0.0135	0.0080
Earth	105712-11-20 13:25 G	40331898.88	40331899.06	40331899.27	0.0135	0.0084 *
Venus	105713-02-23 17:01 G	40331994.18	40331994.21	40331994.28	0.0135	0.0131
Venus	105713-10-07 22:18 G	40332220.33	40332220.43	40332220.54	0.0135	0.0116
Earth	105713-11-24 21:06 G	40332268.13	40332268.38	40332268.63	0.0135	0.0008
Moon	105713-11-24 23:30 G	40332268.24	40332268.48	40332268.73	0.0135	0.0002 *
Venus	105714-05-22 02:52 G	40332446.49	40332446.62	40332446.76	0.0135	0.0102
Moon	105714-11-29 00:28 G	40332637.39	40332637.52	40332637.70	0.0135	0.0107
Earth	105714-11-29 04:04 G	40332637.51	40332637.67	40332637.85	0.0135	0.0099 *

Venus	105715-01-03 07:11 G	40332672.66	40332672.80	40332672.98	0.0135	0.0088
Venus	105715-08-17 11:59 G	40332898.83	40332899.00	40332899.19	0.0135	0.0073
Venus	105716-03-30 16:33 G	40333125.00	40333125.19	40333125.39	0.0135	0.0058
Venus	105716-11-11 20:52 G	40333351.18	40333351.37	40333351.58	0.0135	0.0043
Venus	105717-06-26 01:11 G	40333577.35	40333577.55	40333577.77	0.0135	0.0029
Venus	105718-02-07 05:45 G	40333803.53	40333803.74	40333803.95	0.0135	0.0013
Venus	105718-09-21 10:04 G	40334029.71	40334029.92	40334030.14	0.0135	0.0003
Venus	105719-05-05 14:23 G	40334255.89	40334256.10	40334256.31	0.0135	0.0016
Venus	105719-12-17 18:28 G	40334482.07	40334482.27	40334482.49	0.0135	0.0032
Venus	105720-07-30 22:47 G	40334708.26	40334708.45	40334708.66	0.0135	0.0046
Venus	105721-03-14 03:06 G	40334934.45	40334934.63	40334934.83	0.0135	0.0061
Venus	105721-10-26 07:25 G	40335160.65	40335160.81	40335161.00	0.0135	0.0076
Venus	105722-06-09 11:45 G	40335386.85	40335386.99	40335387.16	0.0135	0.0091
Venus	105723-01-21 16:18 G	40335613.06	40335613.18	40335613.32	0.0135	0.0105
Venus	105723-09-04 20:52 G	40335839.28	40335839.37	40335839.48	0.0135	0.0119
Venus	105724-04-18 01:25 G	40336065.54	40336065.56	40336065.60	0.0135	0.0133
Mars	105727-12-03 07:54 G	40337389.67	40337389.83	40337389.99	0.0135	0.0111
Mercury	105745-05-19 08:37 G	40343766.82	40343766.86	40343766.90	0.0140	0.0133
Mercury	105745-08-15 11:59 G	40343854.93	40343855.00	40343855.08	0.0140	0.0113
Mercury	105745-11-11 15:21 G	40343943.05	40343943.14	40343943.25	0.0141	0.0094
Mercury	105746-02-07 18:57 G	40344031.18	40344031.29	40344031.40	0.0141	0.0073
Mercury	105746-05-06 22:18 G	40344119.31	40344119.43	40344119.56	0.0141	0.0053
Mercury	105746-08-03 01:54 G	40344207.45	40344207.58	40344207.71	0.0141	0.0033
Mercury	105746-10-30 05:16 G	40344295.59	40344295.72	40344295.85	0.0141	0.0013
Mercury	105747-01-26 08:37 G	40344383.73	40344383.86	40344383.99	0.0141	0.0008
Mercury	105747-04-24 11:59 G	40344471.88	40344472.00	40344472.13	0.0141	0.0028
Mercury	105747-07-21 15:35 G	40344560.02	40344560.15	40344560.27	0.0141	0.0048
Mercury	105747-10-17 18:57 G	40344648.17	40344648.29	40344648.40	0.0141	0.0068
Mercury	105748-01-13 22:18 G	40344736.33	40344736.43	40344736.53	0.0141	0.0089
Mercury	105748-04-11 01:25 G	40344824.49	40344824.56	40344824.66	0.0141	0.0110

Mercury	105748-07-08 04:47 G	40344912.66	40344912.70	40344912.77	0.0141	0.0130
Moon	105755-05-19 09:49 G	40347418.79	40347418.91	40347419.06	0.0143	0.0122
Earth	105755-05-19 10:18 G	40347418.81	40347418.93	40347419.08	0.0143	0.0122 *
Moon	105756-05-23 11:01 G	40347788.72	40347788.96	40347789.21	0.0143	0.0005
Earth	105756-05-23 11:30 G	40347788.73	40347788.98	40347789.24	0.0143	0.0010 *
Venus	105756-07-09 13:11 G	40347835.96	40347836.05	40347836.16	0.0143	0.0126
Venus	105757-02-21 02:09 G	40348062.46	40348062.59	40348062.75	0.0143	0.0109
Earth	105757-05-28 12:28 G	40348158.85	40348159.02	40348159.20	0.0143	0.0104
Moon	105757-05-28 13:25 G	40348158.87	40348159.06	40348159.26	0.0143	0.0096 *
Venus	105757-10-05 15:21 G	40348288.98	40348289.14	40348289.33	0.0143	0.0090
Venus	105758-05-20 04:33 G	40348515.51	40348515.69	40348515.89	0.0143	0.0072
Venus	105759-01-01 17:59 G	40348742.04	40348742.25	40348742.46	0.0144	0.0053
Venus	105759-08-16 07:11 G	40348968.59	40348968.80	40348969.02	0.0144	0.0034
Venus	105760-03-29 20:37 G	40349195.14	40349195.36	40349195.58	0.0144	0.0015
Venus	105760-11-11 09:49 G	40349421.69	40349421.91	40349422.14	0.0144	0.0005
Venus	105761-06-25 23:01 G	40349648.25	40349648.46	40349648.69	0.0144	0.0024
Venus	105762-02-07 12:13 G	40349874.81	40349875.01	40349875.23	0.0144	0.0043
Venus	105762-09-22 01:25 G	40350101.37	40350101.56	40350101.77	0.0144	0.0062
Venus	105763-05-06 14:52 G	40350327.95	40350328.12	40350328.32	0.0144	0.0081
Venus	105763-12-19 04:18 G	40350554.52	40350554.68	40350554.84	0.0144	0.0099
Venus	105764-08-01 17:01 G	40350781.11	40350781.21	40350781.36	0.0143	0.0118
Venus	105765-03-16 06:13 G	40351007.71	40351007.76	40351007.86	0.0143	0.0136
Mercury	105786-03-12 00:28 G	40358673.48	40358673.52	40358673.58	0.0138	0.0133
Mercury	105786-06-08 08:23 G	40358761.73	40358761.85	40358761.97	0.0138	0.0105
Mercury	105786-09-04 15:49 G	40358850.01	40358850.16	40358850.32	0.0138	0.0078
Mercury	105786-12-01 23:16 G	40358938.30	40358938.47	40358938.66	0.0137	0.0051
Mercury	105787-02-28 07:11 G	40359026.61	40359026.80	40359026.99	0.0137	0.0023
Mercury	105787-05-27 14:52 G	40359114.92	40359115.12	40359115.31	0.0137	0.0005
Mercury	105787-08-23 22:18 G	40359203.25	40359203.43	40359203.62	0.0137	0.0032
Mercury	105787-11-20 05:45 G	40359291.58	40359291.74	40359291.93	0.0137	0.0060

Mercury	105788-02-16 13:25 G	40359379.92	40359380.06	40359380.22	0.0137	0.0088
Mercury	105788-05-14 20:52 G	40359468.29	40359468.37	40359468.50	0.0137	0.0115
Venus	105796-10-24 05:59 G	40362552.73	40362552.75	40362552.77	0.0135	0.0134
Earth	105796-11-21 03:06 G	40362580.43	40362580.63	40362580.84	0.0135	0.0075
Moon	105796-11-21 04:18 G	40362580.49	40362580.68	40362580.91	0.0135	0.0082 *
Venus	105797-06-07 10:32 G	40362778.86	40362778.94	40362779.04	0.0135	0.0120
Moon	105797-11-25 09:20 G	40362949.65	40362949.89	40362950.13	0.0135	0.0021
Earth	105797-11-25 10:47 G	40362949.70	40362949.95	40362950.20	0.0135	0.0016 *
Venus	105798-01-19 15:06 G	40363005.02	40363005.13	40363005.28	0.0135	0.0106
Venus	105798-09-02 19:54 G	40363231.19	40363231.33	40363231.50	0.0135	0.0092
Earth	105798-11-29 17:16 G	40363319.09	40363319.22	40363319.39	0.0135	0.0108
Moon	105798-11-29 19:11 G	40363319.16	40363319.30	40363319.47	0.0135	0.0107 *
Venus	105799-04-17 00:42 G	40363457.36	40363457.53	40363457.71	0.0135	0.0077
Venus	105799-11-29 05:16 G	40363683.53	40363683.72	40363683.91	0.0135	0.0062
Venus	105800-07-13 09:20 G	40363909.70	40363909.89	40363910.10	0.0135	0.0048
Venus	105801-02-24 13:54 G	40364135.88	40364136.08	40364136.29	0.0135	0.0033
Venus	105801-10-08 18:28 G	40364362.06	40364362.27	40364362.48	0.0135	0.0018
Venus	105802-05-22 22:47 G	40364588.24	40364588.45	40364588.66	0.0135	0.0003
Venus	105803-01-04 03:06 G	40364814.42	40364814.63	40364814.84	0.0135	0.0012
Venus	105803-08-18 07:25 G	40365040.60	40365040.81	40365041.02	0.0135	0.0027
Venus	105804-03-31 11:30 G	40365266.79	40365266.98	40365267.19	0.0135	0.0042
Venus	105804-11-12 15:49 G	40365492.98	40365493.16	40365493.36	0.0135	0.0057
Venus	105805-06-26 20:08 G	40365719.17	40365719.34	40365719.53	0.0135	0.0072
Venus	105806-02-08 00:42 G	40365945.37	40365945.53	40365945.70	0.0135	0.0086
Venus	105806-09-22 05:01 G	40366171.58	40366171.71	40366171.86	0.0135	0.0101
Venus	105807-05-06 09:35 G	40366397.80	40366397.90	40366398.02	0.0135	0.0115
Venus	105807-12-18 14:08 G	40366624.04	40366624.09	40366624.16	0.0135	0.0129
Mars	105812-07-28 14:23 G	40368307.83	40368308.10	40368308.38	0.0135	0.0008
Mercury	105829-06-09 16:18 G	40374468.13	40374468.18	40374468.23	0.0140	0.0127
Mercury	105829-09-05 19:40 G	40374556.24	40374556.32	40374556.41	0.0140	0.0107

Mercury	105829-12-02 23:01 G	40374644.36	40374644.46	40374644.57	0.0140	0.0087
Mercury	105830-03-01 02:23 G	40374732.49	40374732.60	40374732.73	0.0141	0.0067
Mercury	105830-05-28 05:59 G	40374820.63	40374820.75	40374820.88	0.0141	0.0046
Mercury	105830-08-24 09:20 G	40374908.76	40374908.89	40374909.02	0.0141	0.0027
Mercury	105830-11-20 12:56 G	40374996.90	40374997.04	40374997.17	0.0141	0.0007
Mercury	105831-02-16 16:18 G	40375085.05	40375085.18	40375085.31	0.0141	0.0014
Mercury	105831-05-15 19:40 G	40375173.19	40375173.32	40375173.45	0.0141	0.0035
Mercury	105831-08-11 23:01 G	40375261.34	40375261.46	40375261.59	0.0141	0.0055
Mercury	105831-11-08 02:23 G	40375349.49	40375349.60	40375349.72	0.0141	0.0075
Mercury	105832-02-04 05:44 G	40375437.65	40375437.74	40375437.84	0.0141	0.0095
Mercury	105832-05-02 09:06 G	40375525.82	40375525.88	40375525.96	0.0141	0.0116
Mercury	105832-07-29 12:42 G	40375614.00	40375614.03	40375614.07	0.0141	0.0135
Earth	105839-05-20 22:04 G	40378100.29	40378100.42	40378100.59	0.0143	0.0115
Moon	105839-05-21 00:56 G	40378100.39	40378100.54	40378100.70	0.0143	0.0111 *
Venus	105840-03-09 20:08 G	40378394.25	40378394.34	40378394.42	0.0143	0.0132
Moon	105840-05-24 21:06 G	40378470.11	40378470.38	40378470.64	0.0143	0.0002
Earth	105840-05-24 23:16 G	40378470.21	40378470.47	40378470.72	0.0143	0.0003 *
Venus	105840-10-22 08:37 G	40378620.75	40378620.86	40378621.01	0.0143	0.0115
Earth	105841-05-30 00:13 G	40378840.35	40378840.51	40378840.67	0.0143	0.0111
Moon	105841-05-30 01:11 G	40378840.39	40378840.55	40378840.73	0.0143	0.0106 *
Venus	105841-06-05 21:35 G	40378847.25	40378847.40	40378847.58	0.0143	0.0097
Venus	105842-01-18 10:47 G	40379073.77	40379073.95	40379074.15	0.0143	0.0078
Venus	105842-09-01 23:59 G	40379300.31	40379300.50	40379300.71	0.0143	0.0059
Venus	105843-04-16 13:11 G	40379526.85	40379527.05	40379527.27	0.0144	0.0041
Venus	105843-11-29 02:37 G	40379753.39	40379753.61	40379753.83	0.0144	0.0021
Venus	105844-07-12 15:49 G	40379979.94	40379980.16	40379980.38	0.0144	0.0002
Venus	105845-02-24 05:01 G	40380206.49	40380206.71	40380206.93	0.0144	0.0017
Venus	105845-10-08 18:13 G	40380433.05	40380433.26	40380433.48	0.0144	0.0036
Venus	105846-05-23 07:40 G	40380659.62	40380659.82	40380660.03	0.0144	0.0055
Venus	105847-01-04 20:37 G	40380886.18	40380886.36	40380886.56	0.0144	0.0074

Venus	105847-08-19 10:18 G	40381112.76	40381112.93	40381113.10	0.0144	0.0092
Venus	105848-04-01 23:16 G	40381339.34	40381339.47	40381339.62	0.0143	0.0111
Venus	105848-11-14 12:28 G	40381565.94	40381566.02	40381566.13	0.0143	0.0129
Mars	105853-01-12 20:37 G	40383086.16	40383086.36	40383086.62	0.0143	0.0106
Mercury	105870-04-02 07:54 G	40389374.77	40389374.83	40389374.93	0.0138	0.0125
Mercury	105870-06-29 15:49 G	40389463.03	40389463.16	40389463.30	0.0138	0.0097
Mercury	105870-09-25 23:16 G	40389551.31	40389551.47	40389551.64	0.0138	0.0070
Mercury	105870-12-23 06:56 G	40389639.61	40389639.79	40389639.98	0.0137	0.0042
Mercury	105871-03-21 14:37 G	40389727.92	40389728.11	40389728.30	0.0137	0.0015
Mercury	105871-06-17 22:18 G	40389816.23	40389816.43	40389816.62	0.0137	0.0013
Mercury	105871-09-14 05:44 G	40389904.56	40389904.74	40389904.93	0.0137	0.0040
Mercury	105871-12-11 13:25 G	40389992.90	40389993.06	40389993.23	0.0137	0.0068
Mercury	105872-03-08 20:52 G	40390081.24	40390081.37	40390081.52	0.0137	0.0096
Mercury	105872-06-05 04:47 G	40390169.62	40390169.70	40390169.79	0.0137	0.0123
Moon	105880-11-22 14:08 G	40393261.89	40393262.09	40393262.30	0.0135	0.0074
Earth	105880-11-22 15:49 G	40393261.95	40393262.16	40393262.38	0.0135	0.0068 *
Venus	105881-02-05 22:18 G	40393337.36	40393337.43	40393337.53	0.0135	0.0124
Venus	105881-09-20 03:06 G	40393563.53	40393563.63	40393563.77	0.0135	0.0110
Earth	105881-11-26 23:16 G	40393631.23	40393631.47	40393631.72	0.0135	0.0024
Moon	105881-11-27 01:11 G	40393631.30	40393631.55	40393631.80	0.0135	0.0026 *
Venus	105882-05-04 07:54 G	40393789.70	40393789.83	40393789.99	0.0135	0.0096
Moon	105882-12-01 04:04 G	40394000.56	40394000.67	40394000.81	0.0135	0.0116
Earth	105882-12-01 06:28 G	40394000.64	40394000.77	40394000.90	0.0135	0.0115 *
Venus	105882-12-16 12:42 G	40394015.87	40394016.03	40394016.20	0.0135	0.0081
Venus	105883-07-30 17:16 G	40394242.04	40394242.22	40394242.41	0.0135	0.0066
Venus	105884-03-12 21:35 G	40394468.21	40394468.40	40394468.61	0.0135	0.0052
Venus	105884-10-25 02:08 G	40394694.39	40394694.59	40394694.80	0.0135	0.0037
Venus	105885-06-08 06:42 G	40394920.57	40394920.78	40394920.99	0.0135	0.0022
Venus	105886-01-20 11:01 G	40395146.75	40395146.96	40395147.17	0.0135	0.0007
Venus	105886-09-03 15:20 G	40395372.93	40395373.14	40395373.36	0.0135	0.0008

Venus	105887-04-17 19:40 G	40395599.12	40395599.32	40395599.54	0.0135	0.0023
Venus	105887-11-29 23:59 G	40395825.30	40395825.50	40395825.71	0.0135	0.0038
Venus	105888-07-13 04:18 G	40396051.49	40396051.68	40396051.88	0.0135	0.0052
Venus	105889-02-24 08:52 G	40396277.68	40396277.87	40396278.05	0.0135	0.0067
Venus	105889-10-08 13:11 G	40396503.89	40396504.05	40396504.23	0.0135	0.0082
Venus	105890-05-22 17:44 G	40396730.10	40396730.24	40396730.39	0.0135	0.0096
Venus	105891-01-03 21:49 G	40396956.31	40396956.41	40396956.55	0.0135	0.0111
Venus	105891-08-18 02:23 G	40397182.54	40397182.60	40397182.70	0.0135	0.0125
Mars	105897-03-22 20:52 G	40399226.29	40399226.37	40399226.48	0.0136	0.0127
Mercury	105913-04-03 20:23 G	40405081.35	40405081.35	40405081.36	0.0140	0.0140
Mercury	105913-06-30 23:44 G	40405169.43	40405169.49	40405169.57	0.0140	0.0120
Mercury	105913-09-27 03:06 G	40405257.55	40405257.63	40405257.74	0.0140	0.0101
Mercury	105913-12-24 06:56 G	40405345.68	40405345.79	40405345.90	0.0140	0.0080
Mercury	105914-03-22 10:18 G	40405433.81	40405433.93	40405434.05	0.0140	0.0060
Mercury	105914-06-18 13:40 G	40405521.94	40405522.07	40405522.20	0.0141	0.0039
Mercury	105914-09-14 17:01 G	40405610.08	40405610.21	40405610.35	0.0141	0.0020
Mercury	105914-12-11 20:37 G	40405698.22	40405698.36	40405698.49	0.0141	0.0003
Mercury	105915-03-09 23:59 G	40405786.37	40405786.50	40405786.63	0.0141	0.0021
Mercury	105915-06-06 03:20 G	40405874.51	40405874.64	40405874.77	0.0141	0.0041
Mercury	105915-09-02 06:42 G	40405962.66	40405962.78	40405962.90	0.0141	0.0061
Mercury	105915-11-29 10:04 G	40406050.82	40406050.92	40406051.03	0.0141	0.0082
Mercury	105916-02-25 13:25 G	40406138.98	40406139.06	40406139.16	0.0141	0.0102
Mercury	105916-05-23 16:47 G	40406227.14	40406227.20	40406227.27	0.0141	0.0122
Moon	105923-05-22 07:25 G	40408781.66	40408781.81	40408782.01	0.0143	0.0106
Earth	105923-05-22 09:49 G	40408781.76	40408781.91	40408782.09	0.0143	0.0108 *
Venus	105923-11-09 02:23 G	40408952.55	40408952.60	40408952.67	0.0143	0.0137
Earth	105924-05-26 10:32 G	40409151.69	40409151.94	40409152.20	0.0143	0.0005
Moon	105924-05-26 11:59 G	40409151.75	40409152.00	40409152.25	0.0143	0.0007 *
Venus	105924-06-22 14:52 G	40409179.02	40409179.12	40409179.26	0.0143	0.0120
Venus	105925-02-04 03:49 G	40409405.52	40409405.66	40409405.83	0.0143	0.0102

Moon	105925-05-31 10:18 G	40409521.78	40409521.93	40409522.12	0.0143	0.0111
Earth	105925-05-31 11:16 G	40409521.83	40409521.97	40409522.12	0.0143	0.0118 *
Venus	105925-09-18 17:16 G	40409632.04	40409632.22	40409632.40	0.0143	0.0084
Venus	105926-05-03 05:59 G	40409858.57	40409858.75	40409858.96	0.0143	0.0066
Venus	105926-12-15 19:11 G	40410085.10	40410085.30	40410085.52	0.0143	0.0047
Venus	105927-07-30 08:23 G	40410311.64	40410311.85	40410312.07	0.0143	0.0028
Venus	105928-03-12 21:35 G	40410538.18	40410538.40	40410538.63	0.0143	0.0010
Venus	105928-10-25 10:47 G	40410764.73	40410764.95	40410765.18	0.0143	0.0011
Venus	105929-06-08 23:59 G	40410991.29	40410991.50	40410991.73	0.0143	0.0029
Venus	105930-01-21 13:25 G	40411217.85	40411218.06	40411218.27	0.0143	0.0048
Venus	105930-09-05 02:23 G	40411444.41	40411444.60	40411444.81	0.0143	0.0067
Venus	105931-04-19 15:49 G	40411670.99	40411671.16	40411671.35	0.0143	0.0085
Venus	105931-12-02 05:01 G	40411897.57	40411897.71	40411897.87	0.0143	0.0104
Venus	105932-07-15 18:13 G	40412124.15	40412124.26	40412124.39	0.0143	0.0122
Venus	105933-02-27 07:11 G	40412350.77	40412350.80	40412350.87	0.0143	0.0140
Mars	105937-09-10 12:13 G	40414006.71	40414007.01	40414007.33	0.0143	0.0063
Mercury	105954-04-23 15:06 G	40420076.05	40420076.13	40420076.24	0.0138	0.0118
Mercury	105954-07-20 23:01 G	40420164.32	40420164.46	40420164.61	0.0138	0.0090
Mercury	105954-10-17 06:28 G	40420252.61	40420252.77	40420252.95	0.0138	0.0063
Mercury	105955-01-13 14:08 G	40420340.91	40420341.09	40420341.28	0.0138	0.0035
Mercury	105955-04-11 21:49 G	40420429.22	40420429.41	40420429.60	0.0137	0.0008
Mercury	105955-07-09 05:30 G	40420517.54	40420517.73	40420517.92	0.0137	0.0020
Mercury	105955-10-05 12:56 G	40420605.87	40420606.04	40420606.23	0.0137	0.0048
Mercury	105956-01-01 20:23 G	40420694.20	40420694.35	40420694.53	0.0137	0.0076
Mercury	105956-03-30 04:18 G	40420782.56	40420782.68	40420782.81	0.0137	0.0102
Mercury	105956-06-26 11:44 G	40420870.95	40420870.99	40420871.07	0.0137	0.0130
Venus	105964-10-07 09:49 G	40423895.86	40423895.91	40423895.99	0.0135	0.0128
Earth	105964-11-24 03:20 G	40423943.43	40423943.64	40423943.88	0.0135	0.0063
Moon	105964-11-24 06:13 G	40423943.55	40423943.76	40423944.00	0.0135	0.0065 *
Venus	105965-05-21 14:37 G	40424122.01	40424122.11	40424122.24	0.0135	0.0114

Moon	105965-11-28 08:23 G	40424312.62	40424312.85	40424313.10	0.0135	0.0030
Earth	105965-11-28 11:16 G	40424312.73	40424312.97	40424313.22	0.0135	0.0030 *
Venus	105966-01-02 19:40 G	40424348.18	40424348.32	40424348.47	0.0135	0.0099
Venus	105966-08-17 00:13 G	40424574.35	40424574.51	40424574.68	0.0135	0.0085
Earth	105966-12-02 17:59 G	40424682.17	40424682.25	40424682.38	0.0135	0.0122
Moon	105966-12-02 21:06 G	40424682.31	40424682.38	40424682.49	0.0135	0.0126 *
Venus	105967-03-31 05:01 G	40424800.53	40424800.71	40424800.89	0.0135	0.0070
Venus	105967-11-12 09:20 G	40425026.71	40425026.89	40425027.09	0.0135	0.0056
Venus	105968-06-25 13:54 G	40425252.88	40425253.08	40425253.29	0.0135	0.0041
Venus	105969-02-06 18:28 G	40425479.06	40425479.27	40425479.48	0.0135	0.0026
Venus	105969-09-20 23:01 G	40425705.25	40425705.46	40425705.67	0.0135	0.0011
Venus	105970-05-05 03:20 G	40425931.43	40425931.64	40425931.86	0.0135	0.0004
Venus	105970-12-17 07:40 G	40426157.61	40426157.82	40426158.04	0.0135	0.0019
Venus	105971-07-31 11:59 G	40426383.80	40426384.00	40426384.21	0.0135	0.0034
Venus	105972-03-13 16:32 G	40426609.99	40426610.19	40426610.39	0.0135	0.0048
Venus	105972-10-25 20:52 G	40426836.19	40426836.37	40426836.57	0.0135	0.0063
Venus	105973-06-09 01:11 G	40427062.39	40427062.55	40427062.74	0.0135	0.0078
Venus	105974-01-21 05:44 G	40427288.60	40427288.74	40427288.91	0.0135	0.0092
Venus	105974-09-04 10:32 G	40427514.81	40427514.94	40427515.07	0.0135	0.0106
Venus	105975-04-18 15:06 G	40427741.04	40427741.13	40427741.23	0.0135	0.0120
Venus	105975-11-30 19:54 G	40427967.31	40427967.33	40427967.34	0.0135	0.0134
Mars	105979-12-18 07:54 G	40429445.57	40429445.83	40429446.09	0.0135	0.0051
Mercury	105997-04-24 04:18 G	40435782.64	40435782.68	40435782.72	0.0140	0.0132
Mercury	105997-07-21 07:40 G	40435870.75	40435870.82	40435870.90	0.0140	0.0112
Mercury	105997-10-17 11:01 G	40435958.87	40435958.96	40435959.07	0.0140	0.0093
Mercury	105998-01-13 14:37 G	40436047.00	40436047.11	40436047.23	0.0140	0.0072
Mercury	105998-04-11 17:59 G	40436135.13	40436135.25	40436135.38	0.0140	0.0052
Mercury	105998-07-08 21:35 G	40436223.27	40436223.40	40436223.53	0.0141	0.0032
Mercury	105998-10-05 00:56 G	40436311.41	40436311.54	40436311.67	0.0141	0.0012
Mercury	105999-01-01 04:18 G	40436399.55	40436399.68	40436399.82	0.0141	0.0009

Mercury	105999-03-30 07:54 G	40436487.70	40436487.83	40436487.95	0.0141	0.0029
Mercury	105999-06-26 11:16 G	40436575.84	40436575.97	40436576.09	0.0141	0.0049
Mercury	105999-09-22 14:37 G	40436663.99	40436664.11	40436664.22	0.0141	0.0069
Mercury	105999-12-19 17:59 G	40436752.15	40436752.25	40436752.35	0.0141	0.0089
Mercury	106000-03-16 21:20 G	40436840.31	40436840.39	40436840.47	0.0141	0.0109
Mercury	106000-06-13 00:42 G	40436928.49	40436928.53	40436928.58	0.0141	0.0130

107TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 107th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	106007-05-22 23:59 G		40439463.32	40439463.50	40439463.69	0.0143	0.0099	
Moon	106007-05-23 00:13 G		40439463.35	40439463.51	40439463.70	0.0143	0.0102	*
Venus	106007-07-09 10:04 G		40439510.91	40439510.92	40439510.97	0.0143	0.0142	
Venus	106008-02-20 23:01 G		40439737.37	40439737.46	40439737.58	0.0143	0.0124	
Earth	106008-05-27 00:28 G		40439833.26	40439833.52	40439833.77	0.0143	0.0013	
Moon	106008-05-27 00:56 G		40439833.28	40439833.54	40439833.80	0.0143	0.0019	*
Venus	106008-10-04 12:13 G		40439963.86	40439964.01	40439964.16	0.0143	0.0106	
Venus	106009-05-19 00:56 G		40440190.37	40440190.54	40440190.72	0.0143	0.0089	
Moon	106009-05-31 23:59 G		40440203.37	40440203.50	40440203.65	0.0143	0.0119	
Earth	106009-06-01 00:42 G		40440203.43	40440203.53	40440203.67	0.0143	0.0127	*
Venus	106009-12-31 13:54 G		40440416.89	40440417.08	40440417.28	0.0143	0.0070	
Venus	106010-08-15 03:06 G		40440643.42	40440643.63	40440643.84	0.0143	0.0052	

Venus	106011-03-29 16:04 G	40440869.96	40440870.17	40440870.40	0.0143	0.0034
Venus	106011-11-11 05:30 G	40441096.51	40441096.73	40441096.95	0.0143	0.0014
Venus	106012-06-24 18:42 G	40441323.05	40441323.28	40441323.50	0.0143	0.0005
Venus	106013-02-06 07:54 G	40441549.61	40441549.83	40441550.05	0.0143	0.0024
Venus	106013-09-20 20:52 G	40441776.17	40441776.37	40441776.59	0.0143	0.0043
Venus	106014-05-05 10:18 G	40442002.74	40442002.93	40442003.14	0.0143	0.0062
Venus	106014-12-17 23:44 G	40442229.31	40442229.49	40442229.68	0.0143	0.0080
Venus	106015-08-01 12:42 G	40442455.88	40442456.03	40442456.21	0.0143	0.0099
Venus	106016-03-15 01:54 G	40442682.47	40442682.58	40442682.73	0.0143	0.0117
Venus	106016-10-27 15:06 G	40442909.07	40442909.13	40442909.23	0.0143	0.0134
Mercury	106038-02-14 15:49 G	40450689.13	40450689.16	40450689.19	0.0138	0.0135
Mercury	106038-05-13 23:16 G	40450777.36	40450777.47	40450777.59	0.0138	0.0108
Mercury	106038-08-10 06:42 G	40450865.63	40450865.78	40450865.94	0.0138	0.0081
Mercury	106038-11-06 14:23 G	40450953.93	40450954.10	40450954.28	0.0138	0.0053
Mercury	106039-02-02 22:04 G	40451042.23	40451042.42	40451042.61	0.0138	0.0026
Mercury	106039-05-02 05:44 G	40451130.55	40451130.74	40451130.93	0.0137	0.0002
Mercury	106039-07-29 13:11 G	40451218.87	40451219.05	40451219.25	0.0137	0.0030
Mercury	106039-10-25 20:52 G	40451307.20	40451307.37	40451307.55	0.0137	0.0057
Mercury	106040-01-22 04:32 G	40451395.54	40451395.69	40451395.85	0.0137	0.0084
Mercury	106040-04-19 11:59 G	40451483.90	40451484.00	40451484.13	0.0137	0.0112
Venus	106048-06-06 21:35 G	40454454.36	40454454.40	40454454.46	0.0135	0.0132
Moon	106048-11-24 12:42 G	40454624.81	40454625.03	40454625.27	0.0135	0.0055
Earth	106048-11-24 16:18 G	40454624.96	40454625.18	40454625.41	0.0135	0.0055 *
Venus	106049-01-19 02:23 G	40454680.51	40454680.60	40454680.72	0.0135	0.0118
Venus	106049-09-02 07:11 G	40454906.68	40454906.80	40454906.95	0.0135	0.0104
Earth	106049-11-28 23:30 G	40454994.25	40454994.48	40454994.73	0.0135	0.0038
Moon	106049-11-29 03:06 G	40454994.39	40454994.63	40454994.88	0.0135	0.0032 *
Venus	106050-04-16 11:59 G	40455132.85	40455133.00	40455133.17	0.0135	0.0089
Venus	106050-11-28 16:47 G	40455359.03	40455359.20	40455359.38	0.0135	0.0074
Earth	106050-12-03 06:28 G	40455363.72	40455363.77	40455363.87	0.0135	0.0129

Venus	106051-07-12 21:06 G	40455585.20	40455585.38	40455585.58	0.0135	0.0060
Venus	106052-02-24 01:40 G	40455811.38	40455811.57	40455811.78	0.0135	0.0045
Venus	106052-10-07 06:28 G	40456037.57	40456037.77	40456037.98	0.0135	0.0030
Venus	106053-05-21 11:01 G	40456263.75	40456263.96	40456264.17	0.0135	0.0015
Venus	106054-01-02 15:20 G	40456489.93	40456490.14	40456490.36	0.0135	0.0003
Venus	106054-08-16 19:54 G	40456716.12	40456716.33	40456716.54	0.0135	0.0015
Venus	106055-03-31 00:13 G	40456942.31	40456942.51	40456942.72	0.0135	0.0030
Venus	106055-11-12 04:32 G	40457168.50	40457168.69	40457168.90	0.0135	0.0045
Venus	106056-06-25 09:06 G	40457394.70	40457394.88	40457395.08	0.0135	0.0059
Venus	106057-02-06 13:25 G	40457620.90	40457621.06	40457621.25	0.0135	0.0074
Venus	106057-09-20 18:13 G	40457847.10	40457847.26	40457847.43	0.0135	0.0088
Venus	106058-05-04 22:32 G	40458073.32	40458073.44	40458073.59	0.0135	0.0103
Venus	106058-12-17 03:06 G	40458299.54	40458299.63	40458299.75	0.0135	0.0117
Venus	106059-07-31 07:25 G	40458525.78	40458525.81	40458525.89	0.0135	0.0131
Mars	106064-08-11 13:54 G	40460363.85	40460364.08	40460364.34	0.0136	0.0067
Mercury	106081-05-14 11:59 G	40466483.95	40466484.00	40466484.06	0.0140	0.0125
Mercury	106081-08-10 15:20 G	40466572.06	40466572.14	40466572.23	0.0140	0.0105
Mercury	106081-11-06 18:42 G	40466660.19	40466660.28	40466660.40	0.0140	0.0086
Mercury	106082-02-02 22:18 G	40466748.32	40466748.43	40466748.55	0.0140	0.0065
Mercury	106082-05-02 01:54 G	40466836.45	40466836.58	40466836.70	0.0140	0.0045
Mercury	106082-07-29 05:16 G	40466924.59	40466924.72	40466924.85	0.0141	0.0025
Mercury	106082-10-25 08:37 G	40467012.73	40467012.86	40467013.00	0.0141	0.0005
Mercury	106083-01-21 11:59 G	40467100.87	40467101.00	40467101.14	0.0141	0.0017
Mercury	106083-04-19 15:35 G	40467189.02	40467189.15	40467189.27	0.0141	0.0036
Mercury	106083-07-16 18:56 G	40467277.17	40467277.29	40467277.41	0.0141	0.0056
Mercury	106083-10-12 22:18 G	40467365.32	40467365.43	40467365.54	0.0141	0.0076
Mercury	106084-01-09 01:40 G	40467453.48	40467453.57	40467453.67	0.0141	0.0096
Mercury	106084-04-06 04:47 G	40467541.64	40467541.70	40467541.79	0.0141	0.0117
Mercury	106084-07-03 08:37 G	40467629.83	40467629.86	40467629.89	0.0141	0.0137
Earth	106091-05-23 11:59 G	40470144.82	40470145.00	40470145.21	0.0143	0.0092

Moon	106091-05-23 13:11 G	40470144.87	40470145.05	40470145.26	0.0143	0.0098	*
Venus	106091-10-21 06:13 G	40470295.68	40470295.76	40470295.86	0.0143	0.0129	
Moon	106092-05-27 10:32 G	40470514.70	40470514.94	40470515.19	0.0143	0.0028	
Earth	106092-05-27 12:42 G	40470514.78	40470515.03	40470515.29	0.0143	0.0020	*
Venus	106092-06-03 18:42 G	40470522.16	40470522.28	40470522.44	0.0143	0.0112	
Venus	106093-01-16 07:40 G	40470748.67	40470748.82	40470749.00	0.0143	0.0094	
Earth	106093-06-01 13:11 G	40470884.97	40470885.05	40470885.15	0.0143	0.0133	
Moon	106093-06-01 15:20 G	40470885.04	40470885.14	40470885.28	0.0143	0.0126	*
Venus	106093-08-30 20:37 G	40470975.18	40470975.36	40470975.56	0.0143	0.0076	
Venus	106094-04-14 09:49 G	40471201.71	40471201.91	40471202.12	0.0143	0.0057	
Venus	106094-11-26 23:01 G	40471428.25	40471428.46	40471428.67	0.0143	0.0039	
Venus	106095-07-11 11:59 G	40471654.79	40471655.00	40471655.23	0.0143	0.0020	
Venus	106096-02-23 01:25 G	40471881.33	40471881.56	40471881.78	0.0143	0.0002	
Venus	106096-10-06 14:37 G	40472107.89	40472108.11	40472108.33	0.0143	0.0018	
Venus	106097-05-21 04:04 G	40472334.45	40472334.67	40472334.88	0.0143	0.0037	
Venus	106098-01-02 17:01 G	40472561.01	40472561.21	40472561.42	0.0143	0.0056	
Venus	106098-08-17 06:13 G	40472787.58	40472787.76	40472787.96	0.0143	0.0074	
Venus	106099-03-31 19:40 G	40473014.16	40473014.32	40473014.50	0.0143	0.0093	
Venus	106099-11-13 09:06 G	40473240.74	40473240.88	40473241.02	0.0143	0.0111	
Venus	106100-06-27 22:04 G	40473467.34	40473467.42	40473467.53	0.0143	0.0129	
Mars	106105-01-26 17:16 G	40475140.90	40475141.22	40475141.57	0.0143	0.0037	
Mercury	106122-03-07 23:16 G	40481390.41	40481390.47	40481390.56	0.0138	0.0127	
Mercury	106122-06-04 07:11 G	40481478.67	40481478.80	40481478.93	0.0138	0.0099	
Mercury	106122-08-31 14:37 G	40481566.95	40481567.11	40481567.28	0.0138	0.0072	
Mercury	106122-11-27 22:04 G	40481655.25	40481655.42	40481655.61	0.0138	0.0045	
Mercury	106123-02-24 05:59 G	40481743.56	40481743.75	40481743.94	0.0138	0.0017	
Mercury	106123-05-23 13:25 G	40481831.87	40481832.06	40481832.26	0.0137	0.0012	
Mercury	106123-08-19 21:06 G	40481920.20	40481920.38	40481920.57	0.0137	0.0038	
Mercury	106123-11-16 04:47 G	40482008.53	40482008.70	40482008.87	0.0137	0.0066	
Mercury	106124-02-12 12:13 G	40482096.88	40482097.01	40482097.16	0.0137	0.0094	

Mercury	106124-05-10 19:54 G	40482185.25	40482185.33	40482185.43	0.0137	0.0121
Venus	106132-02-06 09:20 G	40485012.89	40485012.89	40485012.90	0.0135	0.0135
Venus	106132-09-19 14:08 G	40485239.02	40485239.09	40485239.20	0.0135	0.0122
Earth	106132-11-26 04:32 G	40485306.46	40485306.69	40485306.93	0.0135	0.0049
Moon	106132-11-26 08:08 G	40485306.61	40485306.84	40485307.08	0.0135	0.0044 *
Venus	106133-05-03 18:56 G	40485465.18	40485465.29	40485465.44	0.0135	0.0107
Moon	106133-11-30 08:52 G	40485675.64	40485675.87	40485676.13	0.0135	0.0037
Earth	106133-11-30 12:13 G	40485675.78	40485676.01	40485676.25	0.0135	0.0044 *
Venus	106133-12-15 23:59 G	40485691.35	40485691.50	40485691.66	0.0135	0.0093
Venus	106134-07-30 04:32 G	40485917.52	40485917.69	40485917.87	0.0135	0.0078
Venus	106135-03-13 09:20 G	40486143.70	40486143.89	40486144.08	0.0135	0.0063
Venus	106135-10-25 13:40 G	40486369.88	40486370.07	40486370.28	0.0135	0.0049
Venus	106136-06-07 18:28 G	40486596.07	40486596.27	40486596.48	0.0135	0.0034
Venus	106137-01-19 23:01 G	40486822.25	40486822.46	40486822.67	0.0135	0.0019
Venus	106137-09-03 03:35 G	40487048.43	40487048.65	40487048.86	0.0135	0.0005
Venus	106138-04-17 07:54 G	40487274.62	40487274.83	40487275.05	0.0135	0.0011
Venus	106138-11-29 12:13 G	40487500.81	40487501.01	40487501.23	0.0135	0.0026
Venus	106139-07-13 16:32 G	40487727.00	40487727.19	40487727.41	0.0135	0.0041
Venus	106140-02-24 21:20 G	40487953.19	40487953.39	40487953.58	0.0135	0.0055
Venus	106140-10-08 01:40 G	40488179.40	40488179.57	40488179.76	0.0135	0.0070
Venus	106141-05-22 06:28 G	40488405.60	40488405.77	40488405.94	0.0135	0.0084
Venus	106142-01-03 10:32 G	40488631.81	40488631.94	40488632.10	0.0135	0.0099
Venus	106142-08-17 15:06 G	40488858.03	40488858.13	40488858.26	0.0135	0.0113
Venus	106143-03-31 19:40 G	40489084.26	40489084.32	40489084.41	0.0135	0.0127
Mars	106147-05-08 23:30 G	40490583.35	40490583.48	40490583.65	0.0135	0.0114
Mercury	106165-03-08 15:49 G	40497097.16	40497097.16	40497097.19	0.0140	0.0139
Mercury	106165-06-04 19:40 G	40497185.25	40497185.32	40497185.39	0.0140	0.0119
Mercury	106165-08-31 23:01 G	40497273.37	40497273.46	40497273.56	0.0140	0.0099
Mercury	106165-11-28 02:23 G	40497361.50	40497361.60	40497361.72	0.0140	0.0079
Mercury	106166-02-24 05:59 G	40497449.63	40497449.75	40497449.87	0.0140	0.0058

Mercury	106166-05-23 09:20 G	40497537.77	40497537.89	40497538.02	0.0141	0.0038
Mercury	106166-08-19 12:56 G	40497625.91	40497626.04	40497626.17	0.0141	0.0018
Mercury	106166-11-15 16:18 G	40497714.05	40497714.18	40497714.31	0.0141	0.0002
Mercury	106167-02-11 19:40 G	40497802.19	40497802.32	40497802.45	0.0141	0.0022
Mercury	106167-05-10 23:01 G	40497890.34	40497890.46	40497890.59	0.0141	0.0043
Mercury	106167-08-07 02:23 G	40497978.49	40497978.60	40497978.72	0.0141	0.0063
Mercury	106167-11-03 05:44 G	40498066.64	40498066.74	40498066.86	0.0141	0.0083
Mercury	106168-01-30 09:20 G	40498154.80	40498154.89	40498154.98	0.0141	0.0103
Mercury	106168-04-27 12:42 G	40498242.97	40498243.03	40498243.10	0.0141	0.0123
Moon	106175-05-24 21:20 G	40500826.22	40500826.39	40500826.60	0.0143	0.0093
Earth	106175-05-25 00:13 G	40500826.32	40500826.51	40500826.73	0.0143	0.0085 *
Venus	106175-06-21 13:11 G	40500853.98	40500854.05	40500854.13	0.0143	0.0134
Venus	106176-02-03 01:40 G	40501080.46	40501080.57	40501080.71	0.0143	0.0117
Earth	106176-05-29 00:42 G	40501196.28	40501196.53	40501196.79	0.0143	0.0027
Moon	106176-05-29 04:18 G	40501196.43	40501196.68	40501196.94	0.0143	0.0033 *
Venus	106176-09-16 14:37 G	40501306.96	40501307.11	40501307.28	0.0143	0.0099
Venus	106177-05-01 03:35 G	40501533.48	40501533.65	40501533.84	0.0143	0.0081
Moon	106177-06-02 21:35 G	40501566.35	40501566.40	40501566.50	0.0143	0.0137
Earth	106177-06-03 01:11 G	40501566.52	40501566.55	40501566.62	0.0143	0.0141
Venus	106177-12-13 16:47 G	40501760.00	40501760.20	40501760.40	0.0143	0.0063
Venus	106178-07-28 05:44 G	40501986.53	40501986.74	40501986.95	0.0143	0.0044
Venus	106179-03-11 18:56 G	40502213.07	40502213.29	40502213.51	0.0143	0.0026
Venus	106179-10-24 08:08 G	40502439.62	40502439.84	40502440.07	0.0143	0.0007
Venus	106180-06-06 21:35 G	40502666.17	40502666.40	40502666.62	0.0143	0.0012
Venus	106181-01-19 10:32 G	40502892.73	40502892.94	40502893.17	0.0143	0.0032
Venus	106181-09-02 23:59 G	40503119.30	40503119.50	40503119.71	0.0143	0.0050
Venus	106182-04-17 13:25 G	40503345.87	40503346.06	40503346.26	0.0143	0.0068
Venus	106182-11-30 02:52 G	40503572.44	40503572.62	40503572.80	0.0143	0.0087
Venus	106183-07-14 15:49 G	40503799.02	40503799.16	40503799.32	0.0143	0.0105
Venus	106184-02-26 04:47 G	40504025.61	40504025.70	40504025.84	0.0143	0.0124

Venus	106184-10-09 18:13 G	40504252.23	40504252.26	40504252.32	0.0143	0.0141
Mars	106189-09-23 13:25 G	40506061.99	40506062.06	40506062.20	0.0143	0.0136
Mercury	106206-03-29 07:40 G	40512091.73	40512091.82	40512091.93	0.0138	0.0116
Mercury	106206-06-25 15:06 G	40512180.00	40512180.13	40512180.29	0.0138	0.0089
Mercury	106206-09-21 22:47 G	40512268.29	40512268.45	40512268.63	0.0138	0.0062
Mercury	106206-12-19 06:28 G	40512356.59	40512356.77	40512356.96	0.0138	0.0034
Mercury	106207-03-17 14:08 G	40512444.90	40512445.09	40512445.29	0.0138	0.0007
Mercury	106207-06-13 21:49 G	40512533.22	40512533.41	40512533.60	0.0137	0.0021
Mercury	106207-09-10 05:30 G	40512621.55	40512621.73	40512621.91	0.0137	0.0049
Mercury	106207-12-07 12:56 G	40512709.89	40512710.04	40512710.21	0.0137	0.0077
Mercury	106208-03-04 20:23 G	40512798.24	40512798.35	40512798.49	0.0137	0.0105
Mercury	106208-06-01 04:18 G	40512886.64	40512886.68	40512886.74	0.0137	0.0131
Earth	106215-11-24 09:49 G	40515618.89	40515618.91	40515618.97	0.0135	0.0134
Venus	106216-05-21 02:37 G	40515797.53	40515797.61	40515797.69	0.0135	0.0125
Moon	106216-11-27 15:35 G	40515987.91	40515988.15	40515988.41	0.0135	0.0034
Earth	106216-11-27 17:44 G	40515988.01	40515988.24	40515988.49	0.0135	0.0042 *
Venus	106217-01-02 07:25 G	40516023.69	40516023.81	40516023.93	0.0135	0.0111
Venus	106217-08-16 11:59 G	40516249.87	40516250.00	40516250.16	0.0135	0.0097
Earth	106217-12-02 01:11 G	40516357.33	40516357.55	40516357.80	0.0135	0.0052
Moon	106217-12-02 03:06 G	40516357.41	40516357.63	40516357.87	0.0135	0.0045 *
Venus	106218-03-30 16:47 G	40516476.04	40516476.20	40516476.38	0.0135	0.0082
Venus	106218-11-11 21:35 G	40516702.22	40516702.40	40516702.59	0.0135	0.0067
Venus	106219-06-26 01:54 G	40516928.40	40516928.58	40516928.79	0.0135	0.0053
Venus	106220-02-07 06:42 G	40517154.58	40517154.78	40517154.99	0.0135	0.0038
Venus	106220-09-20 11:16 G	40517380.77	40517380.97	40517381.19	0.0135	0.0023
Venus	106221-05-04 15:49 G	40517606.95	40517607.16	40517607.38	0.0135	0.0008
Venus	106221-12-16 20:23 G	40517833.14	40517833.35	40517833.56	0.0135	0.0007
Venus	106222-07-31 00:42 G	40518059.32	40518059.53	40518059.74	0.0135	0.0022
Venus	106223-03-14 05:01 G	40518285.51	40518285.71	40518285.92	0.0135	0.0037
Venus	106223-10-26 09:49 G	40518511.72	40518511.91	40518512.11	0.0135	0.0051

Venus	106224-06-08 14:08 G	40518737.91	40518738.09	40518738.28	0.0135	0.0066
Venus	106225-01-20 18:42 G	40518964.11	40518964.28	40518964.45	0.0135	0.0080
Venus	106225-09-03 23:01 G	40519190.32	40519190.46	40519190.62	0.0135	0.0095
Venus	106226-04-18 03:20 G	40519416.53	40519416.64	40519416.78	0.0135	0.0109
Venus	106226-11-30 07:54 G	40519642.76	40519642.83	40519642.93	0.0135	0.0123
Mars	106232-01-02 05:59 G	40521501.48	40521501.75	40521502.03	0.0135	0.0003
Mercury	106249-03-29 23:30 G	40527798.45	40527798.48	40527798.53	0.0140	0.0133
Mercury	106249-06-26 03:06 G	40527886.55	40527886.63	40527886.71	0.0140	0.0113
Mercury	106249-09-22 06:28 G	40527974.68	40527974.77	40527974.87	0.0140	0.0093
Mercury	106249-12-19 10:04 G	40528062.80	40528062.92	40528063.03	0.0140	0.0072
Mercury	106250-03-17 13:25 G	40528150.94	40528151.06	40528151.18	0.0140	0.0052
Mercury	106250-06-13 16:47 G	40528239.07	40528239.20	40528239.33	0.0140	0.0032
Mercury	106250-09-09 20:23 G	40528327.21	40528327.35	40528327.48	0.0140	0.0013
Mercury	106250-12-06 23:44 G	40528415.36	40528415.49	40528415.62	0.0141	0.0008
Mercury	106251-03-05 03:06 G	40528503.50	40528503.63	40528503.76	0.0141	0.0028
Mercury	106251-06-01 06:28 G	40528591.65	40528591.77	40528591.90	0.0141	0.0049
Mercury	106251-08-28 09:49 G	40528679.80	40528679.91	40528680.03	0.0141	0.0069
Mercury	106251-11-24 13:11 G	40528767.96	40528768.05	40528768.16	0.0141	0.0089
Mercury	106252-02-20 16:32 G	40528856.12	40528856.19	40528856.28	0.0141	0.0109
Mercury	106252-05-18 19:54 G	40528944.29	40528944.33	40528944.40	0.0141	0.0129
Venus	106259-02-19 18:42 G	40531412.25	40531412.28	40531412.34	0.0143	0.0140
Earth	106259-05-26 09:49 G	40531507.72	40531507.91	40531508.14	0.0143	0.0080
Moon	106259-05-26 13:40 G	40531507.87	40531508.07	40531508.28	0.0143	0.0085 *
Venus	106259-10-04 07:11 G	40531638.71	40531638.80	40531638.93	0.0143	0.0123
Venus	106260-05-17 20:08 G	40531865.20	40531865.34	40531865.50	0.0143	0.0105
Moon	106260-05-30 06:42 G	40531877.54	40531877.78	40531878.04	0.0143	0.0035
Earth	106260-05-30 10:32 G	40531877.69	40531877.94	40531878.20	0.0143	0.0033 *
Venus	106260-12-30 08:52 G	40532091.70	40532091.87	40532092.05	0.0143	0.0087
Venus	106261-08-13 21:49 G	40532318.22	40532318.41	40532318.61	0.0143	0.0069
Venus	106262-03-28 10:47 G	40532544.76	40532544.95	40532545.17	0.0143	0.0051

Venus	106262-11-09 23:59 G	40532771.29	40532771.50	40532771.73	0.0143	0.0033
Venus	106263-06-24 13:25 G	40532997.83	40532998.06	40532998.28	0.0143	0.0014
Venus	106264-02-06 02:23 G	40533224.38	40533224.60	40533224.83	0.0143	0.0007
Venus	106264-09-19 15:49 G	40533450.94	40533451.16	40533451.38	0.0143	0.0024
Venus	106265-05-04 05:01 G	40533677.51	40533677.71	40533677.93	0.0143	0.0043
Venus	106265-12-16 18:28 G	40533904.07	40533904.27	40533904.47	0.0143	0.0062
Venus	106266-07-31 07:25 G	40534130.64	40534130.81	40534131.01	0.0143	0.0081
Venus	106267-03-14 20:52 G	40534357.22	40534357.37	40534357.54	0.0143	0.0099
Venus	106267-10-27 10:04 G	40534583.81	40534583.92	40534584.06	0.0143	0.0117
Venus	106268-06-09 23:16 G	40534810.41	40534810.47	40534810.56	0.0143	0.0134
Mercury	106290-01-20 07:25 G	40542704.79	40542704.81	40542704.85	0.0138	0.0136
Mercury	106290-04-18 14:52 G	40542793.02	40542793.12	40542793.25	0.0138	0.0109
Mercury	106290-07-15 22:47 G	40542881.30	40542881.45	40542881.61	0.0138	0.0081
Mercury	106290-10-12 06:13 G	40542969.59	40542969.76	40542969.95	0.0138	0.0054
Mercury	106291-01-08 13:54 G	40543057.90	40543058.08	40543058.28	0.0138	0.0027
Mercury	106291-04-06 21:35 G	40543146.21	40543146.40	40543146.60	0.0138	0.0004
Mercury	106291-07-04 05:16 G	40543234.53	40543234.72	40543234.91	0.0137	0.0029
Mercury	106291-09-30 12:56 G	40543322.87	40543323.04	40543323.22	0.0137	0.0057
Mercury	106291-12-27 20:23 G	40543411.21	40543411.35	40543411.51	0.0137	0.0085
Mercury	106292-03-25 04:18 G	40543499.57	40543499.68	40543499.79	0.0137	0.0112
Earth	106299-11-24 21:49 G	40546300.34	40546300.41	40546300.52	0.0135	0.0127
Moon	106299-11-24 21:20 G	40546300.37	40546300.39	40546300.45	0.0135	0.0134 *
Venus	106300-01-19 13:25 G	40546356.02	40546356.06	40546356.14	0.0135	0.0130
Venus	106300-09-02 18:56 G	40546582.18	40546582.29	40546582.40	0.0135	0.0115
Earth	106300-11-29 05:44 G	40546669.51	40546669.74	40546670.00	0.0135	0.0035
Moon	106300-11-29 06:13 G	40546669.52	40546669.76	40546670.00	0.0135	0.0028 *
Venus	106301-04-16 23:44 G	40546808.35	40546808.49	40546808.64	0.0135	0.0101
Venus	106301-11-29 04:18 G	40547034.53	40547034.68	40547034.86	0.0135	0.0086
Moon	106301-12-03 13:11 G	40547038.83	40547039.05	40547039.31	0.0135	0.0056
Earth	106301-12-03 13:25 G	40547038.85	40547039.06	40547039.30	0.0135	0.0059 *

Venus	106302-07-13 09:20 G	40547260.71	40547260.89	40547261.07	0.0135	0.0072
Venus	106303-02-24 13:40 G	40547486.89	40547487.07	40547487.27	0.0135	0.0057
Venus	106303-10-08 18:42 G	40547713.08	40547713.28	40547713.48	0.0135	0.0042
Venus	106304-05-21 23:16 G	40547939.26	40547939.47	40547939.68	0.0135	0.0027
Venus	106305-01-03 03:49 G	40548165.45	40548165.66	40548165.87	0.0135	0.0013
Venus	106305-08-17 08:23 G	40548391.63	40548391.85	40548392.06	0.0135	0.0003
Venus	106306-03-31 12:42 G	40548617.82	40548618.03	40548618.25	0.0135	0.0017
Venus	106306-11-12 17:16 G	40548844.02	40548844.22	40548844.43	0.0135	0.0032
Venus	106307-06-26 21:49 G	40549070.21	40549070.41	40549070.61	0.0135	0.0047
Venus	106308-02-08 01:54 G	40549296.41	40549296.58	40549296.79	0.0135	0.0062
Venus	106308-09-21 06:42 G	40549522.61	40549522.78	40549522.96	0.0135	0.0076
Venus	106309-05-05 11:16 G	40549748.82	40549748.97	40549749.13	0.0135	0.0090
Venus	106309-12-17 15:49 G	40549975.03	40549975.16	40549975.29	0.0135	0.0104
Venus	106310-07-31 20:08 G	40550201.24	40550201.34	40550201.44	0.0135	0.0118
Venus	106311-03-15 00:28 G	40550427.49	40550427.52	40550427.57	0.0135	0.0132
Mars	106316-08-27 10:18 G	40552419.81	40552419.93	40552420.07	0.0135	0.0119
Mercury	106333-04-20 06:56 G	40558499.74	40558499.79	40558499.85	0.0140	0.0127
Mercury	106333-07-17 10:18 G	40558587.86	40558587.93	40558588.03	0.0140	0.0107
Mercury	106333-10-13 13:54 G	40558675.98	40558676.08	40558676.19	0.0140	0.0087
Mercury	106334-01-09 17:16 G	40558764.11	40558764.22	40558764.34	0.0140	0.0067
Mercury	106334-04-07 20:52 G	40558852.25	40558852.37	40558852.50	0.0140	0.0047
Mercury	106334-07-05 00:13 G	40558940.38	40558940.51	40558940.64	0.0140	0.0027
Mercury	106334-10-01 03:49 G	40559028.52	40559028.66	40559028.79	0.0140	0.0008
Mercury	106334-12-28 07:11 G	40559116.67	40559116.80	40559116.93	0.0141	0.0014
Mercury	106335-03-26 10:32 G	40559204.81	40559204.94	40559205.07	0.0141	0.0034
Mercury	106335-06-22 13:54 G	40559292.96	40559293.08	40559293.21	0.0141	0.0054
Mercury	106335-09-18 17:16 G	40559381.11	40559381.22	40559381.34	0.0141	0.0074
Mercury	106335-12-15 20:37 G	40559469.27	40559469.36	40559469.46	0.0141	0.0094
Mercury	106336-03-12 23:59 G	40559557.43	40559557.50	40559557.58	0.0141	0.0114
Mercury	106336-06-09 03:20 G	40559645.61	40559645.64	40559645.69	0.0141	0.0134

Moon	106343-05-27 17:01 G	40562189.00	40562189.21	40562189.44	0.0143	0.0076
Earth	106343-05-27 19:54 G	40562189.13	40562189.33	40562189.56	0.0143	0.0075 *
Venus	106343-06-04 12:42 G	40562196.95	40562197.03	40562197.14	0.0143	0.0129
Venus	106344-01-17 01:40 G	40562423.43	40562423.57	40562423.71	0.0143	0.0111
Earth	106344-05-31 20:08 G	40562559.10	40562559.34	40562559.60	0.0143	0.0038
Moon	106344-05-31 23:16 G	40562559.23	40562559.47	40562559.72	0.0143	0.0035 *
Venus	106344-08-30 14:08 G	40562649.94	40562650.09	40562650.27	0.0143	0.0094
Venus	106345-04-14 03:20 G	40562876.45	40562876.64	40562876.83	0.0143	0.0075
Venus	106345-11-26 16:18 G	40563102.98	40563103.18	40563103.39	0.0143	0.0057
Venus	106346-07-11 05:16 G	40563329.51	40563329.72	40563329.94	0.0143	0.0039
Venus	106347-02-22 18:28 G	40563556.05	40563556.27	40563556.49	0.0143	0.0020
Venus	106347-10-07 07:40 G	40563782.60	40563782.82	40563783.05	0.0143	0.0002
Venus	106348-05-20 20:52 G	40564009.15	40564009.37	40564009.60	0.0143	0.0018
Venus	106349-01-02 10:04 G	40564235.71	40564235.92	40564236.14	0.0143	0.0036
Venus	106349-08-16 23:30 G	40564462.27	40564462.48	40564462.68	0.0143	0.0055
Venus	106350-03-31 12:42 G	40564688.85	40564689.03	40564689.23	0.0143	0.0073
Venus	106350-11-13 01:54 G	40564915.42	40564915.58	40564915.76	0.0143	0.0092
Venus	106351-06-27 15:06 G	40565142.00	40565142.13	40565142.28	0.0143	0.0110
Venus	106352-02-09 04:04 G	40565368.59	40565368.67	40565368.79	0.0143	0.0128
Mars	106357-02-09 01:54 G	40567195.25	40567195.58	40567195.93	0.0143	0.0020
Mercury	106374-02-10 14:37 G	40573406.06	40573406.11	40573406.19	0.0138	0.0129
Mercury	106374-05-09 22:04 G	40573494.31	40573494.42	40573494.57	0.0138	0.0102
Mercury	106374-08-06 05:59 G	40573582.59	40573582.75	40573582.92	0.0138	0.0074
Mercury	106374-11-02 13:40 G	40573670.89	40573671.07	40573671.25	0.0138	0.0046
Mercury	106375-01-29 21:20 G	40573759.20	40573759.39	40573759.58	0.0138	0.0019
Mercury	106375-04-28 05:01 G	40573847.52	40573847.71	40573847.90	0.0138	0.0009
Mercury	106375-07-25 12:28 G	40573935.84	40573936.02	40573936.21	0.0137	0.0037
Mercury	106375-10-21 20:08 G	40574024.18	40574024.34	40574024.52	0.0137	0.0064
Mercury	106376-01-18 03:49 G	40574112.53	40574112.66	40574112.81	0.0137	0.0092
Mercury	106376-04-15 11:30 G	40574200.90	40574200.98	40574201.08	0.0137	0.0119

Venus	106383-09-20 00:42 G	40576914.51	40576914.53	40576914.59	0.0136	0.0134
Moon	106383-11-26 07:54 G	40576981.75	40576981.83	40576981.93	0.0136	0.0126
Earth	106383-11-26 09:20 G	40576981.80	40576981.89	40576982.02	0.0136	0.0121 *
Venus	106384-05-03 05:44 G	40577140.66	40577140.74	40577140.86	0.0135	0.0120
Earth	106384-11-29 17:44 G	40577350.99	40577351.24	40577351.49	0.0135	0.0027
Moon	106384-11-29 19:54 G	40577351.08	40577351.33	40577351.59	0.0135	0.0027 *
Venus	106384-12-15 11:01 G	40577366.83	40577366.96	40577367.10	0.0135	0.0105
Venus	106385-07-29 15:49 G	40577593.01	40577593.16	40577593.32	0.0135	0.0090
Moon	106385-12-03 23:16 G	40577720.27	40577720.47	40577720.70	0.0135	0.0067
Earth	106385-12-04 01:25 G	40577720.35	40577720.56	40577720.79	0.0135	0.0065 *
Venus	106386-03-12 20:23 G	40577819.19	40577819.35	40577819.54	0.0135	0.0076
Venus	106386-10-25 01:25 G	40578045.38	40578045.56	40578045.75	0.0135	0.0061
Venus	106387-06-08 06:13 G	40578271.56	40578271.76	40578271.96	0.0135	0.0046
Venus	106388-01-20 10:47 G	40578497.75	40578497.95	40578498.16	0.0135	0.0032
Venus	106388-09-02 15:35 G	40578723.94	40578724.15	40578724.36	0.0135	0.0017
Venus	106389-04-16 20:08 G	40578950.13	40578950.34	40578950.55	0.0135	0.0002
Venus	106389-11-29 00:42 G	40579176.32	40579176.53	40579176.74	0.0135	0.0013
Venus	106390-07-13 05:01 G	40579402.51	40579402.71	40579402.92	0.0135	0.0028
Venus	106391-02-24 09:35 G	40579628.70	40579628.90	40579629.11	0.0135	0.0042
Venus	106391-10-08 14:08 G	40579854.90	40579855.09	40579855.29	0.0135	0.0057
Venus	106392-05-21 18:42 G	40580081.10	40580081.28	40580081.46	0.0135	0.0071
Venus	106393-01-02 22:47 G	40580307.30	40580307.45	40580307.63	0.0135	0.0086
Venus	106393-08-17 03:20 G	40580533.51	40580533.64	40580533.79	0.0135	0.0100
Venus	106394-03-31 07:40 G	40580759.72	40580759.82	40580759.95	0.0135	0.0114
Venus	106394-11-12 12:13 G	40580985.96	40580986.01	40580986.09	0.0135	0.0128
Mars	106399-05-23 20:23 G	40582639.11	40582639.35	40582639.61	0.0135	0.0061
Jupiter	106417-01-08 16:18 G	40589078.85	40589079.18	40589079.56	0.0140	0.0101
Mercury	106417-05-10 14:23 G	40589201.05	40589201.10	40589201.18	0.0140	0.0121
Mercury	106417-08-06 18:13 G	40589289.17	40589289.26	40589289.35	0.0140	0.0100
Mercury	106417-11-02 21:35 G	40589377.29	40589377.40	40589377.51	0.0140	0.0080

Mercury	106418-01-30 00:56 G	40589465.42	40589465.54	40589465.66	0.0140	0.0061
Mercury	106418-04-28 04:32 G	40589553.56	40589553.69	40589553.81	0.0140	0.0040
Mercury	106418-07-25 07:54 G	40589641.70	40589641.83	40589641.96	0.0140	0.0020
Mercury	106418-10-21 11:16 G	40589729.84	40589729.97	40589730.10	0.0140	0.0002
Mercury	106419-01-17 14:37 G	40589817.98	40589818.11	40589818.24	0.0140	0.0020
Mercury	106419-04-15 17:59 G	40589906.13	40589906.25	40589906.38	0.0140	0.0040
Mercury	106419-07-12 21:35 G	40589994.28	40589994.40	40589994.52	0.0141	0.0060
Mercury	106419-10-09 00:56 G	40590082.43	40590082.54	40590082.65	0.0141	0.0080
Mercury	106420-01-05 04:18 G	40590170.59	40590170.68	40590170.77	0.0141	0.0100
Mercury	106420-04-02 07:40 G	40590258.76	40590258.82	40590258.89	0.0141	0.0120
Mercury	106420-06-29 10:47 G	40590346.95	40590346.95	40590346.98	0.0141	0.0140
Venus	106427-02-01 19:11 G	40592755.23	40592755.30	40592755.37	0.0143	0.0134
Earth	106427-05-28 06:28 G	40592870.55	40592870.77	40592871.00	0.0143	0.0069
Moon	106427-05-28 07:11 G	40592870.59	40592870.80	40592871.03	0.0143	0.0064 *
Venus	106427-09-16 07:25 G	40592981.70	40592981.81	40592981.95	0.0143	0.0117
Venus	106428-04-29 19:54 G	40593208.19	40593208.33	40593208.51	0.0143	0.0100
Moon	106428-06-01 05:44 G	40593240.49	40593240.74	40593241.00	0.0143	0.0037
Earth	106428-06-01 06:28 G	40593240.54	40593240.77	40593241.02	0.0143	0.0044 *
Venus	106428-12-12 08:52 G	40593434.70	40593434.87	40593435.06	0.0143	0.0082
Venus	106429-07-26 21:35 G	40593661.21	40593661.40	40593661.61	0.0143	0.0064
Venus	106430-03-10 10:47 G	40593887.75	40593887.95	40593888.17	0.0143	0.0045
Venus	106430-10-22 23:44 G	40594114.28	40594114.49	40594114.72	0.0143	0.0027
Venus	106431-06-06 12:56 G	40594340.82	40594341.04	40594341.27	0.0143	0.0008
Venus	106432-01-19 02:08 G	40594567.37	40594567.59	40594567.81	0.0143	0.0010
Venus	106432-09-01 15:06 G	40594793.92	40594794.13	40594794.35	0.0143	0.0029
Venus	106433-04-16 04:32 G	40595020.48	40595020.69	40595020.90	0.0143	0.0047
Venus	106433-11-28 17:30 G	40595247.04	40595247.23	40595247.44	0.0143	0.0066
Venus	106434-07-13 06:28 G	40595473.61	40595473.77	40595473.97	0.0143	0.0085
Venus	106435-02-24 19:40 G	40595700.18	40595700.32	40595700.49	0.0143	0.0103
Venus	106435-10-09 08:37 G	40595926.76	40595926.86	40595927.00	0.0143	0.0121

Venus	106436-05-22 22:04 G	40596153.37	40596153.42	40596153.49	0.0143	0.0137
Mercury	106458-03-02 21:20 G	40604107.32	40604107.39	40604107.48	0.0138	0.0124
Mercury	106458-05-30 04:47 G	40604195.58	40604195.70	40604195.85	0.0138	0.0097
Mercury	106458-08-26 12:42 G	40604283.86	40604284.03	40604284.20	0.0138	0.0069
Mercury	106458-11-22 20:08 G	40604372.16	40604372.34	40604372.53	0.0138	0.0042
Mercury	106459-02-19 03:49 G	40604460.47	40604460.66	40604460.86	0.0138	0.0014
Mercury	106459-05-18 11:30 G	40604548.79	40604548.98	40604549.17	0.0138	0.0014
Mercury	106459-08-14 19:11 G	40604637.12	40604637.30	40604637.49	0.0138	0.0041
Mercury	106459-11-11 02:52 G	40604725.46	40604725.62	40604725.79	0.0137	0.0069
Mercury	106460-02-07 10:18 G	40604813.81	40604813.93	40604814.08	0.0137	0.0097
Mercury	106460-05-05 17:59 G	40604902.18	40604902.25	40604902.34	0.0137	0.0124
Earth	106467-11-26 18:56 G	40607663.18	40607663.29	40607663.44	0.0136	0.0117
Moon	106467-11-26 22:32 G	40607663.32	40607663.44	40607663.58	0.0136	0.0115 *
Venus	106468-01-01 15:49 G	40607699.09	40607699.16	40607699.25	0.0136	0.0124
Venus	106468-08-14 20:52 G	40607925.26	40607925.37	40607925.51	0.0136	0.0110
Moon	106468-11-29 23:59 G	40608032.26	40608032.50	40608032.75	0.0135	0.0028
Earth	106468-11-30 03:35 G	40608032.41	40608032.65	40608032.90	0.0135	0.0023 *
Venus	106469-03-29 01:40 G	40608151.44	40608151.57	40608151.74	0.0135	0.0096
Venus	106469-11-10 06:56 G	40608377.63	40608377.79	40608377.97	0.0135	0.0080
Earth	106469-12-04 11:16 G	40608401.77	40608401.97	40608402.20	0.0135	0.0071
Moon	106469-12-04 15:06 G	40608401.92	40608402.13	40608402.34	0.0135	0.0077 *
Venus	106470-06-24 11:30 G	40608603.81	40608603.98	40608604.18	0.0135	0.0067
Venus	106471-02-05 16:32 G	40608830.00	40608830.19	40608830.39	0.0135	0.0051
Venus	106471-09-19 21:35 G	40609056.20	40609056.40	40609056.61	0.0135	0.0036
Venus	106472-05-03 02:08 G	40609282.39	40609282.59	40609282.81	0.0135	0.0022
Venus	106472-12-15 06:56 G	40609508.58	40609508.79	40609509.00	0.0135	0.0007
Venus	106473-07-29 11:30 G	40609734.77	40609734.98	40609735.19	0.0135	0.0008
Venus	106474-03-12 16:04 G	40609960.96	40609961.17	40609961.38	0.0135	0.0023
Venus	106474-10-24 20:37 G	40610187.16	40610187.36	40610187.57	0.0135	0.0038
Venus	106475-06-08 01:11 G	40610413.36	40610413.55	40610413.75	0.0135	0.0052

Venus	106476-01-20 05:30 G	40610639.56	40610639.73	40610639.93	0.0135	0.0067
Venus	106476-09-02 10:04 G	40610865.76	40610865.92	40610866.10	0.0135	0.0081
Venus	106477-04-16 14:37 G	40611091.97	40611092.11	40611092.27	0.0135	0.0095
Venus	106477-11-28 18:56 G	40611318.18	40611318.29	40611318.43	0.0135	0.0109
Venus	106478-07-12 23:30 G	40611544.41	40611544.48	40611544.58	0.0135	0.0123
Mars	106484-01-15 23:59 G	40613557.25	40613557.50	40613557.76	0.0135	0.0056
Mercury	106501-03-04 18:42 G	40619814.25	40619814.28	40619814.32	0.0140	0.0134
Mercury	106501-05-31 22:04 G	40619902.36	40619902.42	40619902.51	0.0140	0.0114
Mercury	106501-08-28 01:40 G	40619990.48	40619990.57	40619990.67	0.0140	0.0094
Mercury	106501-11-24 05:01 G	40620078.61	40620078.71	40620078.83	0.0140	0.0074
Mercury	106502-02-20 08:37 G	40620166.74	40620166.86	40620166.99	0.0140	0.0054
Mercury	106502-05-19 11:59 G	40620254.88	40620255.00	40620255.13	0.0140	0.0034
Mercury	106502-08-15 15:35 G	40620343.02	40620343.15	40620343.28	0.0140	0.0014
Mercury	106502-11-11 18:56 G	40620431.16	40620431.29	40620431.42	0.0140	0.0006
Mercury	106503-02-07 22:18 G	40620519.30	40620519.43	40620519.56	0.0140	0.0026
Mercury	106503-05-07 01:40 G	40620607.45	40620607.57	40620607.70	0.0140	0.0046
Mercury	106503-08-03 05:01 G	40620695.60	40620695.71	40620695.83	0.0141	0.0066
Mercury	106503-10-30 08:23 G	40620783.75	40620783.85	40620783.96	0.0141	0.0086
Mercury	106504-01-26 11:44 G	40620871.91	40620871.99	40620872.08	0.0141	0.0106
Mercury	106504-04-23 15:20 G	40620960.08	40620960.14	40620960.19	0.0141	0.0126
Venus	106510-10-03 02:08 G	40623313.55	40623313.59	40623313.64	0.0142	0.0139
Venus	106511-05-17 14:23 G	40623540.00	40623540.10	40623540.22	0.0143	0.0122
Earth	106511-05-29 18:13 G	40623552.04	40623552.26	40623552.50	0.0143	0.0062
Moon	106511-05-29 20:08 G	40623552.10	40623552.34	40623552.59	0.0143	0.0054 *
Venus	106511-12-30 02:52 G	40623766.48	40623766.62	40623766.78	0.0143	0.0105
Moon	106512-06-02 16:47 G	40623921.97	40623922.20	40623922.45	0.0143	0.0044
Earth	106512-06-02 18:28 G	40623922.04	40623922.27	40623922.52	0.0143	0.0051 *
Venus	106512-08-12 15:35 G	40623992.98	40623993.15	40623993.34	0.0143	0.0087
Venus	106513-03-27 04:32 G	40624219.50	40624219.69	40624219.89	0.0143	0.0069
Venus	106513-11-08 17:30 G	40624446.03	40624446.23	40624446.44	0.0143	0.0051

Venus	106514-06-23 06:13 G	40624672.55	40624672.76	40624672.99	0.0143	0.0033
Venus	106515-02-04 19:25 G	40624899.09	40624899.31	40624899.53	0.0143	0.0014
Venus	106515-09-19 08:37 G	40625125.63	40625125.86	40625126.08	0.0143	0.0005
Venus	106516-05-02 21:35 G	40625352.19	40625352.40	40625352.63	0.0143	0.0024
Venus	106516-12-15 10:47 G	40625578.74	40625578.95	40625579.17	0.0143	0.0041
Venus	106517-07-29 23:44 G	40625805.30	40625805.49	40625805.70	0.0143	0.0060
Venus	106518-03-13 12:56 G	40626031.86	40626032.04	40626032.23	0.0143	0.0078
Venus	106518-10-26 01:54 G	40626258.43	40626258.58	40626258.76	0.0143	0.0096
Venus	106519-06-09 14:52 G	40626485.01	40626485.12	40626485.27	0.0143	0.0115
Venus	106520-01-22 04:04 G	40626711.60	40626711.67	40626711.77	0.0143	0.0131
Mars	106524-06-26 13:40 G	40628328.83	40628329.07	40628329.35	0.0143	0.0095
Mercury	106542-03-24 04:32 G	40634808.60	40634808.69	40634808.79	0.0138	0.0117
Mercury	106542-06-20 11:59 G	40634896.87	40634897.00	40634897.16	0.0138	0.0090
Mercury	106542-09-16 19:54 G	40634985.16	40634985.33	40634985.50	0.0138	0.0062
Mercury	106542-12-14 03:20 G	40635073.46	40635073.64	40635073.83	0.0138	0.0035
Mercury	106543-03-12 11:01 G	40635161.77	40635161.96	40635162.15	0.0138	0.0007
Mercury	106543-06-08 18:42 G	40635250.09	40635250.28	40635250.47	0.0138	0.0021
Mercury	106543-09-05 02:08 G	40635338.42	40635338.59	40635338.78	0.0138	0.0048
Mercury	106543-12-02 09:49 G	40635426.76	40635426.91	40635427.08	0.0137	0.0076
Mercury	106544-02-28 17:30 G	40635515.11	40635515.23	40635515.36	0.0137	0.0104
Mercury	106544-05-27 00:56 G	40635603.50	40635603.54	40635603.61	0.0137	0.0132
Venus	106551-09-02 02:08 G	40638257.53	40638257.59	40638257.67	0.0136	0.0128
Moon	106551-11-28 02:23 G	40638344.45	40638344.60	40638344.76	0.0136	0.0106
Earth	106551-11-28 05:30 G	40638344.60	40638344.73	40638344.88	0.0136	0.0112 *
Venus	106552-04-15 07:11 G	40638483.70	40638483.80	40638483.93	0.0136	0.0114
Venus	106552-11-27 12:13 G	40638709.88	40638710.01	40638710.17	0.0135	0.0100
Earth	106552-12-01 14:08 G	40638713.84	40638714.09	40638714.34	0.0135	0.0018
Moon	106552-12-01 17:16 G	40638713.98	40638714.22	40638714.47	0.0135	0.0026 *
Venus	106553-07-11 17:30 G	40638936.07	40638936.23	40638936.40	0.0135	0.0085
Moon	106553-12-05 18:42 G	40639083.09	40639083.28	40639083.49	0.0135	0.0083

Earth	106553-12-05 22:04 G	40639083.22	40639083.42	40639083.64	0.0135	0.0075	*
Venus	106554-02-22 22:18 G	40639162.26	40639162.43	40639162.62	0.0135	0.0070	
Venus	106554-10-07 03:20 G	40639388.45	40639388.64	40639388.84	0.0135	0.0056	
Venus	106555-05-21 08:23 G	40639614.65	40639614.85	40639615.05	0.0135	0.0041	
Venus	106556-01-02 12:56 G	40639840.84	40639841.04	40639841.26	0.0135	0.0026	
Venus	106556-08-15 17:44 G	40640067.03	40640067.24	40640067.46	0.0135	0.0011	
Venus	106557-03-29 22:32 G	40640293.23	40640293.44	40640293.65	0.0135	0.0004	
Venus	106557-11-11 03:06 G	40640519.42	40640519.63	40640519.85	0.0135	0.0019	
Venus	106558-06-25 07:40 G	40640745.62	40640745.82	40640746.03	0.0135	0.0033	
Venus	106559-02-06 11:59 G	40640971.81	40640972.00	40640972.21	0.0135	0.0048	
Venus	106559-09-20 16:47 G	40641198.02	40641198.20	40641198.39	0.0135	0.0062	
Venus	106560-05-03 21:06 G	40641424.22	40641424.38	40641424.57	0.0135	0.0077	
Venus	106560-12-16 01:25 G	40641650.42	40641650.56	40641650.73	0.0135	0.0091	
Venus	106561-07-30 05:59 G	40641876.63	40641876.75	40641876.90	0.0135	0.0105	
Venus	106562-03-13 10:18 G	40642102.85	40642102.93	40642103.05	0.0135	0.0119	
Venus	106562-10-25 15:06 G	40642329.11	40642329.13	40642329.19	0.0135	0.0132	
Mars	106566-10-12 08:52 G	40643776.79	40643776.87	40643776.99	0.0135	0.0127	
Mercury	106585-03-25 02:23 G	40650515.55	40650515.60	40650515.66	0.0140	0.0127	
Mercury	106585-06-21 05:44 G	40650603.67	40650603.74	40650603.84	0.0140	0.0107	
Mercury	106585-09-17 09:20 G	40650691.79	40650691.89	40650692.00	0.0140	0.0087	
Mercury	106585-12-14 12:42 G	40650779.92	40650780.03	40650780.16	0.0140	0.0067	
Mercury	106586-03-12 16:18 G	40650868.06	40650868.18	40650868.31	0.0140	0.0047	
Mercury	106586-06-08 19:40 G	40650956.20	40650956.32	40650956.46	0.0140	0.0027	
Mercury	106586-09-04 23:16 G	40651044.34	40651044.47	40651044.60	0.0140	0.0007	
Mercury	106586-12-02 02:37 G	40651132.48	40651132.61	40651132.74	0.0140	0.0013	
Mercury	106587-02-28 05:59 G	40651220.62	40651220.75	40651220.88	0.0140	0.0033	
Mercury	106587-05-27 09:20 G	40651308.77	40651308.89	40651309.02	0.0141	0.0053	
Mercury	106587-08-23 12:42 G	40651396.92	40651397.03	40651397.15	0.0141	0.0073	
Mercury	106587-11-19 16:04 G	40651485.08	40651485.17	40651485.27	0.0141	0.0093	
Mercury	106588-02-15 19:25 G	40651573.24	40651573.31	40651573.39	0.0141	0.0113	

Mercury	106588-05-13 22:47 G	40651661.42	40651661.45	40651661.50	0.0141	0.0133
Venus	106595-01-14 21:35 G	40654098.32	40654098.40	40654098.52	0.0142	0.0127
Moon	106595-05-30 03:49 G	40654233.43	40654233.66	40654233.90	0.0142	0.0048
Earth	106595-05-30 06:56 G	40654233.57	40654233.79	40654234.04	0.0142	0.0055 *
Venus	106595-08-29 10:04 G	40654324.80	40654324.92	40654325.08	0.0142	0.0110
Venus	106596-04-11 23:01 G	40654551.30	40654551.46	40654551.64	0.0143	0.0092
Earth	106596-06-03 07:11 G	40654603.56	40654603.80	40654604.03	0.0143	0.0058
Moon	106596-06-03 10:04 G	40654603.70	40654603.92	40654604.18	0.0143	0.0056 *
Venus	106596-11-24 11:44 G	40654777.81	40654777.99	40654778.19	0.0143	0.0074
Venus	106597-07-09 00:42 G	40655004.32	40655004.53	40655004.73	0.0143	0.0056
Venus	106598-02-20 13:25 G	40655230.85	40655231.06	40655231.28	0.0143	0.0038
Venus	106598-10-05 02:23 G	40655457.38	40655457.60	40655457.83	0.0143	0.0020
Venus	106599-05-19 15:35 G	40655683.92	40655684.15	40655684.37	0.0143	0.0002
Venus	106600-01-01 04:32 G	40655910.47	40655910.69	40655910.91	0.0143	0.0017
Venus	106600-08-15 17:16 G	40656137.02	40656137.22	40656137.45	0.0143	0.0036
Venus	106601-03-30 06:28 G	40656363.57	40656363.77	40656363.99	0.0143	0.0054
Venus	106601-11-11 19:40 G	40656590.13	40656590.32	40656590.52	0.0143	0.0072
Venus	106602-06-26 08:37 G	40656816.70	40656816.86	40656817.04	0.0143	0.0090
Venus	106603-02-07 21:20 G	40657043.26	40657043.39	40657043.55	0.0143	0.0109
Venus	106603-09-22 10:32 G	40657269.85	40657269.94	40657270.06	0.0143	0.0126
Venus	106604-05-05 23:44 G	40657496.48	40657496.49	40657496.51	0.0143	0.0143
Mars	106609-02-22 08:37 G	40659249.60	40659249.86	40659250.17	0.0143	0.0079
Jupiter	106624-10-30 05:44 G	40664978.34	40664978.74	40664979.18	0.0138	0.0083
Mercury	106626-01-16 04:04 G	40665421.67	40665421.67	40665421.68	0.0138	0.0138
Mercury	106626-04-14 11:16 G	40665509.88	40665509.97	40665510.10	0.0138	0.0111
Mercury	106626-07-11 19:11 G	40665598.15	40665598.30	40665598.46	0.0138	0.0083
Mercury	106626-10-08 02:37 G	40665686.44	40665686.61	40665686.79	0.0138	0.0056
Mercury	106627-01-04 10:18 G	40665774.75	40665774.93	40665775.12	0.0138	0.0029
Mercury	106627-04-02 17:59 G	40665863.06	40665863.25	40665863.45	0.0138	0.0003
Mercury	106627-06-30 01:40 G	40665951.38	40665951.57	40665951.76	0.0138	0.0027

Mercury	106627-09-26 09:06 G	40666039.71	40666039.88	40666040.07	0.0138	0.0055
Mercury	106627-12-23 16:47 G	40666128.05	40666128.20	40666128.36	0.0137	0.0082
Mercury	106628-03-21 00:28 G	40666216.41	40666216.52	40666216.64	0.0137	0.0110
Mercury	106628-06-17 08:08 G	40666304.84	40666304.84	40666304.86	0.0137	0.0137
Venus	106635-05-03 11:59 G	40668815.97	40668816.00	40668816.06	0.0136	0.0132
Earth	106635-11-29 15:20 G	40669026.00	40669026.14	40669026.31	0.0136	0.0108
Moon	106635-11-29 16:47 G	40669026.05	40669026.20	40669026.38	0.0136	0.0101 *
Venus	106635-12-15 17:16 G	40669042.13	40669042.22	40669042.34	0.0136	0.0118
Venus	106636-07-28 22:18 G	40669268.31	40669268.43	40669268.58	0.0136	0.0104
Moon	106636-12-02 22:18 G	40669395.18	40669395.43	40669395.69	0.0135	0.0020
Earth	106636-12-03 00:13 G	40669395.26	40669395.51	40669395.76	0.0135	0.0013 *
Venus	106637-03-12 03:49 G	40669494.50	40669494.66	40669494.82	0.0135	0.0089
Venus	106637-10-24 08:37 G	40669720.69	40669720.86	40669721.05	0.0135	0.0075
Earth	106637-12-07 07:54 G	40669764.65	40669764.83	40669765.05	0.0135	0.0080
Moon	106637-12-07 09:49 G	40669764.73	40669764.91	40669765.11	0.0135	0.0084 *
Venus	106638-06-07 13:54 G	40669946.89	40669947.08	40669947.27	0.0135	0.0060
Venus	106639-01-19 18:28 G	40670173.08	40670173.27	40670173.48	0.0135	0.0046
Venus	106639-09-02 23:30 G	40670399.28	40670399.48	40670399.69	0.0135	0.0030
Venus	106640-04-16 04:18 G	40670625.47	40670625.68	40670625.90	0.0135	0.0016
Venus	106640-11-28 09:06 G	40670851.67	40670851.88	40670852.09	0.0135	0.0001
Venus	106641-07-12 13:40 G	40671077.86	40671078.07	40671078.28	0.0135	0.0014
Venus	106642-02-23 18:13 G	40671304.05	40671304.26	40671304.47	0.0135	0.0029
Venus	106642-10-07 23:01 G	40671530.26	40671530.46	40671530.66	0.0135	0.0043
Venus	106643-05-22 03:20 G	40671756.46	40671756.64	40671756.84	0.0135	0.0058
Venus	106644-01-03 07:40 G	40671982.65	40671982.82	40671983.01	0.0135	0.0072
Venus	106644-08-16 12:13 G	40672208.86	40672209.01	40672209.18	0.0135	0.0086
Venus	106645-03-30 16:47 G	40672435.07	40672435.20	40672435.35	0.0135	0.0100
Venus	106645-11-11 21:20 G	40672661.29	40672661.39	40672661.51	0.0135	0.0114
Venus	106646-06-26 01:40 G	40672887.53	40672887.57	40672887.66	0.0135	0.0128
Mars	106651-06-07 11:59 G	40674694.72	40674695.00	40674695.28	0.0135	0.0012

Mercury	106669-04-15 10:04 G	40681216.85	40681216.92	40681216.99	0.0140	0.0120
Mercury	106669-07-12 13:25 G	40681304.97	40681305.06	40681305.16	0.0140	0.0101
Mercury	106669-10-08 17:01 G	40681393.10	40681393.21	40681393.32	0.0140	0.0080
Mercury	106670-01-04 20:23 G	40681481.23	40681481.35	40681481.47	0.0140	0.0060
Mercury	106670-04-02 23:44 G	40681569.37	40681569.49	40681569.62	0.0140	0.0041
Mercury	106670-06-30 03:20 G	40681657.51	40681657.64	40681657.77	0.0140	0.0021
Mercury	106670-09-26 06:42 G	40681745.65	40681745.78	40681745.91	0.0140	0.0001
Mercury	106670-12-23 10:04 G	40681833.79	40681833.92	40681834.05	0.0140	0.0020
Mercury	106671-03-21 13:25 G	40681921.94	40681922.06	40681922.19	0.0141	0.0040
Mercury	106671-06-17 16:47 G	40682010.09	40682010.20	40682010.33	0.0141	0.0060
Mercury	106671-09-13 20:08 G	40682098.24	40682098.34	40682098.46	0.0141	0.0080
Mercury	106671-12-10 23:44 G	40682186.40	40682186.49	40682186.58	0.0141	0.0099
Mercury	106672-03-08 03:06 G	40682274.56	40682274.63	40682274.70	0.0141	0.0119
Mercury	106672-06-04 06:13 G	40682362.75	40682362.76	40682362.79	0.0141	0.0139
Venus	106678-09-15 04:47 G	40684656.63	40684656.70	40684656.80	0.0142	0.0131
Venus	106679-04-29 17:44 G	40684883.10	40684883.24	40684883.37	0.0142	0.0114
Earth	106679-05-31 18:56 G	40684915.06	40684915.29	40684915.54	0.0142	0.0048
Moon	106679-05-31 23:01 G	40684915.22	40684915.46	40684915.70	0.0142	0.0046 *
Venus	106679-12-12 05:59 G	40685109.60	40685109.75	40685109.92	0.0143	0.0097
Moon	106680-06-04 15:49 G	40685284.94	40685285.16	40685285.40	0.0143	0.0068
Earth	106680-06-04 19:11 G	40685285.08	40685285.30	40685285.54	0.0143	0.0065 *
Venus	106680-07-25 18:42 G	40685336.10	40685336.28	40685336.47	0.0143	0.0079
Venus	106681-03-09 07:40 G	40685562.62	40685562.82	40685563.02	0.0143	0.0061
Venus	106681-10-21 20:23 G	40685789.14	40685789.35	40685789.57	0.0143	0.0043
Venus	106682-06-05 09:20 G	40686015.67	40686015.89	40686016.11	0.0143	0.0025
Venus	106683-01-17 22:18 G	40686242.20	40686242.43	40686242.65	0.0143	0.0007
Venus	106683-09-01 11:16 G	40686468.75	40686468.97	40686469.19	0.0143	0.0012
Venus	106684-04-15 00:13 G	40686695.30	40686695.51	40686695.73	0.0143	0.0030
Venus	106684-11-27 13:25 G	40686921.85	40686922.06	40686922.27	0.0143	0.0048
Venus	106685-07-12 02:23 G	40687148.40	40687148.60	40687148.80	0.0143	0.0067

Venus	106686-02-23 15:06 G	40687374.96	40687375.13	40687375.32	0.0143	0.0085
Venus	106686-10-08 04:18 G	40687601.53	40687601.68	40687601.84	0.0143	0.0103
Venus	106687-05-22 17:16 G	40687828.12	40687828.22	40687828.35	0.0143	0.0120
Venus	106688-01-04 06:28 G	40688054.72	40688054.77	40688054.84	0.0143	0.0137
Mercury	106710-02-06 11:30 G	40696122.93	40696122.98	40696123.06	0.0138	0.0129
Mercury	106710-05-05 19:11 G	40696211.18	40696211.30	40696211.44	0.0138	0.0102
Mercury	106710-08-02 02:52 G	40696299.47	40696299.62	40696299.79	0.0138	0.0074
Mercury	106710-10-29 10:32 G	40696387.76	40696387.94	40696388.12	0.0138	0.0047
Mercury	106711-01-25 17:59 G	40696476.07	40696476.25	40696476.45	0.0138	0.0020
Mercury	106711-04-24 01:40 G	40696564.38	40696564.57	40696564.77	0.0138	0.0009
Mercury	106711-07-21 09:20 G	40696652.71	40696652.89	40696653.08	0.0138	0.0036
Mercury	106711-10-17 16:47 G	40696741.04	40696741.20	40696741.38	0.0138	0.0064
Mercury	106712-01-14 00:28 G	40696829.38	40696829.52	40696829.67	0.0137	0.0091
Mercury	106712-04-11 07:54 G	40696917.75	40696917.83	40696917.94	0.0137	0.0119
Venus	106719-01-01 23:01 G	40699374.46	40699374.46	40699374.48	0.0136	0.0136
Venus	106719-08-16 04:04 G	40699600.60	40699600.67	40699600.78	0.0136	0.0122
Earth	106719-12-01 02:52 G	40699707.47	40699707.62	40699707.80	0.0136	0.0102
Moon	106719-12-01 03:35 G	40699707.49	40699707.65	40699707.85	0.0136	0.0098 *
Venus	106720-03-29 09:20 G	40699826.78	40699826.89	40699827.04	0.0136	0.0108
Venus	106720-11-10 14:37 G	40700052.97	40700053.11	40700053.28	0.0135	0.0093
Moon	106720-12-04 11:16 G	40700076.73	40700076.97	40700077.22	0.0135	0.0010
Earth	106720-12-04 11:44 G	40700076.74	40700076.99	40700077.24	0.0135	0.0008 *
Venus	106721-06-24 19:40 G	40700279.16	40700279.32	40700279.51	0.0135	0.0079
Earth	106721-12-08 19:54 G	40700446.14	40700446.33	40700446.53	0.0135	0.0086
Moon	106721-12-08 20:23 G	40700446.16	40700446.35	40700446.57	0.0135	0.0084 *
Venus	106722-02-06 00:56 G	40700505.35	40700505.54	40700505.73	0.0135	0.0064
Venus	106722-09-20 05:44 G	40700731.55	40700731.74	40700731.95	0.0135	0.0049
Venus	106723-05-04 10:47 G	40700957.75	40700957.95	40700958.16	0.0135	0.0034
Venus	106723-12-16 15:35 G	40701183.94	40701184.15	40701184.36	0.0135	0.0020
Venus	106724-07-29 20:08 G	40701410.13	40701410.34	40701410.55	0.0135	0.0005

Venus	106725-03-13 00:42 G	40701636.32	40701636.53	40701636.75	0.0135	0.0010
Venus	106725-10-25 05:30 G	40701862.52	40701862.73	40701862.94	0.0135	0.0024
Venus	106726-06-08 10:04 G	40702088.72	40702088.92	40702089.12	0.0135	0.0039
Venus	106727-01-20 14:37 G	40702314.91	40702315.11	40702315.30	0.0135	0.0053
Venus	106727-09-03 18:42 G	40702541.11	40702541.28	40702541.48	0.0135	0.0068
Venus	106728-04-16 23:16 G	40702767.31	40702767.47	40702767.65	0.0135	0.0082
Venus	106728-11-29 03:49 G	40702993.52	40702993.66	40702993.82	0.0135	0.0096
Venus	106729-07-13 08:23 G	40703219.74	40703219.85	40703219.98	0.0135	0.0110
Venus	106730-02-24 12:42 G	40703445.96	40703446.03	40703446.13	0.0135	0.0124
Mars	106736-01-31 15:49 G	40705613.00	40705613.16	40705613.35	0.0135	0.0104
Mercury	106753-02-07 13:54 G	40711830.05	40711830.08	40711830.12	0.0140	0.0135
Mercury	106753-05-06 17:16 G	40711918.15	40711918.22	40711918.30	0.0140	0.0115
Mercury	106753-08-02 20:52 G	40712006.28	40712006.37	40712006.47	0.0140	0.0095
Mercury	106753-10-30 00:13 G	40712094.40	40712094.51	40712094.63	0.0140	0.0075
Mercury	106754-01-26 03:35 G	40712182.54	40712182.65	40712182.78	0.0140	0.0056
Mercury	106754-04-24 07:11 G	40712270.67	40712270.80	40712270.93	0.0140	0.0035
Mercury	106754-07-21 10:32 G	40712358.81	40712358.94	40712359.08	0.0140	0.0015
Mercury	106754-10-17 14:08 G	40712446.95	40712447.09	40712447.22	0.0140	0.0006
Mercury	106755-01-13 17:30 G	40712535.10	40712535.23	40712535.36	0.0140	0.0025
Mercury	106755-04-11 20:52 G	40712623.25	40712623.37	40712623.50	0.0141	0.0045
Mercury	106755-07-09 00:13 G	40712711.40	40712711.51	40712711.63	0.0141	0.0065
Mercury	106755-10-05 03:35 G	40712799.55	40712799.65	40712799.76	0.0141	0.0085
Mercury	106756-01-01 06:56 G	40712887.71	40712887.79	40712887.88	0.0141	0.0105
Mercury	106756-03-29 10:18 G	40712975.88	40712975.93	40712976.00	0.0141	0.0125
Venus	106762-05-16 11:16 G	40715214.93	40715214.97	40715215.05	0.0142	0.0136
Venus	106762-12-28 23:30 G	40715441.38	40715441.48	40715441.62	0.0142	0.0120
Moon	106763-06-02 03:20 G	40715596.40	40715596.64	40715596.90	0.0142	0.0045
Earth	106763-06-02 06:13 G	40715596.52	40715596.76	40715597.01	0.0142	0.0041 *
Venus	106763-08-12 11:59 G	40715667.87	40715668.00	40715668.17	0.0142	0.0103
Venus	106764-03-26 00:56 G	40715894.37	40715894.54	40715894.73	0.0143	0.0085

Earth	106764-06-06 06:13 G	40715966.54	40715966.76	40715966.98	0.0143	0.0071
Moon	106764-06-06 07:25 G	40715966.62	40715966.81	40715967.04	0.0143	0.0079 *
Venus	106764-11-07 13:40 G	40716120.88	40716121.07	40716121.27	0.0143	0.0067
Venus	106765-06-22 02:23 G	40716347.40	40716347.60	40716347.82	0.0143	0.0049
Venus	106766-02-03 15:20 G	40716573.92	40716574.14	40716574.36	0.0143	0.0031
Venus	106766-09-18 04:04 G	40716800.45	40716800.67	40716800.90	0.0143	0.0013
Venus	106767-05-02 17:16 G	40717027.00	40717027.22	40717027.44	0.0143	0.0006
Venus	106767-12-15 06:13 G	40717253.54	40717253.76	40717253.98	0.0143	0.0024
Venus	106768-07-28 19:11 G	40717480.09	40717480.30	40717480.51	0.0143	0.0042
Venus	106769-03-12 08:08 G	40717706.64	40717706.84	40717707.04	0.0143	0.0061
Venus	106769-10-24 21:20 G	40717933.20	40717933.39	40717933.57	0.0143	0.0079
Venus	106770-06-08 10:18 G	40718159.77	40718159.93	40718160.09	0.0143	0.0096
Venus	106771-01-20 23:01 G	40718386.34	40718386.46	40718386.60	0.0143	0.0114
Venus	106771-09-04 12:13 G	40718612.93	40718613.01	40718613.10	0.0143	0.0131
Mars	106776-07-10 06:28 G	40720383.44	40720383.77	40720384.12	0.0143	0.0031
Mercury	106794-02-26 18:42 G	40726824.21	40726824.28	40726824.39	0.0138	0.0122
Mercury	106794-05-26 02:37 G	40726912.48	40726912.61	40726912.75	0.0138	0.0094
Mercury	106794-08-22 10:04 G	40727000.76	40727000.92	40727001.10	0.0138	0.0067
Mercury	106794-11-18 17:44 G	40727089.06	40727089.24	40727089.43	0.0138	0.0040
Mercury	106795-02-15 01:25 G	40727177.37	40727177.56	40727177.75	0.0138	0.0012
Mercury	106795-05-14 08:52 G	40727265.69	40727265.87	40727266.07	0.0138	0.0016
Mercury	106795-08-10 16:32 G	40727354.01	40727354.19	40727354.38	0.0138	0.0043
Mercury	106795-11-06 23:59 G	40727442.35	40727442.50	40727442.68	0.0138	0.0071
Mercury	106796-02-03 07:40 G	40727530.70	40727530.82	40727530.97	0.0138	0.0098
Mercury	106796-05-01 15:06 G	40727619.07	40727619.13	40727619.23	0.0137	0.0126
Venus	106803-04-15 14:37 G	40730159.05	40730159.11	40730159.21	0.0136	0.0126
Venus	106803-11-27 19:54 G	40730385.23	40730385.33	40730385.47	0.0136	0.0112
Moon	106803-12-01 10:47 G	40730388.80	40730388.95	40730389.14	0.0136	0.0098
Earth	106803-12-01 13:54 G	40730388.91	40730389.08	40730389.27	0.0136	0.0096 *
Venus	106804-07-11 00:56 G	40730611.41	40730611.54	40730611.71	0.0136	0.0098

Earth	106804-12-04 22:32 G	40730758.19	40730758.44	40730758.70	0.0135	0.0003
Moon	106804-12-05 01:11 G	40730758.29	40730758.55	40730758.80	0.0135	0.0002 *
Venus	106805-02-22 06:28 G	40730837.61	40730837.77	40730837.94	0.0135	0.0083
Venus	106805-10-06 11:30 G	40731063.81	40731063.98	40731064.17	0.0135	0.0068
Moon	106805-12-09 03:49 G	40731127.48	40731127.66	40731127.86	0.0135	0.0085
Earth	106805-12-09 06:28 G	40731127.60	40731127.77	40731127.97	0.0135	0.0092 *
Venus	106806-05-20 16:32 G	40731290.00	40731290.19	40731290.39	0.0135	0.0054
Venus	106807-01-01 21:20 G	40731516.19	40731516.39	40731516.60	0.0135	0.0039
Venus	106807-08-16 02:08 G	40731742.39	40731742.59	40731742.80	0.0135	0.0024
Venus	106808-03-29 06:56 G	40731968.58	40731968.79	40731969.00	0.0135	0.0010
Venus	106808-11-10 11:44 G	40732194.77	40732194.99	40732195.20	0.0135	0.0005
Venus	106809-06-24 16:04 G	40732420.97	40732421.17	40732421.39	0.0135	0.0020
Venus	106810-02-05 20:52 G	40732647.16	40732647.37	40732647.57	0.0135	0.0034
Venus	106810-09-20 01:11 G	40732873.36	40732873.55	40732873.76	0.0135	0.0049
Venus	106811-05-04 05:44 G	40733099.56	40733099.74	40733099.93	0.0135	0.0063
Venus	106811-12-16 10:04 G	40733325.76	40733325.92	40733326.11	0.0135	0.0078
Venus	106812-07-29 14:23 G	40733551.96	40733552.10	40733552.27	0.0135	0.0092
Venus	106813-03-12 18:56 G	40733778.18	40733778.29	40733778.44	0.0135	0.0106
Venus	106813-10-24 23:59 G	40734004.41	40734004.50	40734004.60	0.0135	0.0119
Venus	106814-06-08 04:18 G	40734230.66	40734230.68	40734230.72	0.0135	0.0133
Mars	106818-10-26 23:30 G	40735832.28	40735832.48	40735832.72	0.0135	0.0083
Mercury	106837-02-27 21:06 G	40742531.34	40742531.38	40742531.43	0.0140	0.0130
Mercury	106837-05-27 00:42 G	40742619.45	40742619.53	40742619.61	0.0140	0.0110
Mercury	106837-08-23 04:04 G	40742707.57	40742707.67	40742707.77	0.0140	0.0090
Mercury	106837-11-19 07:25 G	40742795.70	40742795.81	40742795.93	0.0140	0.0071
Mercury	106838-02-15 11:01 G	40742883.84	40742883.96	40742884.08	0.0140	0.0050
Mercury	106838-05-14 14:23 G	40742971.97	40742972.10	40742972.23	0.0140	0.0031
Mercury	106838-08-10 17:44 G	40743060.11	40743060.24	40743060.38	0.0140	0.0011
Mercury	106838-11-06 21:20 G	40743148.25	40743148.39	40743148.52	0.0140	0.0010
Mercury	106839-02-03 00:42 G	40743236.40	40743236.53	40743236.66	0.0140	0.0029

Mercury	106839-05-02 04:04 G	40743324.55	40743324.67	40743324.79	0.0141	0.0049
Mercury	106839-07-29 07:25 G	40743412.70	40743412.81	40743412.93	0.0141	0.0069
Mercury	106839-10-25 10:47 G	40743500.85	40743500.95	40743501.05	0.0141	0.0089
Mercury	106840-01-21 14:08 G	40743589.01	40743589.09	40743589.18	0.0141	0.0109
Mercury	106840-04-18 17:30 G	40743677.19	40743677.23	40743677.29	0.0141	0.0129
Venus	106846-01-13 17:01 G	40745773.20	40745773.21	40745773.24	0.0142	0.0141
Moon	106846-05-28 15:20 G	40745908.14	40745908.14	40745908.16	0.0142	0.0142
Venus	106846-08-28 05:01 G	40745999.62	40745999.71	40745999.83	0.0142	0.0125
Venus	106847-04-11 17:59 G	40746226.10	40746226.25	40746226.39	0.0142	0.0108
Earth	106847-06-02 15:35 G	40746277.90	40746278.15	40746278.40	0.0142	0.0037
Moon	106847-06-02 16:04 G	40746277.94	40746278.17	40746278.41	0.0142	0.0044 *
Venus	106847-11-24 06:13 G	40746452.60	40746452.76	40746452.94	0.0143	0.0091
Earth	106848-06-06 15:06 G	40746647.93	40746648.13	40746648.36	0.0143	0.0076
Moon	106848-06-06 16:04 G	40746647.95	40746648.17	40746648.39	0.0143	0.0082 *
Venus	106848-07-07 18:56 G	40746679.10	40746679.29	40746679.48	0.0143	0.0073
Venus	106849-02-19 07:40 G	40746905.61	40746905.82	40746906.02	0.0143	0.0055
Venus	106849-10-03 20:23 G	40747132.13	40747132.35	40747132.56	0.0143	0.0037
Venus	106850-05-18 09:06 G	40747358.66	40747358.88	40747359.10	0.0143	0.0019
Venus	106850-12-30 22:04 G	40747585.19	40747585.42	40747585.64	0.0143	0.0002
Venus	106851-08-14 10:47 G	40747811.73	40747811.95	40747812.18	0.0143	0.0018
Venus	106852-03-27 23:44 G	40748038.28	40748038.49	40748038.71	0.0143	0.0036
Venus	106852-11-09 12:42 G	40748264.83	40748265.03	40748265.25	0.0143	0.0054
Venus	106853-06-24 01:40 G	40748491.39	40748491.57	40748491.77	0.0143	0.0072
Venus	106854-02-05 14:37 G	40748717.95	40748718.11	40748718.29	0.0143	0.0090
Venus	106854-09-20 04:04 G	40748944.52	40748944.67	40748944.81	0.0143	0.0108
Venus	106855-05-04 16:47 G	40749171.11	40749171.20	40749171.32	0.0143	0.0126
Venus	106855-12-17 05:59 G	40749397.74	40749397.75	40749397.78	0.0143	0.0142
Mars	106861-03-06 20:23 G	40751304.29	40751304.35	40751304.46	0.0143	0.0138
Mercury	106878-03-19 02:08 G	40757525.50	40757525.59	40757525.71	0.0138	0.0115
Mercury	106878-06-15 09:35 G	40757613.77	40757613.90	40757614.06	0.0138	0.0088

Mercury	106878-09-11 17:30 G	40757702.06	40757702.23	40757702.40	0.0138	0.0060
Mercury	106878-12-09 00:56 G	40757790.36	40757790.54	40757790.73	0.0138	0.0033
Mercury	106879-03-07 08:37 G	40757878.67	40757878.86	40757879.05	0.0138	0.0005
Mercury	106879-06-03 16:18 G	40757966.99	40757967.18	40757967.37	0.0138	0.0022
Mercury	106879-08-30 23:44 G	40758055.31	40758055.49	40758055.67	0.0138	0.0049
Mercury	106879-11-27 07:25 G	40758143.65	40758143.81	40758143.97	0.0138	0.0077
Mercury	106880-02-23 14:52 G	40758232.01	40758232.12	40758232.25	0.0138	0.0105
Mercury	106880-05-21 22:47 G	40758320.40	40758320.45	40758320.50	0.0137	0.0132
Venus	106886-12-14 01:25 G	40760717.51	40760717.56	40760717.63	0.0136	0.0130
Venus	106887-07-28 06:42 G	40760943.68	40760943.78	40760943.90	0.0136	0.0116
Earth	106887-12-02 01:11 G	40761070.37	40761070.55	40761070.74	0.0136	0.0090
Moon	106887-12-02 04:47 G	40761070.54	40761070.70	40761070.89	0.0136	0.0096 *
Venus	106888-03-10 11:59 G	40761169.87	40761170.00	40761170.15	0.0136	0.0102
Venus	106888-10-22 17:30 G	40761396.07	40761396.23	40761396.39	0.0136	0.0087
Moon	106888-12-05 06:28 G	40761439.52	40761439.77	40761440.02	0.0136	0.0011
Earth	106888-12-05 09:49 G	40761439.66	40761439.91	40761440.17	0.0136	0.0005 *
Venus	106889-06-05 22:18 G	40761622.26	40761622.43	40761622.62	0.0135	0.0073
Earth	106889-12-09 17:44 G	40761809.08	40761809.24	40761809.42	0.0135	0.0098
Moon	106889-12-09 21:06 G	40761809.21	40761809.38	40761809.59	0.0135	0.0091 *
Venus	106890-01-18 03:20 G	40761848.46	40761848.64	40761848.84	0.0135	0.0058
Venus	106890-09-01 08:23 G	40762074.65	40762074.85	40762075.06	0.0135	0.0043
Venus	106891-04-15 13:11 G	40762300.85	40762301.05	40762301.26	0.0135	0.0029
Venus	106891-11-27 17:59 G	40762527.04	40762527.25	40762527.46	0.0135	0.0014
Venus	106892-07-10 22:32 G	40762753.23	40762753.44	40762753.66	0.0135	0.0001
Venus	106893-02-22 03:06 G	40762979.42	40762979.63	40762979.85	0.0135	0.0015
Venus	106893-10-06 07:40 G	40763205.62	40763205.82	40763206.04	0.0135	0.0030
Venus	106894-05-20 12:28 G	40763431.82	40763432.02	40763432.22	0.0135	0.0044
Venus	106895-01-01 16:32 G	40763658.01	40763658.19	40763658.40	0.0135	0.0059
Venus	106895-08-15 21:06 G	40763884.21	40763884.38	40763884.57	0.0135	0.0073
Venus	106896-03-29 01:40 G	40764110.42	40764110.57	40764110.74	0.0135	0.0087

Venus	106896-11-10 06:13 G	40764336.63	40764336.76	40764336.91	0.0135	0.0101
Venus	106897-06-24 10:47 G	40764562.85	40764562.95	40764563.07	0.0135	0.0115
Venus	106898-02-05 15:06 G	40764789.09	40764789.13	40764789.21	0.0135	0.0129
Mars	106903-06-22 02:08 G	40766750.33	40766750.59	40766750.87	0.0135	0.0034
Mercury	106921-03-21 04:32 G	40773232.63	40773232.69	40773232.75	0.0140	0.0125
Mercury	106921-06-17 07:40 G	40773320.75	40773320.82	40773320.92	0.0140	0.0106
Mercury	106921-09-13 11:16 G	40773408.87	40773408.97	40773409.08	0.0140	0.0086
Mercury	106921-12-10 14:37 G	40773497.00	40773497.11	40773497.24	0.0140	0.0066
Mercury	106922-03-08 18:13 G	40773585.14	40773585.26	40773585.39	0.0140	0.0046
Mercury	106922-06-04 21:35 G	40773673.27	40773673.40	40773673.54	0.0140	0.0026
Mercury	106922-09-01 01:11 G	40773761.41	40773761.55	40773761.68	0.0140	0.0006
Mercury	106922-11-28 04:32 G	40773849.56	40773849.69	40773849.82	0.0140	0.0014
Mercury	106923-02-24 07:54 G	40773937.70	40773937.83	40773937.96	0.0140	0.0034
Mercury	106923-05-23 11:16 G	40774025.85	40774025.97	40774026.09	0.0140	0.0054
Mercury	106923-08-19 14:37 G	40774114.00	40774114.11	40774114.23	0.0141	0.0074
Mercury	106923-11-15 17:59 G	40774202.16	40774202.25	40774202.35	0.0141	0.0094
Mercury	106924-02-11 21:20 G	40774290.32	40774290.39	40774290.47	0.0141	0.0114
Mercury	106924-05-10 00:42 G	40774378.50	40774378.53	40774378.58	0.0141	0.0134
Venus	106930-04-28 11:01 G	40776557.88	40776557.96	40776558.05	0.0142	0.0130
Moon	106930-05-30 00:13 G	40776589.45	40776589.51	40776589.59	0.0142	0.0136
Venus	106930-12-10 23:16 G	40776784.34	40776784.47	40776784.61	0.0142	0.0114
Earth	106931-06-04 00:56 G	40776959.29	40776959.54	40776959.79	0.0142	0.0032
Moon	106931-06-04 02:23 G	40776959.36	40776959.60	40776959.87	0.0142	0.0039 *
Venus	106931-07-25 11:30 G	40777010.83	40777010.98	40777011.15	0.0142	0.0097
Venus	106932-03-07 23:59 G	40777237.33	40777237.50	40777237.69	0.0143	0.0079
Moon	106932-06-07 22:04 G	40777329.22	40777329.42	40777329.62	0.0143	0.0084
Earth	106932-06-08 00:13 G	40777329.31	40777329.51	40777329.74	0.0143	0.0081 *
Venus	106932-10-20 12:28 G	40777463.83	40777464.02	40777464.23	0.0143	0.0062
Venus	106933-06-04 01:11 G	40777690.34	40777690.55	40777690.77	0.0143	0.0044
Venus	106934-01-16 13:54 G	40777916.86	40777917.08	40777917.30	0.0143	0.0026

Venus	106934-08-31 02:37 G	40778143.39	40778143.61	40778143.84	0.0143	0.0008
Venus	106935-04-14 15:35 G	40778369.93	40778370.15	40778370.38	0.0143	0.0011
Venus	106935-11-27 04:18 G	40778596.47	40778596.68	40778596.91	0.0143	0.0029
Venus	106936-07-10 17:16 G	40778823.01	40778823.22	40778823.44	0.0143	0.0047
Venus	106937-02-22 05:59 G	40779049.57	40779049.75	40779049.96	0.0143	0.0065
Venus	106937-10-06 18:56 G	40779276.13	40779276.29	40779276.49	0.0143	0.0083
Venus	106938-05-21 08:08 G	40779502.70	40779502.84	40779503.01	0.0143	0.0101
Venus	106939-01-02 21:20 G	40779729.27	40779729.39	40779729.52	0.0143	0.0118
Venus	106939-08-17 10:18 G	40779955.87	40779955.93	40779956.01	0.0143	0.0135
Mercury	106962-01-11 01:11 G	40788138.55	40788138.55	40788138.55	0.0138	0.0138
Mercury	106962-04-09 08:23 G	40788226.75	40788226.85	40788226.98	0.0138	0.0111
Mercury	106962-07-06 16:04 G	40788315.03	40788315.17	40788315.33	0.0138	0.0084
Mercury	106962-10-02 23:30 G	40788403.32	40788403.48	40788403.67	0.0138	0.0057
Mercury	106962-12-30 07:11 G	40788491.62	40788491.80	40788491.99	0.0138	0.0029
Mercury	106963-03-28 14:52 G	40788579.93	40788580.12	40788580.31	0.0138	0.0002
Mercury	106963-06-24 22:32 G	40788668.25	40788668.44	40788668.63	0.0138	0.0026
Mercury	106963-09-21 05:59 G	40788756.58	40788756.75	40788756.93	0.0138	0.0053
Mercury	106963-12-18 13:40 G	40788844.92	40788845.07	40788845.23	0.0138	0.0081
Mercury	106964-03-15 21:06 G	40788933.27	40788933.38	40788933.51	0.0138	0.0109
Mercury	106964-06-12 04:47 G	40789021.68	40789021.70	40789021.74	0.0137	0.0136
Venus	106970-08-14 11:01 G	40791275.93	40791275.96	40791275.99	0.0136	0.0134
Venus	106971-03-28 16:04 G	40791502.09	40791502.17	40791502.28	0.0136	0.0121
Venus	106971-11-09 21:49 G	40791728.28	40791728.41	40791728.54	0.0136	0.0106
Moon	106971-12-03 06:42 G	40791751.61	40791751.78	40791751.98	0.0136	0.0094
Earth	106971-12-03 10:18 G	40791751.74	40791751.93	40791752.13	0.0136	0.0086 *
Venus	106972-06-23 02:52 G	40791954.47	40791954.62	40791954.78	0.0136	0.0092
Earth	106972-12-06 18:56 G	40792121.04	40792121.29	40792121.54	0.0136	0.0008
Moon	106972-12-06 21:49 G	40792121.17	40792121.41	40792121.66	0.0136	0.0015 *
Venus	106973-02-04 07:54 G	40792180.67	40792180.83	40792181.02	0.0136	0.0078
Venus	106973-09-18 13:25 G	40792406.87	40792407.06	40792407.25	0.0136	0.0063

Moon	106973-12-10 23:44 G	40792490.32	40792490.49	40792490.68	0.0135	0.0097
Earth	106973-12-11 02:37 G	40792490.47	40792490.61	40792490.79	0.0135	0.0103 *
Venus	106974-05-02 18:13 G	40792633.06	40792633.26	40792633.46	0.0135	0.0048
Venus	106974-12-14 23:01 G	40792859.26	40792859.46	40792859.67	0.0135	0.0034
Venus	106975-07-29 03:49 G	40793085.45	40793085.66	40793085.87	0.0135	0.0019
Venus	106976-03-11 08:37 G	40793311.64	40793311.86	40793312.07	0.0135	0.0005
Venus	106976-10-23 13:25 G	40793537.84	40793538.06	40793538.27	0.0135	0.0010
Venus	106977-06-06 17:59 G	40793764.04	40793764.25	40793764.46	0.0135	0.0025
Venus	106978-01-18 22:18 G	40793990.24	40793990.43	40793990.64	0.0135	0.0039
Venus	106978-09-02 03:06 G	40794216.43	40794216.63	40794216.82	0.0135	0.0054
Venus	106979-04-16 07:25 G	40794442.64	40794442.81	40794443.00	0.0135	0.0068
Venus	106979-11-28 11:59 G	40794668.84	40794669.00	40794669.18	0.0135	0.0082
Venus	106980-07-11 16:32 G	40794895.05	40794895.19	40794895.35	0.0135	0.0096
Venus	106981-02-22 21:06 G	40795121.27	40795121.38	40795121.51	0.0135	0.0110
Venus	106981-10-07 01:40 G	40795347.51	40795347.57	40795347.67	0.0135	0.0124

108TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 108th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	107005-04-11 11:44 G	40803933.93	40803933.99	40803934.06	0.0140	0.0120		
Mercury	107005-07-08 15:20 G	40804022.05	40804022.14	40804022.23	0.0140	0.0100		
Mercury	107005-10-04 18:42 G	40804110.17	40804110.28	40804110.39	0.0140	0.0080		

Mercury	107005-12-31 22:04	G	40804198.30	40804198.42	40804198.54	0.0140	0.0061
Mercury	107006-03-30 01:25	G	40804286.44	40804286.56	40804286.69	0.0140	0.0041
Mercury	107006-06-26 05:01	G	40804374.58	40804374.71	40804374.84	0.0140	0.0021
Mercury	107006-09-22 08:23	G	40804462.72	40804462.85	40804462.98	0.0140	0.0002
Mercury	107006-12-19 11:44	G	40804550.86	40804550.99	40804551.13	0.0140	0.0020
Mercury	107007-03-17 15:06	G	40804639.01	40804639.13	40804639.26	0.0140	0.0039
Mercury	107007-06-13 18:28	G	40804727.16	40804727.27	40804727.40	0.0140	0.0059
Mercury	107007-09-09 22:04	G	40804815.31	40804815.42	40804815.53	0.0140	0.0079
Mercury	107007-12-07 01:25	G	40804903.47	40804903.56	40804903.65	0.0141	0.0099
Mercury	107008-03-04 04:32	G	40804991.63	40804991.69	40804991.77	0.0141	0.0119
Mercury	107008-05-31 07:54	G	40805079.82	40805079.83	40805079.86	0.0141	0.0139
Venus	107013-12-27 17:01	G	40807116.15	40807116.21	40807116.27	0.0142	0.0136
Earth	107014-05-31 11:01	G	40807270.93	40807270.96	40807271.04	0.0142	0.0139
Moon	107014-05-31 14:08	G	40807271.02	40807271.09	40807271.21	0.0142	0.0132 *
Venus	107014-08-11 04:47	G	40807342.60	40807342.70	40807342.83	0.0142	0.0119
Venus	107015-03-25 17:16	G	40807569.08	40807569.22	40807569.38	0.0142	0.0102
Moon	107015-06-05 07:11	G	40807640.56	40807640.80	40807641.06	0.0142	0.0029
Earth	107015-06-05 10:47	G	40807640.69	40807640.95	40807641.20	0.0142	0.0027 *
Venus	107015-11-07 05:30	G	40807795.56	40807795.73	40807795.92	0.0142	0.0085
Earth	107016-06-09 09:49	G	40808010.72	40808010.91	40808011.13	0.0143	0.0086
Moon	107016-06-09 13:25	G	40808010.87	40808011.06	40808011.29	0.0143	0.0084 *
Venus	107016-06-20 17:59	G	40808022.06	40808022.25	40808022.45	0.0143	0.0068
Venus	107017-02-02 06:42	G	40808248.57	40808248.78	40808248.98	0.0143	0.0050
Venus	107017-09-16 19:11	G	40808475.08	40808475.30	40808475.52	0.0143	0.0032
Venus	107018-05-01 07:54	G	40808701.61	40808701.83	40808702.05	0.0143	0.0014
Venus	107018-12-13 20:37	G	40808928.14	40808928.36	40808928.59	0.0143	0.0004
Venus	107019-07-28 09:20	G	40809154.67	40809154.89	40809155.11	0.0143	0.0022
Venus	107020-03-10 22:18	G	40809381.22	40809381.43	40809381.65	0.0143	0.0040
Venus	107020-10-23 11:16	G	40809607.77	40809607.97	40809608.17	0.0143	0.0058
Venus	107021-06-07 00:13	G	40809834.32	40809834.51	40809834.70	0.0143	0.0076

Venus	107022-01-19 12:56 G	40810060.89	40810061.04	40810061.22	0.0143	0.0094
Venus	107022-09-03 01:54 G	40810287.46	40810287.58	40810287.73	0.0143	0.0112
Venus	107023-04-17 15:06 G	40810514.05	40810514.13	40810514.24	0.0143	0.0129
Mars	107028-07-23 03:06 G	40812437.29	40812437.63	40812437.97	0.0143	0.0016
Mercury	107046-02-01 07:40 G	40818839.78	40818839.82	40818839.86	0.0138	0.0134
Mercury	107046-04-30 15:06 G	40818928.01	40818928.13	40818928.25	0.0138	0.0107
Mercury	107046-07-27 22:32 G	40819016.29	40819016.44	40819016.60	0.0138	0.0079
Mercury	107046-10-24 05:59 G	40819104.58	40819104.75	40819104.94	0.0138	0.0052
Mercury	107047-01-20 13:40 G	40819192.89	40819193.07	40819193.26	0.0138	0.0025
Mercury	107047-04-18 21:20 G	40819281.20	40819281.39	40819281.58	0.0138	0.0003
Mercury	107047-07-16 04:47 G	40819369.52	40819369.70	40819369.89	0.0138	0.0031
Mercury	107047-10-12 12:28 G	40819457.85	40819458.02	40819458.20	0.0138	0.0058
Mercury	107048-01-08 19:54 G	40819546.19	40819546.33	40819546.49	0.0138	0.0086
Mercury	107048-04-06 03:35 G	40819634.55	40819634.65	40819634.77	0.0138	0.0113
Venus	107054-11-27 01:25 G	40822060.49	40822060.56	40822060.66	0.0136	0.0125
Venus	107055-07-11 06:42 G	40822286.68	40822286.78	40822286.92	0.0136	0.0111
Earth	107055-12-04 19:11 G	40822433.12	40822433.30	40822433.51	0.0136	0.0083
Moon	107055-12-04 21:06 G	40822433.21	40822433.38	40822433.57	0.0136	0.0089 *
Venus	107056-02-22 12:13 G	40822512.87	40822513.01	40822513.17	0.0136	0.0097
Venus	107056-10-05 17:44 G	40822739.07	40822739.24	40822739.41	0.0136	0.0082
Moon	107056-12-08 02:52 G	40822802.36	40822802.62	40822802.88	0.0136	0.0015
Earth	107056-12-08 04:04 G	40822802.42	40822802.67	40822802.92	0.0136	0.0012 *
Venus	107057-05-19 22:47 G	40822965.27	40822965.45	40822965.64	0.0136	0.0068
Earth	107057-12-12 11:59 G	40823171.85	40823172.00	40823172.17	0.0136	0.0106
Moon	107057-12-12 13:25 G	40823171.92	40823172.06	40823172.22	0.0136	0.0106 *
Venus	107058-01-01 03:35 G	40823191.47	40823191.65	40823191.86	0.0136	0.0054
Venus	107058-08-15 08:37 G	40823417.66	40823417.86	40823418.07	0.0135	0.0039
Venus	107059-03-29 13:40 G	40823643.86	40823644.07	40823644.28	0.0135	0.0024
Venus	107059-11-10 18:28 G	40823870.06	40823870.27	40823870.48	0.0135	0.0009
Venus	107060-06-23 23:16 G	40824096.26	40824096.47	40824096.68	0.0135	0.0005

Venus	107061-02-05 03:49 G	40824322.45	40824322.66	40824322.87	0.0135	0.0020
Venus	107061-09-19 08:37 G	40824548.65	40824548.86	40824549.07	0.0135	0.0034
Venus	107062-05-03 12:56 G	40824774.86	40824775.04	40824775.25	0.0135	0.0050
Venus	107062-12-15 17:44 G	40825001.06	40825001.24	40825001.43	0.0135	0.0063
Venus	107063-07-29 22:18 G	40825227.26	40825227.43	40825227.61	0.0135	0.0078
Venus	107064-03-12 03:06 G	40825453.47	40825453.63	40825453.78	0.0135	0.0092
Venus	107064-10-24 07:40 G	40825679.70	40825679.82	40825679.96	0.0135	0.0106
Venus	107065-06-07 12:13 G	40825905.92	40825906.01	40825906.12	0.0135	0.0119
Venus	107066-01-19 16:32 G	40826132.18	40826132.19	40826132.25	0.0135	0.0133
Mars	107070-11-10 11:16 G	40827887.71	40827887.97	40827888.24	0.0135	0.0037
Mercury	107089-02-02 15:35 G	40834547.12	40834547.15	40834547.19	0.0140	0.0135
Mercury	107089-05-01 18:56 G	40834635.23	40834635.29	40834635.38	0.0140	0.0115
Mercury	107089-07-28 22:32 G	40834723.35	40834723.44	40834723.54	0.0140	0.0095
Mercury	107089-10-25 01:54 G	40834811.48	40834811.58	40834811.70	0.0140	0.0075
Mercury	107090-01-21 05:30 G	40834899.61	40834899.73	40834899.86	0.0140	0.0055
Mercury	107090-04-19 08:52 G	40834987.75	40834987.87	40834988.00	0.0140	0.0035
Mercury	107090-07-16 12:28 G	40835075.89	40835076.02	40835076.15	0.0140	0.0015
Mercury	107090-10-12 15:49 G	40835164.03	40835164.16	40835164.29	0.0140	0.0005
Mercury	107091-01-08 19:11 G	40835252.17	40835252.30	40835252.43	0.0140	0.0025
Mercury	107091-04-06 22:32 G	40835340.32	40835340.44	40835340.57	0.0140	0.0045
Mercury	107091-07-04 02:08 G	40835428.47	40835428.59	40835428.70	0.0140	0.0065
Mercury	107091-09-30 05:30 G	40835516.62	40835516.73	40835516.83	0.0140	0.0085
Mercury	107091-12-27 08:52 G	40835604.78	40835604.87	40835604.96	0.0140	0.0104
Mercury	107092-03-24 11:59 G	40835692.95	40835693.00	40835693.07	0.0141	0.0125
Venus	107097-08-26 23:44 G	40837674.46	40837674.49	40837674.53	0.0142	0.0140
Venus	107098-04-10 11:30 G	40837900.89	40837900.98	40837901.10	0.0142	0.0124
Moon	107098-05-31 18:42 G	40837952.19	40837952.28	40837952.40	0.0142	0.0129
Earth	107098-05-31 22:18 G	40837952.36	40837952.43	40837952.54	0.0142	0.0132 *
Venus	107098-11-22 23:44 G	40838127.36	40838127.49	40838127.65	0.0142	0.0108
Earth	107099-06-05 21:35 G	40838322.15	40838322.40	40838322.66	0.0142	0.0021

Moon	107099-06-06 00:56 G	40838322.29	40838322.54	40838322.80	0.0142	0.0017	*
Venus	107099-07-07 11:59 G	40838353.84	40838354.00	40838354.18	0.0142	0.0091	
Venus	107100-02-19 00:13 G	40838580.33	40838580.51	40838580.71	0.0142	0.0073	
Moon	107100-06-10 17:01 G	40838692.02	40838692.21	40838692.44	0.0142	0.0086	
Earth	107100-06-10 20:52 G	40838692.19	40838692.37	40838692.58	0.0142	0.0092	*
Venus	107100-10-03 12:42 G	40838806.84	40838807.03	40838807.25	0.0143	0.0056	
Venus	107101-05-18 01:25 G	40839033.35	40839033.56	40839033.78	0.0143	0.0038	
Venus	107101-12-30 14:08 G	40839259.87	40839260.09	40839260.31	0.0143	0.0020	
Venus	107102-08-14 02:37 G	40839486.39	40839486.61	40839486.84	0.0143	0.0003	
Venus	107103-03-28 15:35 G	40839712.93	40839713.15	40839713.37	0.0143	0.0016	
Venus	107103-11-10 04:18 G	40839939.47	40839939.68	40839939.90	0.0143	0.0034	
Venus	107104-06-23 17:16 G	40840166.01	40840166.22	40840166.43	0.0143	0.0052	
Venus	107105-02-05 06:13 G	40840392.56	40840392.76	40840392.95	0.0143	0.0070	
Venus	107105-09-19 18:56 G	40840619.12	40840619.29	40840619.47	0.0143	0.0088	
Venus	107106-05-04 07:54 G	40840845.70	40840845.83	40840845.99	0.0143	0.0106	
Venus	107106-12-16 20:52 G	40841072.28	40841072.37	40841072.50	0.0143	0.0123	
Venus	107107-07-31 09:49 G	40841298.89	40841298.91	40841298.97	0.0143	0.0140	
Mercury	107130-02-22 13:54 G	40849541.02	40849541.08	40849541.15	0.0138	0.0129	
Mercury	107130-05-21 21:20 G	40849629.27	40849629.39	40849629.52	0.0138	0.0102	
Mercury	107130-08-18 04:47 G	40849717.55	40849717.70	40849717.87	0.0138	0.0075	
Mercury	107130-11-14 12:28 G	40849805.84	40849806.02	40849806.20	0.0138	0.0048	
Mercury	107131-02-10 19:54 G	40849894.15	40849894.33	40849894.53	0.0138	0.0021	
Mercury	107131-05-10 03:35 G	40849982.46	40849982.65	40849982.85	0.0138	0.0007	
Mercury	107131-08-06 11:01 G	40850070.78	40850070.96	40850071.16	0.0138	0.0035	
Mercury	107131-11-02 18:56 G	40850159.12	40850159.29	40850159.46	0.0138	0.0062	
Mercury	107132-01-30 02:23 G	40850247.46	40850247.60	40850247.75	0.0138	0.0090	
Mercury	107132-04-27 10:04 G	40850335.83	40850335.92	40850336.02	0.0137	0.0117	
Venus	107138-07-28 10:18 G	40852618.87	40852618.93	40852619.00	0.0136	0.0129	
Venus	107139-03-11 15:49 G	40852845.05	40852845.16	40852845.28	0.0136	0.0115	
Venus	107139-10-23 21:06 G	40853071.25	40853071.38	40853071.53	0.0136	0.0101	

Earth	107139-12-06 03:20 G	40853114.44	40853114.64	40853114.85	0.0136	0.0080
Moon	107139-12-06 03:35 G	40853114.45	40853114.65	40853114.87	0.0136	0.0082 *
Venus	107140-06-06 02:23 G	40853297.45	40853297.60	40853297.77	0.0136	0.0087
Moon	107140-12-09 11:01 G	40853483.72	40853483.96	40853484.21	0.0136	0.0012
Earth	107140-12-09 11:59 G	40853483.75	40853484.00	40853484.25	0.0136	0.0015 *
Venus	107141-01-18 07:25 G	40853523.64	40853523.81	40853524.00	0.0136	0.0073
Venus	107141-09-01 12:42 G	40853749.85	40853750.03	40853750.23	0.0136	0.0058
Earth	107141-12-13 19:54 G	40853853.20	40853853.33	40853853.49	0.0136	0.0109
Moon	107141-12-13 20:08 G	40853853.22	40853853.34	40853853.51	0.0136	0.0113 *
Venus	107142-04-15 17:44 G	40853976.04	40853976.24	40853976.45	0.0136	0.0043
Venus	107142-11-27 22:47 G	40854202.24	40854202.45	40854202.66	0.0135	0.0029
Venus	107143-07-12 03:35 G	40854428.44	40854428.65	40854428.86	0.0135	0.0014
Venus	107144-02-23 08:23 G	40854654.64	40854654.85	40854655.06	0.0135	0.0001
Venus	107144-10-06 13:11 G	40854880.84	40854881.05	40854881.27	0.0135	0.0016
Venus	107145-05-20 17:59 G	40855107.04	40855107.25	40855107.46	0.0135	0.0030
Venus	107146-01-01 22:32 G	40855333.25	40855333.44	40855333.65	0.0135	0.0044
Venus	107146-08-16 03:20 G	40855559.45	40855559.64	40855559.83	0.0135	0.0059
Venus	107147-03-30 07:40 G	40855785.66	40855785.82	40855786.01	0.0135	0.0073
Venus	107147-11-11 12:28 G	40856011.87	40856012.02	40856012.20	0.0135	0.0087
Venus	107148-06-24 17:16 G	40856238.09	40856238.22	40856238.37	0.0135	0.0101
Venus	107149-02-05 21:49 G	40856464.32	40856464.41	40856464.54	0.0135	0.0115
Venus	107149-09-20 02:37 G	40856690.56	40856690.61	40856690.69	0.0135	0.0128
Mars	107155-07-06 11:30 G	40858805.77	40858805.98	40858806.22	0.0136	0.0078
Mercury	107173-02-23 23:01 G	40865248.41	40865248.46	40865248.51	0.0140	0.0129
Mercury	107173-05-23 02:23 G	40865336.53	40865336.60	40865336.69	0.0140	0.0109
Mercury	107173-08-19 05:59 G	40865424.65	40865424.75	40865424.85	0.0140	0.0089
Mercury	107173-11-15 09:20 G	40865512.78	40865512.89	40865513.01	0.0140	0.0069
Mercury	107174-02-11 12:56 G	40865600.92	40865601.04	40865601.16	0.0140	0.0049
Mercury	107174-05-10 16:18 G	40865689.05	40865689.18	40865689.31	0.0140	0.0029
Mercury	107174-08-06 19:54 G	40865777.19	40865777.33	40865777.46	0.0140	0.0010

Mercury	107174-11-02 23:16 G	40865865.34	40865865.47	40865865.60	0.0140	0.0011
Mercury	107175-01-30 02:37 G	40865953.48	40865953.61	40865953.74	0.0140	0.0031
Mercury	107175-04-28 05:59 G	40866041.63	40866041.75	40866041.88	0.0140	0.0051
Mercury	107175-07-25 09:35 G	40866129.78	40866129.90	40866130.01	0.0140	0.0071
Mercury	107175-10-21 12:42 G	40866217.94	40866218.03	40866218.14	0.0140	0.0091
Mercury	107176-01-17 16:04 G	40866306.10	40866306.17	40866306.26	0.0141	0.0111
Mercury	107176-04-14 19:40 G	40866394.28	40866394.32	40866394.37	0.0141	0.0130
Venus	107181-12-09 18:13 G	40868459.18	40868459.26	40868459.37	0.0142	0.0129
Earth	107182-06-02 09:20 G	40868633.79	40868633.89	40868634.02	0.0142	0.0126
Moon	107182-06-02 12:13 G	40868633.93	40868634.01	40868634.13	0.0142	0.0129 *
Venus	107182-07-24 06:13 G	40868685.64	40868685.76	40868685.91	0.0142	0.0112
Venus	107183-03-07 18:28 G	40868912.12	40868912.27	40868912.45	0.0142	0.0096
Moon	107183-06-07 06:28 G	40869003.51	40869003.77	40869004.03	0.0142	0.0008
Earth	107183-06-07 08:37 G	40869003.61	40869003.86	40869004.12	0.0142	0.0015 *
Venus	107183-10-20 06:42 G	40869138.61	40869138.78	40869138.98	0.0142	0.0079
Venus	107184-06-02 19:11 G	40869365.11	40869365.30	40869365.51	0.0142	0.0061
Earth	107184-06-11 07:40 G	40869373.65	40869373.82	40869374.02	0.0142	0.0098
Moon	107184-06-11 10:04 G	40869373.74	40869373.92	40869374.12	0.0142	0.0090 *
Venus	107185-01-15 07:40 G	40869591.61	40869591.82	40869592.04	0.0143	0.0043
Venus	107185-08-29 20:08 G	40869818.13	40869818.34	40869818.57	0.0143	0.0026
Venus	107186-04-13 09:06 G	40870044.66	40870044.88	40870045.10	0.0143	0.0007
Venus	107186-11-25 21:49 G	40870271.19	40870271.41	40870271.63	0.0143	0.0011
Venus	107187-07-10 10:32 G	40870497.72	40870497.94	40870498.16	0.0143	0.0029
Venus	107188-02-21 23:16 G	40870724.27	40870724.47	40870724.69	0.0143	0.0047
Venus	107188-10-05 12:13 G	40870950.82	40870951.01	40870951.22	0.0143	0.0065
Venus	107189-05-20 01:11 G	40871177.38	40871177.55	40871177.75	0.0143	0.0083
Venus	107190-01-01 14:23 G	40871403.95	40871404.10	40871404.26	0.0143	0.0100
Venus	107190-08-16 03:06 G	40871630.52	40871630.63	40871630.77	0.0143	0.0118
Venus	107191-03-30 16:04 G	40871857.12	40871857.17	40871857.26	0.0143	0.0135
Mars	107195-12-08 19:54 G	40873571.11	40873571.33	40873571.61	0.0143	0.0098

Mercury	107214-03-14 20:37 G	40880242.29	40880242.36	40880242.46	0.0138	0.0123
Mercury	107214-06-11 04:18 G	40880330.55	40880330.68	40880330.82	0.0138	0.0096
Mercury	107214-09-07 11:44 G	40880418.83	40880418.99	40880419.16	0.0138	0.0069
Mercury	107214-12-04 19:25 G	40880507.13	40880507.31	40880507.50	0.0138	0.0041
Mercury	107215-03-03 03:06 G	40880595.44	40880595.63	40880595.82	0.0138	0.0014
Mercury	107215-05-30 10:32 G	40880683.75	40880683.94	40880684.14	0.0138	0.0014
Mercury	107215-08-26 18:13 G	40880772.08	40880772.26	40880772.45	0.0138	0.0041
Mercury	107215-11-23 01:40 G	40880860.41	40880860.57	40880860.75	0.0138	0.0069
Mercury	107216-02-19 09:20 G	40880948.76	40880948.89	40880949.03	0.0138	0.0096
Mercury	107216-05-17 16:47 G	40881037.13	40881037.20	40881037.30	0.0137	0.0124
Venus	107222-03-27 19:54 G	40883177.30	40883177.33	40883177.38	0.0136	0.0133
Venus	107222-11-09 01:25 G	40883403.47	40883403.56	40883403.67	0.0136	0.0119
Venus	107223-06-23 06:56 G	40883629.66	40883629.79	40883629.92	0.0136	0.0105
Moon	107223-12-06 10:47 G	40883795.74	40883795.95	40883796.15	0.0136	0.0073
Earth	107223-12-06 12:28 G	40883795.83	40883796.02	40883796.25	0.0136	0.0077 *
Venus	107224-02-04 11:59 G	40883855.85	40883856.00	40883856.17	0.0136	0.0091
Venus	107224-09-17 17:16 G	40884082.06	40884082.22	40884082.41	0.0136	0.0077
Earth	107224-12-09 21:06 G	40884165.14	40884165.38	40884165.64	0.0136	0.0019
Moon	107224-12-10 00:13 G	40884165.25	40884165.51	40884165.76	0.0136	0.0012 *
Venus	107225-05-01 22:18 G	40884308.26	40884308.43	40884308.63	0.0136	0.0063
Venus	107225-12-14 03:35 G	40884534.45	40884534.65	40884534.85	0.0136	0.0048
Moon	107225-12-14 02:52 G	40884534.53	40884534.62	40884534.76	0.0136	0.0120 *
Earth	107225-12-14 05:30 G	40884534.60	40884534.73	40884534.88	0.0136	0.0112 *
Venus	107226-07-28 08:23 G	40884760.65	40884760.85	40884761.06	0.0135	0.0033
Venus	107227-03-11 13:25 G	40884986.85	40884987.06	40884987.27	0.0135	0.0019
Venus	107227-10-23 18:28 G	40885213.05	40885213.27	40885213.48	0.0135	0.0004
Venus	107228-06-05 23:01 G	40885439.26	40885439.46	40885439.68	0.0135	0.0012
Venus	107229-01-18 03:49 G	40885665.46	40885665.66	40885665.87	0.0135	0.0025
Venus	107229-09-01 08:23 G	40885891.66	40885891.85	40885892.07	0.0135	0.0040
Venus	107230-04-15 13:11 G	40886117.86	40886118.05	40886118.25	0.0135	0.0054

Venus	107230-11-27 18:13 G	40886344.07	40886344.26	40886344.44	0.0135	0.0069
Venus	107231-07-11 22:32 G	40886570.29	40886570.44	40886570.62	0.0135	0.0083
Venus	107232-02-23 03:06 G	40886796.50	40886796.63	40886796.80	0.0135	0.0097
Venus	107232-10-06 08:23 G	40887022.73	40887022.85	40887022.97	0.0135	0.0110
Venus	107233-05-20 12:42 G	40887248.96	40887249.03	40887249.13	0.0135	0.0124
Mars	107238-03-31 17:01 G	40889025.09	40889025.21	40889025.39	0.0135	0.0114
Mercury	107257-03-16 06:13 G	40895949.71	40895949.76	40895949.83	0.0140	0.0124
Mercury	107257-06-12 09:49 G	40896037.82	40896037.91	40896038.00	0.0140	0.0104
Mercury	107257-09-08 13:11 G	40896125.95	40896126.05	40896126.16	0.0140	0.0084
Mercury	107257-12-05 16:47 G	40896214.08	40896214.20	40896214.32	0.0140	0.0064
Mercury	107258-03-03 20:08 G	40896302.22	40896302.34	40896302.47	0.0140	0.0044
Mercury	107258-05-30 23:44 G	40896390.36	40896390.49	40896390.62	0.0140	0.0024
Mercury	107258-08-27 03:06 G	40896478.50	40896478.63	40896478.76	0.0140	0.0004
Mercury	107258-11-23 06:28 G	40896566.64	40896566.77	40896566.91	0.0140	0.0017
Mercury	107259-02-19 09:49 G	40896654.79	40896654.91	40896655.05	0.0140	0.0037
Mercury	107259-05-18 13:11 G	40896742.94	40896743.05	40896743.18	0.0140	0.0057
Mercury	107259-08-14 16:47 G	40896831.09	40896831.20	40896831.31	0.0140	0.0076
Mercury	107259-11-10 20:08 G	40896919.25	40896919.34	40896919.44	0.0141	0.0096
Mercury	107260-02-06 23:30 G	40897007.42	40897007.48	40897007.56	0.0141	0.0116
Mercury	107260-05-05 02:52 G	40897095.60	40897095.62	40897095.66	0.0141	0.0136
Venus	107265-08-09 00:56 G	40899017.47	40899017.54	40899017.62	0.0142	0.0133
Venus	107266-03-23 12:56 G	40899243.93	40899244.04	40899244.17	0.0142	0.0117
Moon	107266-06-02 18:56 G	40899315.19	40899315.29	40899315.43	0.0142	0.0127
Earth	107266-06-02 20:23 G	40899315.22	40899315.35	40899315.49	0.0142	0.0121 *
Venus	107266-11-05 00:56 G	40899470.40	40899470.54	40899470.71	0.0142	0.0101
Earth	107267-06-07 19:25 G	40899685.06	40899685.31	40899685.57	0.0142	0.0010
Moon	107267-06-07 19:40 G	40899685.07	40899685.32	40899685.57	0.0142	0.0003 *
Venus	107267-06-19 13:11 G	40899696.88	40899697.05	40899697.24	0.0142	0.0083
Venus	107268-02-01 01:25 G	40899923.37	40899923.56	40899923.77	0.0142	0.0066
Moon	107268-06-11 18:42 G	40900055.09	40900055.28	40900055.48	0.0142	0.0097

Earth	107268-06-11 18:42 G	40900055.11	40900055.28	40900055.47	0.0142	0.0103 *
Venus	107268-09-14 13:54 G	40900149.88	40900150.08	40900150.30	0.0142	0.0049
Venus	107269-04-29 02:37 G	40900376.40	40900376.61	40900376.83	0.0143	0.0031
Venus	107269-12-11 15:20 G	40900602.92	40900603.14	40900603.36	0.0143	0.0013
Venus	107270-07-26 04:04 G	40900829.45	40900829.67	40900829.89	0.0143	0.0005
Venus	107271-03-09 16:47 G	40901055.98	40901056.20	40901056.42	0.0143	0.0023
Venus	107271-10-22 05:30 G	40901282.53	40901282.73	40901282.95	0.0143	0.0042
Venus	107272-06-04 18:28 G	40901509.08	40901509.27	40901509.48	0.0143	0.0060
Venus	107273-01-17 07:40 G	40901735.63	40901735.82	40901736.01	0.0143	0.0077
Venus	107273-08-31 20:23 G	40901962.20	40901962.35	40901962.53	0.0143	0.0095
Venus	107274-04-15 09:35 G	40902188.77	40902188.90	40902189.05	0.0143	0.0112
Venus	107274-11-27 22:47 G	40902415.36	40902415.45	40902415.55	0.0143	0.0129
Mars	107280-08-04 13:25 G	40904491.79	40904492.06	40904492.38	0.0142	0.0076
Mercury	107298-04-04 03:49 G	40910943.57	40910943.66	40910943.77	0.0138	0.0116
Mercury	107298-07-01 11:30 G	40911031.84	40911031.98	40911032.12	0.0138	0.0089
Mercury	107298-09-27 18:56 G	40911120.12	40911120.29	40911120.46	0.0138	0.0062
Mercury	107298-12-25 02:23 G	40911208.42	40911208.60	40911208.79	0.0138	0.0035
Mercury	107299-03-23 10:04 G	40911296.73	40911296.92	40911297.11	0.0138	0.0008
Mercury	107299-06-19 17:44 G	40911385.05	40911385.24	40911385.43	0.0138	0.0020
Mercury	107299-09-16 01:11 G	40911473.37	40911473.55	40911473.74	0.0138	0.0047
Mercury	107299-12-13 08:52 G	40911561.71	40911561.87	40911562.03	0.0138	0.0075
Mercury	107300-03-11 16:18 G	40911650.06	40911650.18	40911650.32	0.0137	0.0102
Mercury	107300-06-07 23:59 G	40911738.45	40911738.50	40911738.57	0.0137	0.0130
Venus	107306-07-10 10:32 G	40913961.87	40913961.94	40913962.04	0.0136	0.0124
Venus	107307-02-21 16:04 G	40914188.06	40914188.17	40914188.31	0.0136	0.0110
Venus	107307-10-05 21:35 G	40914414.26	40914414.40	40914414.56	0.0136	0.0096
Earth	107307-12-07 21:35 G	40914477.20	40914477.40	40914477.63	0.0136	0.0073
Moon	107307-12-08 01:11 G	40914477.34	40914477.55	40914477.78	0.0136	0.0066 *
Venus	107308-05-19 03:06 G	40914640.46	40914640.63	40914640.80	0.0136	0.0081
Moon	107308-12-11 02:52 G	40914846.37	40914846.62	40914846.87	0.0136	0.0014

Earth	107308-12-11 06:28 G	40914846.53	40914846.77	40914847.02	0.0136	0.0022 *
Venus	107308-12-31 08:08 G	40914866.66	40914866.84	40914867.03	0.0136	0.0067
Venus	107309-08-14 12:56 G	40915092.86	40915093.04	40915093.25	0.0136	0.0053
Earth	107309-12-15 14:23 G	40915215.99	40915216.10	40915216.24	0.0136	0.0116
Moon	107309-12-15 17:30 G	40915216.15	40915216.23	40915216.36	0.0136	0.0123 *
Venus	107310-03-28 18:13 G	40915319.06	40915319.26	40915319.47	0.0135	0.0038
Venus	107310-11-09 23:01 G	40915545.26	40915545.46	40915545.68	0.0135	0.0024
Venus	107311-06-24 04:04 G	40915771.46	40915771.67	40915771.88	0.0135	0.0008
Venus	107312-02-05 08:52 G	40915997.66	40915997.87	40915998.08	0.0135	0.0006
Venus	107312-09-18 13:40 G	40916223.86	40916224.07	40916224.29	0.0135	0.0021
Venus	107313-05-02 18:28 G	40916450.07	40916450.27	40916450.48	0.0135	0.0035
Venus	107313-12-14 23:01 G	40916676.27	40916676.46	40916676.67	0.0135	0.0050
Venus	107314-07-29 03:49 G	40916902.48	40916902.66	40916902.85	0.0135	0.0064
Venus	107315-03-12 08:23 G	40917128.69	40917128.85	40917129.04	0.0135	0.0079
Venus	107315-10-24 13:25 G	40917354.91	40917355.06	40917355.22	0.0135	0.0092
Venus	107316-06-06 17:59 G	40917581.13	40917581.25	40917581.39	0.0135	0.0106
Venus	107317-01-18 22:47 G	40917807.36	40917807.45	40917807.55	0.0135	0.0120
Venus	107317-09-02 03:06 G	40918033.61	40918033.63	40918033.68	0.0135	0.0133
Mars	107322-11-24 18:42 G	40919943.00	40919943.28	40919943.56	0.0136	0.0001
Mercury	107341-01-08 10:04 G	40926562.91	40926562.92	40926562.93	0.0140	0.0139
Mercury	107341-04-06 13:40 G	40926651.00	40926651.07	40926651.13	0.0140	0.0119
Mercury	107341-07-03 17:01 G	40926739.12	40926739.21	40926739.30	0.0140	0.0099
Mercury	107341-09-29 20:23 G	40926827.25	40926827.35	40926827.46	0.0140	0.0079
Mercury	107341-12-26 23:59 G	40926915.38	40926915.50	40926915.62	0.0140	0.0059
Mercury	107342-03-25 03:20 G	40927003.52	40927003.64	40927003.77	0.0140	0.0040
Mercury	107342-06-21 06:56 G	40927091.66	40927091.79	40927091.92	0.0140	0.0020
Mercury	107342-09-17 10:18 G	40927179.80	40927179.93	40927180.06	0.0140	0.0001
Mercury	107342-12-14 13:40 G	40927267.94	40927268.07	40927268.20	0.0140	0.0021
Mercury	107343-03-12 17:16 G	40927356.09	40927356.22	40927356.34	0.0140	0.0041
Mercury	107343-06-08 20:37 G	40927444.24	40927444.36	40927444.48	0.0140	0.0060

Mercury	107343-09-04 23:59 G	40927532.39	40927532.50	40927532.61	0.0141	0.0080
Mercury	107343-12-02 03:20 G	40927620.55	40927620.64	40927620.74	0.0141	0.0100
Mercury	107344-02-28 06:56 G	40927708.72	40927708.79	40927708.85	0.0141	0.0120
Mercury	107344-05-26 10:04 G	40927796.92	40927796.92	40927796.94	0.0141	0.0140
Venus	107349-04-09 06:28 G	40929575.74	40929575.77	40929575.83	0.0142	0.0139
Venus	107349-11-21 18:42 G	40929802.17	40929802.28	40929802.39	0.0142	0.0122
Moon	107350-06-04 04:04 G	40929996.56	40929996.67	40929996.80	0.0142	0.0123
Earth	107350-06-04 05:30 G	40929996.59	40929996.73	40929996.88	0.0142	0.0117 *
Venus	107350-07-06 06:13 G	40930028.63	40930028.76	40930028.92	0.0142	0.0106
Venus	107351-02-17 18:28 G	40930255.11	40930255.27	40930255.45	0.0142	0.0089
Earth	107351-06-09 04:47 G	40930366.44	40930366.70	40930366.95	0.0142	0.0006
Moon	107351-06-09 06:28 G	40930366.51	40930366.77	40930367.04	0.0142	0.0003 *
Venus	107351-10-02 06:56 G	40930481.60	40930481.79	40930481.99	0.0142	0.0072
Venus	107352-05-15 19:11 G	40930708.11	40930708.30	40930708.52	0.0142	0.0055
Moon	107352-06-13 01:54 G	40930736.43	40930736.58	40930736.75	0.0142	0.0107
Earth	107352-06-13 03:49 G	40930736.51	40930736.66	40930736.84	0.0142	0.0107 *
Venus	107352-12-28 07:54 G	40930934.62	40930934.83	40930935.05	0.0143	0.0037
Venus	107353-08-11 20:37 G	40931161.14	40931161.36	40931161.58	0.0143	0.0019
Venus	107354-03-26 09:20 G	40931387.67	40931387.89	40931388.11	0.0143	0.0001
Venus	107354-11-07 22:04 G	40931614.20	40931614.42	40931614.65	0.0143	0.0018
Venus	107355-06-22 10:47 G	40931840.74	40931840.95	40931841.18	0.0143	0.0036
Venus	107356-02-03 23:44 G	40932067.29	40932067.49	40932067.70	0.0143	0.0053
Venus	107356-09-17 12:42 G	40932293.85	40932294.03	40932294.23	0.0143	0.0071
Venus	107357-05-02 01:40 G	40932520.41	40932520.57	40932520.76	0.0143	0.0089
Venus	107357-12-14 14:52 G	40932746.98	40932747.12	40932747.28	0.0143	0.0106
Venus	107358-07-29 04:04 G	40932973.56	40932973.67	40932973.78	0.0143	0.0123
Venus	107359-03-12 16:47 G	40933200.17	40933200.20	40933200.25	0.0143	0.0140
Mercury	107382-01-27 03:35 G	40941556.63	40941556.65	40941556.69	0.0138	0.0136
Mercury	107382-04-25 11:16 G	40941644.86	40941644.97	40941645.09	0.0138	0.0109
Mercury	107382-07-22 18:42 G	40941733.13	40941733.28	40941733.44	0.0138	0.0082

Mercury	107382-10-19 02:08 G	40941821.42	40941821.59	40941821.77	0.0138	0.0055
Mercury	107383-01-15 09:49 G	40941909.72	40941909.91	40941910.10	0.0138	0.0028
Mercury	107383-04-13 17:30 G	40941998.03	40941998.23	40941998.42	0.0138	0.0003
Mercury	107383-07-11 00:56 G	40942086.35	40942086.54	40942086.73	0.0138	0.0027
Mercury	107383-10-07 08:23 G	40942174.68	40942174.85	40942175.03	0.0138	0.0055
Mercury	107384-01-03 16:18 G	40942263.02	40942263.18	40942263.33	0.0138	0.0082
Mercury	107384-03-31 23:30 G	40942351.38	40942351.48	40942351.61	0.0137	0.0110
Mercury	107384-06-28 07:25 G	40942439.80	40942439.81	40942439.83	0.0137	0.0137
Venus	107390-03-09 20:37 G	40944520.31	40944520.36	40944520.45	0.0136	0.0128
Venus	107390-10-22 02:23 G	40944746.49	40944746.60	40944746.72	0.0136	0.0114
Venus	107391-06-05 07:40 G	40944972.69	40944972.82	40944972.97	0.0136	0.0100
Moon	107391-12-08 05:01 G	40945158.49	40945158.71	40945158.95	0.0136	0.0061
Earth	107391-12-08 08:08 G	40945158.63	40945158.84	40945159.07	0.0136	0.0068 *
Venus	107392-01-17 12:56 G	40945198.89	40945199.04	40945199.22	0.0136	0.0086
Venus	107392-08-30 18:28 G	40945425.09	40945425.27	40945425.45	0.0136	0.0071
Earth	107392-12-11 16:32 G	40945527.95	40945528.19	40945528.44	0.0136	0.0027
Moon	107392-12-11 19:54 G	40945528.09	40945528.33	40945528.58	0.0136	0.0022 *
Venus	107393-04-13 23:30 G	40945651.29	40945651.48	40945651.68	0.0136	0.0057
Venus	107393-11-26 04:18 G	40945877.49	40945877.68	40945877.89	0.0136	0.0043
Moon	107393-12-15 21:35 G	40945897.31	40945897.40	40945897.52	0.0136	0.0124
Earth	107393-12-16 00:42 G	40945897.43	40945897.53	40945897.66	0.0136	0.0121 *
Venus	107394-07-10 09:20 G	40946103.69	40946103.89	40946104.11	0.0135	0.0028
Venus	107395-02-21 14:23 G	40946329.89	40946330.10	40946330.31	0.0135	0.0013
Venus	107395-10-05 19:25 G	40946556.10	40946556.31	40946556.52	0.0135	0.0002
Venus	107396-05-19 00:13 G	40946782.30	40946782.51	40946782.72	0.0135	0.0016
Venus	107396-12-31 04:47 G	40947008.50	40947008.70	40947008.92	0.0135	0.0031
Venus	107397-08-14 09:35 G	40947234.71	40947234.90	40947235.11	0.0135	0.0045
Venus	107398-03-28 14:23 G	40947460.91	40947461.10	40947461.29	0.0135	0.0059
Venus	107398-11-09 18:56 G	40947687.13	40947687.29	40947687.48	0.0135	0.0074
Venus	107399-06-23 23:44 G	40947913.34	40947913.49	40947913.66	0.0135	0.0088

Venus	107400-02-05 04:32 G	40948139.56	40948139.69	40948139.83	0.0135	0.0101
Venus	107400-09-19 09:06 G	40948365.78	40948365.88	40948366.00	0.0135	0.0115
Venus	107401-05-03 13:25 G	40948592.02	40948592.06	40948592.14	0.0135	0.0129
Mars	107407-07-20 18:42 G	40950861.15	40950861.28	40950861.45	0.0136	0.0114
Mercury	107425-01-29 17:16 G	40957264.19	40957264.22	40957264.25	0.0140	0.0135
Jupiter	107425-04-21 00:42 G	40957345.08	40957345.53	40957346.03	0.0140	0.0051
Mercury	107425-04-27 20:37 G	40957352.29	40957352.36	40957352.44	0.0140	0.0115
Mercury	107425-07-25 00:13 G	40957440.41	40957440.51	40957440.60	0.0140	0.0095
Mercury	107425-10-21 03:35 G	40957528.54	40957528.65	40957528.76	0.0140	0.0075
Mercury	107426-01-17 06:56 G	40957616.67	40957616.79	40957616.92	0.0140	0.0056
Mercury	107426-04-15 10:32 G	40957704.81	40957704.94	40957705.07	0.0140	0.0035
Mercury	107426-07-12 13:54 G	40957792.95	40957793.08	40957793.22	0.0140	0.0016
Mercury	107426-10-08 17:30 G	40957881.09	40957881.23	40957881.36	0.0140	0.0006
Mercury	107427-01-04 20:52 G	40957969.24	40957969.37	40957969.50	0.0140	0.0025
Mercury	107427-04-03 00:13 G	40958057.39	40958057.51	40958057.64	0.0140	0.0044
Mercury	107427-06-30 03:35 G	40958145.54	40958145.65	40958145.77	0.0140	0.0064
Mercury	107427-09-26 06:56 G	40958233.69	40958233.79	40958233.90	0.0141	0.0084
Mercury	107427-12-23 10:32 G	40958321.85	40958321.94	40958322.03	0.0141	0.0104
Mercury	107428-03-20 13:54 G	40958410.02	40958410.08	40958410.14	0.0141	0.0124
Venus	107433-07-22 23:30 G	40960360.39	40960360.48	40960360.58	0.0142	0.0128
Venus	107434-03-06 11:16 G	40960586.85	40960586.97	40960587.12	0.0142	0.0112
Earth	107434-06-05 13:25 G	40960677.93	40960678.06	40960678.23	0.0142	0.0113
Moon	107434-06-05 16:47 G	40960678.07	40960678.20	40960678.37	0.0142	0.0115 *
Venus	107434-10-18 23:16 G	40960813.32	40960813.47	40960813.65	0.0142	0.0096
Venus	107435-06-02 11:30 G	40961039.81	40961039.98	40961040.18	0.0142	0.0078
Moon	107435-06-10 09:49 G	40961047.65	40961047.91	40961048.16	0.0142	0.0003
Earth	107435-06-10 12:56 G	40961047.79	40961048.04	40961048.30	0.0142	0.0003 *
Venus	107436-01-14 23:59 G	40961266.31	40961266.50	40961266.71	0.0142	0.0061
Earth	107436-06-14 12:13 G	40961417.86	40961418.01	40961418.18	0.0142	0.0111
Moon	107436-06-14 15:35 G	40961418.02	40961418.15	40961418.32	0.0142	0.0117 *

Venus	107436-08-28 12:28 G	40961492.81	40961493.02	40961493.24	0.0142	0.0043
Venus	107437-04-12 01:11 G	40961719.34	40961719.55	40961719.78	0.0143	0.0025
Venus	107437-11-24 13:54 G	40961945.86	40961946.08	40961946.31	0.0143	0.0008
Venus	107438-07-09 02:37 G	40962172.39	40962172.61	40962172.84	0.0143	0.0011
Venus	107439-02-20 15:20 G	40962398.93	40962399.14	40962399.37	0.0143	0.0029
Venus	107439-10-05 04:18 G	40962625.48	40962625.68	40962625.90	0.0143	0.0047
Venus	107440-05-18 17:16 G	40962852.03	40962852.22	40962852.43	0.0143	0.0065
Venus	107440-12-31 06:28 G	40963078.59	40963078.77	40963078.95	0.0143	0.0082
Venus	107441-08-14 19:11 G	40963305.15	40963305.30	40963305.47	0.0143	0.0100
Venus	107442-03-29 08:08 G	40963531.73	40963531.84	40963531.98	0.0143	0.0117
Venus	107442-11-10 21:06 G	40963758.32	40963758.38	40963758.47	0.0143	0.0134
Mars	107447-12-21 23:44 G	40965625.18	40965625.49	40965625.83	0.0143	0.0048
Mercury	107466-02-17 10:18 G	40972257.88	40972257.93	40972258.00	0.0138	0.0131
Mercury	107466-05-16 17:44 G	40972346.13	40972346.24	40972346.37	0.0138	0.0104
Mercury	107466-08-13 01:25 G	40972434.41	40972434.56	40972434.72	0.0138	0.0077
Mercury	107466-11-09 08:52 G	40972522.70	40972522.87	40972523.05	0.0138	0.0050
Mercury	107467-02-05 16:32 G	40972611.00	40972611.19	40972611.38	0.0138	0.0022
Mercury	107467-05-04 23:59 G	40972699.31	40972699.50	40972699.70	0.0138	0.0006
Mercury	107467-08-01 07:25 G	40972787.63	40972787.81	40972788.01	0.0138	0.0033
Mercury	107467-10-28 15:06 G	40972875.96	40972876.13	40972876.31	0.0138	0.0060
Mercury	107468-01-24 22:32 G	40972964.31	40972964.44	40972964.60	0.0138	0.0088
Mercury	107468-04-22 06:13 G	40973052.67	40973052.76	40973052.88	0.0137	0.0115
Venus	107473-11-08 06:13 G	40975078.71	40975078.76	40975078.80	0.0136	0.0133
Venus	107474-06-22 11:16 G	40975304.89	40975304.97	40975305.09	0.0136	0.0119
Venus	107475-02-03 16:47 G	40975531.08	40975531.20	40975531.35	0.0136	0.0105
Venus	107475-09-17 22:18 G	40975757.29	40975757.43	40975757.60	0.0136	0.0091
Earth	107475-12-09 17:01 G	40975839.99	40975840.21	40975840.44	0.0136	0.0064
Moon	107475-12-09 17:59 G	40975840.05	40975840.25	40975840.48	0.0136	0.0062 *
Venus	107476-05-01 03:49 G	40975983.49	40975983.66	40975983.84	0.0136	0.0076
Moon	107476-12-12 23:44 G	40976209.25	40976209.49	40976209.75	0.0136	0.0030

Earth	107476-12-13 01:40 G	40976209.33	40976209.57	40976209.82	0.0136	0.0031	*
Venus	107476-12-13 08:52 G	40976209.69	40976209.87	40976210.07	0.0136	0.0062	*
Venus	107477-07-27 13:54 G	40976435.89	40976436.08	40976436.29	0.0136	0.0047	
Earth	107477-12-17 09:49 G	40976578.82	40976578.91	40976579.01	0.0136	0.0125	
Moon	107477-12-17 11:16 G	40976578.87	40976578.97	40976579.07	0.0136	0.0122	*
Venus	107478-03-10 18:56 G	40976662.09	40976662.29	40976662.50	0.0135	0.0033	
Venus	107478-10-23 00:13 G	40976888.30	40976888.51	40976888.72	0.0135	0.0018	
Venus	107479-06-06 05:01 G	40977114.50	40977114.71	40977114.93	0.0135	0.0005	
Venus	107480-01-18 10:04 G	40977340.70	40977340.92	40977341.13	0.0135	0.0011	
Venus	107480-08-31 14:37 G	40977566.91	40977567.11	40977567.33	0.0135	0.0026	
Venus	107481-04-14 19:25 G	40977793.12	40977793.31	40977793.52	0.0135	0.0041	
Venus	107481-11-27 00:28 G	40978019.32	40978019.52	40978019.71	0.0135	0.0055	
Venus	107482-07-11 04:47 G	40978245.53	40978245.70	40978245.90	0.0135	0.0069	
Venus	107483-02-22 09:35 G	40978471.74	40978471.90	40978472.08	0.0135	0.0083	
Venus	107483-10-06 14:08 G	40978697.96	40978698.09	40978698.26	0.0135	0.0097	
Venus	107484-05-19 18:56 G	40978924.18	40978924.29	40978924.42	0.0135	0.0111	
Venus	107484-12-31 23:16 G	40979150.41	40979150.47	40979150.57	0.0135	0.0125	
Mars	107490-04-15 00:13 G	40981080.30	40981080.51	40981080.75	0.0135	0.0078	
Mercury	107509-02-20 00:13 G	40987965.47	40987965.51	40987965.56	0.0140	0.0131	
Mercury	107509-05-19 03:49 G	40988053.58	40988053.66	40988053.74	0.0140	0.0111	
Mercury	107509-08-15 07:11 G	40988141.70	40988141.80	40988141.90	0.0140	0.0091	
Mercury	107509-11-11 10:47 G	40988229.83	40988229.95	40988230.06	0.0140	0.0071	
Mercury	107510-02-07 14:08 G	40988317.97	40988318.09	40988318.22	0.0140	0.0051	
Mercury	107510-05-06 17:30 G	40988406.11	40988406.23	40988406.37	0.0140	0.0032	
Mercury	107510-08-02 21:06 G	40988494.25	40988494.38	40988494.51	0.0140	0.0011	
Mercury	107510-10-30 00:27 G	40988582.39	40988582.52	40988582.66	0.0140	0.0009	
Mercury	107511-01-26 03:49 G	40988670.54	40988670.66	40988670.80	0.0140	0.0029	
Mercury	107511-04-24 07:25 G	40988758.68	40988758.81	40988758.93	0.0140	0.0048	
Mercury	107511-07-21 10:47 G	40988846.83	40988846.95	40988847.06	0.0140	0.0068	
Mercury	107511-10-17 13:54 G	40988934.99	40988935.08	40988935.19	0.0141	0.0089	

Mercury	107512-01-13 17:30 G	40989023.15	40989023.23	40989023.32	0.0141	0.0108
Mercury	107512-04-10 20:51 G	40989111.32	40989111.37	40989111.43	0.0141	0.0128
Venus	107517-03-23 04:32 G	40990918.63	40990918.69	40990918.78	0.0142	0.0134
Venus	107517-11-04 16:47 G	40991145.07	40991145.20	40991145.32	0.0142	0.0117
Moon	107518-06-06 18:27 G	40991359.11	40991359.27	40991359.45	0.0142	0.0106
Earth	107518-06-06 22:03 G	40991359.27	40991359.42	40991359.60	0.0142	0.0110 *
Venus	107518-06-19 04:18 G	40991371.54	40991371.68	40991371.85	0.0142	0.0101
Venus	107519-01-31 16:18 G	40991598.02	40991598.18	40991598.38	0.0142	0.0085
Earth	107519-06-11 21:20 G	40991729.13	40991729.39	40991729.65	0.0142	0.0002
Moon	107519-06-12 00:56 G	40991729.29	40991729.54	40991729.80	0.0142	0.0003 *
Venus	107519-09-15 05:01 G	40991824.51	40991824.71	40991824.90	0.0142	0.0067
Venus	107520-04-28 17:15 G	40992051.02	40992051.22	40992051.44	0.0142	0.0049
Moon	107520-06-15 17:15 G	40992099.11	40992099.22	40992099.37	0.0142	0.0122
Earth	107520-06-15 20:37 G	40992099.22	40992099.36	40992099.52	0.0142	0.0115 *
Venus	107520-12-11 05:59 G	40992277.53	40992277.75	40992277.96	0.0142	0.0032
Venus	107521-07-25 18:27 G	40992504.05	40992504.27	40992504.49	0.0143	0.0014
Venus	107522-03-09 07:11 G	40992730.58	40992730.80	40992731.02	0.0143	0.0004
Venus	107522-10-21 19:54 G	40992957.11	40992957.33	40992957.56	0.0143	0.0022
Venus	107523-06-05 08:51 G	40993183.66	40993183.87	40993184.08	0.0143	0.0040
Venus	107524-01-17 21:35 G	40993410.20	40993410.40	40993410.61	0.0143	0.0058
Venus	107524-08-31 10:18 G	40993636.75	40993636.93	40993637.13	0.0143	0.0076
Venus	107525-04-14 23:30 G	40993863.32	40993863.48	40993863.65	0.0143	0.0093
Venus	107525-11-27 12:27 G	40994089.88	40994090.02	40994090.16	0.0143	0.0110
Venus	107526-07-12 01:11 G	40994316.46	40994316.55	40994316.66	0.0143	0.0127
Mars	107532-08-18 09:20 G	40996545.72	40996545.89	40996546.08	0.0142	0.0120
Mercury	107550-03-10 16:32 G	41002959.14	41002959.19	41002959.28	0.0138	0.0127
Jupiter	107550-03-25 16:18 G	41002974.07	41002974.18	41002974.37	0.0138	0.0132
Mercury	107550-06-07 00:13 G	41003047.39	41003047.51	41003047.65	0.0138	0.0100
Mercury	107550-09-03 07:39 G	41003135.67	41003135.82	41003135.99	0.0138	0.0073
Mercury	107550-11-30 15:20 G	41003223.96	41003224.14	41003224.32	0.0138	0.0045

Mercury	107551-02-26 23:01 G	41003312.27	41003312.46	41003312.65	0.0138	0.0018
Mercury	107551-05-26 06:27 G	41003400.58	41003400.77	41003400.96	0.0138	0.0009
Mercury	107551-08-22 13:54 G	41003488.90	41003489.08	41003489.27	0.0138	0.0037
Mercury	107551-11-18 21:20 G	41003577.23	41003577.39	41003577.57	0.0138	0.0065
Mercury	107552-02-15 05:01 G	41003665.58	41003665.71	41003665.86	0.0138	0.0092
Mercury	107552-05-13 12:56 G	41003753.94	41003754.04	41003754.13	0.0137	0.0119
Venus	107558-02-20 20:23 G	41005863.27	41005863.35	41005863.45	0.0136	0.0124
Venus	107558-10-05 02:08 G	41006089.47	41006089.59	41006089.72	0.0136	0.0110
Venus	107559-05-19 07:39 G	41006315.67	41006315.82	41006315.98	0.0136	0.0095
Earth	107559-12-11 01:39 G	41006521.36	41006521.57	41006521.81	0.0136	0.0061
Moon	107559-12-11 02:51 G	41006521.39	41006521.62	41006521.85	0.0136	0.0063 *
Venus	107559-12-31 12:56 G	41006541.88	41006542.04	41006542.22	0.0136	0.0081
Venus	107560-08-13 17:59 G	41006768.08	41006768.25	41006768.45	0.0136	0.0067
Moon	107560-12-14 10:03 G	41006890.69	41006890.92	41006891.15	0.0136	0.0039
Earth	107560-12-14 10:32 G	41006890.70	41006890.94	41006891.19	0.0136	0.0034 *
Venus	107561-03-27 23:30 G	41006994.29	41006994.48	41006994.68	0.0136	0.0052
Venus	107561-11-09 04:32 G	41007220.49	41007220.69	41007220.90	0.0136	0.0038
Earth	107561-12-18 18:42 G	41007260.22	41007260.28	41007260.37	0.0136	0.0129
Moon	107561-12-18 19:54 G	41007260.23	41007260.33	41007260.46	0.0136	0.0122 *
Venus	107562-06-23 09:49 G	41007446.70	41007446.91	41007447.12	0.0135	0.0023
Venus	107563-02-04 14:51 G	41007672.91	41007673.12	41007673.33	0.0135	0.0008
Venus	107563-09-18 19:54 G	41007899.11	41007899.33	41007899.54	0.0135	0.0007
Venus	107564-05-02 00:42 G	41008125.32	41008125.53	41008125.74	0.0135	0.0021
Venus	107564-12-14 05:30 G	41008351.53	41008351.73	41008351.94	0.0135	0.0035
Venus	107565-07-28 10:18 G	41008577.73	41008577.93	41008578.13	0.0135	0.0050
Venus	107566-03-11 14:51 G	41008803.94	41008804.12	41008804.32	0.0135	0.0064
Venus	107566-10-23 19:39 G	41009030.16	41009030.32	41009030.50	0.0135	0.0078
Venus	107567-06-07 00:13 G	41009256.37	41009256.51	41009256.68	0.0135	0.0092
Venus	107568-01-19 05:01 G	41009482.58	41009482.71	41009482.85	0.0135	0.0106
Venus	107568-09-01 09:20 G	41009708.81	41009708.89	41009709.00	0.0135	0.0119

Venus	107569-04-15 14:08 G	41009935.06	41009935.09	41009935.14	0.0135	0.0132
Mars	107574-12-09 00:56 G	41011998.27	41011998.54	41011998.81	0.0135	0.0038
Mercury	107593-03-12 07:11 G	41018666.76	41018666.80	41018666.87	0.0140	0.0127
Mercury	107593-06-08 10:47 G	41018754.87	41018754.95	41018755.04	0.0140	0.0107
Mercury	107593-09-04 14:08 G	41018843.00	41018843.09	41018843.21	0.0140	0.0087
Mercury	107593-12-01 17:44 G	41018931.13	41018931.24	41018931.36	0.0140	0.0067
Mercury	107594-02-27 21:20 G	41019019.27	41019019.39	41019019.52	0.0140	0.0047
Mercury	107594-05-27 00:42 G	41019107.40	41019107.53	41019107.67	0.0140	0.0027
Mercury	107594-08-23 04:18 G	41019195.54	41019195.68	41019195.81	0.0140	0.0007
Mercury	107594-11-19 07:39 G	41019283.69	41019283.82	41019283.95	0.0140	0.0013
Mercury	107595-02-15 11:01 G	41019371.84	41019371.96	41019372.09	0.0140	0.0033
Mercury	107595-05-14 14:23 G	41019459.98	41019460.10	41019460.23	0.0140	0.0053
Mercury	107595-08-10 17:59 G	41019548.14	41019548.25	41019548.36	0.0140	0.0073
Mercury	107595-11-06 21:20 G	41019636.29	41019636.39	41019636.49	0.0140	0.0092
Mercury	107596-02-03 00:27 G	41019724.45	41019724.52	41019724.61	0.0141	0.0113
Mercury	107596-05-01 04:03 G	41019812.63	41019812.67	41019812.72	0.0141	0.0132
Venus	107600-11-20 10:18 G	41021476.90	41021476.93	41021476.99	0.0142	0.0139
Venus	107601-07-04 22:03 G	41021703.32	41021703.42	41021703.54	0.0142	0.0123
Venus	107602-02-16 10:03 G	41021929.78	41021929.92	41021930.07	0.0142	0.0106
Earth	107602-06-07 07:11 G	41022040.65	41022040.80	41022040.99	0.0142	0.0106
Moon	107602-06-07 09:49 G	41022040.75	41022040.91	41022041.11	0.0142	0.0098 *
Venus	107602-09-30 22:18 G	41022156.26	41022156.43	41022156.60	0.0142	0.0089
Venus	107603-05-15 10:18 G	41022382.75	41022382.93	41022383.13	0.0142	0.0073
Moon	107603-06-12 04:18 G	41022410.42	41022410.68	41022410.95	0.0142	0.0003
Earth	107603-06-12 06:42 G	41022410.53	41022410.78	41022411.04	0.0142	0.0007 *
Venus	107603-12-27 22:32 G	41022609.25	41022609.44	41022609.66	0.0142	0.0055
Earth	107604-06-16 05:44 G	41022780.62	41022780.74	41022780.90	0.0142	0.0119
Moon	107604-06-16 07:11 G	41022780.70	41022780.80	41022780.94	0.0142	0.0125 *
Venus	107604-08-10 11:15 G	41022835.75	41022835.97	41022836.18	0.0142	0.0038
Venus	107605-03-24 23:44 G	41023062.27	41023062.49	41023062.72	0.0142	0.0020

Venus	107605-11-06 12:27 G	41023288.80	41023289.02	41023289.24	0.0143	0.0002
Venus	107606-06-21 01:11 G	41023515.33	41023515.55	41023515.77	0.0143	0.0016
Venus	107607-02-02 13:39 G	41023741.86	41023742.07	41023742.29	0.0143	0.0034
Venus	107607-09-17 02:23 G	41023968.40	41023968.60	41023968.82	0.0143	0.0052
Venus	107608-04-30 15:35 G	41024194.96	41024195.15	41024195.35	0.0143	0.0069
Venus	107608-12-13 04:03 G	41024421.51	41024421.67	41024421.86	0.0143	0.0087
Venus	107609-07-27 17:01 G	41024648.07	41024648.21	41024648.37	0.0143	0.0104
Venus	107610-03-11 05:44 G	41024874.64	41024874.74	41024874.87	0.0143	0.0121
Venus	107610-10-23 18:27 G	41025101.24	41025101.27	41025101.35	0.0143	0.0138
Mercury	107634-03-30 23:01 G	41033660.38	41033660.46	41033660.55	0.0138	0.0123
Mercury	107634-06-27 06:27 G	41033748.64	41033748.77	41033748.91	0.0138	0.0096
Mercury	107634-09-23 13:54 G	41033836.92	41033837.08	41033837.25	0.0138	0.0069
Mercury	107634-12-20 21:35 G	41033925.22	41033925.40	41033925.58	0.0138	0.0042
Mercury	107635-03-19 05:01 G	41034013.52	41034013.71	41034013.91	0.0138	0.0015
Mercury	107635-06-15 12:42 G	41034101.84	41034102.03	41034102.22	0.0138	0.0013
Mercury	107635-09-11 20:08 G	41034190.16	41034190.34	41034190.53	0.0138	0.0040
Mercury	107635-12-09 03:35 G	41034278.49	41034278.65	41034278.83	0.0138	0.0068
Mercury	107636-03-06 11:30 G	41034366.84	41034366.98	41034367.12	0.0138	0.0095
Mercury	107636-06-02 18:42 G	41034455.21	41034455.28	41034455.38	0.0137	0.0123
Venus	107641-10-21 04:32 G	41036421.63	41036421.69	41036421.77	0.0136	0.0128
Venus	107642-06-04 10:03 G	41036647.82	41036647.92	41036648.05	0.0136	0.0115
Venus	107643-01-16 15:49 G	41036874.02	41036874.16	41036874.31	0.0136	0.0100
Venus	107643-08-30 21:06 G	41037100.23	41037100.38	41037100.56	0.0136	0.0086
Moon	107643-12-11 06:13 G	41037202.56	41037202.76	41037202.99	0.0136	0.0066
Earth	107643-12-11 09:06 G	41037202.66	41037202.88	41037203.12	0.0136	0.0059 *
Venus	107644-04-13 02:51 G	41037326.44	41037326.62	41037326.80	0.0136	0.0071
Venus	107644-11-25 07:54 G	41037552.65	41037552.83	41037553.03	0.0136	0.0057
Earth	107644-12-14 17:59 G	41037572.02	41037572.25	41037572.50	0.0136	0.0037
Moon	107644-12-14 20:37 G	41037572.13	41037572.36	41037572.61	0.0136	0.0044 *
Venus	107645-07-09 13:11 G	41037778.85	41037779.05	41037779.26	0.0136	0.0042

Moon	107645-12-18 23:15 G	41037941.39	41037941.47	41037941.59	0.0136	0.0125
Earth	107645-12-19 02:37 G	41037941.56	41037941.61	41037941.68	0.0136	0.0131 *
Venus	107646-02-20 18:27 G	41038005.06	41038005.27	41038005.48	0.0136	0.0028
Venus	107646-10-04 23:44 G	41038231.28	41038231.49	41038231.70	0.0135	0.0013
Venus	107647-05-19 04:47 G	41038457.49	41038457.70	41038457.91	0.0135	0.0002
Venus	107647-12-31 09:35 G	41038683.69	41038683.90	41038684.12	0.0135	0.0016
Venus	107648-08-13 14:23 G	41038909.90	41038910.10	41038910.31	0.0135	0.0031
Venus	107649-03-27 19:11 G	41039136.11	41039136.30	41039136.51	0.0135	0.0045
Venus	107649-11-08 23:59 G	41039362.32	41039362.50	41039362.70	0.0135	0.0059
Venus	107650-06-23 04:47 G	41039588.53	41039588.70	41039588.88	0.0135	0.0073
Venus	107651-02-04 09:20 G	41039814.74	41039814.89	41039815.06	0.0135	0.0087
Venus	107651-09-18 13:54 G	41040040.95	41040041.08	41040041.23	0.0135	0.0101
Venus	107652-05-01 18:42 G	41040267.18	41040267.28	41040267.40	0.0135	0.0114
Venus	107652-12-13 23:30 G	41040493.41	41040493.48	41040493.55	0.0135	0.0128
Mercury	107677-04-01 14:23 G	41049368.05	41049368.10	41049368.18	0.0140	0.0122
Mercury	107677-06-28 17:59 G	41049456.17	41049456.25	41049456.35	0.0140	0.0102
Mercury	107677-09-24 21:35 G	41049544.30	41049544.40	41049544.51	0.0140	0.0082
Mercury	107677-12-22 00:56 G	41049632.43	41049632.54	41049632.67	0.0140	0.0062
Mercury	107678-03-20 04:32 G	41049720.57	41049720.69	41049720.82	0.0140	0.0042
Mercury	107678-06-16 08:08 G	41049808.70	41049808.84	41049808.97	0.0140	0.0022
Mercury	107678-09-12 11:30 G	41049896.85	41049896.98	41049897.11	0.0140	0.0002
Mercury	107678-12-09 14:51 G	41049984.99	41049985.12	41049985.25	0.0140	0.0018
Mercury	107679-03-07 18:13 G	41050073.14	41050073.26	41050073.39	0.0140	0.0038
Mercury	107679-06-03 21:49 G	41050161.29	41050161.41	41050161.53	0.0140	0.0058
Mercury	107679-08-31 01:11 G	41050249.44	41050249.55	41050249.66	0.0140	0.0078
Mercury	107679-11-27 04:32 G	41050337.60	41050337.69	41050337.79	0.0141	0.0097
Mercury	107680-02-23 07:39 G	41050425.76	41050425.82	41050425.91	0.0141	0.0118
Mercury	107680-05-21 11:15 G	41050513.95	41050513.97	41050514.00	0.0141	0.0137
Venus	107685-03-04 04:18 G	41052261.60	41052261.68	41052261.79	0.0142	0.0128
Venus	107685-10-16 16:18 G	41052488.06	41052488.18	41052488.33	0.0142	0.0111

Venus	107686-05-31 04:32 G	41052714.53	41052714.69	41052714.86	0.0142	0.0094
Moon	107686-06-07 17:15 G	41052722.03	41052722.22	41052722.43	0.0142	0.0092
Earth	107686-06-07 17:44 G	41052722.07	41052722.24	41052722.44	0.0142	0.0100 *
Venus	107687-01-12 16:32 G	41052941.01	41052941.19	41052941.38	0.0142	0.0078
Moon	107687-06-12 17:01 G	41053091.96	41053092.21	41053092.46	0.0142	0.0007
Earth	107687-06-12 17:15 G	41053091.96	41053092.22	41053092.48	0.0142	0.0012 *
Venus	107687-08-27 04:47 G	41053167.50	41053167.70	41053167.91	0.0142	0.0060
Venus	107688-04-09 17:15 G	41053394.01	41053394.22	41053394.44	0.0142	0.0043
Earth	107688-06-16 16:18 G	41053462.07	41053462.18	41053462.32	0.0142	0.0124
Moon	107688-06-16 17:15 G	41053462.11	41053462.22	41053462.36	0.0142	0.0125 *
Venus	107688-11-22 05:44 G	41053620.53	41053620.74	41053620.96	0.0142	0.0026
Venus	107689-07-06 18:13 G	41053847.04	41053847.26	41053847.49	0.0142	0.0009
Venus	107690-02-18 06:56 G	41054073.57	41054073.79	41054074.01	0.0143	0.0010
Venus	107690-10-02 19:39 G	41054300.10	41054300.32	41054300.54	0.0143	0.0028
Venus	107691-05-17 08:23 G	41054526.64	41054526.85	41054527.07	0.0143	0.0046
Venus	107691-12-29 20:51 G	41054753.19	41054753.37	41054753.59	0.0143	0.0064
Venus	107692-08-12 09:49 G	41054979.74	41054979.91	41054980.10	0.0143	0.0081
Venus	107693-03-26 22:47 G	41055206.30	41055206.45	41055206.62	0.0143	0.0098
Venus	107693-11-08 11:30 G	41055432.86	41055432.98	41055433.12	0.0143	0.0115
Venus	107694-06-23 00:13 G	41055659.44	41055659.51	41055659.61	0.0143	0.0132
Mars	107700-01-02 20:08 G	41057678.99	41057679.34	41057679.68	0.0142	0.0002
Mercury	107718-04-21 05:30 G	41064361.64	41064361.73	41064361.84	0.0138	0.0118
Mercury	107718-07-18 12:56 G	41064449.91	41064450.04	41064450.19	0.0138	0.0091
Mercury	107718-10-14 20:37 G	41064538.19	41064538.36	41064538.53	0.0138	0.0064
Mercury	107719-01-11 04:03 G	41064626.49	41064626.67	41064626.86	0.0138	0.0037
Mercury	107719-04-09 11:44 G	41064714.80	41064714.99	41064715.18	0.0138	0.0010
Mercury	107719-07-06 19:11 G	41064803.11	41064803.30	41064803.49	0.0138	0.0018
Mercury	107719-10-03 02:51 G	41064891.43	41064891.62	41064891.80	0.0138	0.0045
Mercury	107719-12-30 10:03 G	41064979.77	41064979.92	41064980.09	0.0138	0.0073
Mercury	107720-03-27 17:44 G	41065068.12	41065068.24	41065068.38	0.0138	0.0100

Mercury	107720-06-24 01:25 G	41065156.49	41065156.56	41065156.64	0.0137	0.0127
Venus	107725-06-21 13:11 G	41066980.01	41066980.05	41066980.11	0.0136	0.0133
Venus	107726-02-02 18:56 G	41067206.20	41067206.29	41067206.40	0.0136	0.0119
Venus	107726-09-17 00:42 G	41067432.40	41067432.53	41067432.67	0.0136	0.0104
Venus	107727-05-01 06:13 G	41067658.61	41067658.76	41067658.93	0.0136	0.0090
Earth	107727-12-12 17:30 G	41067884.01	41067884.23	41067884.47	0.0136	0.0056
Moon	107727-12-12 20:51 G	41067884.17	41067884.37	41067884.61	0.0136	0.0064 *
Venus	107727-12-13 11:30 G	41067884.82	41067884.98	41067885.17	0.0136	0.0076
Venus	107728-07-26 16:47 G	41068111.03	41068111.20	41068111.41	0.0136	0.0062
Moon	107728-12-15 23:01 G	41068253.23	41068253.46	41068253.71	0.0136	0.0045
Earth	107728-12-16 02:37 G	41068253.37	41068253.61	41068253.86	0.0136	0.0039 *
Venus	107729-03-09 22:18 G	41068337.24	41068337.43	41068337.64	0.0136	0.0047
Venus	107729-10-22 03:35 G	41068563.45	41068563.65	41068563.87	0.0136	0.0033
Earth	107729-12-20 10:47 G	41068622.93	41068622.95	41068623.00	0.0136	0.0134
Moon	107729-12-20 14:37 G	41068623.06	41068623.11	41068623.18	0.0136	0.0131
Venus	107730-06-05 08:51 G	41068789.66	41068789.87	41068790.09	0.0136	0.0018
Venus	107731-01-17 13:54 G	41069015.87	41069016.08	41069016.30	0.0135	0.0004
Venus	107731-08-31 18:56 G	41069242.08	41069242.29	41069242.50	0.0135	0.0011
Venus	107732-04-13 23:44 G	41069468.29	41069468.49	41069468.70	0.0135	0.0026
Venus	107732-11-26 04:32 G	41069694.50	41069694.69	41069694.90	0.0135	0.0041
Venus	107733-07-10 09:20 G	41069920.70	41069920.89	41069921.09	0.0135	0.0055
Venus	107734-02-21 14:08 G	41070146.91	41070147.09	41070147.28	0.0135	0.0069
Venus	107734-10-05 18:56 G	41070373.13	41070373.29	41070373.46	0.0135	0.0083
Venus	107735-05-19 23:30 G	41070599.34	41070599.48	41070599.64	0.0135	0.0096
Venus	107736-01-01 03:49 G	41070825.56	41070825.66	41070825.80	0.0135	0.0111
Venus	107736-08-14 08:37 G	41071051.79	41071051.86	41071051.96	0.0135	0.0124
Mars	107742-04-29 04:18 G	41073135.42	41073135.68	41073135.95	0.0136	0.0042
Mercury	107761-01-24 18:13 G	41079981.24	41079981.26	41079981.29	0.0140	0.0137
Mercury	107761-04-22 21:49 G	41080069.34	41080069.41	41080069.48	0.0140	0.0117
Mercury	107761-07-20 01:11 G	41080157.46	41080157.55	41080157.65	0.0140	0.0097

Mercury	107761-10-16 04:47 G	41080245.59	41080245.70	41080245.81	0.0140	0.0077
Mercury	107762-01-12 08:08 G	41080333.73	41080333.84	41080333.97	0.0140	0.0057
Mercury	107762-04-10 11:44 G	41080421.86	41080421.99	41080422.12	0.0140	0.0037
Mercury	107762-07-07 15:20 G	41080510.00	41080510.14	41080510.27	0.0140	0.0018
Mercury	107762-10-03 18:42 G	41080598.15	41080598.28	41080598.41	0.0140	0.0003
Mercury	107762-12-30 22:03 G	41080686.29	41080686.42	41080686.55	0.0140	0.0023
Mercury	107763-03-29 01:39 G	41080774.44	41080774.57	41080774.69	0.0140	0.0043
Mercury	107763-06-25 05:01 G	41080862.59	41080862.71	41080862.83	0.0140	0.0062
Mercury	107763-09-21 08:23 G	41080950.75	41080950.85	41080950.96	0.0141	0.0082
Mercury	107763-12-18 11:30 G	41081038.90	41081038.98	41081039.08	0.0141	0.0103
Mercury	107764-03-15 15:06 G	41081127.07	41081127.13	41081127.20	0.0141	0.0122
Venus	107768-11-02 11:01 G	41082819.89	41082819.96	41082820.05	0.0142	0.0132
Venus	107769-06-16 22:47 G	41083046.33	41083046.45	41083046.58	0.0142	0.0116
Venus	107770-01-29 10:47 G	41083272.80	41083272.95	41083273.11	0.0142	0.0099
Moon	107770-06-09 02:37 G	41083403.43	41083403.61	41083403.81	0.0142	0.0091
Earth	107770-06-09 04:18 G	41083403.51	41083403.68	41083403.89	0.0142	0.0095 *
Venus	107770-09-12 23:01 G	41083499.28	41083499.46	41083499.64	0.0142	0.0082
Venus	107771-04-27 11:15 G	41083725.77	41083725.97	41083726.17	0.0142	0.0065
Earth	107771-06-14 03:49 G	41083773.40	41083773.66	41083773.91	0.0142	0.0017
Moon	107771-06-14 06:42 G	41083773.52	41083773.78	41083774.04	0.0142	0.0020 *
Venus	107771-12-09 23:30 G	41083952.27	41083952.48	41083952.69	0.0142	0.0048
Moon	107772-06-18 00:13 G	41084143.40	41084143.51	41084143.64	0.0142	0.0125
Earth	107772-06-18 03:06 G	41084143.54	41084143.63	41084143.75	0.0142	0.0130 *
Venus	107772-07-23 11:59 G	41084178.78	41084179.00	41084179.22	0.0142	0.0031
Venus	107773-03-07 00:27 G	41084405.30	41084405.52	41084405.74	0.0142	0.0013
Venus	107773-10-19 13:11 G	41084631.83	41084632.05	41084632.27	0.0142	0.0005
Venus	107774-06-03 01:39 G	41084858.36	41084858.57	41084858.80	0.0143	0.0023
Venus	107775-01-15 14:08 G	41085084.89	41085085.09	41085085.32	0.0143	0.0041
Venus	107775-08-30 03:06 G	41085311.43	41085311.63	41085311.84	0.0143	0.0058
Venus	107776-04-12 15:49 G	41085537.98	41085538.16	41085538.36	0.0143	0.0076

Venus	107776-11-25 04:32 G	41085764.54	41085764.69	41085764.87	0.0143	0.0093
Venus	107777-07-09 17:15 G	41085991.10	41085991.22	41085991.38	0.0143	0.0110
Venus	107778-02-21 05:59 G	41086217.67	41086217.75	41086217.87	0.0143	0.0127
Mercury	107802-05-12 12:27 G	41095062.92	41095063.02	41095063.13	0.0138	0.0112
Mercury	107802-08-08 19:54 G	41095151.19	41095151.33	41095151.48	0.0138	0.0085
Mercury	107802-11-05 03:20 G	41095239.47	41095239.64	41095239.82	0.0138	0.0058
Mercury	107803-02-01 11:01 G	41095327.77	41095327.96	41095328.14	0.0138	0.0031
Mercury	107803-04-30 18:27 G	41095416.08	41095416.27	41095416.46	0.0138	0.0004
Mercury	107803-07-28 01:54 G	41095504.39	41095504.58	41095504.77	0.0138	0.0023
Mercury	107803-10-24 09:20 G	41095592.72	41095592.89	41095593.08	0.0138	0.0051
Mercury	107804-01-20 16:47 G	41095681.05	41095681.20	41095681.37	0.0138	0.0078
Mercury	107804-04-18 00:27 G	41095769.40	41095769.52	41095769.65	0.0137	0.0105
Mercury	107804-07-15 07:54 G	41095857.79	41095857.83	41095857.89	0.0137	0.0132
Venus	107809-10-04 03:49 G	41097764.58	41097764.66	41097764.76	0.0136	0.0123
Venus	107810-05-18 09:20 G	41097990.78	41097990.89	41097991.04	0.0136	0.0110
Venus	107810-12-30 15:06 G	41098216.99	41098217.13	41098217.30	0.0136	0.0095
Venus	107811-08-13 20:51 G	41098443.20	41098443.37	41098443.54	0.0136	0.0080
Moon	107811-12-13 23:15 G	41098565.25	41098565.47	41098565.71	0.0136	0.0057
Earth	107811-12-14 02:08 G	41098565.37	41098565.59	41098565.83	0.0136	0.0053 *
Venus	107812-03-27 02:08 G	41098669.41	41098669.59	41098669.78	0.0136	0.0066
Venus	107812-11-08 07:25 G	41098895.62	41098895.81	41098896.02	0.0136	0.0052
Earth	107812-12-17 11:15 G	41098934.73	41098934.97	41098935.21	0.0136	0.0042
Moon	107812-12-17 13:11 G	41098934.83	41098935.05	41098935.29	0.0136	0.0042 *
Venus	107813-06-22 12:56 G	41099121.83	41099122.04	41099122.24	0.0136	0.0037
Venus	107814-02-03 17:59 G	41099348.04	41099348.25	41099348.46	0.0136	0.0022
Venus	107814-09-17 23:15 G	41099574.25	41099574.47	41099574.68	0.0135	0.0008
Venus	107815-05-02 04:03 G	41099800.46	41099800.67	41099800.89	0.0135	0.0007
Venus	107815-12-14 08:51 G	41100026.67	41100026.87	41100027.09	0.0135	0.0022
Venus	107816-07-27 13:54 G	41100252.87	41100253.08	41100253.28	0.0135	0.0036
Venus	107817-03-10 18:13 G	41100479.08	41100479.26	41100479.47	0.0135	0.0051

Venus	107817-10-22 23:15 G	41100705.29	41100705.47	41100705.67	0.0135	0.0064
Venus	107818-06-06 03:49 G	41100931.50	41100931.66	41100931.85	0.0135	0.0078
Venus	107819-01-18 08:51 G	41101157.71	41101157.87	41101158.02	0.0135	0.0092
Venus	107819-09-01 13:11 G	41101383.93	41101384.05	41101384.19	0.0135	0.0105
Venus	107820-04-14 17:30 G	41101610.15	41101610.23	41101610.35	0.0135	0.0120
Venus	107820-11-26 22:18 G	41101836.41	41101836.43	41101836.49	0.0135	0.0133
Mars	107826-12-23 03:49 G	41104053.44	41104053.66	41104053.91	0.0136	0.0072
Mercury	107845-02-15 01:11 G	41110682.52	41110682.55	41110682.60	0.0140	0.0133
Mercury	107845-05-14 04:47 G	41110770.63	41110770.70	41110770.79	0.0140	0.0113
Mercury	107845-08-10 08:23 G	41110858.75	41110858.85	41110858.95	0.0140	0.0093
Mercury	107845-11-06 11:44 G	41110946.89	41110946.99	41110947.11	0.0140	0.0073
Mercury	107846-02-02 15:20 G	41111035.02	41111035.14	41111035.27	0.0140	0.0053
Mercury	107846-05-01 18:42 G	41111123.16	41111123.28	41111123.42	0.0140	0.0034
Mercury	107846-07-28 22:18 G	41111211.30	41111211.43	41111211.56	0.0140	0.0013
Mercury	107846-10-25 01:39 G	41111299.44	41111299.57	41111299.71	0.0140	0.0009
Mercury	107847-01-21 05:15 G	41111387.59	41111387.72	41111387.85	0.0140	0.0027
Mercury	107847-04-19 08:37 G	41111475.74	41111475.86	41111475.99	0.0141	0.0047
Mercury	107847-07-16 11:59 G	41111563.89	41111564.00	41111564.12	0.0141	0.0067
Mercury	107847-10-12 15:20 G	41111652.04	41111652.14	41111652.25	0.0141	0.0087
Mercury	107848-01-08 18:42 G	41111740.21	41111740.28	41111740.38	0.0141	0.0107
Mercury	107848-04-05 22:18 G	41111828.38	41111828.43	41111828.49	0.0141	0.0126
Venus	107852-07-03 17:01 G	41113378.17	41113378.21	41113378.28	0.0142	0.0137
Venus	107853-02-15 04:47 G	41113604.60	41113604.70	41113604.83	0.0142	0.0121
Venus	107853-09-29 16:32 G	41113831.06	41113831.19	41113831.36	0.0142	0.0105
Venus	107854-05-14 04:47 G	41114057.54	41114057.70	41114057.89	0.0142	0.0088
Earth	107854-06-10 14:23 G	41114084.92	41114085.10	41114085.32	0.0142	0.0090
Moon	107854-06-10 17:44 G	41114085.06	41114085.24	41114085.46	0.0142	0.0092 *
Venus	107854-12-26 17:01 G	41114284.03	41114284.21	41114284.41	0.0142	0.0071
Moon	107855-06-15 10:18 G	41114454.68	41114454.93	41114455.19	0.0142	0.0029
Earth	107855-06-15 13:54 G	41114454.84	41114455.08	41114455.34	0.0142	0.0023 *

Venus	107855-08-10 05:30 G	41114510.52	41114510.73	41114510.94	0.0142	0.0053
Venus	107856-03-23 17:44 G	41114737.04	41114737.24	41114737.47	0.0142	0.0037
Earth	107856-06-19 12:56 G	41114824.98	41114825.04	41114825.14	0.0142	0.0135
Moon	107856-06-19 16:32 G	41114825.10	41114825.19	41114825.33	0.0142	0.0128 *
Venus	107856-11-05 06:27 G	41114963.55	41114963.77	41114963.99	0.0142	0.0018
Venus	107857-06-19 18:56 G	41115190.07	41115190.29	41115190.51	0.0143	0.0001
Venus	107858-02-01 07:25 G	41115416.59	41115416.81	41115417.03	0.0143	0.0017
Venus	107858-09-15 20:08 G	41115643.12	41115643.34	41115643.56	0.0143	0.0035
Venus	107859-04-30 08:37 G	41115869.67	41115869.86	41115870.08	0.0143	0.0053
Venus	107859-12-12 21:35 G	41116096.21	41116096.40	41116096.60	0.0143	0.0070
Venus	107860-07-26 10:18 G	41116322.76	41116322.93	41116323.11	0.0143	0.0087
Venus	107861-03-09 23:15 G	41116549.32	41116549.47	41116549.62	0.0143	0.0104
Venus	107861-10-22 11:59 G	41116775.89	41116776.00	41116776.12	0.0143	0.0121
Venus	107862-06-06 00:56 G	41117002.49	41117002.54	41117002.60	0.0143	0.0138
Mars	107867-05-21 14:23 G	41118812.92	41118813.10	41118813.31	0.0142	0.0118
Mercury	107886-03-05 11:59 G	41125675.97	41125676.00	41125676.07	0.0138	0.0132
Mercury	107886-06-01 19:39 G	41125764.21	41125764.32	41125764.45	0.0138	0.0105
Mercury	107886-08-29 03:06 G	41125852.48	41125852.63	41125852.79	0.0138	0.0078
Mercury	107886-11-25 10:47 G	41125940.77	41125940.95	41125941.12	0.0138	0.0051
Mercury	107887-02-21 17:59 G	41126029.07	41126029.25	41126029.44	0.0138	0.0025
Mercury	107887-05-21 01:39 G	41126117.38	41126117.57	41126117.76	0.0138	0.0003
Mercury	107887-08-17 09:06 G	41126205.69	41126205.88	41126206.07	0.0138	0.0030
Mercury	107887-11-13 16:18 G	41126294.02	41126294.18	41126294.37	0.0138	0.0058
Mercury	107888-02-09 23:59 G	41126382.36	41126382.50	41126382.66	0.0137	0.0084
Mercury	107888-05-08 07:25 G	41126470.71	41126470.81	41126470.93	0.0137	0.0112
Venus	107893-06-03 13:25 G	41128323.00	41128323.06	41128323.15	0.0136	0.0127
Venus	107894-01-15 19:11 G	41128549.20	41128549.30	41128549.44	0.0136	0.0113
Venus	107894-08-30 00:56 G	41128775.41	41128775.54	41128775.70	0.0136	0.0099
Venus	107895-04-13 06:27 G	41129001.62	41129001.77	41129001.95	0.0136	0.0085
Venus	107895-11-25 12:13 G	41129227.83	41129228.01	41129228.20	0.0136	0.0070

Earth	107895-12-14 12:13 G	41129246.78	41129247.01	41129247.25	0.0136	0.0049
Moon	107895-12-14 13:11 G	41129246.83	41129247.05	41129247.29	0.0136	0.0048 *
Venus	107896-07-08 17:30 G	41129454.04	41129454.23	41129454.43	0.0136	0.0056
Moon	107896-12-17 20:23 G	41129616.12	41129616.35	41129616.61	0.0136	0.0042
Earth	107896-12-17 21:06 G	41129616.15	41129616.38	41129616.62	0.0136	0.0047 *
Venus	107897-02-19 22:32 G	41129680.25	41129680.44	41129680.66	0.0136	0.0042
Venus	107897-10-04 04:03 G	41129906.47	41129906.67	41129906.88	0.0136	0.0027
Venus	107898-05-18 09:06 G	41130132.67	41130132.88	41130133.10	0.0135	0.0013
Venus	107898-12-30 14:08 G	41130358.88	41130359.09	41130359.30	0.0135	0.0002
Venus	107899-08-13 18:56 G	41130585.08	41130585.29	41130585.50	0.0135	0.0017
Venus	107900-03-27 23:44 G	41130811.29	41130811.49	41130811.70	0.0135	0.0031
Venus	107900-11-09 04:32 G	41131037.50	41131037.69	41131037.90	0.0135	0.0046
Venus	107901-06-23 09:20 G	41131263.70	41131263.89	41131264.08	0.0135	0.0059
Venus	107902-02-04 13:54 G	41131489.91	41131490.08	41131490.27	0.0135	0.0074
Venus	107902-09-18 18:27 G	41131716.12	41131716.27	41131716.44	0.0135	0.0088
Venus	107903-05-02 23:01 G	41131942.34	41131942.46	41131942.62	0.0135	0.0101
Venus	107903-12-15 04:03 G	41132168.56	41132168.67	41132168.78	0.0135	0.0115
Venus	107904-07-28 08:08 G	41132394.80	41132394.84	41132394.93	0.0135	0.0129
Mars	107909-09-18 08:23 G	41134272.75	41134272.85	41134272.97	0.0135	0.0124
Mercury	107929-03-08 08:23 G	41141383.81	41141383.85	41141383.90	0.0140	0.0129
Mercury	107929-06-04 11:59 G	41141471.92	41141472.00	41141472.08	0.0140	0.0109
Mercury	107929-08-31 15:20 G	41141560.04	41141560.14	41141560.25	0.0140	0.0089
Mercury	107929-11-27 18:56 G	41141648.17	41141648.29	41141648.41	0.0140	0.0069
Mercury	107930-02-23 22:18 G	41141736.31	41141736.43	41141736.56	0.0140	0.0050
Mercury	107930-05-23 01:54 G	41141824.45	41141824.58	41141824.71	0.0140	0.0029
Mercury	107930-08-19 05:15 G	41141912.59	41141912.72	41141912.86	0.0140	0.0010
Mercury	107930-11-15 08:51 G	41142000.73	41142000.87	41142001.00	0.0140	0.0011
Mercury	107931-02-11 12:13 G	41142088.88	41142089.01	41142089.14	0.0140	0.0030
Mercury	107931-05-10 15:35 G	41142177.03	41142177.15	41142177.28	0.0141	0.0050
Mercury	107931-08-06 18:56 G	41142265.18	41142265.29	41142265.41	0.0141	0.0070

Mercury	107931-11-02 22:32 G	41142353.34	41142353.44	41142353.54	0.0141	0.0090
Mercury	107932-01-30 01:54 G	41142441.50	41142441.58	41142441.66	0.0141	0.0110
Mercury	107932-04-27 05:15 G	41142529.68	41142529.72	41142529.77	0.0141	0.0130
Venus	107936-10-16 10:32 G	41144162.84	41144162.94	41144163.04	0.0142	0.0126
Venus	107937-05-30 22:03 G	41144389.30	41144389.42	41144389.57	0.0142	0.0110
Venus	107938-01-12 10:18 G	41144615.76	41144615.93	41144616.10	0.0142	0.0093
Moon	107938-06-11 19:54 G	41144766.15	41144766.33	41144766.54	0.0142	0.0092
Earth	107938-06-11 23:15 G	41144766.28	41144766.47	41144766.69	0.0142	0.0086 *
Venus	107938-08-26 22:18 G	41144842.25	41144842.43	41144842.62	0.0142	0.0077
Venus	107939-04-10 10:32 G	41145068.75	41145068.94	41145069.15	0.0142	0.0060
Earth	107939-06-16 22:32 G	41145136.19	41145136.44	41145136.70	0.0142	0.0026
Moon	107939-06-17 01:39 G	41145136.33	41145136.57	41145136.82	0.0142	0.0035 *
Venus	107939-11-22 22:47 G	41145295.25	41145295.45	41145295.67	0.0142	0.0043
Moon	107940-06-20 18:42 G	41145506.20	41145506.28	41145506.39	0.0142	0.0132
Earth	107940-06-20 22:03 G	41145506.38	41145506.42	41145506.48	0.0142	0.0139 *
Venus	107940-07-06 11:15 G	41145521.75	41145521.97	41145522.19	0.0142	0.0025
Venus	107941-02-17 23:44 G	41145748.27	41145748.49	41145748.72	0.0143	0.0007
Venus	107941-10-02 12:27 G	41145974.79	41145975.02	41145975.24	0.0143	0.0011
Venus	107942-05-17 00:56 G	41146201.33	41146201.54	41146201.77	0.0143	0.0029
Venus	107942-12-29 13:39 G	41146427.86	41146428.07	41146428.29	0.0143	0.0046
Venus	107943-08-13 02:08 G	41146654.41	41146654.59	41146654.80	0.0143	0.0064
Venus	107944-03-26 15:06 G	41146880.96	41146881.13	41146881.32	0.0143	0.0081
Venus	107944-11-08 03:49 G	41147107.52	41147107.66	41147107.84	0.0143	0.0099
Venus	107945-06-22 16:32 G	41147334.08	41147334.19	41147334.34	0.0143	0.0116
Venus	107946-02-04 05:59 G	41147560.67	41147560.75	41147560.83	0.0143	0.0132
Mars	107952-01-17 04:32 G	41149733.39	41149733.69	41149734.03	0.0142	0.0056
Mercury	107970-03-26 19:25 G	41156377.24	41156377.31	41156377.39	0.0138	0.0125
Mercury	107970-06-23 02:37 G	41156465.49	41156465.61	41156465.75	0.0138	0.0099
Mercury	107970-09-19 10:03 G	41156553.77	41156553.92	41156554.09	0.0138	0.0072
Mercury	107970-12-16 17:44 G	41156642.06	41156642.24	41156642.42	0.0138	0.0045

Mercury	107971-03-15 01:11 G	41156730.36	41156730.55	41156730.74	0.0138	0.0018
Mercury	107971-06-11 08:37 G	41156818.67	41156818.86	41156819.05	0.0138	0.0009
Mercury	107971-09-07 16:03 G	41156906.99	41156907.17	41156907.36	0.0138	0.0036
Mercury	107971-12-04 23:30 G	41156995.32	41156995.48	41156995.66	0.0138	0.0063
Mercury	107972-03-02 06:56 G	41157083.66	41157083.79	41157083.94	0.0137	0.0091
Mercury	107972-05-29 14:23 G	41157172.02	41157172.10	41157172.21	0.0137	0.0118
Venus	107977-02-01 23:01 G	41158881.42	41158881.46	41158881.53	0.0136	0.0132
Venus	107977-09-16 05:01 G	41159107.62	41159107.71	41159107.83	0.0136	0.0118
Venus	107978-04-30 10:47 G	41159333.82	41159333.95	41159334.10	0.0136	0.0103
Venus	107978-12-12 16:18 G	41159560.03	41159560.18	41159560.35	0.0136	0.0089
Venus	107979-07-26 21:49 G	41159786.24	41159786.41	41159786.60	0.0136	0.0075
Earth	107979-12-15 22:03 G	41159928.19	41159928.42	41159928.66	0.0136	0.0044
Moon	107979-12-15 23:15 G	41159928.23	41159928.47	41159928.73	0.0136	0.0038 *
Venus	107980-03-09 03:06 G	41160012.45	41160012.63	41160012.83	0.0136	0.0061
Venus	107980-10-21 08:37 G	41160238.67	41160238.86	41160239.07	0.0136	0.0046
Moon	107980-12-19 05:15 G	41160297.50	41160297.72	41160297.96	0.0136	0.0044
Earth	107980-12-19 06:27 G	41160297.55	41160297.77	41160298.02	0.0136	0.0052 *
Venus	107981-06-04 13:54 G	41160464.87	41160465.08	41160465.29	0.0136	0.0031
Venus	107982-01-16 18:56 G	41160691.08	41160691.29	41160691.50	0.0136	0.0017
Venus	107982-08-30 23:59 G	41160917.28	41160917.50	41160917.71	0.0135	0.0003
Venus	107983-04-14 04:47 G	41161143.49	41161143.70	41161143.91	0.0135	0.0012
Venus	107983-11-26 09:35 G	41161369.69	41161369.90	41161370.11	0.0135	0.0026
Venus	107984-07-09 14:23 G	41161595.90	41161596.10	41161596.30	0.0135	0.0040
Venus	107985-02-20 19:11 G	41161822.10	41161822.30	41161822.49	0.0135	0.0055
Venus	107985-10-04 23:30 G	41162048.31	41162048.48	41162048.68	0.0135	0.0069
Venus	107986-05-19 04:32 G	41162274.52	41162274.69	41162274.86	0.0135	0.0083
Venus	107986-12-31 08:51 G	41162500.73	41162500.87	41162501.03	0.0135	0.0097
Venus	107987-08-14 13:25 G	41162726.95	41162727.06	41162727.19	0.0135	0.0110
Venus	107988-03-27 17:59 G	41162953.18	41162953.25	41162953.35	0.0135	0.0124
Mars	107994-05-13 07:39 G	41165190.54	41165190.82	41165191.10	0.0135	0.0009

109TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 109th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	108013-03-28 15:20	G	41172085.09	41172085.14	41172085.20	0.0140	0.0126	
Mercury	108013-06-24 18:42	G	41172173.20	41172173.28	41172173.38	0.0140	0.0106	
Mercury	108013-09-20 22:18	G	41172261.33	41172261.43	41172261.54	0.0140	0.0086	
Mercury	108013-12-18 01:54	G	41172349.46	41172349.58	41172349.70	0.0140	0.0066	
Mercury	108014-03-16 05:15	G	41172437.60	41172437.72	41172437.85	0.0140	0.0046	
Mercury	108014-06-12 08:51	G	41172525.74	41172525.87	41172526.00	0.0140	0.0026	
Mercury	108014-09-08 12:13	G	41172613.88	41172614.01	41172614.15	0.0140	0.0007	
Mercury	108014-12-05 15:49	G	41172702.02	41172702.16	41172702.29	0.0140	0.0014	
Mercury	108015-03-03 19:11	G	41172790.17	41172790.30	41172790.43	0.0140	0.0034	
Mercury	108015-05-30 22:32	G	41172878.32	41172878.44	41172878.57	0.0141	0.0054	
Mercury	108015-08-27 01:54	G	41172966.47	41172966.58	41172966.70	0.0141	0.0074	
Mercury	108015-11-23 05:15	G	41173054.63	41173054.72	41173054.83	0.0141	0.0094	
Mercury	108016-02-19 08:51	G	41173142.80	41173142.87	41173142.95	0.0141	0.0113	
Mercury	108016-05-17 12:13	G	41173230.97	41173231.01	41173231.05	0.0141	0.0133	
Venus	108020-06-15 15:20	G	41174721.08	41174721.14	41174721.24	0.0142	0.0132	
Venus	108021-01-28 03:06	G	41174947.52	41174947.63	41174947.77	0.0142	0.0116	
Venus	108021-09-11 15:20	G	41175173.98	41175174.14	41175174.30	0.0142	0.0099	
Venus	108022-04-26 03:20	G	41175400.46	41175400.64	41175400.82	0.0142	0.0083	

Earth	108022-06-12 07:39 G	41175447.62	41175447.82	41175448.04	0.0142	0.0082
Moon	108022-06-12 10:03 G	41175447.73	41175447.92	41175448.11	0.0142	0.0090 *
Venus	108022-12-08 15:35 G	41175626.95	41175627.15	41175627.34	0.0142	0.0066
Moon	108023-06-17 04:47 G	41175817.45	41175817.70	41175817.96	0.0142	0.0037
Earth	108023-06-17 06:42 G	41175817.54	41175817.78	41175818.04	0.0142	0.0031 *
Venus	108023-07-23 03:35 G	41175853.44	41175853.65	41175853.86	0.0142	0.0049
Venus	108024-03-05 15:49 G	41176079.95	41176080.16	41176080.39	0.0142	0.0031
Moon	108024-06-21 07:39 G	41176187.79	41176187.82	41176187.87	0.0142	0.0140
Venus	108024-10-18 04:32 G	41176306.46	41176306.69	41176306.91	0.0143	0.0014
Venus	108025-06-01 17:01 G	41176532.98	41176533.21	41176533.43	0.0143	0.0005
Venus	108026-01-14 05:30 G	41176759.51	41176759.73	41176759.95	0.0143	0.0022
Venus	108026-08-28 17:59 G	41176986.04	41176986.25	41176986.47	0.0143	0.0039
Venus	108027-04-12 06:42 G	41177212.59	41177212.78	41177212.99	0.0143	0.0057
Venus	108027-11-24 19:25 G	41177439.13	41177439.31	41177439.51	0.0143	0.0075
Venus	108028-07-08 08:08 G	41177665.68	41177665.84	41177666.02	0.0143	0.0092
Venus	108029-02-19 21:06 G	41177892.25	41177892.38	41177892.53	0.0143	0.0109
Venus	108029-10-04 10:03 G	41178118.83	41178118.92	41178119.03	0.0143	0.0126
Venus	108030-05-18 23:01 G	41178345.46	41178345.46	41178345.49	0.0143	0.0143
Mercury	108054-04-16 02:08 G	41187078.51	41187078.59	41187078.69	0.0138	0.0120
Mercury	108054-07-13 09:20 G	41187166.77	41187166.89	41187167.04	0.0138	0.0094
Mercury	108054-10-09 16:47 G	41187255.05	41187255.20	41187255.38	0.0138	0.0067
Mercury	108055-01-06 00:27 G	41187343.34	41187343.52	41187343.70	0.0138	0.0040
Mercury	108055-04-04 07:54 G	41187431.64	41187431.83	41187432.02	0.0138	0.0013
Mercury	108055-07-01 15:20 G	41187519.95	41187520.14	41187520.33	0.0138	0.0014
Mercury	108055-09-27 22:47 G	41187608.27	41187608.45	41187608.64	0.0138	0.0042
Mercury	108055-12-25 06:13 G	41187696.60	41187696.76	41187696.93	0.0138	0.0069
Mercury	108056-03-22 13:54 G	41187784.95	41187785.08	41187785.22	0.0137	0.0096
Mercury	108056-06-18 21:06 G	41187873.31	41187873.38	41187873.48	0.0137	0.0123
Venus	108060-10-02 08:51 G	41189439.86	41189439.87	41189439.90	0.0136	0.0136
Venus	108061-05-16 15:06 G	41189666.03	41189666.13	41189666.22	0.0136	0.0122

Venus	108061-12-28 20:23 G	41189892.24	41189892.35	41189892.49	0.0136	0.0108
Venus	108062-08-12 02:23 G	41190118.45	41190118.60	41190118.76	0.0136	0.0093
Earth	108062-12-11 22:18 G	41190240.43	41190240.43	41190240.49	0.0136	0.0135
Venus	108063-03-26 07:54 G	41190344.66	41190344.83	41190345.00	0.0136	0.0079
Venus	108063-11-07 13:11 G	41190570.87	41190571.05	41190571.25	0.0136	0.0065
Moon	108063-12-16 05:15 G	41190609.48	41190609.72	41190609.96	0.0136	0.0032
Earth	108063-12-16 08:08 G	41190609.60	41190609.84	41190610.08	0.0136	0.0039 *
Venus	108064-06-20 18:27 G	41190797.08	41190797.27	41190797.48	0.0136	0.0051
Earth	108064-12-19 16:32 G	41190978.96	41190979.19	41190979.42	0.0136	0.0056
Moon	108064-12-19 19:25 G	41190979.07	41190979.31	41190979.55	0.0136	0.0049 *
Venus	108065-02-01 23:44 G	41191023.29	41191023.49	41191023.70	0.0136	0.0036
Venus	108065-09-16 05:01 G	41191249.50	41191249.71	41191249.92	0.0136	0.0022
Venus	108066-04-30 10:03 G	41191475.70	41191475.92	41191476.13	0.0136	0.0007
Venus	108066-12-12 14:51 G	41191701.91	41191702.12	41191702.33	0.0135	0.0007
Venus	108067-07-26 19:39 G	41191928.11	41191928.32	41191928.53	0.0135	0.0022
Venus	108068-03-09 00:27 G	41192154.32	41192154.52	41192154.73	0.0135	0.0036
Venus	108068-10-21 05:01 G	41192380.53	41192380.71	41192380.92	0.0135	0.0051
Venus	108069-06-04 09:49 G	41192606.73	41192606.91	41192607.11	0.0135	0.0064
Venus	108070-01-16 14:23 G	41192832.94	41192833.10	41192833.29	0.0135	0.0078
Venus	108070-08-30 18:56 G	41193059.15	41193059.29	41193059.46	0.0135	0.0092
Venus	108071-04-13 23:44 G	41193285.37	41193285.49	41193285.63	0.0135	0.0105
Venus	108071-11-26 04:18 G	41193511.60	41193511.68	41193511.80	0.0135	0.0119
Venus	108072-07-09 08:51 G	41193737.85	41193737.87	41193737.93	0.0135	0.0133
Mars	108079-01-05 07:25 G	41196108.67	41196108.81	41196109.00	0.0136	0.0109
Mercury	108097-04-17 22:18 G	41202786.37	41202786.43	41202786.50	0.0140	0.0122
Mercury	108097-07-15 01:54 G	41202874.49	41202874.58	41202874.67	0.0140	0.0102
Mercury	108097-10-11 05:15 G	41202962.62	41202962.72	41202962.83	0.0140	0.0082
Mercury	108098-01-07 08:51 G	41203050.75	41203050.87	41203050.99	0.0140	0.0062
Mercury	108098-04-05 12:27 G	41203138.89	41203139.02	41203139.14	0.0140	0.0042
Mercury	108098-07-02 15:49 G	41203227.03	41203227.16	41203227.29	0.0140	0.0022

Mercury	108098-09-28 19:25 G	41203315.17	41203315.31	41203315.44	0.0140	0.0005
Mercury	108098-12-25 22:47 G	41203403.32	41203403.45	41203403.58	0.0140	0.0018
Mercury	108099-03-24 02:08 G	41203491.47	41203491.59	41203491.72	0.0140	0.0038
Mercury	108099-06-20 05:30 G	41203579.62	41203579.73	41203579.86	0.0140	0.0058
Mercury	108099-09-16 08:51 G	41203667.77	41203667.87	41203667.99	0.0141	0.0078
Mercury	108099-12-13 12:27 G	41203755.93	41203756.02	41203756.12	0.0141	0.0097
Mercury	108100-03-11 15:49 G	41203844.10	41203844.16	41203844.24	0.0141	0.0117
Mercury	108100-06-07 19:11 G	41203932.28	41203932.30	41203932.34	0.0141	0.0137
Venus	108104-02-14 21:06 G	41205279.33	41205279.38	41205279.44	0.0142	0.0137
Venus	108104-09-28 08:37 G	41205505.76	41205505.86	41205505.98	0.0142	0.0121
Venus	108105-05-12 20:23 G	41205732.21	41205732.35	41205732.51	0.0142	0.0105
Venus	108105-12-25 08:23 G	41205958.68	41205958.85	41205959.02	0.0142	0.0088
Moon	108106-06-13 15:49 G	41206128.95	41206129.16	41206129.38	0.0142	0.0084
Earth	108106-06-13 16:18 G	41206128.97	41206129.18	41206129.39	0.0142	0.0078 *
Venus	108106-08-08 20:23 G	41206185.16	41206185.35	41206185.54	0.0142	0.0072
Venus	108107-03-23 08:37 G	41206411.65	41206411.86	41206412.06	0.0142	0.0055
Earth	108107-06-18 15:06 G	41206498.88	41206499.13	41206499.38	0.0142	0.0034
Moon	108107-06-18 15:20 G	41206498.90	41206499.14	41206499.38	0.0142	0.0036 *
Venus	108107-11-04 20:37 G	41206638.15	41206638.36	41206638.58	0.0142	0.0038
Venus	108108-06-18 09:06 G	41206864.66	41206864.88	41206865.10	0.0142	0.0020
Venus	108109-01-30 21:20 G	41207091.17	41207091.39	41207091.62	0.0143	0.0003
Venus	108109-09-14 09:49 G	41207317.69	41207317.91	41207318.13	0.0143	0.0015
Venus	108110-04-28 22:32 G	41207544.23	41207544.44	41207544.66	0.0143	0.0033
Venus	108110-12-11 11:01 G	41207770.76	41207770.96	41207771.18	0.0143	0.0051
Venus	108111-07-25 23:44 G	41207997.30	41207997.49	41207997.69	0.0143	0.0068
Venus	108112-03-08 12:42 G	41208223.85	41208224.03	41208224.21	0.0143	0.0085
Venus	108112-10-21 01:11 G	41208450.42	41208450.55	41208450.72	0.0143	0.0103
Venus	108113-06-04 14:08 G	41208676.99	41208677.09	41208677.23	0.0143	0.0120
Venus	108114-01-17 03:35 G	41208903.59	41208903.65	41208903.71	0.0143	0.0136
Mars	108119-06-03 10:47 G	41210866.67	41210866.95	41210867.27	0.0143	0.0072

Mercury	108138-05-07 08:23 G	41217779.76	41217779.85	41217779.96	0.0138	0.0116
Mercury	108138-08-03 16:03 G	41217868.03	41217868.17	41217868.31	0.0138	0.0089
Mercury	108138-10-30 23:15 G	41217956.31	41217956.47	41217956.65	0.0138	0.0063
Mercury	108139-01-27 06:42 G	41218044.60	41218044.78	41218044.97	0.0138	0.0036
Mercury	108139-04-25 14:23 G	41218132.91	41218133.10	41218133.29	0.0138	0.0008
Mercury	108139-07-22 21:49 G	41218221.22	41218221.41	41218221.60	0.0138	0.0019
Mercury	108139-10-19 05:15 G	41218309.54	41218309.72	41218309.90	0.0138	0.0046
Mercury	108140-01-15 12:56 G	41218397.87	41218398.04	41218398.20	0.0137	0.0073
Mercury	108140-04-12 20:08 G	41218486.22	41218486.34	41218486.48	0.0137	0.0100
Mercury	108140-07-10 03:35 G	41218574.60	41218574.65	41218574.74	0.0137	0.0128
Venus	108145-01-14 23:30 G	41220224.41	41220224.48	41220224.57	0.0136	0.0126
Venus	108145-08-29 05:15 G	41220450.62	41220450.72	41220450.85	0.0136	0.0113
Venus	108146-04-12 11:01 G	41220676.83	41220676.96	41220677.12	0.0136	0.0099
Venus	108146-11-24 16:47 G	41220903.04	41220903.20	41220903.37	0.0136	0.0084
Earth	108146-12-13 07:25 G	41220921.76	41220921.81	41220921.88	0.0136	0.0131
Venus	108147-07-08 22:03 G	41221129.25	41221129.42	41221129.62	0.0136	0.0070
Earth	108147-12-17 16:18 G	41221290.95	41221291.18	41221291.43	0.0136	0.0036
Moon	108147-12-17 19:39 G	41221291.09	41221291.32	41221291.57	0.0136	0.0033 *
Venus	108148-02-20 03:20 G	41221355.46	41221355.64	41221355.85	0.0136	0.0056
Venus	108148-10-03 09:06 G	41221581.68	41221581.88	41221582.08	0.0136	0.0041
Moon	108148-12-20 21:06 G	41221660.17	41221660.38	41221660.63	0.0136	0.0058
Earth	108148-12-21 00:42 G	41221660.32	41221660.53	41221660.77	0.0136	0.0060 *
Venus	108149-05-17 14:08 G	41221807.88	41221808.09	41221808.30	0.0136	0.0027
Venus	108149-12-29 19:11 G	41222034.09	41222034.30	41222034.51	0.0136	0.0012
Venus	108150-08-13 00:13 G	41222260.29	41222260.51	41222260.72	0.0135	0.0003
Venus	108151-03-27 05:01 G	41222486.50	41222486.71	41222486.92	0.0135	0.0017
Venus	108151-11-08 09:49 G	41222712.71	41222712.91	41222713.12	0.0135	0.0031
Venus	108152-06-21 14:37 G	41222938.91	41222939.11	41222939.32	0.0135	0.0045
Venus	108153-02-02 19:11 G	41223165.12	41223165.30	41223165.50	0.0135	0.0060
Venus	108153-09-16 23:59 G	41223391.33	41223391.50	41223391.69	0.0135	0.0073

Venus	108154-05-01 04:32 G	41223617.54	41223617.69	41223617.87	0.0135	0.0087
Venus	108154-12-13 09:35 G	41223843.76	41223843.90	41223844.04	0.0135	0.0101
Venus	108155-07-27 13:54 G	41224069.98	41224070.08	41224070.21	0.0135	0.0114
Venus	108156-03-09 18:42 G	41224296.22	41224296.28	41224296.36	0.0135	0.0127
Mars	108161-10-01 11:44 G	41226327.79	41226327.99	41226328.22	0.0135	0.0087
Mercury	108181-02-10 01:54 G	41233399.56	41233399.58	41233399.60	0.0140	0.0138
Mercury	108181-05-09 05:15 G	41233487.66	41233487.72	41233487.80	0.0140	0.0118
Mercury	108181-08-05 08:51 G	41233575.78	41233575.87	41233575.97	0.0140	0.0098
Mercury	108181-11-01 12:27 G	41233663.91	41233664.02	41233664.13	0.0140	0.0078
Mercury	108182-01-28 15:49 G	41233752.05	41233752.16	41233752.29	0.0140	0.0059
Mercury	108182-04-26 19:25 G	41233840.18	41233840.31	41233840.44	0.0140	0.0038
Mercury	108182-07-23 23:01 G	41233928.33	41233928.46	41233928.59	0.0140	0.0018
Mercury	108182-10-20 02:23 G	41234016.47	41234016.60	41234016.74	0.0140	0.0003
Mercury	108183-01-16 05:59 G	41234104.62	41234104.75	41234104.88	0.0140	0.0022
Mercury	108183-04-14 09:20 G	41234192.77	41234192.89	41234193.02	0.0140	0.0042
Mercury	108183-07-11 12:56 G	41234280.92	41234281.04	41234281.15	0.0140	0.0062
Mercury	108183-10-07 16:18 G	41234369.07	41234369.18	41234369.29	0.0141	0.0082
Mercury	108184-01-03 19:39 G	41234457.23	41234457.32	41234457.41	0.0141	0.0102
Mercury	108184-03-31 23:01 G	41234545.40	41234545.46	41234545.53	0.0141	0.0121
Venus	108188-05-28 14:51 G	41236064.02	41236064.12	41236064.22	0.0142	0.0126
Venus	108189-01-10 02:23 G	41236290.46	41236290.60	41236290.74	0.0142	0.0110
Venus	108189-08-24 13:54 G	41236516.93	41236517.08	41236517.26	0.0142	0.0094
Venus	108190-04-08 01:54 G	41236743.41	41236743.58	41236743.78	0.0142	0.0078
Moon	108190-06-13 21:49 G	41236810.19	41236810.41	41236810.64	0.0142	0.0068
Earth	108190-06-14 01:25 G	41236810.35	41236810.56	41236810.79	0.0142	0.0074 *
Venus	108190-11-20 14:08 G	41236969.89	41236970.09	41236970.29	0.0142	0.0060
Earth	108191-06-19 00:27 G	41237180.28	41237180.52	41237180.77	0.0142	0.0038
Moon	108191-06-19 04:03 G	41237180.42	41237180.67	41237180.93	0.0142	0.0031 *
Venus	108191-07-05 02:08 G	41237196.38	41237196.59	41237196.81	0.0142	0.0043
Venus	108192-02-16 14:23 G	41237422.89	41237423.10	41237423.32	0.0142	0.0026

Venus	108192-09-30 02:51 G	41237649.40	41237649.62	41237649.84	0.0142	0.0008
Venus	108193-05-14 15:20 G	41237875.92	41237876.14	41237876.36	0.0143	0.0009
Venus	108193-12-27 03:49 G	41238102.45	41238102.66	41238102.88	0.0143	0.0027
Venus	108194-08-10 16:18 G	41238328.98	41238329.18	41238329.40	0.0143	0.0045
Venus	108195-03-25 05:15 G	41238555.52	41238555.72	41238555.92	0.0143	0.0062
Venus	108195-11-06 17:44 G	41238782.07	41238782.24	41238782.44	0.0143	0.0080
Venus	108196-06-20 06:42 G	41239008.63	41239008.78	41239008.95	0.0143	0.0097
Venus	108197-02-01 19:25 G	41239235.20	41239235.31	41239235.46	0.0143	0.0114
Venus	108197-09-16 08:23 G	41239461.78	41239461.85	41239461.96	0.0143	0.0131
Mars	108204-01-29 23:59 G	41241787.29	41241787.50	41241787.77	0.0142	0.0104
Mercury	108222-03-01 07:39 G	41248392.82	41248392.82	41248392.84	0.0138	0.0138
Mercury	108222-05-28 15:06 G	41248481.03	41248481.13	41248481.25	0.0138	0.0111
Mercury	108222-08-24 22:32 G	41248569.29	41248569.44	41248569.59	0.0138	0.0084
Mercury	108222-11-21 05:44 G	41248657.58	41248657.74	41248657.93	0.0138	0.0058
Mercury	108223-02-17 13:25 G	41248745.88	41248746.06	41248746.25	0.0138	0.0031
Mercury	108223-05-16 20:51 G	41248834.18	41248834.37	41248834.56	0.0138	0.0004
Mercury	108223-08-13 04:18 G	41248922.50	41248922.68	41248922.87	0.0138	0.0024
Mercury	108223-11-09 11:44 G	41249010.82	41249010.99	41249011.17	0.0137	0.0051
Mercury	108224-02-05 19:25 G	41249099.15	41249099.31	41249099.47	0.0137	0.0078
Mercury	108224-05-04 02:37 G	41249187.50	41249187.61	41249187.75	0.0137	0.0105
Mercury	108224-07-31 10:03 G	41249275.89	41249275.92	41249275.99	0.0137	0.0133
Venus	108228-09-15 08:23 G	41250782.80	41250782.85	41250782.92	0.0136	0.0131
Venus	108229-04-29 14:23 G	41251009.00	41251009.10	41251009.22	0.0136	0.0117
Venus	108229-12-11 20:23 G	41251235.21	41251235.35	41251235.49	0.0136	0.0103
Venus	108230-07-26 01:54 G	41251461.42	41251461.58	41251461.74	0.0136	0.0088
Moon	108230-12-14 14:37 G	41251603.02	41251603.11	41251603.22	0.0136	0.0123
Earth	108230-12-14 16:03 G	41251603.10	41251603.17	41251603.26	0.0136	0.0128 *
Venus	108231-03-09 07:25 G	41251687.63	41251687.81	41251687.99	0.0136	0.0074
Venus	108231-10-21 12:42 G	41251913.85	41251914.03	41251914.23	0.0136	0.0060
Earth	108231-12-19 00:56 G	41251972.30	41251972.54	41251972.79	0.0136	0.0033

Moon	108231-12-19 02:08 G	41251972.35	41251972.59	41251972.85	0.0136	0.0040 *
Venus	108232-06-03 17:59 G	41252140.06	41252140.25	41252140.46	0.0136	0.0046
Moon	108232-12-22 08:23 G	41252341.65	41252341.85	41252342.06	0.0136	0.0069
Earth	108232-12-22 09:20 G	41252341.69	41252341.89	41252342.13	0.0136	0.0063 *
Venus	108233-01-15 23:30 G	41252366.27	41252366.48	41252366.68	0.0136	0.0031
Venus	108233-08-30 04:32 G	41252592.48	41252592.69	41252592.90	0.0136	0.0017
Venus	108234-04-13 09:35 G	41252818.69	41252818.90	41252819.11	0.0136	0.0002
Venus	108234-11-25 14:37 G	41253044.90	41253045.11	41253045.32	0.0135	0.0012
Venus	108235-07-09 19:25 G	41253271.10	41253271.31	41253271.52	0.0135	0.0026
Venus	108236-02-21 00:13 G	41253497.31	41253497.51	41253497.72	0.0135	0.0041
Venus	108236-10-04 04:47 G	41253723.52	41253723.70	41253723.91	0.0135	0.0056
Venus	108237-05-18 09:35 G	41253949.73	41253949.90	41253950.10	0.0135	0.0069
Venus	108237-12-30 14:37 G	41254175.94	41254176.11	41254176.28	0.0135	0.0083
Venus	108238-08-13 19:11 G	41254402.16	41254402.30	41254402.46	0.0135	0.0096
Venus	108239-03-27 23:44 G	41254628.38	41254628.49	41254628.63	0.0135	0.0110
Venus	108239-11-09 04:32 G	41254854.62	41254854.69	41254854.79	0.0135	0.0124
Mars	108246-05-27 11:59 G	41257245.73	41257246.00	41257246.28	0.0136	0.0030
Mercury	108265-03-03 09:06 G	41264100.85	41264100.88	41264100.92	0.0140	0.0133
Mercury	108265-05-30 12:42 G	41264188.95	41264189.03	41264189.11	0.0140	0.0113
Mercury	108265-08-26 16:03 G	41264277.08	41264277.17	41264277.28	0.0140	0.0093
Mercury	108265-11-22 19:39 G	41264365.21	41264365.32	41264365.44	0.0140	0.0073
Mercury	108266-02-18 23:15 G	41264453.35	41264453.47	41264453.59	0.0140	0.0053
Mercury	108266-05-18 02:37 G	41264541.49	41264541.61	41264541.75	0.0140	0.0033
Mercury	108266-08-14 06:13 G	41264629.63	41264629.76	41264629.89	0.0140	0.0013
Mercury	108266-11-10 09:49 G	41264717.77	41264717.91	41264718.04	0.0140	0.0008
Mercury	108267-02-06 13:11 G	41264805.92	41264806.05	41264806.18	0.0140	0.0027
Mercury	108267-05-05 16:32 G	41264894.07	41264894.19	41264894.32	0.0140	0.0047
Mercury	108267-08-01 20:08 G	41264982.22	41264982.34	41264982.46	0.0140	0.0067
Mercury	108267-10-28 23:30 G	41265070.38	41265070.48	41265070.59	0.0141	0.0087
Mercury	108268-01-25 02:51 G	41265158.54	41265158.62	41265158.71	0.0141	0.0107

Mercury	108268-04-22 06:13 G	41265246.71	41265246.76	41265246.83	0.0141	0.0127
Venus	108272-01-27 21:06 G	41266622.30	41266622.38	41266622.47	0.0142	0.0131
Venus	108272-09-10 08:37 G	41266848.74	41266848.86	41266849.00	0.0142	0.0115
Venus	108273-04-24 20:08 G	41267075.20	41267075.34	41267075.52	0.0142	0.0099
Venus	108273-12-07 08:08 G	41267301.67	41267301.84	41267302.03	0.0142	0.0082
Earth	108274-06-15 11:44 G	41267491.77	41267491.99	41267492.22	0.0142	0.0069
Moon	108274-06-15 12:27 G	41267491.80	41267492.02	41267492.25	0.0142	0.0064 *
Venus	108274-07-21 20:08 G	41267528.15	41267528.34	41267528.54	0.0142	0.0066
Venus	108275-03-05 08:08 G	41267754.64	41267754.84	41267755.06	0.0142	0.0049
Earth	108275-06-20 10:32 G	41267861.71	41267861.94	41267862.20	0.0142	0.0044
Moon	108275-06-20 11:01 G	41267861.71	41267861.96	41267862.22	0.0142	0.0043 *
Venus	108275-10-17 20:23 G	41267981.14	41267981.35	41267981.57	0.0142	0.0031
Venus	108276-05-31 08:51 G	41268207.65	41268207.87	41268208.09	0.0142	0.0014
Venus	108277-01-12 21:20 G	41268434.16	41268434.39	41268434.61	0.0143	0.0005
Venus	108277-08-27 09:35 G	41268660.69	41268660.90	41268661.13	0.0143	0.0022
Venus	108278-04-10 22:32 G	41268887.22	41268887.44	41268887.65	0.0143	0.0039
Venus	108278-11-23 11:01 G	41269113.76	41269113.96	41269114.17	0.0143	0.0057
Venus	108279-07-07 23:44 G	41269340.31	41269340.49	41269340.69	0.0143	0.0074
Venus	108280-02-19 12:42 G	41269566.86	41269567.03	41269567.20	0.0143	0.0091
Venus	108280-10-03 01:11 G	41269793.43	41269793.55	41269793.72	0.0143	0.0109
Venus	108281-05-17 14:37 G	41270020.01	41270020.11	41270020.22	0.0143	0.0125
Venus	108281-12-30 03:20 G	41270246.63	41270246.64	41270246.68	0.0143	0.0142
Mercury	108306-03-22 14:23 G	41279094.06	41279094.10	41279094.17	0.0138	0.0132
Mercury	108306-06-18 22:03 G	41279182.30	41279182.42	41279182.54	0.0138	0.0105
Mercury	108306-09-15 05:15 G	41279270.57	41279270.72	41279270.88	0.0138	0.0079
Mercury	108306-12-12 12:42 G	41279358.86	41279359.03	41279359.21	0.0138	0.0052
Mercury	108307-03-10 20:08 G	41279447.16	41279447.34	41279447.53	0.0138	0.0025
Mercury	108307-06-07 03:49 G	41279535.47	41279535.66	41279535.85	0.0138	0.0003
Mercury	108307-09-03 11:01 G	41279623.78	41279623.96	41279624.16	0.0137	0.0030
Mercury	108307-11-30 18:27 G	41279712.11	41279712.27	41279712.46	0.0137	0.0057

Mercury	108308-02-27 02:08 G	41279800.44	41279800.59	41279800.75	0.0137	0.0084
Mercury	108308-05-25 09:35 G	41279888.80	41279888.90	41279889.02	0.0137	0.0111
Venus	108312-05-16 17:30 G	41281341.21	41281341.23	41281341.26	0.0136	0.0135
Venus	108312-12-28 23:01 G	41281567.38	41281567.46	41281567.58	0.0136	0.0122
Venus	108313-08-12 05:01 G	41281793.59	41281793.71	41281793.85	0.0136	0.0107
Venus	108314-03-26 10:47 G	41282019.80	41282019.95	41282020.11	0.0136	0.0093
Venus	108314-11-07 16:18 G	41282246.02	41282246.18	41282246.37	0.0136	0.0079
Earth	108314-12-16 00:27 G	41282284.44	41282284.52	41282284.63	0.0136	0.0125
Moon	108314-12-16 04:03 G	41282284.57	41282284.67	41282284.80	0.0136	0.0120 *
Venus	108315-06-21 22:03 G	41282472.23	41282472.42	41282472.61	0.0136	0.0064
Moon	108315-12-20 06:13 G	41282653.52	41282653.76	41282654.01	0.0136	0.0033
Earth	108315-12-20 09:35 G	41282653.66	41282653.90	41282654.16	0.0136	0.0030 *
Venus	108316-02-03 03:20 G	41282698.44	41282698.64	41282698.84	0.0136	0.0050
Venus	108316-09-16 08:37 G	41282924.65	41282924.86	41282925.07	0.0136	0.0036
Earth	108316-12-23 17:59 G	41283023.04	41283023.25	41283023.48	0.0136	0.0066
Moon	108316-12-23 21:06 G	41283023.17	41283023.38	41283023.61	0.0136	0.0064 *
Venus	108317-04-30 13:39 G	41283150.86	41283151.07	41283151.29	0.0136	0.0021
Venus	108317-12-12 18:42 G	41283377.07	41283377.28	41283377.50	0.0136	0.0007
Venus	108318-07-26 23:44 G	41283603.28	41283603.49	41283603.70	0.0135	0.0008
Venus	108319-03-10 04:32 G	41283829.49	41283829.69	41283829.91	0.0135	0.0022
Venus	108319-10-22 09:35 G	41284055.70	41284055.90	41284056.11	0.0135	0.0036
Venus	108320-06-04 14:23 G	41284281.91	41284282.10	41284282.30	0.0135	0.0050
Venus	108321-01-16 19:11 G	41284508.12	41284508.30	41284508.49	0.0135	0.0064
Venus	108321-08-30 23:44 G	41284734.33	41284734.49	41284734.68	0.0135	0.0079
Venus	108322-04-14 04:32 G	41284960.55	41284960.69	41284960.86	0.0135	0.0092
Venus	108322-11-26 09:35 G	41285186.77	41285186.90	41285187.04	0.0135	0.0106
Venus	108323-07-10 14:08 G	41285413.00	41285413.09	41285413.20	0.0135	0.0119
Venus	108324-02-21 18:42 G	41285639.26	41285639.28	41285639.34	0.0135	0.0132
Mercury	108349-03-24 16:03 G	41294802.13	41294802.17	41294802.23	0.0140	0.0129
Mercury	108349-06-20 19:54 G	41294890.25	41294890.33	41294890.41	0.0140	0.0108

Mercury	108349-09-16 23:30 G	41294978.37	41294978.48	41294978.58	0.0140	0.0088
Mercury	108349-12-14 02:51 G	41295066.51	41295066.62	41295066.74	0.0140	0.0068
Mercury	108350-03-12 06:27 G	41295154.64	41295154.77	41295154.90	0.0140	0.0048
Mercury	108350-06-08 09:49 G	41295242.78	41295242.91	41295243.05	0.0140	0.0029
Mercury	108350-09-04 13:25 G	41295330.93	41295331.06	41295331.19	0.0140	0.0008
Mercury	108350-12-01 17:01 G	41295419.07	41295419.21	41295419.34	0.0140	0.0012
Mercury	108351-02-27 20:23 G	41295507.22	41295507.35	41295507.48	0.0140	0.0032
Mercury	108351-05-26 23:59 G	41295595.37	41295595.50	41295595.62	0.0141	0.0052
Mercury	108351-08-23 03:20 G	41295683.53	41295683.64	41295683.75	0.0141	0.0072
Mercury	108351-11-19 06:42 G	41295771.69	41295771.78	41295771.88	0.0141	0.0092
Mercury	108352-02-15 10:03 G	41295859.85	41295859.92	41295860.01	0.0141	0.0112
Mercury	108352-05-13 13:25 G	41295948.03	41295948.06	41295948.12	0.0141	0.0132
Venus	108355-09-28 03:20 G	41297180.60	41297180.64	41297180.72	0.0142	0.0136
Venus	108356-05-11 15:06 G	41297407.02	41297407.13	41297407.26	0.0142	0.0120
Venus	108356-12-24 02:37 G	41297633.47	41297633.61	41297633.77	0.0142	0.0104
Venus	108357-08-07 14:37 G	41297859.94	41297860.11	41297860.28	0.0142	0.0087
Venus	108358-03-22 02:37 G	41298086.42	41298086.61	41298086.80	0.0142	0.0071
Earth	108358-06-16 22:18 G	41298173.20	41298173.43	41298173.66	0.0142	0.0064
Moon	108358-06-17 01:39 G	41298173.35	41298173.57	41298173.80	0.0142	0.0070 *
Venus	108358-11-03 14:37 G	41298312.91	41298313.11	41298313.32	0.0142	0.0054
Venus	108359-06-18 02:37 G	41298539.40	41298539.61	41298539.83	0.0142	0.0037
Moon	108359-06-21 17:30 G	41298543.00	41298543.23	41298543.47	0.0142	0.0057
Earth	108359-06-21 21:20 G	41298543.15	41298543.39	41298543.64	0.0142	0.0049 *
Venus	108360-01-30 14:51 G	41298765.91	41298766.12	41298766.35	0.0142	0.0020
Venus	108360-09-13 03:20 G	41298992.42	41298992.64	41298992.87	0.0142	0.0003
Venus	108361-04-27 16:03 G	41299218.95	41299219.17	41299219.39	0.0143	0.0016
Venus	108361-12-10 04:32 G	41299445.48	41299445.69	41299445.92	0.0143	0.0034
Venus	108362-07-24 17:15 G	41299672.02	41299672.22	41299672.44	0.0143	0.0051
Venus	108363-03-08 05:59 G	41299898.57	41299898.75	41299898.96	0.0143	0.0069
Venus	108363-10-20 18:56 G	41300125.12	41300125.29	41300125.48	0.0143	0.0086

Venus	108364-06-03 07:39 G	41300351.69	41300351.82	41300351.99	0.0143	0.0104
Venus	108365-01-15 21:06 G	41300578.26	41300578.38	41300578.50	0.0143	0.0120
Venus	108365-08-30 09:49 G	41300804.86	41300804.91	41300804.98	0.0143	0.0137
Mars	108371-06-16 20:37 G	41302921.02	41302921.36	41302921.71	0.0143	0.0014
Mercury	108390-04-11 22:03 G	41309795.34	41309795.42	41309795.50	0.0138	0.0124
Mercury	108390-07-09 05:15 G	41309883.59	41309883.72	41309883.86	0.0138	0.0098
Mercury	108390-10-05 12:42 G	41309971.87	41309972.03	41309972.20	0.0138	0.0071
Mercury	108391-01-01 20:08 G	41310060.16	41310060.34	41310060.52	0.0138	0.0044
Mercury	108391-03-31 03:35 G	41310148.46	41310148.65	41310148.84	0.0138	0.0017
Mercury	108391-06-27 11:01 G	41310236.77	41310236.96	41310237.15	0.0138	0.0010
Mercury	108391-09-23 18:27 G	41310325.09	41310325.27	41310325.46	0.0137	0.0037
Mercury	108391-12-21 01:54 G	41310413.42	41310413.58	41310413.76	0.0137	0.0064
Mercury	108392-03-18 09:20 G	41310501.76	41310501.89	41310502.04	0.0137	0.0091
Mercury	108392-06-14 16:47 G	41310590.12	41310590.20	41310590.31	0.0137	0.0118
Venus	108396-08-28 09:20 G	41312125.81	41312125.89	41312125.98	0.0136	0.0125
Venus	108397-04-11 14:51 G	41312352.01	41312352.12	41312352.26	0.0136	0.0111
Venus	108397-11-23 20:37 G	41312578.22	41312578.36	41312578.52	0.0136	0.0097
Venus	108398-07-08 02:08 G	41312804.43	41312804.59	41312804.77	0.0136	0.0083
Earth	108398-12-16 10:32 G	41312965.85	41312965.94	41312966.08	0.0136	0.0121
Moon	108398-12-16 11:01 G	41312965.88	41312965.96	41312966.07	0.0136	0.0125 *
Venus	108399-02-19 07:39 G	41313030.65	41313030.82	41313031.02	0.0136	0.0069
Venus	108399-10-03 13:25 G	41313256.86	41313257.06	41313257.26	0.0136	0.0054
Moon	108399-12-20 18:56 G	41313335.05	41313335.29	41313335.53	0.0136	0.0019
Earth	108399-12-20 19:39 G	41313335.08	41313335.32	41313335.57	0.0136	0.0026 *
Venus	108400-05-16 18:42 G	41313483.08	41313483.28	41313483.48	0.0136	0.0040
Earth	108400-12-24 04:03 G	41313704.47	41313704.67	41313704.90	0.0136	0.0070
Moon	108400-12-24 05:01 G	41313704.49	41313704.71	41313704.95	0.0136	0.0062 *
Venus	108400-12-28 23:44 G	41313709.28	41313709.49	41313709.70	0.0136	0.0025
Venus	108401-08-12 04:47 G	41313935.49	41313935.70	41313935.92	0.0136	0.0011
Venus	108402-03-26 09:49 G	41314161.70	41314161.91	41314162.13	0.0135	0.0004

Venus	108402-11-07 14:51 G	41314387.91	41314388.12	41314388.34	0.0135	0.0018
Venus	108403-06-21 19:39 G	41314614.12	41314614.32	41314614.54	0.0135	0.0033
Venus	108404-02-03 00:27 G	41314840.33	41314840.52	41314840.73	0.0135	0.0047
Venus	108404-09-16 05:30 G	41315066.54	41315066.73	41315066.92	0.0135	0.0060
Venus	108405-04-30 10:18 G	41315292.76	41315292.93	41315293.11	0.0135	0.0074
Venus	108405-12-12 14:51 G	41315518.97	41315519.12	41315519.29	0.0135	0.0088
Venus	108406-07-26 19:25 G	41315745.19	41315745.31	41315745.47	0.0135	0.0102
Venus	108407-03-10 00:13 G	41315971.42	41315971.51	41315971.64	0.0135	0.0115
Venus	108407-10-22 05:15 G	41316197.66	41316197.72	41316197.79	0.0135	0.0128
Mars	108413-10-15 16:47 G	41318382.96	41318383.20	41318383.47	0.0135	0.0053
Mercury	108433-04-13 23:30 G	41325503.42	41325503.48	41325503.54	0.0140	0.0124
Mercury	108433-07-11 02:51 G	41325591.54	41325591.62	41325591.72	0.0140	0.0104
Jupiter	108433-07-24 03:35 G	41325604.20	41325604.65	41325605.14	0.0140	0.0053
Mercury	108433-10-07 06:42 G	41325679.67	41325679.78	41325679.89	0.0140	0.0084
Mercury	108434-01-03 10:03 G	41325767.81	41325767.92	41325768.04	0.0140	0.0064
Mercury	108434-04-01 13:39 G	41325855.94	41325856.07	41325856.20	0.0140	0.0044
Mercury	108434-06-28 17:15 G	41325944.09	41325944.22	41325944.35	0.0140	0.0024
Mercury	108434-09-24 20:37 G	41326032.23	41326032.36	41326032.50	0.0140	0.0004
Mercury	108434-12-22 00:13 G	41326120.37	41326120.51	41326120.64	0.0141	0.0017
Mercury	108435-03-20 03:35 G	41326208.52	41326208.65	41326208.78	0.0141	0.0037
Mercury	108435-06-16 06:56 G	41326296.68	41326296.79	41326296.92	0.0141	0.0057
Mercury	108435-09-12 10:32 G	41326384.83	41326384.94	41326385.05	0.0141	0.0077
Mercury	108435-12-09 13:54 G	41326472.99	41326473.08	41326473.18	0.0141	0.0096
Mercury	108436-03-06 17:30 G	41326561.16	41326561.23	41326561.30	0.0141	0.0116
Mercury	108436-06-02 20:51 G	41326649.34	41326649.37	41326649.40	0.0141	0.0136
Venus	108439-05-28 09:35 G	41327738.89	41327738.90	41327738.94	0.0142	0.0141
Venus	108440-01-09 21:06 G	41327965.29	41327965.38	41327965.49	0.0142	0.0125
Venus	108440-08-23 08:37 G	41328191.73	41328191.86	41328192.01	0.0142	0.0109
Venus	108441-04-06 20:23 G	41328418.20	41328418.35	41328418.53	0.0142	0.0093
Venus	108441-11-19 08:23 G	41328644.67	41328644.85	41328645.04	0.0142	0.0076

Moon	108442-06-17 06:56 G	41328854.56	41328854.79	41328855.04	0.0142	0.0064
Earth	108442-06-17 07:54 G	41328854.61	41328854.83	41328855.07	0.0142	0.0060 *
Venus	108442-07-03 20:23 G	41328871.15	41328871.35	41328871.56	0.0142	0.0059
Venus	108443-02-15 08:23 G	41329097.65	41329097.85	41329098.07	0.0142	0.0042
Earth	108443-06-22 07:11 G	41329224.57	41329224.80	41329225.05	0.0142	0.0054
Moon	108443-06-22 08:08 G	41329224.62	41329224.84	41329225.08	0.0142	0.0055 *
Venus	108443-09-29 20:51 G	41329324.15	41329324.37	41329324.59	0.0142	0.0025
Venus	108444-05-13 09:20 G	41329550.67	41329550.89	41329551.11	0.0143	0.0007
Venus	108444-12-25 21:49 G	41329777.19	41329777.41	41329777.64	0.0143	0.0011
Venus	108445-08-09 10:18 G	41330003.72	41330003.93	41330004.16	0.0143	0.0029
Venus	108446-03-23 23:15 G	41330230.26	41330230.47	41330230.68	0.0143	0.0046
Venus	108446-11-05 11:59 G	41330456.81	41330457.00	41330457.21	0.0143	0.0064
Venus	108447-06-20 00:56 G	41330683.36	41330683.54	41330683.73	0.0143	0.0081
Venus	108448-02-01 13:54 G	41330909.92	41330910.08	41330910.24	0.0143	0.0098
Venus	108448-09-15 02:37 G	41331136.49	41331136.61	41331136.75	0.0143	0.0115
Venus	108449-04-29 15:35 G	41331363.09	41331363.15	41331363.25	0.0143	0.0132
Mercury	108474-05-02 05:30 G	41340496.64	41340496.73	41340496.84	0.0138	0.0116
Mercury	108474-07-29 12:42 G	41340584.90	41340585.03	41340585.19	0.0138	0.0090
Mercury	108474-10-25 20:23 G	41340673.18	41340673.35	41340673.52	0.0138	0.0063
Mercury	108475-01-22 03:49 G	41340761.48	41340761.66	41340761.84	0.0138	0.0036
Mercury	108475-04-20 11:15 G	41340849.78	41340849.97	41340850.16	0.0138	0.0009
Mercury	108475-07-17 18:42 G	41340938.09	41340938.28	41340938.47	0.0137	0.0018
Mercury	108475-10-14 01:54 G	41341026.41	41341026.58	41341026.77	0.0137	0.0046
Mercury	108476-01-10 09:20 G	41341114.74	41341114.89	41341115.07	0.0137	0.0072
Mercury	108476-04-07 16:47 G	41341203.08	41341203.20	41341203.35	0.0137	0.0100
Mercury	108476-07-05 00:27 G	41341291.46	41341291.52	41341291.60	0.0137	0.0126
Venus	108480-04-27 19:11 G	41342684.25	41342684.30	41342684.38	0.0136	0.0129
Venus	108480-12-10 00:56 G	41342910.45	41342910.54	41342910.67	0.0136	0.0116
Venus	108481-07-24 06:42 G	41343136.65	41343136.78	41343136.94	0.0136	0.0102
Venus	108482-03-07 12:27 G	41343362.87	41343363.02	41343363.19	0.0136	0.0087

Venus	108482-10-19 17:59 G	41343589.08	41343589.25	41343589.44	0.0136	0.0073
Moon	108482-12-16 17:59 G	41343647.15	41343647.25	41343647.37	0.0136	0.0121
Earth	108482-12-16 21:35 G	41343647.27	41343647.40	41343647.53	0.0136	0.0115 *
Venus	108483-06-02 23:30 G	41343815.29	41343815.48	41343815.68	0.0136	0.0059
Earth	108483-12-21 06:13 G	41344016.51	41344016.76	41344017.01	0.0136	0.0020
Moon	108483-12-21 09:49 G	41344016.67	41344016.91	41344017.16	0.0136	0.0018 *
Venus	108484-01-15 04:47 G	41344041.50	41344041.70	41344041.91	0.0136	0.0044
Venus	108484-08-28 10:03 G	41344267.71	41344267.92	41344268.13	0.0136	0.0030
Moon	108484-12-24 11:01 G	41344385.76	41344385.96	41344386.18	0.0136	0.0074
Earth	108484-12-24 14:37 G	41344385.91	41344386.11	41344386.33	0.0136	0.0075 *
Venus	108485-04-11 15:06 G	41344493.92	41344494.13	41344494.35	0.0135	0.0016
Venus	108485-11-23 20:23 G	41344720.13	41344720.35	41344720.56	0.0135	0.0002
Venus	108486-07-08 01:11 G	41344946.34	41344946.55	41344946.77	0.0135	0.0014
Venus	108487-02-19 06:13 G	41345172.55	41345172.76	41345172.97	0.0135	0.0028
Venus	108487-10-03 11:01 G	41345398.76	41345398.96	41345399.17	0.0135	0.0042
Venus	108488-05-16 15:49 G	41345624.97	41345625.16	41345625.36	0.0135	0.0056
Venus	108488-12-28 20:37 G	41345851.18	41345851.36	41345851.55	0.0135	0.0070
Venus	108489-08-12 01:11 G	41346077.40	41346077.55	41346077.73	0.0135	0.0084
Venus	108490-03-26 05:59 G	41346303.61	41346303.75	41346303.91	0.0135	0.0098
Venus	108490-11-07 10:32 G	41346529.84	41346529.94	41346530.08	0.0135	0.0112
Venus	108491-06-21 15:20 G	41346756.07	41346756.14	41346756.24	0.0135	0.0124
Mars	108498-06-09 16:18 G	41349300.95	41349301.18	41349301.44	0.0135	0.0063
Mercury	108517-05-05 06:27 G	41356204.71	41356204.77	41356204.84	0.0140	0.0120
Mercury	108517-08-01 10:03 G	41356292.83	41356292.92	41356293.02	0.0140	0.0100
Mercury	108517-10-28 13:25 G	41356380.96	41356381.06	41356381.18	0.0140	0.0081
Mercury	108518-01-24 17:01 G	41356469.10	41356469.21	41356469.34	0.0140	0.0060
Mercury	108518-04-22 20:37 G	41356557.24	41356557.36	41356557.49	0.0140	0.0040
Mercury	108518-07-20 00:13 G	41356645.38	41356645.51	41356645.64	0.0140	0.0020
Mercury	108518-10-16 03:49 G	41356733.52	41356733.66	41356733.79	0.0141	0.0005
Mercury	108519-01-12 07:11 G	41356821.67	41356821.80	41356821.93	0.0141	0.0020

Mercury	108519-04-10 10:32 G	41356909.82	41356909.94	41356910.07	0.0141	0.0041
Mercury	108519-07-07 13:54 G	41356997.97	41356998.08	41356998.21	0.0141	0.0061
Mercury	108519-10-03 17:30 G	41357086.13	41357086.23	41357086.34	0.0141	0.0080
Mercury	108519-12-30 20:51 G	41357174.29	41357174.37	41357174.47	0.0141	0.0100
Mercury	108520-03-28 00:13 G	41357262.45	41357262.51	41357262.59	0.0141	0.0120
Mercury	108520-06-24 03:35 G	41357350.65	41357350.65	41357350.68	0.0141	0.0140
Venus	108523-09-10 02:23 G	41358523.53	41358523.60	41358523.70	0.0142	0.0131
Venus	108524-04-23 13:54 G	41358749.97	41358750.08	41358750.23	0.0142	0.0115
Venus	108524-12-06 01:54 G	41358976.43	41358976.58	41358976.74	0.0142	0.0098
Venus	108525-07-20 13:25 G	41359202.89	41359203.06	41359203.25	0.0142	0.0082
Venus	108526-03-04 01:25 G	41359429.38	41359429.56	41359429.77	0.0142	0.0066
Moon	108526-06-18 13:25 G	41359535.83	41359536.06	41359536.31	0.0142	0.0049
Earth	108526-06-18 16:47 G	41359535.97	41359536.20	41359536.44	0.0142	0.0055 *
Venus	108526-10-16 13:39 G	41359655.87	41359656.07	41359656.29	0.0142	0.0048
Venus	108527-05-31 02:08 G	41359882.37	41359882.59	41359882.81	0.0142	0.0031
Earth	108527-06-23 16:18 G	41359905.94	41359906.18	41359906.41	0.0142	0.0058
Moon	108527-06-23 19:11 G	41359906.07	41359906.30	41359906.56	0.0142	0.0051 *
Venus	108528-01-12 14:23 G	41360108.88	41360109.10	41360109.33	0.0143	0.0014
Venus	108528-08-26 03:06 G	41360335.41	41360335.63	41360335.85	0.0143	0.0005
Venus	108529-04-09 15:49 G	41360561.94	41360562.16	41360562.38	0.0143	0.0022
Venus	108529-11-22 04:32 G	41360788.48	41360788.69	41360788.90	0.0143	0.0040
Venus	108530-07-06 17:01 G	41361015.02	41361015.21	41361015.43	0.0143	0.0058
Venus	108531-02-18 05:59 G	41361241.57	41361241.75	41361241.95	0.0143	0.0075
Venus	108531-10-02 18:56 G	41361468.13	41361468.29	41361468.47	0.0143	0.0092
Venus	108532-05-16 08:08 G	41361694.70	41361694.84	41361694.99	0.0143	0.0109
Venus	108532-12-28 21:06 G	41361921.29	41361921.38	41361921.49	0.0143	0.0126
Venus	108533-08-12 10:18 G	41362147.92	41362147.93	41362147.95	0.0143	0.0142
Mars	108538-11-01 13:54 G	41364054.99	41364055.08	41364055.22	0.0143	0.0135
Mercury	108558-02-24 05:59 G	41371109.72	41371109.75	41371109.79	0.0138	0.0134
Mercury	108558-05-23 13:11 G	41371197.94	41371198.05	41371198.18	0.0138	0.0108

Jupiter	108558-06-29 01:39 G	41371234.08	41371234.57	41371235.10	0.0138	0.0029
Mercury	108558-08-19 20:37 G	41371286.21	41371286.36	41371286.52	0.0138	0.0081
Mercury	108558-11-16 03:49 G	41371374.50	41371374.66	41371374.85	0.0138	0.0055
Mercury	108559-02-12 11:30 G	41371462.79	41371462.98	41371463.17	0.0138	0.0028
Mercury	108559-05-11 18:56 G	41371551.10	41371551.29	41371551.48	0.0138	0.0001
Mercury	108559-08-08 02:23 G	41371639.41	41371639.60	41371639.79	0.0137	0.0026
Mercury	108559-11-04 09:35 G	41371727.73	41371727.90	41371728.09	0.0137	0.0054
Mercury	108560-01-31 17:01 G	41371816.07	41371816.21	41371816.38	0.0137	0.0081
Mercury	108560-04-29 00:27 G	41371904.42	41371904.52	41371904.65	0.0137	0.0108
Mercury	108560-07-26 08:08 G	41371992.81	41371992.84	41371992.88	0.0137	0.0134
Venus	108563-12-28 05:59 G	41373242.71	41373242.75	41373242.80	0.0136	0.0133
Venus	108564-08-10 11:30 G	41373468.90	41373468.98	41373469.10	0.0136	0.0120
Venus	108565-03-24 17:30 G	41373695.10	41373695.23	41373695.37	0.0136	0.0105
Venus	108565-11-05 23:15 G	41373921.32	41373921.47	41373921.63	0.0136	0.0091
Venus	108566-06-20 04:47 G	41374147.53	41374147.70	41374147.88	0.0136	0.0077
Moon	108566-12-18 08:37 G	41374328.71	41374328.86	41374329.02	0.0136	0.0104
Earth	108566-12-18 08:51 G	41374328.73	41374328.87	41374329.02	0.0136	0.0109 *
Venus	108567-02-01 10:03 G	41374373.74	41374373.92	41374374.12	0.0136	0.0063
Venus	108567-09-15 15:35 G	41374599.96	41374600.15	41374600.36	0.0136	0.0049
Moon	108567-12-22 17:30 G	41374697.97	41374698.23	41374698.49	0.0136	0.0021
Earth	108567-12-22 17:30 G	41374697.98	41374698.23	41374698.49	0.0136	0.0014 *
Venus	108568-04-28 21:06 G	41374826.17	41374826.38	41374826.58	0.0136	0.0034
Venus	108568-12-11 02:08 G	41375052.38	41375052.59	41375052.80	0.0136	0.0019
Earth	108568-12-26 01:54 G	41375067.39	41375067.58	41375067.79	0.0136	0.0081
Moon	108568-12-26 01:39 G	41375067.40	41375067.57	41375067.77	0.0136	0.0088 *
Venus	108569-07-25 07:11 G	41375278.59	41375278.80	41375279.01	0.0135	0.0005
Venus	108570-03-08 12:13 G	41375504.80	41375505.01	41375505.22	0.0135	0.0009
Venus	108570-10-20 17:15 G	41375731.01	41375731.22	41375731.43	0.0135	0.0024
Venus	108571-06-03 22:03 G	41375957.22	41375957.42	41375957.63	0.0135	0.0038
Venus	108572-01-16 02:51 G	41376183.43	41376183.62	41376183.82	0.0135	0.0052

Venus	108572-08-29 07:25 G	41376409.64	41376409.81	41376410.01	0.0135	0.0067
Venus	108573-04-12 12:13 G	41376635.85	41376636.01	41376636.20	0.0135	0.0080
Venus	108573-11-24 17:15 G	41376862.07	41376862.22	41376862.38	0.0135	0.0093
Venus	108574-07-08 21:35 G	41377088.29	41377088.40	41377088.55	0.0135	0.0107
Venus	108575-02-20 02:23 G	41377314.51	41377314.60	41377314.71	0.0135	0.0120
Venus	108575-10-04 06:56 G	41377540.77	41377540.79	41377540.83	0.0135	0.0133
Mars	108581-03-05 23:15 G	41379520.44	41379520.47	41379520.54	0.0135	0.0133
Mercury	108601-02-27 10:03 G	41386817.90	41386817.92	41386817.95	0.0140	0.0136
Mercury	108601-05-26 13:25 G	41386906.00	41386906.06	41386906.15	0.0140	0.0116
Mercury	108601-08-22 17:01 G	41386994.12	41386994.21	41386994.32	0.0140	0.0096
Mercury	108601-11-18 20:37 G	41387082.26	41387082.36	41387082.48	0.0140	0.0076
Mercury	108602-02-15 00:13 G	41387170.39	41387170.51	41387170.64	0.0140	0.0056
Mercury	108602-05-14 03:49 G	41387258.53	41387258.66	41387258.79	0.0140	0.0036
Mercury	108602-08-10 07:11 G	41387346.67	41387346.80	41387346.94	0.0140	0.0017
Mercury	108602-11-06 10:47 G	41387434.82	41387434.95	41387435.09	0.0140	0.0005
Mercury	108603-02-02 14:23 G	41387522.97	41387523.10	41387523.23	0.0141	0.0025
Mercury	108603-05-01 17:44 G	41387611.12	41387611.24	41387611.37	0.0141	0.0044
Mercury	108603-07-28 21:06 G	41387699.27	41387699.38	41387699.50	0.0141	0.0065
Mercury	108603-10-25 00:42 G	41387787.42	41387787.53	41387787.63	0.0141	0.0084
Mercury	108604-01-21 04:03 G	41387875.59	41387875.67	41387875.76	0.0141	0.0104
Mercury	108604-04-18 07:25 G	41387963.76	41387963.81	41387963.88	0.0141	0.0124
Venus	108607-05-11 08:08 G	41389081.79	41389081.84	41389081.92	0.0142	0.0136
Venus	108607-12-23 19:39 G	41389308.21	41389308.32	41389308.44	0.0142	0.0120
Venus	108608-08-06 07:11 G	41389534.66	41389534.80	41389534.96	0.0142	0.0104
Venus	108609-03-20 19:11 G	41389761.13	41389761.30	41389761.47	0.0142	0.0087
Venus	108609-11-02 06:42 G	41389987.60	41389987.78	41389987.99	0.0142	0.0072
Venus	108610-06-16 18:42 G	41390214.09	41390214.28	41390214.50	0.0142	0.0055
Earth	108610-06-20 01:25 G	41390217.33	41390217.56	41390217.81	0.0142	0.0051
Moon	108610-06-20 02:51 G	41390217.39	41390217.62	41390217.86	0.0142	0.0047 *
Venus	108611-01-29 07:11 G	41390440.59	41390440.80	41390441.02	0.0142	0.0037

Moon	108611-06-25 00:42 G	41390587.30	41390587.53	41390587.78	0.0142	0.0064
Earth	108611-06-25 01:11 G	41390587.32	41390587.55	41390587.78	0.0142	0.0062 *
Venus	108611-09-12 19:25 G	41390667.10	41390667.31	41390667.54	0.0142	0.0020
Venus	108612-04-26 08:08 G	41390893.62	41390893.84	41390894.06	0.0143	0.0002
Venus	108612-12-08 20:37 G	41391120.14	41391120.36	41391120.59	0.0143	0.0016
Venus	108613-07-23 09:06 G	41391346.67	41391346.88	41391347.11	0.0143	0.0034
Venus	108614-03-06 22:03 G	41391573.22	41391573.42	41391573.63	0.0143	0.0051
Venus	108614-10-19 10:47 G	41391799.76	41391799.95	41391800.15	0.0143	0.0069
Venus	108615-06-02 23:44 G	41392026.32	41392026.49	41392026.68	0.0143	0.0086
Venus	108616-01-15 12:42 G	41392252.89	41392253.03	41392253.19	0.0143	0.0103
Venus	108616-08-29 01:25 G	41392479.46	41392479.56	41392479.70	0.0143	0.0120
Venus	108617-04-12 14:51 G	41392706.06	41392706.12	41392706.19	0.0143	0.0136
Mars	108623-06-30 02:51 G	41394975.30	41394975.62	41394975.96	0.0143	0.0040
Mercury	108642-03-17 13:25 G	41401810.99	41401811.06	41401811.13	0.0138	0.0127
Mercury	108642-06-13 20:23 G	41401899.23	41401899.35	41401899.49	0.0138	0.0101
Mercury	108642-09-10 04:03 G	41401987.51	41401987.67	41401987.83	0.0138	0.0074
Mercury	108642-12-07 11:15 G	41402075.80	41402075.97	41402076.15	0.0138	0.0048
Mercury	108643-03-05 18:42 G	41402164.09	41402164.28	41402164.47	0.0138	0.0021
Mercury	108643-06-02 02:08 G	41402252.40	41402252.59	41402252.78	0.0138	0.0006
Mercury	108643-08-29 09:35 G	41402340.72	41402340.90	41402341.09	0.0137	0.0033
Mercury	108643-11-25 16:47 G	41402429.04	41402429.20	41402429.38	0.0137	0.0061
Mercury	108644-02-22 00:13 G	41402517.38	41402517.51	41402517.67	0.0137	0.0088
Mercury	108644-05-20 07:39 G	41402605.73	41402605.82	41402605.94	0.0137	0.0115
Venus	108648-04-10 21:35 G	41404027.32	41404027.40	41404027.50	0.0136	0.0124
Venus	108648-11-23 03:35 G	41404253.53	41404253.65	41404253.78	0.0136	0.0110
Venus	108649-07-07 09:20 G	41404479.74	41404479.89	41404480.05	0.0136	0.0095
Venus	108650-02-18 15:06 G	41404705.96	41404706.13	41404706.30	0.0136	0.0081
Venus	108650-10-02 20:37 G	41404932.18	41404932.36	41404932.55	0.0136	0.0067
Earth	108650-12-19 19:11 G	41405010.15	41405010.30	41405010.47	0.0136	0.0104
Moon	108650-12-19 22:32 G	41405010.29	41405010.44	41405010.62	0.0136	0.0102 *

Venus	108651-05-17 01:54 G	41405158.39	41405158.58	41405158.79	0.0136	0.0053
Moon	108651-12-24 01:11 G	41405379.29	41405379.55	41405379.81	0.0136	0.0008
Earth	108651-12-24 04:18 G	41405379.43	41405379.68	41405379.94	0.0136	0.0009 *
Venus	108651-12-29 07:11 G	41405384.60	41405384.80	41405385.01	0.0136	0.0039
Venus	108652-08-11 12:27 G	41405610.82	41405611.02	41405611.24	0.0136	0.0024
Earth	108652-12-27 12:27 G	41405748.84	41405749.02	41405749.23	0.0135	0.0087
Moon	108652-12-27 15:35 G	41405748.96	41405749.15	41405749.36	0.0135	0.0082 *
Venus	108653-03-25 17:44 G	41405837.03	41405837.24	41405837.45	0.0135	0.0010
Venus	108653-11-06 23:01 G	41406063.24	41406063.46	41406063.67	0.0135	0.0005
Venus	108654-06-21 03:49 G	41406289.45	41406289.66	41406289.88	0.0135	0.0019
Venus	108655-02-02 08:51 G	41406515.66	41406515.87	41406516.08	0.0135	0.0033
Venus	108655-09-16 13:39 G	41406741.87	41406742.07	41406742.27	0.0135	0.0047
Venus	108656-04-29 18:27 G	41406968.09	41406968.27	41406968.46	0.0135	0.0061
Venus	108656-12-11 23:15 G	41407194.30	41407194.47	41407194.65	0.0135	0.0075
Venus	108657-07-26 03:35 G	41407420.51	41407420.65	41407420.83	0.0135	0.0090
Venus	108658-03-09 08:23 G	41407646.72	41407646.85	41407647.00	0.0135	0.0102
Venus	108658-10-21 12:56 G	41407872.95	41407873.04	41407873.16	0.0135	0.0116
Venus	108659-06-04 17:15 G	41408099.18	41408099.22	41408099.31	0.0135	0.0129
Mars	108665-10-30 00:42 G	41410438.25	41410438.53	41410438.81	0.0135	0.0014
Mercury	108685-03-19 17:01 G	41417519.18	41417519.21	41417519.26	0.0140	0.0132
Mercury	108685-06-15 20:37 G	41417607.29	41417607.36	41417607.45	0.0140	0.0112
Mercury	108685-09-12 00:13 G	41417695.41	41417695.51	41417695.61	0.0140	0.0092
Mercury	108685-12-09 03:35 G	41417783.55	41417783.65	41417783.78	0.0140	0.0073
Mercury	108686-03-07 07:11 G	41417871.68	41417871.80	41417871.93	0.0140	0.0052
Mercury	108686-06-03 10:47 G	41417959.82	41417959.95	41417960.08	0.0140	0.0032
Mercury	108686-08-30 14:23 G	41418047.97	41418048.10	41418048.23	0.0140	0.0012
Mercury	108686-11-26 17:44 G	41418136.11	41418136.24	41418136.38	0.0140	0.0009
Mercury	108687-02-22 21:20 G	41418224.26	41418224.39	41418224.52	0.0141	0.0028
Mercury	108687-05-22 00:42 G	41418312.41	41418312.53	41418312.66	0.0141	0.0048
Mercury	108687-08-18 04:18 G	41418400.56	41418400.68	41418400.79	0.0141	0.0068

Mercury	108687-11-14 07:39 G	41418488.72	41418488.82	41418488.93	0.0141	0.0088
Mercury	108688-02-10 11:01 G	41418576.88	41418576.96	41418577.05	0.0141	0.0108
Mercury	108688-05-08 14:23 G	41418665.06	41418665.10	41418665.16	0.0141	0.0128
Venus	108691-01-08 13:54 G	41419640.07	41419640.08	41419640.11	0.0142	0.0141
Venus	108691-08-23 00:56 G	41419866.46	41419866.54	41419866.66	0.0142	0.0126
Venus	108692-04-05 12:42 G	41420092.91	41420093.03	41420093.18	0.0142	0.0110
Venus	108692-11-18 00:27 G	41420319.36	41420319.52	41420319.70	0.0142	0.0093
Venus	108693-07-02 12:27 G	41420545.83	41420546.02	41420546.21	0.0142	0.0077
Venus	108694-02-14 00:27 G	41420772.32	41420772.52	41420772.72	0.0142	0.0060
Earth	108694-06-20 10:32 G	41420898.71	41420898.94	41420899.19	0.0142	0.0047
Moon	108694-06-20 13:54 G	41420898.86	41420899.08	41420899.33	0.0142	0.0054 *
Venus	108694-09-28 12:27 G	41420998.81	41420999.02	41420999.24	0.0142	0.0043
Venus	108695-05-13 00:56 G	41421225.32	41421225.54	41421225.76	0.0142	0.0025
Moon	108695-06-25 06:13 G	41421268.55	41421268.76	41421269.00	0.0142	0.0073
Earth	108695-06-25 10:03 G	41421268.70	41421268.92	41421269.15	0.0142	0.0066 *
Venus	108695-12-25 13:25 G	41421451.84	41421452.06	41421452.28	0.0143	0.0008
Venus	108696-08-08 01:54 G	41421678.36	41421678.58	41421678.80	0.0143	0.0010
Venus	108697-03-22 14:23 G	41421904.89	41421905.10	41421905.33	0.0143	0.0028
Venus	108697-11-04 03:06 G	41422131.43	41422131.63	41422131.85	0.0143	0.0045
Venus	108698-06-18 16:03 G	41422357.97	41422358.17	41422358.37	0.0143	0.0062
Venus	108699-01-31 04:32 G	41422584.52	41422584.69	41422584.89	0.0143	0.0080
Venus	108699-09-14 17:30 G	41422811.08	41422811.23	41422811.40	0.0143	0.0097
Venus	108700-04-29 06:27 G	41423037.65	41423037.77	41423037.92	0.0143	0.0114
Venus	108700-12-11 19:39 G	41423264.24	41423264.32	41423264.42	0.0143	0.0130
Mercury	108726-04-07 20:08 G	41432512.26	41432512.34	41432512.44	0.0138	0.0121
Mercury	108726-07-05 03:49 G	41432600.52	41432600.66	41432600.79	0.0138	0.0094
Mercury	108726-10-01 10:47 G	41432688.80	41432688.95	41432689.13	0.0138	0.0068
Mercury	108726-12-28 18:27 G	41432777.09	41432777.27	41432777.45	0.0138	0.0041
Mercury	108727-03-27 01:39 G	41432865.39	41432865.57	41432865.77	0.0138	0.0015
Mercury	108727-06-23 09:20 G	41432953.70	41432953.89	41432954.08	0.0138	0.0013

Mercury	108727-09-19 16:32 G	41433042.01	41433042.19	41433042.38	0.0137	0.0040
Mercury	108727-12-16 23:59 G	41433130.34	41433130.50	41433130.67	0.0137	0.0067
Mercury	108728-03-14 07:25 G	41433218.68	41433218.81	41433218.96	0.0137	0.0094
Mercury	108728-06-10 14:51 G	41433307.04	41433307.12	41433307.22	0.0137	0.0121
Venus	108731-12-11 07:11 G	41434585.74	41434585.80	41434585.89	0.0136	0.0128
Venus	108732-07-24 13:25 G	41434811.94	41434812.06	41434812.18	0.0136	0.0114
Venus	108733-03-07 18:56 G	41435038.16	41435038.29	41435038.45	0.0136	0.0100
Venus	108733-10-20 01:11 G	41435264.38	41435264.55	41435264.71	0.0136	0.0085
Venus	108734-06-03 06:42 G	41435490.60	41435490.78	41435490.96	0.0136	0.0071
Earth	108734-12-21 05:44 G	41435691.58	41435691.74	41435691.92	0.0136	0.0099
Moon	108734-12-21 07:11 G	41435691.66	41435691.80	41435691.98	0.0136	0.0106 *
Venus	108735-01-15 12:13 G	41435716.82	41435717.01	41435717.21	0.0136	0.0057
Venus	108735-08-29 17:30 G	41435943.03	41435943.23	41435943.44	0.0136	0.0043
Moon	108735-12-25 12:42 G	41436060.79	41436061.03	41436061.28	0.0136	0.0003
Earth	108735-12-25 14:51 G	41436060.87	41436061.12	41436061.38	0.0136	0.0004 *
Venus	108736-04-11 23:01 G	41436169.25	41436169.46	41436169.67	0.0136	0.0028
Venus	108736-11-24 04:18 G	41436395.47	41436395.68	41436395.89	0.0136	0.0014
Earth	108736-12-28 23:15 G	41436430.29	41436430.47	41436430.66	0.0135	0.0092
Moon	108736-12-29 01:11 G	41436430.36	41436430.55	41436430.76	0.0135	0.0087 *
Venus	108737-07-08 09:20 G	41436621.68	41436621.89	41436622.11	0.0135	0.0003
Venus	108738-02-19 14:23 G	41436847.89	41436848.10	41436848.32	0.0135	0.0015
Venus	108738-10-03 19:25 G	41437074.11	41437074.31	41437074.53	0.0135	0.0030
Venus	108739-05-18 00:27 G	41437300.32	41437300.52	41437300.73	0.0135	0.0043
Venus	108739-12-30 05:15 G	41437526.53	41437526.72	41437526.92	0.0135	0.0057
Venus	108740-08-12 09:49 G	41437752.74	41437752.91	41437753.10	0.0135	0.0072
Venus	108741-03-26 14:23 G	41437978.95	41437979.10	41437979.28	0.0135	0.0085
Venus	108741-11-07 19:25 G	41438205.17	41438205.31	41438205.46	0.0135	0.0098
Venus	108742-06-21 23:44 G	41438431.39	41438431.49	41438431.63	0.0135	0.0112
Venus	108743-02-03 04:18 G	41438657.62	41438657.68	41438657.77	0.0135	0.0125
Mars	108750-06-25 02:23 G	41441356.46	41441356.60	41441356.80	0.0135	0.0108

Mercury	108769-04-10 00:27 G	41448220.47	41448220.52	41448220.58	0.0140	0.0126
Mercury	108769-07-07 04:03 G	41448308.59	41448308.67	41448308.76	0.0140	0.0106
Mercury	108769-10-03 07:39 G	41448396.71	41448396.82	41448396.92	0.0140	0.0086
Mercury	108769-12-30 11:01 G	41448484.85	41448484.96	41448485.08	0.0140	0.0067
Mercury	108770-03-28 14:37 G	41448572.99	41448573.11	41448573.24	0.0140	0.0046
Mercury	108770-06-24 18:13 G	41448661.13	41448661.26	41448661.39	0.0140	0.0026
Mercury	108770-09-20 21:35 G	41448749.27	41448749.40	41448749.54	0.0140	0.0008
Mercury	108770-12-18 01:11 G	41448837.42	41448837.55	41448837.68	0.0140	0.0014
Mercury	108771-03-16 04:32 G	41448925.56	41448925.69	41448925.82	0.0141	0.0034
Mercury	108771-06-12 08:08 G	41449013.72	41449013.84	41449013.96	0.0141	0.0053
Mercury	108771-09-08 11:30 G	41449101.87	41449101.98	41449102.10	0.0141	0.0073
Mercury	108771-12-05 15:06 G	41449190.03	41449190.13	41449190.23	0.0141	0.0093
Mercury	108772-03-02 18:27 G	41449278.19	41449278.27	41449278.35	0.0141	0.0113
Mercury	108772-05-29 21:49 G	41449366.37	41449366.41	41449366.46	0.0141	0.0133
Venus	108775-04-23 08:08 G	41450424.76	41450424.84	41450424.93	0.0142	0.0130
Venus	108775-12-05 19:39 G	41450651.19	41450651.32	41450651.45	0.0142	0.0114
Venus	108776-07-19 06:56 G	41450877.64	41450877.79	41450877.96	0.0142	0.0098
Venus	108777-03-02 18:56 G	41451104.11	41451104.29	41451104.48	0.0142	0.0081
Venus	108777-10-15 06:42 G	41451330.60	41451330.78	41451330.99	0.0142	0.0065
Venus	108778-05-29 18:56 G	41451557.09	41451557.29	41451557.50	0.0142	0.0048
Moon	108778-06-21 21:06 G	41451580.13	41451580.38	41451580.64	0.0142	0.0041
Earth	108778-06-21 21:20 G	41451580.15	41451580.39	41451580.64	0.0142	0.0041 *
Venus	108779-01-11 07:11 G	41451783.58	41451783.80	41451784.02	0.0142	0.0030
Earth	108779-06-26 20:37 G	41451950.15	41451950.36	41451950.59	0.0142	0.0072
Moon	108779-06-26 21:06 G	41451950.17	41451950.38	41451950.60	0.0142	0.0070 *
Venus	108779-08-25 19:25 G	41452010.09	41452010.31	41452010.54	0.0142	0.0013
Venus	108780-04-08 08:08 G	41452236.62	41452236.84	41452237.06	0.0143	0.0004
Venus	108780-11-20 20:37 G	41452463.14	41452463.36	41452463.58	0.0143	0.0022
Venus	108781-07-05 09:06 G	41452689.67	41452689.88	41452690.10	0.0143	0.0040
Venus	108782-02-16 21:49 G	41452916.21	41452916.41	41452916.62	0.0143	0.0057

Venus	108782-10-01 10:32 G	41453142.76	41453142.94	41453143.14	0.0143	0.0074
Venus	108783-05-15 23:30 G	41453369.32	41453369.48	41453369.66	0.0143	0.0091
Venus	108783-12-28 12:27 G	41453595.88	41453596.02	41453596.17	0.0143	0.0108
Venus	108784-08-11 01:11 G	41453822.46	41453822.55	41453822.67	0.0143	0.0125
Venus	108785-03-25 14:08 G	41454049.07	41454049.09	41454049.13	0.0143	0.0142
Mars	108790-11-14 17:44 G	41456108.98	41456109.24	41456109.54	0.0143	0.0082
Mercury	108810-04-28 03:20 G	41463213.54	41463213.64	41463213.75	0.0138	0.0114
Mercury	108810-07-25 10:32 G	41463301.81	41463301.94	41463302.10	0.0138	0.0088
Mercury	108810-10-21 17:59 G	41463390.09	41463390.25	41463390.43	0.0138	0.0061
Mercury	108811-01-18 01:25 G	41463478.38	41463478.56	41463478.75	0.0138	0.0034
Mercury	108811-04-16 08:51 G	41463566.68	41463566.87	41463567.06	0.0138	0.0008
Mercury	108811-07-13 16:18 G	41463654.99	41463655.18	41463655.37	0.0138	0.0019
Mercury	108811-10-09 23:30 G	41463743.31	41463743.48	41463743.67	0.0137	0.0047
Mercury	108812-01-06 06:56 G	41463831.64	41463831.79	41463831.96	0.0137	0.0073
Mercury	108812-04-03 14:23 G	41463919.98	41463920.10	41463920.24	0.0137	0.0100
Mercury	108812-06-30 21:49 G	41464008.35	41464008.41	41464008.50	0.0137	0.0127
Venus	108815-08-10 16:47 G	41465144.15	41465144.20	41465144.26	0.0136	0.0132
Venus	108816-03-23 23:01 G	41465370.36	41465370.46	41465370.57	0.0136	0.0118
Venus	108816-11-05 05:01 G	41465596.57	41465596.71	41465596.85	0.0136	0.0104
Venus	108817-06-19 10:32 G	41465822.79	41465822.94	41465823.11	0.0136	0.0090
Venus	108818-01-31 16:32 G	41466049.01	41466049.19	41466049.37	0.0136	0.0075
Venus	108818-09-14 22:03 G	41466275.24	41466275.42	41466275.62	0.0136	0.0061
Moon	108818-12-21 12:13 G	41466372.85	41466373.01	41466373.21	0.0136	0.0097
Earth	108818-12-21 16:03 G	41466372.99	41466373.17	41466373.35	0.0136	0.0094 *
Venus	108819-04-29 03:35 G	41466501.46	41466501.65	41466501.86	0.0136	0.0047
Venus	108819-12-11 08:51 G	41466727.67	41466727.87	41466728.09	0.0136	0.0033
Earth	108819-12-26 00:56 G	41466742.29	41466742.54	41466742.80	0.0136	0.0002
Moon	108819-12-26 04:32 G	41466742.44	41466742.69	41466742.94	0.0136	0.0002 *
Venus	108820-07-24 14:23 G	41466953.89	41466954.10	41466954.31	0.0136	0.0018
Moon	108820-12-29 05:44 G	41467111.59	41467111.74	41467111.93	0.0135	0.0100

Earth	108820-12-29 09:20 G	41467111.73	41467111.89	41467112.08	0.0135	0.0097 *
Venus	108821-03-07 19:39 G	41467180.10	41467180.32	41467180.53	0.0135	0.0004
Venus	108821-10-20 00:56 G	41467406.32	41467406.54	41467406.75	0.0135	0.0011
Venus	108822-06-03 05:44 G	41467632.54	41467632.74	41467632.96	0.0135	0.0026
Venus	108823-01-15 10:47 G	41467858.75	41467858.95	41467859.16	0.0135	0.0039
Venus	108823-08-29 15:35 G	41468084.96	41468085.15	41468085.35	0.0135	0.0053
Venus	108824-04-11 20:08 G	41468311.17	41468311.34	41468311.54	0.0135	0.0067
Venus	108824-11-24 00:56 G	41468537.38	41468537.54	41468537.72	0.0135	0.0081
Venus	108825-07-08 05:44 G	41468763.59	41468763.74	41468763.90	0.0135	0.0094
Venus	108826-02-19 10:03 G	41468989.81	41468989.92	41468990.06	0.0135	0.0108
Venus	108826-10-03 14:37 G	41469216.04	41469216.11	41469216.22	0.0135	0.0121
Venus	108827-05-17 19:11 G	41469442.29	41469442.30	41469442.34	0.0135	0.0134
Mars	108833-03-20 08:51 G	41471575.67	41471575.87	41471576.09	0.0135	0.0090
Mercury	108853-04-30 07:39 G	41478921.76	41478921.82	41478921.89	0.0140	0.0122
Mercury	108853-07-27 11:15 G	41479009.88	41479009.97	41479010.06	0.0140	0.0102
Mercury	108853-10-23 14:51 G	41479098.01	41479098.12	41479098.23	0.0140	0.0082
Mercury	108854-01-19 18:27 G	41479186.15	41479186.27	41479186.39	0.0140	0.0062
Mercury	108854-04-17 21:49 G	41479274.29	41479274.41	41479274.54	0.0140	0.0042
Mercury	108854-07-15 01:25 G	41479362.43	41479362.56	41479362.69	0.0140	0.0022
Mercury	108854-10-11 04:47 G	41479450.57	41479450.70	41479450.84	0.0140	0.0005
Mercury	108855-01-07 08:23 G	41479538.72	41479538.85	41479538.98	0.0141	0.0018
Mercury	108855-04-05 11:44 G	41479626.87	41479626.99	41479627.12	0.0141	0.0039
Mercury	108855-07-02 15:06 G	41479715.02	41479715.13	41479715.26	0.0141	0.0059
Mercury	108855-09-28 18:42 G	41479803.18	41479803.28	41479803.40	0.0141	0.0078
Mercury	108855-12-25 22:18 G	41479891.34	41479891.43	41479891.52	0.0141	0.0098
Mercury	108856-03-23 01:39 G	41479979.50	41479979.57	41479979.64	0.0141	0.0118
Mercury	108856-06-19 05:01 G	41480067.69	41480067.71	41480067.74	0.0141	0.0138
Venus	108858-12-21 14:37 G	41480983.06	41480983.11	41480983.19	0.0142	0.0135
Venus	108859-08-05 01:54 G	41481209.48	41481209.58	41481209.71	0.0142	0.0119
Venus	108860-03-18 13:39 G	41481435.93	41481436.07	41481436.23	0.0142	0.0103

Venus	108860-10-31 01:39 G	41481662.40	41481662.57	41481662.75	0.0142	0.0086
Venus	108861-06-14 13:11 G	41481888.87	41481889.05	41481889.26	0.0142	0.0070
Venus	108862-01-27 01:11 G	41482115.36	41482115.55	41482115.77	0.0142	0.0053
Moon	108862-06-22 04:47 G	41482261.46	41482261.70	41482261.96	0.0142	0.0029
Earth	108862-06-22 08:23 G	41482261.60	41482261.85	41482262.10	0.0142	0.0036 *
Venus	108862-09-10 13:39 G	41482341.85	41482342.07	41482342.28	0.0142	0.0036
Venus	108863-04-25 01:54 G	41482568.37	41482568.58	41482568.81	0.0142	0.0019
Earth	108863-06-27 07:25 G	41482631.61	41482631.81	41482632.04	0.0142	0.0078
Moon	108863-06-27 10:47 G	41482631.73	41482631.95	41482632.19	0.0142	0.0070 *
Venus	108863-12-07 14:23 G	41482794.88	41482795.10	41482795.32	0.0143	0.0002
Venus	108864-07-21 02:51 G	41483021.40	41483021.62	41483021.84	0.0143	0.0017
Venus	108865-03-04 15:35 G	41483247.93	41483248.15	41483248.36	0.0143	0.0034
Venus	108865-10-17 04:03 G	41483474.47	41483474.67	41483474.88	0.0143	0.0052
Venus	108866-05-31 16:47 G	41483701.02	41483701.20	41483701.41	0.0143	0.0069
Venus	108867-01-13 05:44 G	41483927.57	41483927.74	41483927.92	0.0143	0.0086
Venus	108867-08-27 18:27 G	41484154.13	41484154.27	41484154.43	0.0143	0.0103
Venus	108868-04-10 07:25 G	41484380.70	41484380.81	41484380.94	0.0143	0.0120
Venus	108868-11-22 20:37 G	41484607.30	41484607.36	41484607.43	0.0143	0.0136
Mars	108875-07-12 13:39 G	41487029.85	41487030.07	41487030.34	0.0143	0.0101
Mercury	108894-02-19 03:35 G	41493826.61	41493826.65	41493826.71	0.0138	0.0132
Mercury	108894-05-18 10:47 G	41493914.84	41493914.95	41493915.08	0.0138	0.0106
Mercury	108894-08-14 17:59 G	41494003.11	41494003.25	41494003.42	0.0138	0.0080
Mercury	108894-11-11 01:39 G	41494091.40	41494091.57	41494091.75	0.0138	0.0053
Mercury	108895-02-07 08:51 G	41494179.69	41494179.87	41494180.06	0.0138	0.0027
Mercury	108895-05-06 16:18 G	41494267.99	41494268.18	41494268.37	0.0138	0.0003
Mercury	108895-08-02 23:44 G	41494356.31	41494356.49	41494356.68	0.0138	0.0027
Mercury	108895-10-30 06:56 G	41494444.63	41494444.79	41494444.98	0.0137	0.0055
Mercury	108896-01-26 14:37 G	41494532.96	41494533.11	41494533.27	0.0137	0.0081
Mercury	108896-04-23 22:03 G	41494621.31	41494621.42	41494621.54	0.0137	0.0108
Mercury	108896-07-21 05:30 G	41494709.70	41494709.73	41494709.77	0.0137	0.0135

Venus	108899-04-10 02:37 G	41495702.61	41495702.61	41495702.66	0.0137	0.0136
Venus	108899-11-22 09:06 G	41495928.79	41495928.88	41495928.99	0.0136	0.0121
Venus	108900-07-06 15:06 G	41496155.01	41496155.13	41496155.27	0.0136	0.0108
Venus	108901-02-17 21:06 G	41496381.23	41496381.38	41496381.54	0.0136	0.0093
Venus	108901-10-02 02:51 G	41496607.46	41496607.62	41496607.81	0.0136	0.0079
Venus	108902-05-16 08:37 G	41496833.68	41496833.86	41496834.06	0.0136	0.0065
Earth	108902-12-23 03:20 G	41497054.45	41497054.64	41497054.83	0.0136	0.0089
Moon	108902-12-23 03:20 G	41497054.46	41497054.64	41497054.84	0.0136	0.0083 *
Venus	108902-12-28 14:08 G	41497059.90	41497060.09	41497060.30	0.0136	0.0051
Venus	108903-08-11 19:39 G	41497286.12	41497286.32	41497286.53	0.0136	0.0036
Moon	108903-12-27 11:44 G	41497423.73	41497423.99	41497424.26	0.0136	0.0002
Earth	108903-12-27 12:27 G	41497423.77	41497424.02	41497424.27	0.0136	0.0007 *
Venus	108904-03-25 01:11 G	41497512.34	41497512.55	41497512.76	0.0136	0.0022
Venus	108904-11-06 06:27 G	41497738.56	41497738.77	41497738.99	0.0135	0.0007
Earth	108904-12-30 20:37 G	41497793.21	41497793.36	41497793.54	0.0135	0.0102
Moon	108904-12-30 21:06 G	41497793.23	41497793.38	41497793.52	0.0135	0.0108 *
Venus	108905-06-20 11:44 G	41497964.77	41497964.99	41497965.20	0.0135	0.0007
Venus	108906-02-01 16:32 G	41498190.99	41498191.19	41498191.41	0.0135	0.0022
Venus	108906-09-15 21:35 G	41498417.20	41498417.40	41498417.61	0.0135	0.0036
Venus	108907-04-30 02:23 G	41498643.41	41498643.60	41498643.80	0.0135	0.0050
Venus	108907-12-12 07:11 G	41498869.62	41498869.80	41498869.99	0.0135	0.0064
Venus	108908-07-25 11:44 G	41499095.83	41499095.99	41499096.18	0.0135	0.0078
Venus	108909-03-08 16:18 G	41499322.04	41499322.18	41499322.35	0.0135	0.0091
Venus	108909-10-20 21:06 G	41499548.26	41499548.38	41499548.53	0.0135	0.0104
Venus	108910-06-04 01:39 G	41499774.48	41499774.57	41499774.69	0.0135	0.0117
Venus	108911-01-16 06:13 G	41500000.72	41500000.76	41500000.82	0.0135	0.0130
Mars	108917-11-13 13:25 G	41502493.79	41502494.06	41502494.33	0.0135	0.0031
Mercury	108937-02-22 11:30 G	41509534.96	41509534.98	41509535.02	0.0140	0.0136
Mercury	108937-05-21 15:06 G	41509623.06	41509623.13	41509623.21	0.0140	0.0116
Mercury	108937-08-17 18:27 G	41509711.19	41509711.27	41509711.38	0.0140	0.0097

Mercury	108937-11-13 22:03 G	41509799.32	41509799.42	41509799.54	0.0140	0.0076
Mercury	108938-02-10 01:39 G	41509887.45	41509887.57	41509887.70	0.0140	0.0056
Mercury	108938-05-09 05:15 G	41509975.59	41509975.72	41509975.85	0.0140	0.0036
Mercury	108938-08-05 08:51 G	41510063.74	41510063.87	41510064.00	0.0140	0.0016
Mercury	108938-11-01 12:13 G	41510151.88	41510152.01	41510152.15	0.0141	0.0006
Mercury	108939-01-28 15:49 G	41510240.03	41510240.16	41510240.29	0.0141	0.0024
Mercury	108939-04-26 19:11 G	41510328.18	41510328.30	41510328.43	0.0141	0.0044
Mercury	108939-07-23 22:47 G	41510416.33	41510416.45	41510416.57	0.0141	0.0064
Mercury	108939-10-20 02:08 G	41510504.49	41510504.59	41510504.70	0.0141	0.0084
Mercury	108940-01-16 05:30 G	41510592.65	41510592.73	41510592.83	0.0141	0.0104
Mercury	108940-04-13 08:51 G	41510680.82	41510680.87	41510680.94	0.0141	0.0124
Venus	108942-08-21 22:03 G	41511541.39	41511541.42	41511541.48	0.0142	0.0139
Venus	108943-04-05 09:35 G	41511767.80	41511767.90	41511768.02	0.0142	0.0123
Venus	108943-11-17 21:06 G	41511994.25	41511994.38	41511994.53	0.0142	0.0107
Venus	108944-07-01 08:37 G	41512220.70	41512220.86	41512221.04	0.0142	0.0091
Venus	108945-02-12 20:37 G	41512447.17	41512447.36	41512447.55	0.0142	0.0074
Earth	108945-06-18 20:51 G	41512573.36	41512573.37	41512573.40	0.0142	0.0141
Venus	108945-09-27 08:37 G	41512673.66	41512673.86	41512674.06	0.0142	0.0057
Venus	108946-05-11 20:37 G	41512900.16	41512900.36	41512900.58	0.0142	0.0041
Earth	108946-06-23 19:54 G	41512943.08	41512943.33	41512943.59	0.0142	0.0029
Moon	108946-06-23 22:47 G	41512943.20	41512943.45	41512943.70	0.0142	0.0024 *
Venus	108946-12-24 08:51 G	41513126.66	41513126.87	41513127.10	0.0142	0.0024
Moon	108947-06-28 17:15 G	41513313.02	41513313.22	41513313.45	0.0143	0.0085
Earth	108947-06-28 19:11 G	41513313.11	41513313.30	41513313.52	0.0143	0.0085 *
Venus	108947-08-07 21:20 G	41513353.17	41513353.39	41513353.61	0.0143	0.0006
Venus	108948-03-21 09:49 G	41513579.69	41513579.91	41513580.13	0.0143	0.0012
Venus	108948-11-02 22:18 G	41513806.22	41513806.43	41513806.65	0.0143	0.0029
Venus	108949-06-17 10:47 G	41514032.75	41514032.95	41514033.17	0.0143	0.0047
Venus	108950-01-29 23:30 G	41514259.29	41514259.48	41514259.69	0.0143	0.0064
Venus	108950-09-13 12:13 G	41514485.84	41514486.01	41514486.20	0.0143	0.0081

Venus	108951-04-28 01:11 G	41514712.40	41514712.55	41514712.72	0.0143	0.0098
Venus	108951-12-10 14:08 G	41514938.97	41514939.09	41514939.23	0.0143	0.0115
Venus	108952-07-24 02:51 G	41515165.55	41515165.62	41515165.72	0.0143	0.0132
Mercury	108978-03-12 11:30 G	41524527.91	41524527.98	41524528.07	0.0138	0.0123
Mercury	108978-06-08 18:42 G	41524616.16	41524616.28	41524616.42	0.0138	0.0097
Mercury	108978-09-05 01:54 G	41524704.43	41524704.58	41524704.75	0.0138	0.0071
Mercury	108978-12-02 09:35 G	41524792.72	41524792.90	41524793.08	0.0138	0.0044
Mercury	108979-02-28 16:47 G	41524881.01	41524881.20	41524881.39	0.0138	0.0017
Mercury	108979-05-28 00:13 G	41524969.32	41524969.51	41524969.70	0.0138	0.0009
Mercury	108979-08-24 07:25 G	41525057.63	41525057.81	41525058.00	0.0137	0.0036
Mercury	108979-11-20 14:51 G	41525145.96	41525146.12	41525146.29	0.0137	0.0063
Mercury	108980-02-16 22:18 G	41525234.29	41525234.43	41525234.58	0.0137	0.0090
Mercury	108980-05-15 05:44 G	41525322.65	41525322.74	41525322.85	0.0137	0.0116
Venus	108983-07-23 19:39 G	41526487.25	41526487.32	41526487.42	0.0136	0.0125
Venus	108984-03-06 01:54 G	41526713.47	41526713.58	41526713.71	0.0136	0.0111
Venus	108984-10-18 07:54 G	41526939.70	41526939.83	41526940.00	0.0136	0.0097
Venus	108985-06-01 13:54 G	41527165.92	41527166.08	41527166.26	0.0136	0.0083
Venus	108986-01-13 19:25 G	41527392.14	41527392.31	41527392.51	0.0136	0.0069
Venus	108986-08-28 01:25 G	41527618.36	41527618.56	41527618.76	0.0136	0.0054
Earth	108986-12-23 15:06 G	41527735.95	41527736.13	41527736.34	0.0136	0.0083
Moon	108986-12-23 18:42 G	41527736.08	41527736.28	41527736.50	0.0136	0.0078 *
Venus	108987-04-11 06:42 G	41527844.59	41527844.78	41527844.99	0.0136	0.0040
Venus	108987-11-23 12:13 G	41528070.81	41528071.01	41528071.23	0.0136	0.0025
Moon	108987-12-27 21:20 G	41528105.14	41528105.39	41528105.64	0.0136	0.0011
Earth	108987-12-28 00:13 G	41528105.27	41528105.51	41528105.77	0.0136	0.0014 *
Venus	108988-07-06 17:30 G	41528297.02	41528297.23	41528297.45	0.0135	0.0011
Earth	108988-12-31 08:37 G	41528474.71	41528474.86	41528475.01	0.0135	0.0108
Moon	108988-12-31 11:44 G	41528474.85	41528474.99	41528475.17	0.0135	0.0106 *
Venus	108989-02-17 22:47 G	41528523.23	41528523.45	41528523.66	0.0135	0.0003
Venus	108989-10-02 03:49 G	41528749.45	41528749.66	41528749.87	0.0135	0.0018

Venus	108990-05-16 08:37 G	41528975.66	41528975.86	41528976.08	0.0135	0.0032
Venus	108990-12-28 13:25 G	41529201.87	41529202.06	41529202.27	0.0135	0.0046
Venus	108991-08-11 17:59 G	41529428.08	41529428.25	41529428.46	0.0135	0.0060
Venus	108992-03-24 23:01 G	41529654.28	41529654.46	41529654.64	0.0135	0.0073
Venus	108992-11-06 03:35 G	41529880.50	41529880.65	41529880.82	0.0135	0.0087
Venus	108993-06-20 08:23 G	41530106.71	41530106.85	41530106.99	0.0135	0.0100
Venus	108994-02-01 12:56 G	41530332.93	41530333.04	41530333.15	0.0135	0.0113
Venus	108994-09-15 17:01 G	41530559.16	41530559.21	41530559.30	0.0135	0.0127

110TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 110th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	109021-03-15 18:27 G		41540236.24	41540236.27	41540236.33	0.0140	0.0132	
Mercury	109021-06-11 22:03 G		41540324.35	41540324.42	41540324.51	0.0140	0.0112	
Mercury	109021-09-08 01:54 G		41540412.48	41540412.58	41540412.68	0.0140	0.0092	
Mercury	109021-12-05 05:30 G		41540500.61	41540500.73	41540500.84	0.0140	0.0072	
Mercury	109022-03-03 08:51 G		41540588.75	41540588.87	41540589.00	0.0140	0.0052	
Mercury	109022-05-30 12:27 G		41540676.89	41540677.02	41540677.15	0.0140	0.0032	
Mercury	109022-08-26 16:03 G		41540765.03	41540765.17	41540765.30	0.0141	0.0012	
Mercury	109022-11-22 19:25 G		41540853.18	41540853.31	41540853.45	0.0141	0.0009	
Mercury	109023-02-18 23:01 G		41540941.33	41540941.46	41540941.59	0.0141	0.0029	
Mercury	109023-05-18 02:23 G		41541029.48	41541029.60	41541029.73	0.0141	0.0048	

Mercury	109023-08-14 05:44 G	41541117.63	41541117.74	41541117.86	0.0141	0.0069
Mercury	109023-11-10 09:20 G	41541205.79	41541205.89	41541206.00	0.0141	0.0088
Mercury	109024-02-06 12:42 G	41541293.95	41541294.03	41541294.12	0.0141	0.0108
Mercury	109024-05-04 16:03 G	41541382.13	41541382.17	41541382.23	0.0141	0.0128
Venus	109026-12-04 15:49 G	41542326.08	41542326.16	41542326.26	0.0142	0.0128
Venus	109027-07-19 03:20 G	41542552.51	41542552.64	41542552.78	0.0142	0.0112
Venus	109028-03-01 14:51 G	41542778.97	41542779.12	41542779.29	0.0142	0.0096
Venus	109028-10-14 02:23 G	41543005.44	41543005.60	41543005.80	0.0142	0.0080
Venus	109029-05-28 14:23 G	41543231.92	41543232.10	41543232.31	0.0142	0.0063
Moon	109029-06-20 05:15 G	41543254.67	41543254.72	41543254.82	0.0142	0.0137
Earth	109029-06-20 06:42 G	41543254.72	41543254.78	41543254.85	0.0142	0.0137 *
Venus	109030-01-10 02:23 G	41543458.40	41543458.60	41543458.82	0.0142	0.0047
Earth	109030-06-25 05:44 G	41543624.50	41543624.74	41543625.00	0.0142	0.0025
Moon	109030-06-25 07:11 G	41543624.55	41543624.80	41543625.07	0.0142	0.0030 *
Venus	109030-08-24 14:51 G	41543684.90	41543685.12	41543685.34	0.0142	0.0029
Venus	109031-04-08 03:20 G	41543911.42	41543911.64	41543911.86	0.0143	0.0012
Moon	109031-06-30 02:51 G	41543994.45	41543994.62	41543994.81	0.0143	0.0098
Earth	109031-06-30 05:01 G	41543994.53	41543994.71	41543994.93	0.0143	0.0090 *
Venus	109031-11-20 15:35 G	41544137.93	41544138.15	41544138.38	0.0143	0.0007
Venus	109032-07-04 04:03 G	41544364.45	41544364.67	41544364.89	0.0143	0.0024
Venus	109033-02-15 16:32 G	41544590.98	41544591.19	41544591.41	0.0143	0.0041
Venus	109033-09-30 05:15 G	41544817.52	41544817.72	41544817.93	0.0143	0.0058
Venus	109034-05-14 17:59 G	41545044.08	41545044.25	41545044.45	0.0143	0.0076
Venus	109034-12-27 06:42 G	41545270.63	41545270.78	41545270.97	0.0143	0.0094
Venus	109035-08-10 19:39 G	41545497.20	41545497.32	41545497.48	0.0143	0.0110
Venus	109036-03-24 08:51 G	41545723.78	41545723.87	41545723.98	0.0143	0.0127
Venus	109036-11-05 22:03 G	41545950.42	41545950.42	41545950.43	0.0143	0.0143
Mars	109042-11-28 16:03 G	41548163.83	41548164.17	41548164.51	0.0143	0.0015
Mercury	109062-04-02 19:54 G	41555229.22	41555229.33	41555229.43	0.0138	0.0113
Mercury	109062-06-30 02:51 G	41555317.48	41555317.62	41555317.77	0.0138	0.0087

Mercury	109062-09-26 10:03 G	41555405.76	41555405.92	41555406.10	0.0138	0.0061
Mercury	109062-12-23 17:44 G	41555494.05	41555494.24	41555494.42	0.0138	0.0034
Mercury	109063-03-22 00:56 G	41555582.35	41555582.54	41555582.73	0.0138	0.0008
Mercury	109063-06-18 08:23 G	41555670.66	41555670.85	41555671.04	0.0138	0.0019
Mercury	109063-09-14 15:35 G	41555758.98	41555759.15	41555759.34	0.0137	0.0046
Mercury	109063-12-11 23:01 G	41555847.30	41555847.46	41555847.63	0.0137	0.0073
Mercury	109064-03-09 06:27 G	41555935.64	41555935.77	41555935.90	0.0137	0.0099
Mercury	109064-06-05 13:39 G	41556024.01	41556024.07	41556024.16	0.0137	0.0127
Venus	109067-03-24 07:11 G	41557045.75	41557045.80	41557045.89	0.0136	0.0129
Venus	109067-11-05 13:39 G	41557271.96	41557272.07	41557272.19	0.0136	0.0115
Venus	109068-06-18 19:39 G	41557498.18	41557498.32	41557498.47	0.0136	0.0100
Venus	109069-01-31 01:39 G	41557724.41	41557724.57	41557724.74	0.0136	0.0086
Venus	109069-09-14 07:25 G	41557950.63	41557950.81	41557951.00	0.0136	0.0072
Venus	109070-04-28 12:56 G	41558176.86	41558177.04	41558177.25	0.0136	0.0058
Venus	109070-12-10 18:27 G	41558403.08	41558403.27	41558403.48	0.0136	0.0044
Moon	109070-12-25 02:51 G	41558417.42	41558417.62	41558417.84	0.0136	0.0081
Earth	109070-12-25 04:32 G	41558417.49	41558417.69	41558417.90	0.0136	0.0075 *
Venus	109071-07-24 23:59 G	41558629.30	41558629.50	41558629.71	0.0136	0.0029
Earth	109071-12-29 13:11 G	41558786.81	41558787.05	41558787.31	0.0136	0.0021
Moon	109071-12-29 13:54 G	41558786.85	41558787.08	41558787.32	0.0136	0.0028 *
Venus	109072-03-07 05:15 G	41558855.51	41558855.72	41558855.94	0.0135	0.0015
Venus	109072-10-19 10:32 G	41559081.73	41559081.94	41559082.16	0.0135	0.0003
Moon	109073-01-01 20:23 G	41559156.20	41559156.35	41559156.51	0.0135	0.0108
Earth	109073-01-01 21:06 G	41559156.27	41559156.38	41559156.53	0.0135	0.0116 *
Venus	109073-06-02 15:35 G	41559307.94	41559308.15	41559308.37	0.0135	0.0014
Venus	109074-01-14 20:23 G	41559534.15	41559534.35	41559534.57	0.0135	0.0029
Venus	109074-08-29 01:11 G	41559760.36	41559760.55	41559760.76	0.0135	0.0042
Venus	109075-04-12 05:59 G	41559986.56	41559986.75	41559986.95	0.0135	0.0056
Venus	109075-11-24 10:47 G	41560212.78	41560212.95	41560213.14	0.0135	0.0070
Venus	109076-07-07 15:35 G	41560438.99	41560439.15	41560439.32	0.0135	0.0083

Venus	109077-02-18 19:54 G	41560665.20	41560665.33	41560665.49	0.0135	0.0097
Venus	109077-10-03 00:27 G	41560891.41	41560891.52	41560891.65	0.0135	0.0110
Venus	109078-05-17 05:01 G	41561117.64	41561117.71	41561117.81	0.0135	0.0123
Mars	109085-04-04 00:27 G	41563631.27	41563631.52	41563631.79	0.0135	0.0045
Mercury	109105-04-06 01:54 G	41570937.53	41570937.58	41570937.64	0.0140	0.0127
Mercury	109105-07-03 05:44 G	41571025.65	41571025.74	41571025.82	0.0140	0.0107
Mercury	109105-09-29 09:06 G	41571113.78	41571113.88	41571113.99	0.0140	0.0087
Mercury	109105-12-26 12:42 G	41571201.91	41571202.03	41571202.15	0.0140	0.0066
Mercury	109106-03-24 16:18 G	41571290.05	41571290.18	41571290.30	0.0140	0.0046
Mercury	109106-06-20 19:39 G	41571378.19	41571378.32	41571378.46	0.0140	0.0027
Mercury	109106-09-16 23:15 G	41571466.34	41571466.47	41571466.61	0.0141	0.0007
Mercury	109106-12-14 02:51 G	41571554.49	41571554.62	41571554.75	0.0141	0.0014
Mercury	109107-03-12 06:13 G	41571642.63	41571642.76	41571642.89	0.0141	0.0034
Mercury	109107-06-08 09:49 G	41571730.79	41571730.91	41571731.03	0.0141	0.0054
Mercury	109107-09-04 13:11 G	41571818.94	41571819.05	41571819.17	0.0141	0.0074
Mercury	109107-12-01 16:32 G	41571907.10	41571907.19	41571907.30	0.0141	0.0094
Mercury	109108-02-27 20:08 G	41571995.27	41571995.34	41571995.42	0.0141	0.0113
Mercury	109108-05-25 23:30 G	41572083.45	41572083.48	41572083.53	0.0141	0.0133
Venus	109110-08-04 22:32 G	41572884.38	41572884.44	41572884.53	0.0142	0.0133
Venus	109111-03-19 10:03 G	41573110.81	41573110.92	41573111.05	0.0142	0.0117
Venus	109111-10-31 21:35 G	41573337.25	41573337.40	41573337.56	0.0142	0.0101
Venus	109112-06-14 09:06 G	41573563.71	41573563.88	41573564.07	0.0142	0.0085
Venus	109113-01-26 20:51 G	41573790.18	41573790.37	41573790.57	0.0142	0.0068
Earth	109113-06-21 16:47 G	41573936.13	41573936.20	41573936.32	0.0142	0.0132
Moon	109113-06-21 19:11 G	41573936.21	41573936.30	41573936.44	0.0142	0.0126 *
Venus	109113-09-10 08:51 G	41574016.67	41574016.87	41574017.08	0.0142	0.0051
Venus	109114-04-24 21:06 G	41574243.17	41574243.38	41574243.60	0.0142	0.0034
Moon	109114-06-26 14:37 G	41574305.85	41574306.11	41574306.37	0.0142	0.0019
Earth	109114-06-26 16:18 G	41574305.93	41574306.18	41574306.43	0.0142	0.0018 *
Venus	109114-12-07 09:20 G	41574469.67	41574469.89	41574470.11	0.0143	0.0017

Earth	109115-07-01 15:20 G	41574675.97	41574676.14	41574676.35	0.0143	0.0096
Moon	109115-07-01 17:01 G	41574676.04	41574676.21	41574676.41	0.0143	0.0093 *
Venus	109115-07-21 21:35 G	41574696.18	41574696.40	41574696.62	0.0143	0.0001
Venus	109116-03-04 10:03 G	41574922.70	41574922.92	41574923.14	0.0143	0.0018
Venus	109116-10-16 22:32 G	41575149.23	41575149.44	41575149.66	0.0143	0.0035
Venus	109117-05-31 11:01 G	41575375.76	41575375.96	41575376.18	0.0143	0.0053
Venus	109118-01-12 23:44 G	41575602.31	41575602.49	41575602.69	0.0143	0.0070
Venus	109118-08-27 12:27 G	41575828.86	41575829.02	41575829.21	0.0143	0.0087
Venus	109119-04-11 01:25 G	41576055.42	41576055.56	41576055.73	0.0143	0.0105
Venus	109119-11-23 14:23 G	41576282.00	41576282.10	41576282.23	0.0143	0.0122
Venus	109120-07-07 03:49 G	41576508.60	41576508.66	41576508.72	0.0143	0.0138
Mercury	109146-01-25 20:08 G	41585842.30	41585842.34	41585842.41	0.0138	0.0131
Mercury	109146-04-24 03:20 G	41585930.53	41585930.64	41585930.78	0.0138	0.0105
Mercury	109146-07-21 10:47 G	41586018.80	41586018.95	41586019.11	0.0138	0.0078
Mercury	109146-10-17 18:13 G	41586107.09	41586107.26	41586107.44	0.0138	0.0052
Mercury	109147-01-14 01:39 G	41586195.38	41586195.57	41586195.75	0.0138	0.0025
Mercury	109147-04-12 08:51 G	41586283.68	41586283.87	41586284.06	0.0138	0.0002
Mercury	109147-07-09 16:18 G	41586371.99	41586372.18	41586372.37	0.0138	0.0028
Mercury	109147-10-05 23:30 G	41586460.31	41586460.48	41586460.66	0.0137	0.0055
Mercury	109148-01-02 07:11 G	41586548.64	41586548.80	41586548.95	0.0137	0.0082
Mercury	109148-03-30 14:23 G	41586636.99	41586637.10	41586637.22	0.0137	0.0109
Mercury	109148-06-26 21:49 G	41586725.39	41586725.41	41586725.44	0.0137	0.0136
Venus	109150-11-22 18:13 G	41587604.23	41587604.26	41587604.34	0.0137	0.0133
Venus	109151-07-07 00:42 G	41587830.44	41587830.53	41587830.65	0.0136	0.0119
Venus	109152-02-18 06:56 G	41588056.66	41588056.79	41588056.94	0.0136	0.0104
Venus	109152-10-01 12:56 G	41588282.90	41588283.04	41588283.22	0.0136	0.0091
Venus	109153-05-15 18:56 G	41588509.12	41588509.29	41588509.48	0.0136	0.0076
Venus	109153-12-28 00:27 G	41588735.35	41588735.52	41588735.73	0.0136	0.0062
Venus	109154-08-11 06:27 G	41588961.57	41588961.77	41588961.97	0.0136	0.0047
Moon	109154-12-26 14:23 G	41589098.88	41589099.10	41589099.33	0.0136	0.0065

Earth	109154-12-26 17:44 G	41589099.02	41589099.24	41589099.46	0.0136	0.0067	*
Venus	109155-03-25 11:44 G	41589187.79	41589187.99	41589188.20	0.0136	0.0033	
Venus	109155-11-06 17:15 G	41589414.01	41589414.22	41589414.43	0.0136	0.0018	
Earth	109155-12-31 01:54 G	41589468.34	41589468.58	41589468.84	0.0136	0.0029	
Moon	109155-12-31 05:30 G	41589468.49	41589468.73	41589468.98	0.0136	0.0024	*
Venus	109156-06-19 22:18 G	41589640.22	41589640.43	41589640.65	0.0135	0.0005	
Moon	109157-01-03 06:27 G	41589837.72	41589837.77	41589837.87	0.0135	0.0130	
Earth	109157-01-03 10:18 G	41589837.83	41589837.93	41589838.04	0.0135	0.0123	*
Venus	109157-02-01 03:20 G	41589866.43	41589866.64	41589866.86	0.0135	0.0010	
Venus	109157-09-15 08:23 G	41590092.64	41590092.85	41590093.06	0.0135	0.0024	
Venus	109158-04-29 13:11 G	41590318.85	41590319.05	41590319.26	0.0135	0.0038	
Venus	109158-12-11 17:59 G	41590545.06	41590545.25	41590545.45	0.0135	0.0052	
Venus	109159-07-25 22:32 G	41590771.26	41590771.44	41590771.64	0.0135	0.0066	
Venus	109160-03-08 03:20 G	41590997.47	41590997.64	41590997.81	0.0135	0.0080	
Venus	109160-10-20 07:54 G	41591223.69	41591223.83	41591223.99	0.0135	0.0093	
Venus	109161-06-03 12:27 G	41591449.90	41591450.02	41591450.16	0.0135	0.0106	
Venus	109162-01-15 16:47 G	41591676.12	41591676.20	41591676.31	0.0135	0.0120	
Venus	109162-08-29 21:35 G	41591902.36	41591902.40	41591902.44	0.0135	0.0132	
Mars	109169-11-28 03:49 G	41594549.45	41594549.66	41594549.91	0.0135	0.0078	
Mercury	109189-04-26 09:06 G	41601638.82	41601638.88	41601638.94	0.0140	0.0122	
Mercury	109189-07-23 12:42 G	41601726.94	41601727.03	41601727.12	0.0140	0.0102	
Mercury	109189-10-19 16:18 G	41601815.07	41601815.18	41601815.29	0.0140	0.0082	
Mercury	109190-01-15 19:39 G	41601903.21	41601903.32	41601903.45	0.0140	0.0063	
Mercury	109190-04-13 23:15 G	41601991.35	41601991.47	41601991.60	0.0140	0.0042	
Mercury	109190-07-11 02:51 G	41602079.49	41602079.62	41602079.75	0.0140	0.0022	
Mercury	109190-10-07 06:27 G	41602167.63	41602167.77	41602167.90	0.0140	0.0004	
Mercury	109191-01-03 09:49 G	41602255.78	41602255.91	41602256.05	0.0141	0.0018	
Mercury	109191-04-01 13:25 G	41602343.93	41602344.06	41602344.19	0.0141	0.0038	
Mercury	109191-06-28 16:47 G	41602432.08	41602432.20	41602432.33	0.0141	0.0058	
Mercury	109191-09-24 20:23 G	41602520.24	41602520.35	41602520.46	0.0141	0.0078	

Mercury	109191-12-21 23:44 G	41602608.40	41602608.49	41602608.59	0.0141	0.0098
Mercury	109192-03-19 03:20 G	41602696.57	41602696.64	41602696.71	0.0141	0.0117
Mercury	109192-06-15 06:42 G	41602784.76	41602784.78	41602784.81	0.0141	0.0137
Venus	109194-04-04 04:47 G	41603442.66	41603442.70	41603442.76	0.0141	0.0138
Venus	109194-11-16 15:49 G	41603669.06	41603669.16	41603669.28	0.0142	0.0123
Venus	109195-07-01 03:06 G	41603895.50	41603895.63	41603895.79	0.0142	0.0107
Venus	109196-02-12 14:51 G	41604121.95	41604122.12	41604122.29	0.0142	0.0090
Venus	109196-09-26 02:23 G	41604348.42	41604348.60	41604348.80	0.0142	0.0074
Venus	109197-05-10 14:08 G	41604574.90	41604575.09	41604575.30	0.0142	0.0058
Earth	109197-06-22 02:08 G	41604617.47	41604617.59	41604617.70	0.0142	0.0127
Moon	109197-06-22 05:44 G	41604617.66	41604617.74	41604617.82	0.0142	0.0135 *
Venus	109197-12-23 02:08 G	41604801.39	41604801.59	41604801.81	0.0142	0.0041
Moon	109198-06-26 21:20 G	41604987.14	41604987.39	41604987.65	0.0143	0.0007
Earth	109198-06-27 00:56 G	41604987.29	41604987.54	41604987.80	0.0143	0.0015 *
Venus	109198-08-06 14:23 G	41605027.88	41605028.10	41605028.32	0.0143	0.0023
Venus	109199-03-21 02:37 G	41605254.39	41605254.61	41605254.83	0.0143	0.0006
Earth	109199-07-01 23:59 G	41605357.34	41605357.50	41605357.70	0.0143	0.0100
Moon	109199-07-02 03:20 G	41605357.48	41605357.64	41605357.85	0.0143	0.0097 *
Venus	109199-11-02 15:06 G	41605480.91	41605481.13	41605481.35	0.0143	0.0011
Venus	109200-06-16 03:20 G	41605707.43	41605707.64	41605707.86	0.0143	0.0029
Venus	109201-01-28 16:03 G	41605933.96	41605934.17	41605934.38	0.0143	0.0046
Venus	109201-09-12 04:18 G	41606160.50	41606160.68	41606160.90	0.0143	0.0064
Venus	109202-04-26 17:15 G	41606387.05	41606387.22	41606387.42	0.0143	0.0081
Venus	109202-12-09 06:13 G	41606613.61	41606613.76	41606613.93	0.0143	0.0098
Venus	109203-07-23 19:11 G	41606840.18	41606840.30	41606840.44	0.0143	0.0115
Venus	109204-03-06 08:23 G	41607066.77	41607066.85	41607066.94	0.0143	0.0132
Mars	109210-04-15 08:51 G	41609297.81	41609297.87	41609297.98	0.0143	0.0138
Mercury	109230-02-15 03:49 G	41616543.59	41616543.66	41616543.76	0.0138	0.0123
Mercury	109230-05-14 11:15 G	41616631.84	41616631.97	41616632.11	0.0138	0.0096
Mercury	109230-08-10 18:27 G	41616720.12	41616720.27	41616720.44	0.0138	0.0070

Mercury	109230-11-07 01:54 G	41616808.40	41616808.58	41616808.76	0.0138	0.0043
Mercury	109231-02-03 09:20 G	41616896.70	41616896.89	41616897.08	0.0138	0.0017
Mercury	109231-05-02 16:32 G	41616985.01	41616985.19	41616985.38	0.0138	0.0011
Mercury	109231-07-29 23:58 G	41617073.32	41617073.50	41617073.69	0.0138	0.0037
Mercury	109231-10-26 07:25 G	41617161.64	41617161.81	41617161.98	0.0137	0.0064
Mercury	109232-01-22 14:37 G	41617249.98	41617250.11	41617250.26	0.0137	0.0091
Mercury	109232-04-19 22:03 G	41617338.33	41617338.42	41617338.53	0.0137	0.0118
Venus	109234-07-23 05:30 G	41618162.72	41618162.73	41618162.76	0.0137	0.0136
Venus	109235-03-06 11:58 G	41618388.91	41618389.00	41618389.10	0.0137	0.0122
Venus	109235-10-18 17:58 G	41618615.14	41618615.25	41618615.40	0.0136	0.0109
Venus	109236-06-01 00:13 G	41618841.37	41618841.51	41618841.68	0.0136	0.0094
Venus	109237-01-13 06:27 G	41619067.60	41619067.77	41619067.94	0.0136	0.0080
Venus	109237-08-27 12:13 G	41619293.82	41619294.01	41619294.20	0.0136	0.0065
Venus	109238-04-10 17:44 G	41619520.05	41619520.24	41619520.45	0.0136	0.0051
Venus	109238-11-22 23:15 G	41619746.27	41619746.47	41619746.68	0.0136	0.0037
Moon	109238-12-27 05:15 G	41619780.51	41619780.72	41619780.95	0.0136	0.0053
Earth	109238-12-27 06:13 G	41619780.54	41619780.76	41619780.99	0.0136	0.0060 *
Venus	109239-07-07 04:32 G	41619972.49	41619972.69	41619972.91	0.0136	0.0023
Earth	109239-12-31 14:51 G	41620149.88	41620150.12	41620150.36	0.0136	0.0036
Moon	109239-12-31 15:06 G	41620149.89	41620150.13	41620150.40	0.0136	0.0030 *
Venus	109240-02-18 10:03 G	41620198.70	41620198.92	41620199.13	0.0136	0.0008
Venus	109240-10-01 15:20 G	41620424.92	41620425.14	41620425.35	0.0135	0.0007
Moon	109241-01-03 21:49 G	41620519.38	41620519.41	41620519.45	0.0135	0.0134
Earth	109241-01-03 22:32 G	41620519.39	41620519.44	41620519.52	0.0135	0.0131 *
Venus	109241-05-15 20:08 G	41620651.13	41620651.34	41620651.56	0.0135	0.0021
Venus	109241-12-28 00:56 G	41620877.34	41620877.54	41620877.75	0.0135	0.0035
Venus	109242-08-11 05:44 G	41621103.55	41621103.74	41621103.95	0.0135	0.0049
Venus	109243-03-25 10:32 G	41621329.76	41621329.94	41621330.13	0.0135	0.0062
Venus	109243-11-06 15:20 G	41621555.97	41621556.14	41621556.32	0.0135	0.0076
Venus	109244-06-19 20:08 G	41621782.18	41621782.34	41621782.50	0.0135	0.0089

Venus	109245-02-01 00:27 G	41622008.39	41622008.52	41622008.67	0.0135	0.0103
Venus	109245-09-15 05:01 G	41622234.61	41622234.71	41622234.83	0.0135	0.0116
Venus	109246-04-29 09:20 G	41622460.85	41622460.89	41622460.97	0.0135	0.0129
Mars	109252-08-23 14:37 G	41624768.98	41624769.11	41624769.27	0.0135	0.0115
Mercury	109273-02-17 12:56 G	41632252.02	41632252.04	41632252.07	0.0140	0.0136
Mercury	109273-05-16 16:32 G	41632340.12	41632340.19	41632340.27	0.0140	0.0116
Mercury	109273-08-12 20:08 G	41632428.25	41632428.34	41632428.44	0.0140	0.0096
Mercury	109273-11-08 23:44 G	41632516.38	41632516.49	41632516.60	0.0140	0.0076
Mercury	109274-02-05 03:20 G	41632604.52	41632604.64	41632604.76	0.0140	0.0056
Mercury	109274-05-04 06:42 G	41632692.66	41632692.78	41632692.92	0.0140	0.0037
Mercury	109274-07-31 10:18 G	41632780.80	41632780.93	41632781.07	0.0140	0.0016
Mercury	109274-10-27 13:54 G	41632868.95	41632869.08	41632869.21	0.0140	0.0004
Mercury	109275-01-23 17:15 G	41632957.09	41632957.22	41632957.36	0.0140	0.0025
Mercury	109275-04-21 20:51 G	41633045.25	41633045.37	41633045.50	0.0141	0.0044
Mercury	109275-07-19 00:27 G	41633133.40	41633133.52	41633133.64	0.0141	0.0064
Mercury	109275-10-15 03:49 G	41633221.56	41633221.66	41633221.77	0.0141	0.0084
Mercury	109276-01-11 07:10 G	41633309.72	41633309.80	41633309.90	0.0141	0.0104
Mercury	109276-04-08 10:32 G	41633397.89	41633397.94	41633398.02	0.0141	0.0124
Venus	109278-07-16 23:30 G	41634227.39	41634227.48	41634227.58	0.0141	0.0127
Venus	109279-02-28 10:46 G	41634453.82	41634453.95	41634454.09	0.0142	0.0111
Venus	109279-10-12 22:03 G	41634680.26	41634680.42	41634680.59	0.0142	0.0095
Venus	109280-05-26 09:20 G	41634906.72	41634906.89	41634907.09	0.0142	0.0079
Venus	109281-01-07 21:06 G	41635133.19	41635133.38	41635133.59	0.0142	0.0063
Moon	109281-06-22 09:49 G	41635298.81	41635298.91	41635299.05	0.0142	0.0127
Earth	109281-06-22 13:10 G	41635298.92	41635299.05	41635299.19	0.0142	0.0120 *
Venus	109281-08-22 09:06 G	41635359.67	41635359.88	41635360.09	0.0142	0.0045
Venus	109282-04-05 21:06 G	41635586.17	41635586.38	41635586.60	0.0142	0.0029
Earth	109282-06-27 11:58 G	41635668.75	41635669.00	41635669.26	0.0142	0.0008
Moon	109282-06-27 14:51 G	41635668.87	41635669.12	41635669.38	0.0142	0.0006 *
Venus	109282-11-18 09:20 G	41635812.67	41635812.89	41635813.11	0.0143	0.0011

Moon	109283-07-02 09:06 G	41636038.72	41636038.88	41636039.06	0.0143	0.0108
Earth	109283-07-02 11:15 G	41636038.81	41636038.97	41636039.15	0.0143	0.0106 *
Venus	109283-07-02 21:34 G	41636039.17	41636039.40	41636039.62	0.0143	0.0006
Venus	109284-02-14 09:34 G	41636265.69	41636265.90	41636266.13	0.0143	0.0024
Venus	109284-09-27 22:03 G	41636492.22	41636492.42	41636492.64	0.0143	0.0041
Venus	109285-05-12 11:01 G	41636718.76	41636718.96	41636719.16	0.0143	0.0058
Venus	109285-12-24 23:44 G	41636945.30	41636945.49	41636945.68	0.0143	0.0075
Venus	109286-08-08 12:27 G	41637171.86	41637172.02	41637172.19	0.0143	0.0093
Venus	109287-03-23 01:25 G	41637398.42	41637398.56	41637398.71	0.0143	0.0110
Venus	109287-11-04 14:22 G	41637625.01	41637625.10	41637625.21	0.0143	0.0126
Venus	109288-06-18 03:34 G	41637851.65	41637851.65	41637851.67	0.0143	0.0143
Mars	109294-12-11 02:22 G	41640218.29	41640218.60	41640218.94	0.0143	0.0045
Mercury	109314-03-08 11:15 G	41647244.88	41647244.97	41647245.09	0.0138	0.0115
Mercury	109314-06-04 18:27 G	41647333.14	41647333.27	41647333.43	0.0138	0.0089
Mercury	109314-09-01 01:54 G	41647421.42	41647421.58	41647421.76	0.0138	0.0062
Mercury	109314-11-28 09:20 G	41647509.71	41647509.89	41647510.08	0.0138	0.0035
Mercury	109315-02-24 16:46 G	41647598.01	41647598.20	41647598.39	0.0138	0.0009
Mercury	109315-05-23 23:58 G	41647686.32	41647686.50	41647686.70	0.0138	0.0019
Mercury	109315-08-20 07:39 G	41647774.64	41647774.82	41647775.00	0.0138	0.0045
Mercury	109315-11-16 14:51 G	41647862.96	41647863.12	41647863.29	0.0137	0.0072
Mercury	109316-02-12 22:18 G	41647951.30	41647951.43	41647951.57	0.0137	0.0099
Mercury	109316-05-11 05:44 G	41648039.67	41648039.74	41648039.82	0.0137	0.0125
Venus	109318-11-04 22:18 G	41648947.36	41648947.43	41648947.52	0.0137	0.0126
Venus	109319-06-19 04:46 G	41649173.58	41649173.70	41649173.83	0.0136	0.0112
Venus	109320-01-31 11:01 G	41649399.81	41649399.96	41649400.11	0.0136	0.0098
Venus	109320-09-13 17:01 G	41649626.05	41649626.21	41649626.39	0.0136	0.0083
Venus	109321-04-27 22:46 G	41649852.28	41649852.45	41649852.65	0.0136	0.0070
Venus	109321-12-10 04:32 G	41650078.50	41650078.69	41650078.90	0.0136	0.0055
Venus	109322-07-24 10:03 G	41650304.73	41650304.92	41650305.14	0.0136	0.0041
Earth	109322-12-28 17:58 G	41650462.03	41650462.25	41650462.49	0.0136	0.0054

Moon	109322-12-28 21:06 G	41650462.15	41650462.38	41650462.63	0.0136	0.0050	*
Venus	109323-03-07 15:49 G	41650530.95	41650531.16	41650531.37	0.0136	0.0026	
Venus	109323-10-19 21:20 G	41650757.17	41650757.39	41650757.60	0.0136	0.0012	
Moon	109324-01-01 23:44 G	41650831.26	41650831.49	41650831.73	0.0136	0.0041	
Earth	109324-01-02 02:22 G	41650831.37	41650831.60	41650831.85	0.0136	0.0043	*
Venus	109324-06-02 02:22 G	41650983.39	41650983.60	41650983.82	0.0136	0.0003	
Moon	109325-01-05 13:39 G	41651201.05	41651201.07	41651201.14	0.0135	0.0133	
Venus	109325-01-14 07:25 G	41651209.60	41651209.81	41651210.02	0.0135	0.0017	
Venus	109325-08-28 12:27 G	41651435.81	41651436.02	41651436.23	0.0135	0.0031	
Venus	109326-04-11 17:01 G	41651662.02	41651662.21	41651662.43	0.0135	0.0046	
Venus	109326-11-23 22:18 G	41651888.24	41651888.43	41651888.62	0.0135	0.0059	
Venus	109327-07-08 02:51 G	41652114.45	41652114.62	41652114.81	0.0135	0.0073	
Venus	109328-02-19 07:25 G	41652340.66	41652340.81	41652340.99	0.0135	0.0086	
Venus	109328-10-02 12:27 G	41652566.88	41652567.02	41652567.16	0.0135	0.0099	
Venus	109329-05-16 16:32 G	41652793.10	41652793.19	41652793.33	0.0135	0.0113	
Venus	109329-12-28 21:06 G	41653019.33	41653019.38	41653019.48	0.0135	0.0126	
Mars	109337-04-18 18:42 G	41655687.01	41655687.28	41655687.56	0.0135	0.0009	
Mercury	109357-03-10 20:08 G	41662953.31	41662953.34	41662953.40	0.0140	0.0131	
Mercury	109357-06-06 23:44 G	41663041.42	41663041.49	41663041.58	0.0140	0.0111	
Mercury	109357-09-03 03:34 G	41663129.55	41663129.65	41663129.75	0.0140	0.0090	
Mercury	109357-11-30 07:10 G	41663217.68	41663217.80	41663217.92	0.0140	0.0070	
Mercury	109358-02-26 10:46 G	41663305.82	41663305.95	41663306.07	0.0140	0.0050	
Mercury	109358-05-25 14:08 G	41663393.96	41663394.09	41663394.23	0.0140	0.0031	
Mercury	109358-08-21 17:44 G	41663482.11	41663482.24	41663482.38	0.0140	0.0010	
Mercury	109358-11-17 21:20 G	41663570.25	41663570.39	41663570.52	0.0140	0.0010	
Mercury	109359-02-14 00:42 G	41663658.40	41663658.53	41663658.66	0.0140	0.0030	
Mercury	109359-05-13 04:18 G	41663746.56	41663746.68	41663746.80	0.0140	0.0050	
Mercury	109359-08-09 07:39 G	41663834.71	41663834.82	41663834.94	0.0141	0.0070	
Mercury	109359-11-05 11:01 G	41663922.87	41663922.96	41663923.07	0.0141	0.0090	
Mercury	109360-02-01 14:51 G	41664011.03	41664011.12	41664011.20	0.0141	0.0109	

Mercury	109360-04-29 18:13 G	41664099.21	41664099.26	41664099.31	0.0141	0.0129
Venus	109362-03-17 06:13 G	41664785.70	41664785.76	41664785.86	0.0141	0.0132
Venus	109362-10-29 17:30 G	41665012.12	41665012.23	41665012.37	0.0142	0.0116
Venus	109363-06-13 04:46 G	41665238.55	41665238.70	41665238.86	0.0142	0.0100
Venus	109364-01-25 16:03 G	41665465.00	41665465.17	41665465.36	0.0142	0.0084
Venus	109364-09-08 03:49 G	41665691.47	41665691.66	41665691.85	0.0142	0.0067
Venus	109365-04-22 15:34 G	41665917.95	41665918.15	41665918.36	0.0142	0.0051
Earth	109365-06-23 23:15 G	41665980.34	41665980.47	41665980.63	0.0142	0.0116
Moon	109365-06-24 00:13 G	41665980.38	41665980.51	41665980.66	0.0142	0.0116 *
Venus	109365-12-05 03:34 G	41666144.43	41666144.65	41666144.86	0.0142	0.0034
Moon	109366-06-28 22:03 G	41666350.15	41666350.42	41666350.69	0.0142	0.0006
Earth	109366-06-28 22:32 G	41666350.18	41666350.44	41666350.70	0.0142	0.0003 *
Venus	109366-07-19 15:20 G	41666370.92	41666371.14	41666371.36	0.0142	0.0017
Venus	109367-03-03 03:34 G	41666597.43	41666597.65	41666597.87	0.0143	0.0001
Moon	109367-07-03 21:06 G	41666720.26	41666720.38	41666720.53	0.0143	0.0119
Earth	109367-07-03 21:34 G	41666720.26	41666720.40	41666720.58	0.0143	0.0111 *
Venus	109367-10-15 15:49 G	41666823.94	41666824.16	41666824.38	0.0143	0.0018
Venus	109368-05-29 04:18 G	41667050.47	41667050.68	41667050.90	0.0143	0.0036
Venus	109369-01-10 16:46 G	41667277.00	41667277.20	41667277.42	0.0143	0.0053
Venus	109369-08-25 05:30 G	41667503.54	41667503.73	41667503.93	0.0143	0.0070
Venus	109370-04-08 18:27 G	41667730.10	41667730.27	41667730.45	0.0143	0.0087
Venus	109370-11-21 07:25 G	41667956.66	41667956.81	41667956.97	0.0143	0.0104
Venus	109371-07-05 20:22 G	41668183.24	41668183.35	41668183.47	0.0143	0.0121
Venus	109372-02-17 09:06 G	41668409.85	41668409.88	41668409.96	0.0143	0.0138
Mercury	109397-12-30 11:58 G	41677857.95	41677858.00	41677858.05	0.0138	0.0132
Mercury	109398-03-28 19:10 G	41677946.19	41677946.30	41677946.42	0.0138	0.0106
Mercury	109398-06-25 02:22 G	41678034.46	41678034.60	41678034.76	0.0138	0.0080
Mercury	109398-09-21 09:49 G	41678122.74	41678122.91	41678123.09	0.0138	0.0053
Mercury	109398-12-18 17:01 G	41678211.03	41678211.21	41678211.40	0.0138	0.0027
Mercury	109399-03-17 00:27 G	41678299.33	41678299.52	41678299.71	0.0138	0.0002

Mercury	109399-06-13 07:54 G	41678387.64	41678387.83	41678388.02	0.0138	0.0027
Mercury	109399-09-09 15:20 G	41678475.96	41678476.14	41678476.31	0.0138	0.0054
Mercury	109399-12-06 22:32 G	41678564.30	41678564.44	41678564.60	0.0137	0.0081
Mercury	109400-03-05 05:58 G	41678652.64	41678652.75	41678652.88	0.0137	0.0108
Mercury	109400-06-01 13:25 G	41678741.04	41678741.06	41678741.11	0.0137	0.0135
Venus	109402-07-06 08:37 G	41679505.82	41679505.86	41679505.95	0.0137	0.0130
Venus	109403-02-17 15:06 G	41679732.04	41679732.13	41679732.27	0.0137	0.0116
Venus	109403-10-01 21:34 G	41679958.28	41679958.40	41679958.56	0.0136	0.0102
Venus	109404-05-15 03:49 G	41680184.51	41680184.66	41680184.84	0.0136	0.0087
Venus	109404-12-27 10:03 G	41680410.74	41680410.92	41680411.10	0.0136	0.0073
Venus	109405-08-10 15:49 G	41680636.97	41680637.16	41680637.35	0.0136	0.0058
Venus	109406-03-24 21:20 G	41680863.19	41680863.39	41680863.60	0.0136	0.0044
Venus	109406-11-06 02:51 G	41681089.42	41681089.62	41681089.84	0.0136	0.0030
Moon	109406-12-30 02:08 G	41681143.37	41681143.59	41681143.84	0.0136	0.0049
Earth	109406-12-30 06:13 G	41681143.53	41681143.76	41681144.00	0.0136	0.0047 *
Venus	109407-06-20 08:22 G	41681315.64	41681315.85	41681316.07	0.0136	0.0015
Earth	109408-01-03 14:37 G	41681512.88	41681513.11	41681513.35	0.0136	0.0048
Moon	109408-01-03 17:58 G	41681513.03	41681513.25	41681513.49	0.0136	0.0054 *
Venus	109408-02-01 13:39 G	41681541.86	41681542.07	41681542.28	0.0136	0.0001
Venus	109408-09-14 18:42 G	41681768.07	41681768.28	41681768.50	0.0135	0.0014
Venus	109409-04-28 23:44 G	41681994.29	41681994.49	41681994.71	0.0135	0.0028
Venus	109409-12-11 04:46 G	41682220.50	41682220.70	41682220.91	0.0135	0.0042
Venus	109410-07-25 09:34 G	41682446.72	41682446.90	41682447.10	0.0135	0.0056
Venus	109411-03-08 14:22 G	41682672.93	41682673.10	41682673.29	0.0135	0.0069
Venus	109411-10-20 19:10 G	41682899.15	41682899.30	41682899.48	0.0135	0.0083
Venus	109412-06-03 00:13 G	41683125.36	41683125.51	41683125.66	0.0135	0.0096
Venus	109413-01-15 04:32 G	41683351.58	41683351.69	41683351.83	0.0135	0.0110
Venus	109413-08-29 09:06 G	41683577.81	41683577.88	41683577.98	0.0135	0.0123
Mars	109421-12-13 00:27 G	41686605.49	41686605.52	41686605.60	0.0135	0.0132
Mercury	109441-04-01 04:03 G	41693654.62	41693654.67	41693654.74	0.0140	0.0123

Mercury	109441-06-28 07:39 G	41693742.74	41693742.82	41693742.92	0.0140	0.0103
Mercury	109441-09-24 11:15 G	41693830.87	41693830.97	41693831.08	0.0140	0.0083
Jupiter	109441-10-30 01:54 G	41693866.47	41693866.58	41693866.73	0.0140	0.0136
Mercury	109441-12-21 14:51 G	41693919.00	41693919.12	41693919.24	0.0140	0.0063
Mercury	109442-03-19 18:27 G	41694007.14	41694007.27	41694007.40	0.0140	0.0043
Mercury	109442-06-15 22:03 G	41694095.29	41694095.42	41694095.55	0.0140	0.0023
Mercury	109442-09-12 01:39 G	41694183.43	41694183.57	41694183.70	0.0140	0.0005
Mercury	109442-12-09 05:01 G	41694271.58	41694271.71	41694271.85	0.0140	0.0017
Mercury	109443-03-07 08:37 G	41694359.73	41694359.86	41694359.99	0.0140	0.0037
Mercury	109443-06-03 11:58 G	41694447.88	41694448.00	41694448.13	0.0141	0.0057
Mercury	109443-08-30 15:34 G	41694536.04	41694536.15	41694536.26	0.0141	0.0077
Mercury	109443-11-26 18:56 G	41694624.20	41694624.29	41694624.39	0.0141	0.0097
Mercury	109444-02-22 22:18 G	41694712.37	41694712.43	41694712.51	0.0141	0.0117
Mercury	109444-05-21 02:08 G	41694800.56	41694800.59	41694800.62	0.0141	0.0136
Venus	109445-11-15 14:51 G	41695344.08	41695344.12	41695344.20	0.0141	0.0135
Venus	109446-06-30 01:54 G	41695570.48	41695570.58	41695570.71	0.0141	0.0120
Venus	109447-02-11 13:10 G	41695796.91	41695797.05	41695797.20	0.0142	0.0104
Venus	109447-09-26 00:27 G	41696023.35	41696023.52	41696023.70	0.0142	0.0088
Venus	109448-05-09 11:44 G	41696249.82	41696249.99	41696250.20	0.0142	0.0072
Venus	109448-12-21 23:30 G	41696476.28	41696476.48	41696476.69	0.0142	0.0055
Earth	109449-06-25 12:42 G	41696661.87	41696662.03	41696662.20	0.0142	0.0108
Moon	109449-06-25 13:54 G	41696661.92	41696662.08	41696662.28	0.0142	0.0102 *
Venus	109449-08-05 11:15 G	41696702.76	41696702.97	41696703.19	0.0142	0.0038
Venus	109450-03-19 23:15 G	41696929.26	41696929.47	41696929.70	0.0142	0.0022
Moon	109450-06-30 09:34 G	41697031.65	41697031.90	41697032.15	0.0142	0.0003
Earth	109450-06-30 11:44 G	41697031.73	41697031.99	41697032.24	0.0142	0.0005 *
Venus	109450-11-01 11:30 G	41697155.76	41697155.98	41697156.20	0.0142	0.0004
Venus	109451-06-15 23:44 G	41697382.27	41697382.49	41697382.71	0.0143	0.0014
Earth	109451-07-05 10:46 G	41697401.82	41697401.95	41697402.10	0.0143	0.0119
Moon	109451-07-05 13:25 G	41697401.96	41697402.06	41697402.20	0.0143	0.0126 *

Venus	109452-01-28 11:58 G	41697608.79	41697609.00	41697609.22	0.0143	0.0031
Venus	109452-09-11 00:27 G	41697835.32	41697835.52	41697835.74	0.0143	0.0049
Venus	109453-04-25 13:10 G	41698061.87	41698062.05	41698062.26	0.0143	0.0066
Venus	109453-12-08 02:08 G	41698288.42	41698288.59	41698288.78	0.0143	0.0083
Venus	109454-07-22 14:51 G	41698514.98	41698515.12	41698515.29	0.0143	0.0100
Venus	109455-03-06 03:49 G	41698741.55	41698741.66	41698741.80	0.0143	0.0117
Venus	109455-10-18 17:01 G	41698968.14	41698968.21	41698968.30	0.0143	0.0134
Mars	109462-04-29 05:15 G	41701352.43	41701352.72	41701353.02	0.0143	0.0072
Mercury	109482-01-20 19:39 G	41708559.26	41708559.32	41708559.42	0.0138	0.0123
Mercury	109482-04-19 03:20 G	41708647.51	41708647.64	41708647.77	0.0138	0.0096
Mercury	109482-07-16 10:32 G	41708735.78	41708735.94	41708736.10	0.0138	0.0070
Mercury	109482-10-12 17:44 G	41708824.07	41708824.24	41708824.43	0.0138	0.0044
Mercury	109483-01-09 01:10 G	41708912.36	41708912.55	41708912.74	0.0138	0.0017
Mercury	109483-04-07 08:37 G	41709000.67	41709000.86	41709001.05	0.0138	0.0010
Mercury	109483-07-04 15:49 G	41709088.98	41709089.16	41709089.35	0.0138	0.0037
Mercury	109483-09-30 23:15 G	41709177.31	41709177.47	41709177.64	0.0138	0.0064
Mercury	109483-12-28 06:27 G	41709265.64	41709265.77	41709265.93	0.0137	0.0091
Mercury	109484-03-25 13:54 G	41709354.00	41709354.08	41709354.19	0.0137	0.0118
Venus	109486-03-05 19:39 G	41710064.29	41710064.32	41710064.39	0.0137	0.0133
Venus	109486-10-18 02:37 G	41710290.51	41710290.61	41710290.72	0.0137	0.0119
Venus	109487-06-01 08:51 G	41710516.75	41710516.87	41710517.02	0.0137	0.0105
Venus	109488-01-13 15:06 G	41710742.98	41710743.13	41710743.30	0.0136	0.0091
Venus	109488-08-26 21:06 G	41710969.21	41710969.38	41710969.57	0.0136	0.0076
Venus	109489-04-10 02:51 G	41711195.44	41711195.62	41711195.82	0.0136	0.0062
Venus	109489-11-22 08:51 G	41711421.67	41711421.87	41711422.07	0.0136	0.0047
Moon	109489-12-26 06:42 G	41711455.75	41711455.78	41711455.87	0.0136	0.0132
Venus	109490-07-06 14:22 G	41711647.89	41711648.10	41711648.31	0.0136	0.0033
Earth	109490-12-30 18:56 G	41711825.05	41711825.29	41711825.53	0.0136	0.0040
Moon	109490-12-30 21:34 G	41711825.17	41711825.40	41711825.64	0.0136	0.0046 *
Venus	109491-02-17 19:54 G	41711874.12	41711874.33	41711874.54	0.0136	0.0019

Venus	109491-10-02 01:10 G	41712100.34	41712100.55	41712100.77	0.0136	0.0006
Moon	109492-01-04 00:42 G	41712194.32	41712194.53	41712194.78	0.0136	0.0063
Earth	109492-01-04 03:34 G	41712194.42	41712194.65	41712194.88	0.0136	0.0055 *
Venus	109492-05-15 06:27 G	41712326.56	41712326.77	41712326.99	0.0136	0.0010
Venus	109492-12-27 11:30 G	41712552.77	41712552.98	41712553.20	0.0135	0.0024
Venus	109493-08-10 16:32 G	41712778.99	41712779.19	41712779.40	0.0135	0.0038
Venus	109494-03-24 21:20 G	41713005.20	41713005.39	41713005.60	0.0135	0.0052
Venus	109494-11-06 02:22 G	41713231.42	41713231.60	41713231.80	0.0135	0.0066
Venus	109495-06-20 07:10 G	41713457.64	41713457.80	41713457.98	0.0135	0.0080
Venus	109496-02-01 11:58 G	41713683.86	41713684.00	41713684.16	0.0135	0.0093
Venus	109496-09-14 16:46 G	41713910.07	41713910.20	41713910.33	0.0135	0.0106
Venus	109497-04-28 21:06 G	41714136.30	41714136.38	41714136.50	0.0135	0.0120
Venus	109497-12-11 01:39 G	41714362.56	41714362.57	41714362.63	0.0135	0.0133
Mars	109504-09-08 10:18 G	41716824.70	41716824.93	41716825.19	0.0135	0.0064
Mercury	109525-01-24 08:08 G	41724267.82	41724267.84	41724267.86	0.0140	0.0137
Mercury	109525-04-22 11:44 G	41724355.92	41724355.99	41724356.06	0.0140	0.0117
Mercury	109525-07-19 15:06 G	41724444.04	41724444.13	41724444.24	0.0140	0.0097
Mercury	109525-10-15 18:42 G	41724532.18	41724532.28	41724532.40	0.0140	0.0077
Mercury	109526-01-11 22:18 G	41724620.31	41724620.43	41724620.56	0.0140	0.0057
Mercury	109526-04-10 01:54 G	41724708.45	41724708.58	41724708.71	0.0140	0.0037
Mercury	109526-07-07 05:30 G	41724796.60	41724796.73	41724796.86	0.0140	0.0017
Mercury	109526-10-03 09:06 G	41724884.74	41724884.88	41724885.01	0.0140	0.0004
Mercury	109526-12-30 12:27 G	41724972.89	41724973.02	41724973.16	0.0140	0.0023
Mercury	109527-03-28 16:03 G	41725061.04	41725061.17	41725061.30	0.0141	0.0043
Mercury	109527-06-24 19:39 G	41725149.20	41725149.32	41725149.44	0.0141	0.0063
Mercury	109527-09-20 23:01 G	41725237.35	41725237.46	41725237.57	0.0141	0.0083
Mercury	109527-12-18 02:22 G	41725325.52	41725325.60	41725325.70	0.0141	0.0103
Mercury	109528-03-15 05:58 G	41725413.69	41725413.75	41725413.81	0.0141	0.0122
Venus	109529-07-16 22:18 G	41725902.41	41725902.43	41725902.48	0.0141	0.0140
Venus	109530-02-28 09:06 G	41726128.80	41726128.88	41726129.00	0.0141	0.0125

Venus	109530-10-12 20:22 G	41726355.22	41726355.35	41726355.50	0.0142	0.0109
Venus	109531-05-27 07:25 G	41726581.66	41726581.81	41726581.99	0.0142	0.0093
Venus	109532-01-08 18:56 G	41726808.11	41726808.29	41726808.48	0.0142	0.0076
Venus	109532-08-22 06:13 G	41727034.57	41727034.76	41727034.97	0.0142	0.0060
Venus	109533-04-05 18:13 G	41727261.05	41727261.26	41727261.48	0.0142	0.0043
Moon	109533-06-26 20:37 G	41727343.18	41727343.36	41727343.56	0.0142	0.0094
Earth	109533-06-26 23:15 G	41727343.31	41727343.47	41727343.67	0.0142	0.0103 *
Venus	109533-11-18 06:13 G	41727487.54	41727487.76	41727487.98	0.0142	0.0026
Earth	109534-07-01 22:32 G	41727713.19	41727713.44	41727713.70	0.0142	0.0012
Moon	109534-07-02 02:08 G	41727713.33	41727713.59	41727713.85	0.0142	0.0005 *
Venus	109534-07-02 18:13 G	41727714.04	41727714.26	41727714.48	0.0142	0.0009
Venus	109535-02-14 06:27 G	41727940.54	41727940.77	41727940.99	0.0143	0.0009
Moon	109535-07-06 18:13 G	41728083.18	41728083.26	41728083.39	0.0143	0.0130
Earth	109535-07-06 22:03 G	41728083.31	41728083.42	41728083.56	0.0143	0.0125 *
Venus	109535-09-28 18:42 G	41728167.06	41728167.28	41728167.50	0.0143	0.0026
Venus	109536-05-12 07:25 G	41728393.60	41728393.81	41728394.02	0.0143	0.0043
Venus	109536-12-24 19:54 G	41728620.13	41728620.33	41728620.54	0.0143	0.0061
Venus	109537-08-08 08:37 G	41728846.68	41728846.86	41728847.05	0.0143	0.0078
Venus	109538-03-22 21:34 G	41729073.24	41729073.40	41729073.57	0.0143	0.0095
Venus	109538-11-04 10:18 G	41729299.81	41729299.93	41729300.08	0.0143	0.0113
Venus	109539-06-18 23:30 G	41729526.40	41729526.48	41729526.59	0.0143	0.0129
Mars	109546-12-26 00:42 G	41732273.33	41732273.53	41732273.76	0.0143	0.0113
Mercury	109565-11-14 21:20 G	41739172.39	41739172.39	41739172.39	0.0138	0.0138
Mercury	109566-02-11 04:18 G	41739260.58	41739260.68	41739260.80	0.0138	0.0112
Mercury	109566-05-10 11:44 G	41739348.85	41739348.99	41739349.14	0.0138	0.0085
Mercury	109566-08-06 18:56 G	41739437.13	41739437.29	41739437.47	0.0138	0.0059
Jupiter	109566-10-23 08:51 G	41739514.36	41739514.87	41739515.40	0.0138	0.0012
Mercury	109566-11-03 02:08 G	41739525.42	41739525.59	41739525.78	0.0138	0.0033
Mercury	109567-01-30 09:34 G	41739613.72	41739613.90	41739614.09	0.0138	0.0007
Mercury	109567-04-28 17:01 G	41739702.02	41739702.21	41739702.40	0.0138	0.0021

Mercury	109567-07-26 00:27 G	41739790.34	41739790.52	41739790.70	0.0138	0.0048
Mercury	109567-10-22 07:39 G	41739878.67	41739878.82	41739878.99	0.0138	0.0075
Mercury	109568-01-18 15:06 G	41739967.01	41739967.13	41739967.26	0.0137	0.0101
Mercury	109568-04-15 22:18 G	41740055.38	41740055.43	41740055.51	0.0137	0.0129
Venus	109569-11-04 07:39 G	41740622.81	41740622.82	41740622.85	0.0137	0.0136
Venus	109570-06-18 14:22 G	41740849.01	41740849.10	41740849.20	0.0137	0.0122
Venus	109571-01-30 20:51 G	41741075.24	41741075.37	41741075.50	0.0137	0.0108
Venus	109571-09-14 03:06 G	41741301.48	41741301.63	41741301.79	0.0137	0.0094
Venus	109572-04-27 09:06 G	41741527.71	41741527.88	41741528.06	0.0136	0.0080
Venus	109572-12-09 14:51 G	41741753.94	41741754.12	41741754.32	0.0136	0.0066
Venus	109573-07-23 20:37 G	41741980.17	41741980.36	41741980.57	0.0136	0.0051
Earth	109573-12-27 23:30 G	41742137.41	41742137.48	41742137.57	0.0136	0.0128
Moon	109573-12-28 00:27 G	41742137.41	41742137.52	41742137.63	0.0136	0.0121 *
Venus	109574-03-07 02:22 G	41742206.40	41742206.60	41742206.81	0.0136	0.0037
Venus	109574-10-19 08:08 G	41742432.63	41742432.84	41742433.05	0.0136	0.0022
Moon	109575-01-01 07:25 G	41742506.57	41742506.81	41742507.07	0.0136	0.0039
Earth	109575-01-01 08:37 G	41742506.61	41742506.86	41742507.10	0.0136	0.0032 *
Venus	109575-06-02 13:25 G	41742658.85	41742659.06	41742659.28	0.0136	0.0008
Earth	109576-01-05 17:15 G	41742876.00	41742876.22	41742876.44	0.0136	0.0063
Moon	109576-01-05 17:30 G	41742876.02	41742876.23	41742876.44	0.0136	0.0069 *
Venus	109576-01-14 18:42 G	41742885.07	41742885.28	41742885.50	0.0136	0.0007
Venus	109576-08-27 23:58 G	41743111.28	41743111.50	41743111.71	0.0135	0.0021
Venus	109577-04-11 04:46 G	41743337.50	41743337.70	41743337.92	0.0135	0.0035
Venus	109577-11-23 09:49 G	41743563.72	41743563.91	41743564.12	0.0135	0.0050
Venus	109578-07-07 14:51 G	41743789.94	41743790.12	41743790.32	0.0135	0.0063
Venus	109579-02-18 19:54 G	41744016.15	41744016.33	41744016.50	0.0135	0.0077
Venus	109579-10-03 00:27 G	41744242.37	41744242.52	41744242.69	0.0135	0.0090
Venus	109580-05-16 05:01 G	41744468.59	41744468.71	41744468.86	0.0135	0.0104
Venus	109580-12-28 09:49 G	41744694.82	41744694.91	41744695.03	0.0135	0.0117
Venus	109581-08-11 14:22 G	41744921.06	41744921.10	41744921.17	0.0135	0.0130

Mars	109589-05-03 16:32 G	41747742.95	41747743.19	41747743.44	0.0135	0.0060
Mercury	109609-02-13 15:49 G	41754969.11	41754969.16	41754969.21	0.0140	0.0130
Mercury	109609-05-12 19:10 G	41755057.23	41755057.30	41755057.39	0.0140	0.0110
Mercury	109609-08-08 22:46 G	41755145.36	41755145.45	41755145.56	0.0140	0.0090
Mercury	109609-11-05 02:22 G	41755233.49	41755233.60	41755233.72	0.0140	0.0070
Mercury	109610-02-01 05:58 G	41755321.63	41755321.75	41755321.88	0.0140	0.0050
Mercury	109610-04-30 09:34 G	41755409.77	41755409.90	41755410.03	0.0140	0.0030
Mercury	109610-07-27 13:10 G	41755497.92	41755498.05	41755498.19	0.0140	0.0010
Mercury	109610-10-23 16:46 G	41755586.06	41755586.20	41755586.33	0.0140	0.0010
Mercury	109611-01-19 20:08 G	41755674.21	41755674.34	41755674.47	0.0140	0.0030
Mercury	109611-04-17 23:44 G	41755762.36	41755762.49	41755762.61	0.0141	0.0050
Mercury	109611-07-15 03:06 G	41755850.52	41755850.63	41755850.75	0.0141	0.0070
Mercury	109611-10-11 06:27 G	41755938.68	41755938.77	41755938.88	0.0141	0.0090
Mercury	109612-01-07 10:18 G	41756026.84	41756026.93	41756027.01	0.0141	0.0109
Mercury	109612-04-04 13:25 G	41756115.02	41756115.06	41756115.12	0.0141	0.0129
Venus	109613-10-28 17:30 G	41756687.15	41756687.23	41756687.33	0.0141	0.0129
Venus	109614-06-12 04:32 G	41756913.56	41756913.69	41756913.83	0.0142	0.0113
Venus	109615-01-24 15:34 G	41757139.99	41757140.15	41757140.31	0.0142	0.0097
Venus	109615-09-08 02:37 G	41757366.44	41757366.61	41757366.80	0.0142	0.0081
Venus	109616-04-21 14:08 G	41757592.90	41757593.09	41757593.30	0.0142	0.0065
Venus	109616-12-04 01:54 G	41757819.38	41757819.58	41757819.79	0.0142	0.0048
Earth	109617-06-27 11:58 G	41758024.82	41758025.00	41758025.20	0.0142	0.0095
Moon	109617-06-27 15:20 G	41758024.96	41758025.14	41758025.36	0.0142	0.0088 *
Venus	109617-07-18 13:39 G	41758045.86	41758046.07	41758046.29	0.0142	0.0031
Venus	109618-03-02 01:39 G	41758272.35	41758272.57	41758272.79	0.0142	0.0014
Moon	109618-07-02 07:39 G	41758394.57	41758394.82	41758395.08	0.0142	0.0016
Earth	109618-07-02 11:15 G	41758394.72	41758394.97	41758395.23	0.0142	0.0019 *
Venus	109618-10-14 13:54 G	41758498.86	41758499.08	41758499.30	0.0143	0.0004
Venus	109619-05-29 02:22 G	41758725.38	41758725.60	41758725.82	0.0143	0.0021
Earth	109619-07-07 10:32 G	41758764.86	41758764.94	41758765.05	0.0143	0.0133

Moon	109619-07-07 14:08 G	41758765.01	41758765.09	41758765.20	0.0143	0.0132	*
Venus	109620-01-10 14:37 G	41758951.90	41758952.11	41758952.33	0.0143	0.0039	
Venus	109620-08-24 03:06 G	41759178.44	41759178.63	41759178.84	0.0143	0.0056	
Venus	109621-04-07 16:03 G	41759404.98	41759405.17	41759405.37	0.0143	0.0073	
Venus	109621-11-20 05:01 G	41759631.54	41759631.71	41759631.88	0.0143	0.0090	
Venus	109622-07-04 17:58 G	41759858.11	41759858.25	41759858.40	0.0143	0.0107	
Venus	109623-02-16 06:42 G	41760084.68	41760084.78	41760084.90	0.0143	0.0124	
Venus	109623-09-30 19:39 G	41760311.30	41760311.32	41760311.38	0.0143	0.0141	
Mercury	109649-12-05 05:30 G	41769873.67	41769873.73	41769873.82	0.0138	0.0127	
Mercury	109650-03-03 12:42 G	41769961.92	41769962.03	41769962.17	0.0138	0.0101	
Mercury	109650-05-30 20:22 G	41770050.19	41770050.35	41770050.51	0.0138	0.0074	
Mercury	109650-08-27 03:34 G	41770138.48	41770138.65	41770138.83	0.0138	0.0048	
Mercury	109650-11-23 11:01 G	41770226.77	41770226.96	41770227.14	0.0138	0.0021	
Mercury	109651-02-19 18:13 G	41770315.07	41770315.26	41770315.45	0.0138	0.0006	
Mercury	109651-05-19 01:25 G	41770403.38	41770403.56	41770403.75	0.0138	0.0033	
Mercury	109651-08-15 09:06 G	41770491.71	41770491.88	41770492.05	0.0138	0.0059	
Mercury	109651-11-11 16:18 G	41770580.04	41770580.18	41770580.33	0.0138	0.0086	
Mercury	109652-02-07 23:44 G	41770668.39	41770668.49	41770668.60	0.0137	0.0113	
Venus	109654-02-16 01:54 G	41771407.51	41771407.58	41771407.68	0.0137	0.0126	
Venus	109654-09-30 08:37 G	41771633.75	41771633.86	41771634.00	0.0137	0.0112	
Venus	109655-05-14 14:51 G	41771859.99	41771860.12	41771860.28	0.0137	0.0098	
Venus	109655-12-26 20:51 G	41772086.22	41772086.37	41772086.56	0.0136	0.0084	
Venus	109656-08-09 02:51 G	41772312.45	41772312.62	41772312.82	0.0136	0.0069	
Venus	109657-03-23 09:06 G	41772538.68	41772538.88	41772539.08	0.0136	0.0055	
Venus	109657-11-04 14:51 G	41772764.92	41772765.12	41772765.33	0.0136	0.0040	
Earth	109657-12-28 13:10 G	41772818.96	41772819.05	41772819.19	0.0136	0.0120	
Moon	109657-12-28 14:51 G	41772818.98	41772819.12	41772819.27	0.0136	0.0112	*
Venus	109658-06-18 20:22 G	41772991.14	41772991.35	41772991.56	0.0136	0.0026	
Moon	109659-01-01 21:20 G	41773188.16	41773188.39	41773188.64	0.0136	0.0028	
Earth	109659-01-01 22:46 G	41773188.20	41773188.45	41773188.70	0.0136	0.0024	*

Venus	109659-01-31 01:54 G	41773217.37	41773217.58	41773217.79	0.0136	0.0011
Venus	109659-09-14 07:10 G	41773443.59	41773443.80	41773444.02	0.0136	0.0004
Earth	109660-01-06 07:25 G	41773557.60	41773557.81	41773558.02	0.0136	0.0072
Moon	109660-01-06 09:06 G	41773557.67	41773557.88	41773558.10	0.0136	0.0073 *
Venus	109660-04-27 12:27 G	41773669.81	41773670.02	41773670.23	0.0135	0.0017
Venus	109660-12-09 17:44 G	41773896.03	41773896.24	41773896.45	0.0135	0.0032
Venus	109661-07-23 22:46 G	41774122.25	41774122.45	41774122.65	0.0135	0.0046
Venus	109662-03-07 03:49 G	41774348.46	41774348.66	41774348.85	0.0135	0.0060
Venus	109662-10-19 08:37 G	41774574.69	41774574.86	41774575.04	0.0135	0.0073
Venus	109663-06-02 13:25 G	41774800.91	41774801.06	41774801.23	0.0135	0.0087
Venus	109664-01-14 18:13 G	41775027.12	41775027.26	41775027.40	0.0135	0.0100
Venus	109664-08-27 22:32 G	41775253.35	41775253.44	41775253.57	0.0135	0.0114
Venus	109665-04-11 03:06 G	41775479.58	41775479.63	41775479.72	0.0135	0.0127
Mars	109672-01-28 03:20 G	41777962.63	41777962.64	41777962.70	0.0135	0.0134
Mercury	109693-03-05 23:01 G	41785670.41	41785670.46	41785670.53	0.0140	0.0125
Mercury	109693-06-02 02:37 G	41785758.53	41785758.61	41785758.70	0.0140	0.0105
Mercury	109693-08-29 06:13 G	41785846.66	41785846.76	41785846.87	0.0140	0.0085
Mercury	109693-11-25 09:49 G	41785934.79	41785934.91	41785935.03	0.0140	0.0065
Mercury	109694-02-21 13:25 G	41786022.93	41786023.06	41786023.19	0.0140	0.0045
Mercury	109694-05-20 17:01 G	41786111.08	41786111.21	41786111.34	0.0140	0.0025
Mercury	109694-08-16 20:37 G	41786199.22	41786199.36	41786199.49	0.0140	0.0007
Mercury	109694-11-12 23:58 G	41786287.37	41786287.50	41786287.64	0.0140	0.0015
Mercury	109695-02-09 03:34 G	41786375.52	41786375.65	41786375.78	0.0140	0.0035
Mercury	109695-05-08 06:56 G	41786463.67	41786463.79	41786463.92	0.0141	0.0055
Mercury	109695-08-04 10:32 G	41786551.83	41786551.94	41786552.05	0.0141	0.0075
Mercury	109695-10-31 13:54 G	41786639.99	41786640.08	41786640.18	0.0141	0.0094
Mercury	109696-01-27 17:30 G	41786728.15	41786728.23	41786728.31	0.0141	0.0114
Mercury	109696-04-24 20:51 G	41786816.34	41786816.37	41786816.41	0.0141	0.0134
Venus	109697-06-28 00:13 G	41787245.46	41787245.51	41787245.60	0.0141	0.0134
Venus	109698-02-09 10:46 G	41787471.85	41787471.95	41787472.09	0.0141	0.0119

Venus	109698-09-23 21:49 G	41787698.28	41787698.41	41787698.58	0.0142	0.0103
Venus	109699-05-08 09:06 G	41787924.72	41787924.88	41787925.07	0.0142	0.0087
Venus	109699-12-20 20:37 G	41788151.17	41788151.36	41788151.55	0.0142	0.0070
Venus	109700-08-04 08:08 G	41788377.63	41788377.84	41788378.04	0.0142	0.0053
Venus	109701-03-18 19:54 G	41788604.12	41788604.33	41788604.54	0.0142	0.0037
Moon	109701-06-28 18:42 G	41788706.09	41788706.28	41788706.51	0.0142	0.0087
Earth	109701-06-28 21:49 G	41788706.22	41788706.41	41788706.62	0.0142	0.0089 *
Venus	109701-10-31 07:39 G	41788830.61	41788830.82	41788831.04	0.0142	0.0020
Venus	109702-06-14 19:54 G	41789057.11	41789057.33	41789057.55	0.0142	0.0003
Earth	109702-07-03 21:06 G	41789076.13	41789076.38	41789076.64	0.0142	0.0024
Moon	109702-07-03 23:30 G	41789076.24	41789076.48	41789076.73	0.0142	0.0027 *
Venus	109703-01-27 07:54 G	41789283.61	41789283.83	41789284.06	0.0143	0.0015
Moon	109703-07-08 17:58 G	41789446.18	41789446.25	41789446.36	0.0143	0.0133
Earth	109703-07-08 20:37 G	41789446.31	41789446.36	41789446.44	0.0143	0.0138 *
Venus	109703-09-10 20:08 G	41789510.13	41789510.34	41789510.57	0.0143	0.0033
Venus	109704-04-24 08:51 G	41789736.67	41789736.87	41789737.09	0.0143	0.0050
Venus	109704-12-06 21:34 G	41789963.21	41789963.40	41789963.60	0.0143	0.0067
Venus	109705-07-21 10:03 G	41790189.76	41790189.92	41790190.11	0.0143	0.0085
Venus	109706-03-04 23:15 G	41790416.32	41790416.47	41790416.63	0.0143	0.0102
Venus	109706-10-17 11:58 G	41790642.89	41790643.00	41790643.13	0.0143	0.0119
Venus	109707-06-01 00:56 G	41790869.49	41790869.54	41790869.63	0.0143	0.0136
Mars	109714-05-13 00:42 G	41793407.19	41793407.53	41793407.87	0.0143	0.0008
Mercury	109733-12-26 13:39 G	41800574.99	41800575.07	41800575.18	0.0138	0.0118
Mercury	109734-03-24 20:51 G	41800663.25	41800663.37	41800663.53	0.0138	0.0092
Mercury	109734-06-21 04:32 G	41800751.52	41800751.69	41800751.86	0.0138	0.0064
Mercury	109734-09-17 11:44 G	41800839.81	41800839.99	41800840.18	0.0138	0.0038
Mercury	109734-12-14 19:10 G	41800928.11	41800928.30	41800928.49	0.0138	0.0011
Mercury	109735-03-13 02:22 G	41801016.42	41801016.60	41801016.79	0.0138	0.0016
Mercury	109735-06-09 09:34 G	41801104.73	41801104.90	41801105.09	0.0138	0.0043
Mercury	109735-09-05 17:15 G	41801193.06	41801193.22	41801193.38	0.0138	0.0069

Mercury	109735-12-03 00:42 G	41801281.39	41801281.53	41801281.66	0.0138	0.0096
Mercury	109736-02-29 07:54 G	41801369.75	41801369.83	41801369.92	0.0138	0.0123
Venus	109737-10-17 13:39 G	41801966.01	41801966.07	41801966.15	0.0137	0.0129
Venus	109738-05-31 20:22 G	41802192.24	41802192.35	41802192.47	0.0137	0.0115
Venus	109739-01-13 02:51 G	41802418.48	41802418.62	41802418.76	0.0137	0.0101
Venus	109739-08-27 09:06 G	41802644.71	41802644.88	41802645.04	0.0137	0.0087
Venus	109740-04-09 15:06 G	41802870.95	41802871.13	41802871.32	0.0136	0.0073
Venus	109740-11-21 20:51 G	41803097.19	41803097.37	41803097.58	0.0136	0.0059
Venus	109741-07-06 02:51 G	41803323.42	41803323.62	41803323.83	0.0136	0.0044
Moon	109741-12-30 00:56 G	41803500.40	41803500.54	41803500.70	0.0136	0.0107
Earth	109741-12-30 03:34 G	41803500.52	41803500.65	41803500.81	0.0136	0.0111 *
Venus	109742-02-17 08:37 G	41803549.65	41803549.86	41803550.07	0.0136	0.0029
Venus	109742-10-01 14:22 G	41803775.88	41803776.10	41803776.31	0.0136	0.0015
Earth	109743-01-03 12:56 G	41803869.79	41803870.04	41803870.29	0.0136	0.0015
Moon	109743-01-03 16:03 G	41803869.91	41803870.17	41803870.42	0.0136	0.0013 *
Venus	109743-05-15 19:39 G	41804002.11	41804002.32	41804002.54	0.0136	0.0003
Venus	109743-12-28 00:56 G	41804228.33	41804228.54	41804228.76	0.0136	0.0014
Moon	109744-01-07 18:27 G	41804239.07	41804239.27	41804239.48	0.0136	0.0078
Earth	109744-01-07 21:49 G	41804239.21	41804239.41	41804239.61	0.0136	0.0081 *
Venus	109744-08-10 06:13 G	41804454.55	41804454.76	41804454.97	0.0135	0.0028
Venus	109745-03-24 11:15 G	41804680.77	41804680.97	41804681.18	0.0135	0.0042
Venus	109745-11-05 16:32 G	41804907.00	41804907.19	41804907.39	0.0135	0.0056
Venus	109746-06-19 21:20 G	41805133.22	41805133.39	41805133.58	0.0135	0.0070
Venus	109747-02-01 02:08 G	41805359.44	41805359.59	41805359.77	0.0135	0.0084
Venus	109747-09-15 06:56 G	41805585.65	41805585.79	41805585.95	0.0135	0.0097
Venus	109748-04-28 11:44 G	41805811.88	41805811.99	41805812.12	0.0135	0.0110
Venus	109748-12-10 16:32 G	41806038.11	41806038.19	41806038.28	0.0135	0.0123
Mars	109756-09-22 10:32 G	41808880.66	41808880.94	41808881.22	0.0135	0.0007
Mercury	109776-12-29 03:06 G	41816283.62	41816283.63	41816283.66	0.0140	0.0138
Mercury	109777-03-27 06:42 G	41816371.72	41816371.78	41816371.86	0.0140	0.0118

Mercury	109777-06-23 10:18 G	41816459.84	41816459.93	41816460.03	0.0140	0.0098
Mercury	109777-09-19 13:54 G	41816547.97	41816548.08	41816548.19	0.0140	0.0078
Mercury	109777-12-16 17:30 G	41816636.11	41816636.23	41816636.35	0.0140	0.0058
Mercury	109778-03-14 21:06 G	41816724.25	41816724.38	41816724.51	0.0140	0.0038
Mercury	109778-06-11 00:42 G	41816812.39	41816812.53	41816812.66	0.0140	0.0019
Mercury	109778-09-07 04:03 G	41816900.54	41816900.67	41816900.81	0.0140	0.0003
Mercury	109778-12-04 07:39 G	41816988.69	41816988.82	41816988.95	0.0140	0.0022
Mercury	109779-03-02 11:01 G	41817076.84	41817076.96	41817077.09	0.0140	0.0042
Mercury	109779-05-29 14:37 G	41817164.99	41817165.11	41817165.23	0.0140	0.0061
Mercury	109779-08-25 17:58 G	41817253.15	41817253.25	41817253.36	0.0141	0.0081
Mercury	109779-11-21 21:34 G	41817341.31	41817341.40	41817341.49	0.0141	0.0101
Mercury	109780-02-18 00:56 G	41817429.48	41817429.54	41817429.61	0.0141	0.0120
Mercury	109780-05-16 04:32 G	41817517.68	41817517.69	41817517.70	0.0141	0.0140
Venus	109781-02-26 08:37 G	41817803.82	41817803.86	41817803.92	0.0141	0.0137
Venus	109781-10-10 19:10 G	41818030.20	41818030.30	41818030.42	0.0141	0.0122
Venus	109782-05-25 06:13 G	41818256.62	41818256.76	41818256.90	0.0141	0.0107
Venus	109783-01-06 17:01 G	41818483.05	41818483.21	41818483.38	0.0142	0.0091
Venus	109783-08-21 04:03 G	41818709.49	41818709.67	41818709.87	0.0142	0.0075
Venus	109784-04-03 15:49 G	41818935.96	41818936.16	41818936.36	0.0142	0.0058
Venus	109784-11-16 03:20 G	41819162.43	41819162.64	41819162.85	0.0142	0.0042
Earth	109785-06-29 09:49 G	41819387.71	41819387.91	41819388.13	0.0142	0.0082
Moon	109785-06-29 10:46 G	41819387.77	41819387.95	41819388.16	0.0142	0.0085 *
Venus	109785-06-30 15:06 G	41819388.91	41819389.13	41819389.35	0.0142	0.0025
Venus	109786-02-12 03:06 G	41819615.41	41819615.63	41819615.85	0.0142	0.0008
Moon	109786-07-04 08:22 G	41819757.60	41819757.85	41819758.11	0.0142	0.0037
Earth	109786-07-04 09:06 G	41819757.64	41819757.88	41819758.14	0.0142	0.0031 *
Venus	109786-09-26 15:06 G	41819841.91	41819842.13	41819842.35	0.0142	0.0010
Venus	109787-05-11 03:20 G	41820068.43	41820068.64	41820068.87	0.0143	0.0028
Moon	109787-07-09 08:22 G	41820127.82	41820127.85	41820127.94	0.0143	0.0139
Venus	109787-12-23 15:49 G	41820294.96	41820295.16	41820295.38	0.0143	0.0045

Venus	109788-08-06 04:18 G	41820521.49	41820521.68	41820521.89	0.0143	0.0062
Venus	109789-03-20 17:01 G	41820748.03	41820748.21	41820748.40	0.0143	0.0079
Venus	109789-11-02 05:44 G	41820974.59	41820974.74	41820974.91	0.0143	0.0096
Venus	109790-06-16 18:42 G	41821201.15	41821201.28	41821201.42	0.0143	0.0113
Venus	109791-01-29 07:25 G	41821427.74	41821427.81	41821427.92	0.0143	0.0130
Mercury	109817-10-20 14:22 G	41831188.07	41831188.10	41831188.15	0.0138	0.0135
Mercury	109818-01-16 21:34 G	41831276.30	41831276.40	41831276.53	0.0138	0.0108
Mercury	109818-04-15 04:46 G	41831364.57	41831364.70	41831364.87	0.0138	0.0082
Mercury	109818-07-12 12:13 G	41831452.85	41831453.01	41831453.19	0.0138	0.0055
Mercury	109818-10-08 19:39 G	41831541.14	41831541.32	41831541.51	0.0138	0.0029
Mercury	109819-01-05 03:06 G	41831629.44	41831629.63	41831629.82	0.0138	0.0003
Mercury	109819-04-03 10:18 G	41831717.75	41831717.93	41831718.12	0.0138	0.0025
Mercury	109819-06-30 17:30 G	41831806.06	41831806.23	41831806.42	0.0138	0.0052
Mercury	109819-09-27 00:56 G	41831894.39	41831894.54	41831894.70	0.0138	0.0079
Mercury	109819-12-24 08:37 G	41831982.74	41831982.86	41831982.98	0.0138	0.0105
Mercury	109820-03-21 15:49 G	41832071.12	41832071.16	41832071.22	0.0138	0.0132
Venus	109821-06-18 00:13 G	41832524.47	41832524.51	41832524.57	0.0137	0.0133
Venus	109822-01-30 06:56 G	41832750.70	41832750.79	41832750.91	0.0137	0.0119
Venus	109822-09-13 13:39 G	41832976.94	41832977.07	41832977.22	0.0137	0.0105
Venus	109823-04-27 19:54 G	41833203.19	41833203.33	41833203.51	0.0137	0.0091
Venus	109823-12-10 02:08 G	41833429.43	41833429.59	41833429.78	0.0137	0.0077
Venus	109824-07-23 08:37 G	41833655.67	41833655.86	41833656.05	0.0136	0.0062
Venus	109825-03-06 14:22 G	41833881.90	41833882.10	41833882.31	0.0136	0.0047
Venus	109825-10-18 20:22 G	41834108.14	41834108.35	41834108.56	0.0136	0.0033
Earth	109825-12-31 16:46 G	41834182.05	41834182.20	41834182.37	0.0136	0.0103
Moon	109825-12-31 20:37 G	41834182.20	41834182.36	41834182.52	0.0136	0.0104 *
Venus	109826-06-02 02:08 G	41834334.38	41834334.59	41834334.80	0.0136	0.0018
Moon	109827-01-04 22:46 G	41834551.20	41834551.45	41834551.71	0.0136	0.0003
Earth	109827-01-05 02:22 G	41834551.35	41834551.60	41834551.85	0.0136	0.0007 *
Venus	109827-01-14 07:39 G	41834560.61	41834560.82	41834561.03	0.0136	0.0004

Venus	109827-08-28 12:56 G	41834786.83	41834787.04	41834787.26	0.0136	0.0011
Earth	109828-01-09 11:01 G	41834920.78	41834920.96	41834921.16	0.0136	0.0089
Moon	109828-01-09 14:51 G	41834920.92	41834921.12	41834921.32	0.0136	0.0082 *
Venus	109828-04-10 18:27 G	41835013.06	41835013.27	41835013.48	0.0136	0.0025
Venus	109828-11-22 23:30 G	41835239.29	41835239.48	41835239.70	0.0135	0.0040
Venus	109829-07-07 04:46 G	41835465.51	41835465.70	41835465.90	0.0135	0.0053
Venus	109830-02-18 09:34 G	41835691.73	41835691.90	41835692.10	0.0135	0.0068
Venus	109830-10-02 14:51 G	41835917.95	41835918.12	41835918.29	0.0135	0.0081
Venus	109831-05-16 19:25 G	41836144.17	41836144.31	41836144.48	0.0135	0.0094
Venus	109831-12-29 00:27 G	41836370.40	41836370.52	41836370.65	0.0135	0.0107
Venus	109832-08-11 05:01 G	41836596.62	41836596.71	41836596.81	0.0135	0.0120
Venus	109833-03-25 09:34 G	41836822.88	41836822.90	41836822.94	0.0135	0.0133
Mars	109841-05-18 16:18 G	41839799.08	41839799.18	41839799.32	0.0135	0.0121
Mercury	109861-01-19 10:32 G	41846984.91	41846984.94	41846985.00	0.0140	0.0132
Mercury	109861-04-17 14:08 G	41847073.02	41847073.09	41847073.18	0.0140	0.0112
Mercury	109861-07-14 17:44 G	41847161.15	41847161.24	41847161.35	0.0140	0.0092
Mercury	109861-10-10 21:20 G	41847249.28	41847249.39	41847249.51	0.0140	0.0072
Mercury	109862-01-07 00:56 G	41847337.42	41847337.54	41847337.67	0.0140	0.0052
Mercury	109862-04-05 04:32 G	41847425.56	41847425.69	41847425.82	0.0140	0.0032
Mercury	109862-07-02 08:08 G	41847513.70	41847513.84	41847513.97	0.0140	0.0012
Mercury	109862-09-28 11:30 G	41847601.85	41847601.98	41847602.12	0.0140	0.0009
Mercury	109862-12-25 15:06 G	41847690.00	41847690.13	41847690.26	0.0140	0.0028
Mercury	109863-03-23 18:27 G	41847778.15	41847778.27	41847778.40	0.0140	0.0048
Mercury	109863-06-19 22:03 G	41847866.30	41847866.42	41847866.54	0.0140	0.0067
Mercury	109863-09-16 01:25 G	41847954.46	41847954.56	41847954.67	0.0140	0.0087
Mercury	109863-12-13 04:46 G	41848042.63	41848042.70	41848042.80	0.0141	0.0107
Mercury	109864-03-10 08:22 G	41848130.80	41848130.85	41848130.91	0.0141	0.0126
Venus	109865-06-11 02:37 G	41848588.53	41848588.61	41848588.72	0.0141	0.0127
Venus	109866-01-23 13:25 G	41848814.93	41848815.06	41848815.20	0.0141	0.0111
Venus	109866-09-07 00:13 G	41849041.36	41849041.51	41849041.68	0.0141	0.0096

Venus	109867-04-21 11:30 G	41849267.80	41849267.98	41849268.17	0.0141	0.0080
Venus	109867-12-03 22:32 G	41849494.26	41849494.44	41849494.65	0.0142	0.0064
Venus	109868-07-17 10:03 G	41849720.72	41849720.92	41849721.14	0.0142	0.0047
Venus	109869-02-28 21:49 G	41849947.20	41849947.41	41849947.63	0.0142	0.0030
Earth	109869-06-30 20:51 G	41850069.16	41850069.37	41850069.60	0.0142	0.0076
Moon	109869-06-30 22:18 G	41850069.21	41850069.43	41850069.64	0.0142	0.0082 *
Venus	109869-10-13 09:34 G	41850173.69	41850173.90	41850174.13	0.0142	0.0013
Venus	109870-05-27 21:49 G	41850400.19	41850400.41	41850400.63	0.0142	0.0005
Moon	109870-07-05 18:42 G	41850439.05	41850439.28	41850439.52	0.0142	0.0045
Earth	109870-07-05 19:54 G	41850439.09	41850439.33	41850439.58	0.0142	0.0037 *
Venus	109871-01-09 09:49 G	41850626.69	41850626.91	41850627.13	0.0142	0.0022
Venus	109871-08-23 22:03 G	41850853.21	41850853.42	41850853.64	0.0143	0.0039
Venus	109872-04-06 10:32 G	41851079.74	41851079.94	41851080.15	0.0143	0.0057
Venus	109872-11-18 23:01 G	41851306.28	41851306.46	41851306.66	0.0143	0.0074
Venus	109873-07-03 11:30 G	41851532.82	41851532.98	41851533.17	0.0143	0.0091
Venus	109874-02-15 00:13 G	41851759.38	41851759.51	41851759.67	0.0143	0.0108
Venus	109874-09-29 13:10 G	41851985.95	41851986.05	41851986.17	0.0143	0.0124
Venus	109875-05-14 01:54 G	41852212.57	41852212.58	41852212.64	0.0143	0.0142
Mars	109881-09-27 20:08 G	41854541.21	41854541.34	41854541.49	0.0143	0.0131
Mercury	109901-11-10 22:03 G	41861889.35	41861889.42	41861889.50	0.0138	0.0127
Mercury	109902-02-07 05:15 G	41861977.60	41861977.72	41861977.86	0.0138	0.0100
Mercury	109902-05-06 12:42 G	41862065.87	41862066.03	41862066.19	0.0138	0.0074
Mercury	109902-08-02 19:54 G	41862154.16	41862154.33	41862154.51	0.0138	0.0047
Mercury	109902-10-30 03:06 G	41862242.45	41862242.63	41862242.82	0.0138	0.0021
Mercury	109903-01-26 10:32 G	41862330.75	41862330.94	41862331.13	0.0138	0.0006
Mercury	109903-04-24 17:44 G	41862419.06	41862419.24	41862419.43	0.0138	0.0033
Mercury	109903-07-22 01:10 G	41862507.38	41862507.55	41862507.73	0.0138	0.0060
Mercury	109903-10-18 08:22 G	41862595.72	41862595.85	41862596.01	0.0138	0.0087
Mercury	109904-01-14 16:03 G	41862684.07	41862684.17	41862684.28	0.0138	0.0113
Venus	109905-02-16 10:18 G	41863082.93	41863082.93	41863082.94	0.0137	0.0137

Venus	109905-09-30 17:15 G	41863309.14	41863309.22	41863309.32	0.0137	0.0123
Venus	109906-05-14 23:58 G	41863535.38	41863535.50	41863535.64	0.0137	0.0109
Venus	109906-12-27 06:27 G	41863761.63	41863761.77	41863761.94	0.0137	0.0095
Venus	109907-08-10 12:42 G	41863987.87	41863988.03	41863988.22	0.0137	0.0081
Venus	109908-03-23 19:10 G	41864214.12	41864214.30	41864214.49	0.0137	0.0066
Venus	109908-11-05 01:25 G	41864440.37	41864440.56	41864440.76	0.0136	0.0051
Venus	109909-06-19 07:25 G	41864666.61	41864666.81	41864667.02	0.0136	0.0037
Moon	109910-01-02 02:08 G	41864863.43	41864863.59	41864863.77	0.0136	0.0102
Earth	109910-01-02 05:30 G	41864863.56	41864863.73	41864863.91	0.0136	0.0096 *
Venus	109910-01-31 13:10 G	41864892.84	41864893.05	41864893.27	0.0136	0.0022
Venus	109910-09-14 18:56 G	41865119.08	41865119.29	41865119.51	0.0136	0.0008
Earth	109911-01-06 14:51 G	41865232.87	41865233.12	41865233.38	0.0136	0.0003
Moon	109911-01-06 17:44 G	41865232.99	41865233.24	41865233.49	0.0136	0.0008 *
Venus	109911-04-29 00:42 G	41865345.31	41865345.53	41865345.74	0.0136	0.0007
Venus	109911-12-11 05:58 G	41865571.55	41865571.75	41865571.97	0.0136	0.0022
Moon	109912-01-10 20:22 G	41865602.18	41865602.35	41865602.56	0.0136	0.0089
Earth	109912-01-10 23:30 G	41865602.33	41865602.48	41865602.68	0.0136	0.0097 *
Venus	109912-07-24 11:15 G	41865797.77	41865797.97	41865798.19	0.0136	0.0036
Venus	109913-03-07 16:32 G	41866024.00	41866024.19	41866024.40	0.0135	0.0050
Venus	109913-10-19 21:49 G	41866250.23	41866250.41	41866250.60	0.0135	0.0064
Venus	109914-06-03 02:51 G	41866476.45	41866476.62	41866476.80	0.0135	0.0077
Venus	109915-01-15 07:25 G	41866702.67	41866702.81	41866702.98	0.0135	0.0092
Venus	109915-08-29 12:27 G	41866928.89	41866929.02	41866929.16	0.0135	0.0104
Venus	109916-04-11 17:01 G	41867155.12	41867155.21	41867155.33	0.0135	0.0117
Venus	109916-11-23 21:49 G	41867381.37	41867381.41	41867381.48	0.0135	0.0130
Mars	109924-02-13 03:49 G	41870018.44	41870018.66	41870018.91	0.0135	0.0073
Mercury	109945-02-09 18:27 G	41877686.22	41877686.27	41877686.34	0.0140	0.0124
Mercury	109945-05-08 22:03 G	41877774.34	41877774.42	41877774.52	0.0140	0.0104
Mercury	109945-08-05 01:39 G	41877862.47	41877862.57	41877862.68	0.0140	0.0084
Mercury	109945-11-01 05:15 G	41877950.60	41877950.72	41877950.84	0.0140	0.0064

Mercury	109946-01-28 08:51 G	41878038.74	41878038.87	41878039.00	0.0140	0.0044
Mercury	109946-04-26 12:13 G	41878126.88	41878127.01	41878127.15	0.0140	0.0025
Mercury	109946-07-23 15:49 G	41878215.03	41878215.16	41878215.30	0.0140	0.0006
Mercury	109946-10-19 19:25 G	41878303.18	41878303.31	41878303.44	0.0140	0.0015
Mercury	109947-01-15 22:46 G	41878391.33	41878391.45	41878391.59	0.0140	0.0035
Mercury	109947-04-14 02:22 G	41878479.48	41878479.60	41878479.72	0.0140	0.0055
Mercury	109947-07-11 05:44 G	41878567.63	41878567.74	41878567.86	0.0140	0.0075
Mercury	109947-10-07 09:06 G	41878655.79	41878655.88	41878655.99	0.0140	0.0095
Mercury	109948-01-03 12:42 G	41878743.96	41878744.03	41878744.11	0.0141	0.0114
Mercury	109948-03-31 16:03 G	41878832.14	41878832.17	41878832.22	0.0141	0.0134
Venus	109949-02-09 11:58 G	41879146.92	41879147.00	41879147.08	0.0141	0.0130
Venus	109949-09-23 22:18 G	41879373.32	41879373.43	41879373.57	0.0141	0.0115
Venus	109950-05-08 09:20 G	41879599.74	41879599.89	41879600.05	0.0141	0.0099
Venus	109950-12-20 20:08 G	41879826.17	41879826.34	41879826.52	0.0141	0.0084
Venus	109951-08-04 07:10 G	41880052.62	41880052.80	41880053.00	0.0142	0.0068
Venus	109952-03-17 18:42 G	41880279.08	41880279.28	41880279.49	0.0142	0.0051
Venus	109952-10-30 06:27 G	41880505.56	41880505.77	41880505.98	0.0142	0.0034
Venus	109953-06-13 17:58 G	41880732.04	41880732.25	41880732.48	0.0142	0.0017
Moon	109953-07-02 07:54 G	41880750.63	41880750.83	41880751.05	0.0142	0.0075
Earth	109953-07-02 10:18 G	41880750.72	41880750.93	41880751.17	0.0142	0.0068 *
Venus	109954-01-26 05:58 G	41880958.53	41880958.75	41880958.97	0.0142	0.0000
Earth	109954-07-07 09:20 G	41881120.66	41881120.89	41881121.15	0.0142	0.0046
Moon	109954-07-07 12:13 G	41881120.77	41881121.01	41881121.26	0.0142	0.0052 *
Venus	109954-09-09 17:58 G	41881185.03	41881185.25	41881185.47	0.0142	0.0018
Venus	109955-04-24 06:13 G	41881411.55	41881411.76	41881411.98	0.0142	0.0035
Venus	109955-12-06 18:42 G	41881638.07	41881638.28	41881638.48	0.0143	0.0052
Venus	109956-07-20 06:42 G	41881864.60	41881864.78	41881864.99	0.0143	0.0070
Venus	109957-03-03 19:10 G	41882091.14	41882091.30	41882091.49	0.0143	0.0087
Venus	109957-10-16 08:08 G	41882317.69	41882317.84	41882318.00	0.0143	0.0103
Venus	109958-05-30 20:51 G	41882544.26	41882544.37	41882544.50	0.0143	0.0120

Venus	109959-01-12 09:49 G	41882770.85	41882770.91	41882770.98	0.0143	0.0136
Mars	109966-05-26 17:58 G	41885461.95	41885462.25	41885462.57	0.0143	0.0059
Mercury	109985-12-01 05:58 G	41892590.66	41892590.75	41892590.85	0.0138	0.0117
Mercury	109986-02-27 12:56 G	41892678.92	41892679.04	41892679.19	0.0138	0.0092
Mercury	109986-05-26 20:08 G	41892767.19	41892767.34	41892767.52	0.0138	0.0066
Mercury	109986-08-23 03:49 G	41892855.48	41892855.66	41892855.84	0.0138	0.0038
Mercury	109986-11-19 11:01 G	41892943.77	41892943.96	41892944.15	0.0138	0.0012
Mercury	109987-02-15 18:27 G	41893032.08	41893032.27	41893032.46	0.0138	0.0015
Mercury	109987-05-15 01:39 G	41893120.39	41893120.57	41893120.75	0.0138	0.0042
Mercury	109987-08-11 08:51 G	41893208.72	41893208.87	41893209.04	0.0138	0.0069
Mercury	109987-11-07 16:03 G	41893297.05	41893297.17	41893297.32	0.0138	0.0096
Mercury	109988-02-03 23:44 G	41893385.41	41893385.49	41893385.58	0.0138	0.0122
Venus	109989-05-31 03:34 G	41893867.59	41893867.65	41893867.75	0.0137	0.0127
Venus	109990-01-12 10:18 G	41894093.83	41894093.93	41894094.07	0.0137	0.0113
Venus	109990-08-26 17:15 G	41894320.08	41894320.22	41894320.38	0.0137	0.0098
Venus	109991-04-09 23:44 G	41894546.33	41894546.49	41894546.67	0.0137	0.0084
Venus	109991-11-22 05:58 G	41894772.58	41894772.75	41894772.95	0.0137	0.0070
Venus	109992-07-05 12:27 G	41894998.83	41894999.02	41894999.22	0.0136	0.0055
Venus	109993-02-16 18:27 G	41895225.07	41895225.27	41895225.48	0.0136	0.0040
Venus	109993-10-01 00:42 G	41895451.32	41895451.53	41895451.74	0.0136	0.0025
Earth	109994-01-02 18:13 G	41895545.07	41895545.26	41895545.45	0.0136	0.0089
Moon	109994-01-02 19:54 G	41895545.16	41895545.33	41895545.51	0.0136	0.0096 *
Venus	109994-05-15 06:27 G	41895677.56	41895677.77	41895677.99	0.0136	0.0011
Venus	109994-12-27 12:13 G	41895903.79	41895904.01	41895904.22	0.0136	0.0004
Moon	109995-01-07 02:22 G	41895914.34	41895914.60	41895914.86	0.0136	0.0014
Earth	109995-01-07 03:49 G	41895914.41	41895914.66	41895914.92	0.0136	0.0008 *
Venus	109995-08-10 17:44 G	41896130.03	41896130.24	41896130.45	0.0136	0.0018
Earth	109996-01-11 12:56 G	41896283.88	41896284.04	41896284.21	0.0136	0.0103
Moon	109996-01-11 14:37 G	41896283.95	41896284.11	41896284.29	0.0136	0.0098 *
Venus	109996-03-23 23:01 G	41896356.26	41896356.46	41896356.67	0.0136	0.0032

Venus	109996-11-05 04:18 G	41896582.49	41896582.68	41896582.89	0.0136	0.0047
Venus	109997-06-19 09:34 G	41896808.72	41896808.90	41896809.10	0.0135	0.0061
Venus	109998-01-31 14:37 G	41897034.94	41897035.11	41897035.29	0.0135	0.0074
Venus	109998-09-14 19:25 G	41897261.16	41897261.31	41897261.48	0.0135	0.0088
Venus	109999-04-29 00:13 G	41897487.38	41897487.51	41897487.66	0.0135	0.0102
Venus	109999-12-11 05:15 G	41897713.62	41897713.72	41897713.84	0.0135	0.0114
Venus	110000-07-24 09:49 G	41897939.85	41897939.91	41897939.99	0.0135	0.0127

111TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 111th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	110008-10-07 11:01 G		41900936.72	41900936.96	41900937.23	0.0135	0.0054	
Mercury	110028-12-03 22:32 G		41908299.42	41908299.44	41908299.47	0.0140	0.0137	
Mercury	110029-03-02 02:08 G		41908387.53	41908387.59	41908387.67	0.0140	0.0117	
Mercury	110029-05-29 05:44 G		41908475.65	41908475.74	41908475.84	0.0140	0.0097	
Mercury	110029-08-25 09:20 G		41908563.78	41908563.89	41908564.01	0.0140	0.0077	
Mercury	110029-11-21 12:56 G		41908651.92	41908652.04	41908652.17	0.0140	0.0057	
Mercury	110030-02-17 16:32 G		41908740.06	41908740.19	41908740.32	0.0140	0.0037	
Mercury	110030-05-16 20:08 G		41908828.20	41908828.34	41908828.47	0.0140	0.0018	
Mercury	110030-08-12 23:30 G		41908916.35	41908916.48	41908916.62	0.0140	0.0005	
Mercury	110030-11-09 03:06 G		41909004.50	41909004.63	41909004.76	0.0140	0.0022	
Mercury	110031-02-05 06:27 G		41909092.65	41909092.77	41909092.90	0.0140	0.0042	

Mercury	110031-05-04 10:03 G	41909180.80	41909180.92	41909181.04	0.0140	0.0062
Mercury	110031-07-31 13:25 G	41909268.96	41909269.06	41909269.17	0.0140	0.0081
Mercury	110031-10-27 17:01 G	41909357.12	41909357.21	41909357.30	0.0140	0.0101
Mercury	110032-01-23 20:22 G	41909445.29	41909445.35	41909445.42	0.0140	0.0121
Mercury	110032-04-20 23:58 G	41909533.49	41909533.50	41909533.51	0.0141	0.0140
Venus	110032-10-09 20:51 G	41909705.31	41909705.37	41909705.43	0.0141	0.0134
Venus	110033-05-24 06:56 G	41909931.69	41909931.79	41909931.92	0.0141	0.0119
Venus	110034-01-05 17:15 G	41910158.09	41910158.22	41910158.39	0.0141	0.0104
Venus	110034-08-20 04:18 G	41910384.52	41910384.68	41910384.86	0.0141	0.0088
Venus	110035-04-03 15:34 G	41910610.97	41910611.15	41910611.35	0.0141	0.0072
Venus	110035-11-16 02:37 G	41910837.42	41910837.61	41910837.83	0.0142	0.0056
Venus	110036-06-29 14:08 G	41911063.89	41911064.09	41911064.31	0.0142	0.0039
Venus	110037-02-11 01:39 G	41911290.36	41911290.57	41911290.80	0.0142	0.0022
Earth	110037-07-02 23:15 G	41911432.24	41911432.47	41911432.70	0.0142	0.0060
Moon	110037-07-03 02:37 G	41911432.39	41911432.61	41911432.85	0.0142	0.0066 *
Venus	110037-09-25 13:39 G	41911516.85	41911517.07	41911517.29	0.0142	0.0005
Venus	110038-05-10 01:39 G	41911743.35	41911743.57	41911743.79	0.0142	0.0013
Moon	110038-07-07 18:13 G	41911802.04	41911802.26	41911802.51	0.0142	0.0057
Earth	110038-07-07 21:49 G	41911802.18	41911802.41	41911802.66	0.0142	0.0052 *
Venus	110038-12-22 13:25 G	41911969.85	41911970.06	41911970.29	0.0142	0.0031
Venus	110039-08-06 01:39 G	41912196.37	41912196.57	41912196.79	0.0142	0.0047
Venus	110040-03-19 13:54 G	41912422.89	41912423.08	41912423.29	0.0143	0.0065
Venus	110040-11-01 02:22 G	41912649.43	41912649.60	41912649.79	0.0143	0.0082
Venus	110041-06-15 14:51 G	41912875.97	41912876.12	41912876.29	0.0143	0.0099
Venus	110042-01-28 03:34 G	41913102.53	41913102.65	41913102.79	0.0143	0.0115
Venus	110042-09-11 16:03 G	41913329.11	41913329.17	41913329.27	0.0143	0.0132
Mercury	110069-09-24 06:42 G	41923203.74	41923203.78	41923203.82	0.0139	0.0135
Mercury	110069-12-21 13:54 G	41923291.97	41923292.08	41923292.19	0.0138	0.0109
Mercury	110070-03-19 20:51 G	41923380.23	41923380.37	41923380.53	0.0138	0.0083
Mercury	110070-06-16 04:03 G	41923468.51	41923468.67	41923468.85	0.0138	0.0057

Mercury	110070-09-12 11:30 G	41923556.80	41923556.98	41923557.17	0.0138	0.0030
Mercury	110070-12-09 18:56 G	41923645.10	41923645.29	41923645.48	0.0138	0.0003
Mercury	110071-03-08 02:08 G	41923733.41	41923733.59	41923733.78	0.0138	0.0024
Mercury	110071-06-04 09:20 G	41923821.72	41923821.89	41923822.07	0.0138	0.0051
Mercury	110071-08-31 17:01 G	41923910.05	41923910.21	41923910.36	0.0138	0.0077
Mercury	110071-11-28 00:13 G	41923998.39	41923998.51	41923998.64	0.0138	0.0104
Mercury	110072-02-24 07:39 G	41924086.77	41924086.82	41924086.88	0.0138	0.0131
Venus	110073-01-28 14:08 G	41924426.04	41924426.09	41924426.17	0.0137	0.0131
Venus	110073-09-11 21:20 G	41924652.28	41924652.39	41924652.51	0.0137	0.0117
Venus	110074-04-26 04:03 G	41924878.54	41924878.67	41924878.82	0.0137	0.0102
Venus	110074-12-08 10:32 G	41925104.79	41925104.94	41925105.12	0.0137	0.0088
Venus	110075-07-22 17:15 G	41925331.04	41925331.22	41925331.40	0.0137	0.0073
Venus	110076-03-04 23:30 G	41925557.29	41925557.48	41925557.68	0.0137	0.0059
Venus	110076-10-17 05:58 G	41925783.55	41925783.75	41925783.96	0.0136	0.0044
Venus	110077-05-31 11:58 G	41926009.79	41926010.00	41926010.21	0.0136	0.0029
Moon	110078-01-03 06:42 G	41926226.60	41926226.78	41926226.99	0.0136	0.0089
Earth	110078-01-03 07:10 G	41926226.61	41926226.80	41926227.01	0.0136	0.0082 *
Venus	110078-01-12 17:58 G	41926236.04	41926236.25	41926236.46	0.0136	0.0015
Venus	110078-08-26 23:44 G	41926462.27	41926462.49	41926462.70	0.0136	0.0001
Earth	110079-01-07 17:01 G	41926595.96	41926596.21	41926596.46	0.0136	0.0014
Moon	110079-01-07 17:15 G	41926595.98	41926596.22	41926596.46	0.0136	0.0019 *
Venus	110079-04-10 05:15 G	41926688.51	41926688.72	41926688.94	0.0136	0.0015
Venus	110079-11-22 11:01 G	41926914.75	41926914.96	41926915.17	0.0136	0.0029
Moon	110080-01-12 00:56 G	41926965.40	41926965.54	41926965.72	0.0136	0.0108
Earth	110080-01-12 01:25 G	41926965.44	41926965.56	41926965.73	0.0136	0.0111 *
Venus	110080-07-05 16:18 G	41927140.98	41927141.18	41927141.38	0.0136	0.0043
Venus	110081-02-16 21:20 G	41927367.20	41927367.39	41927367.59	0.0136	0.0057
Venus	110081-10-01 02:22 G	41927593.43	41927593.60	41927593.79	0.0135	0.0071
Venus	110082-05-15 07:39 G	41927819.66	41927819.82	41927819.99	0.0135	0.0085
Venus	110082-12-27 12:13 G	41928045.88	41928046.01	41928046.17	0.0135	0.0099

Venus	110083-08-10 17:15 G	41928272.11	41928272.22	41928272.34	0.0135	0.0111
Venus	110084-03-23 21:49 G	41928498.34	41928498.41	41928498.50	0.0135	0.0124
Mercury	110112-12-25 06:13 G	41939000.72	41939000.76	41939000.82	0.0140	0.0130
Mercury	110113-03-23 09:49 G	41939088.84	41939088.91	41939089.00	0.0140	0.0110
Mercury	110113-06-19 13:25 G	41939176.97	41939177.06	41939177.17	0.0140	0.0090
Mercury	110113-09-15 17:01 G	41939265.10	41939265.21	41939265.33	0.0140	0.0070
Mercury	110113-12-12 20:37 G	41939353.24	41939353.36	41939353.49	0.0140	0.0050
Mercury	110114-03-11 00:13 G	41939441.38	41939441.51	41939441.64	0.0140	0.0030
Mercury	110114-06-07 03:49 G	41939529.53	41939529.66	41939529.80	0.0140	0.0010
Mercury	110114-09-03 07:25 G	41939617.67	41939617.81	41939617.94	0.0140	0.0010
Mercury	110114-11-30 10:46 G	41939705.82	41939705.95	41939706.08	0.0140	0.0030
Mercury	110115-02-26 14:22 G	41939793.97	41939794.10	41939794.22	0.0140	0.0049
Mercury	110115-05-25 17:44 G	41939882.13	41939882.24	41939882.36	0.0140	0.0069
Mercury	110115-08-21 21:20 G	41939970.29	41939970.39	41939970.49	0.0140	0.0088
Mercury	110115-11-18 00:42 G	41940058.45	41940058.53	41940058.62	0.0140	0.0108
Mercury	110116-02-14 04:18 G	41940146.63	41940146.68	41940146.73	0.0141	0.0128
Venus	110116-06-10 05:44 G	41940263.71	41940263.74	41940263.79	0.0141	0.0138
Venus	110117-01-22 15:49 G	41940490.07	41940490.16	41940490.28	0.0141	0.0123
Venus	110117-09-06 02:22 G	41940716.47	41940716.60	41940716.75	0.0141	0.0108
Venus	110118-04-20 13:10 G	41940942.90	41940943.05	41940943.23	0.0141	0.0092
Venus	110118-12-03 00:27 G	41941169.34	41941169.52	41941169.71	0.0141	0.0076
Venus	110119-07-17 11:15 G	41941395.78	41941395.97	41941396.18	0.0141	0.0060
Venus	110120-02-28 22:46 G	41941622.24	41941622.45	41941622.66	0.0142	0.0043
Venus	110120-10-12 10:18 G	41941848.72	41941848.93	41941849.15	0.0142	0.0026
Venus	110121-05-26 22:03 G	41942075.20	41942075.42	41942075.64	0.0142	0.0009
Moon	110121-07-04 08:37 G	41942113.64	41942113.86	41942114.11	0.0142	0.0056
Earth	110121-07-04 12:27 G	41942113.79	41942114.02	41942114.27	0.0142	0.0052 *
Venus	110122-01-08 09:49 G	41942301.69	41942301.91	41942302.13	0.0142	0.0008
Earth	110122-07-09 11:15 G	41942483.74	41942483.97	41942484.21	0.0142	0.0061
Moon	110122-07-09 14:51 G	41942483.89	41942484.12	41942484.36	0.0142	0.0061 *

Venus	110122-08-22 21:49 G	41942528.19	41942528.41	41942528.63	0.0142	0.0025
Venus	110123-04-06 09:49 G	41942754.70	41942754.91	41942755.13	0.0142	0.0043
Venus	110123-11-18 22:03 G	41942981.22	41942981.42	41942981.63	0.0143	0.0060
Venus	110124-07-02 10:32 G	41943207.75	41943207.94	41943208.13	0.0143	0.0077
Venus	110125-02-13 22:46 G	41943434.29	41943434.45	41943434.62	0.0143	0.0094
Venus	110125-09-28 11:15 G	41943660.84	41943660.97	41943661.12	0.0143	0.0111
Venus	110126-05-13 00:27 G	41943887.42	41943887.52	41943887.62	0.0143	0.0127
Mars	110133-10-12 00:13 G	41946596.21	41946596.51	41946596.84	0.0143	0.0059
Mercury	110153-10-15 14:51 G	41953905.05	41953905.12	41953905.21	0.0139	0.0125
Mercury	110154-01-11 22:03 G	41953993.30	41953993.42	41953993.56	0.0138	0.0098
Mercury	110154-04-10 05:15 G	41954081.57	41954081.72	41954081.89	0.0138	0.0072
Mercury	110154-07-07 12:42 G	41954169.85	41954170.03	41954170.21	0.0138	0.0045
Mercury	110154-10-03 19:54 G	41954258.15	41954258.33	41954258.52	0.0138	0.0019
Mercury	110154-12-31 03:20 G	41954346.45	41954346.64	41954346.82	0.0138	0.0008
Mercury	110155-03-29 10:32 G	41954434.76	41954434.94	41954435.12	0.0138	0.0034
Mercury	110155-06-25 17:44 G	41954523.08	41954523.24	41954523.42	0.0138	0.0061
Mercury	110155-09-22 01:10 G	41954611.41	41954611.55	41954611.70	0.0138	0.0088
Mercury	110155-12-19 08:22 G	41954699.76	41954699.85	41954699.97	0.0138	0.0115
Venus	110156-09-29 01:25 G	41954984.54	41954984.56	41954984.62	0.0138	0.0135
Venus	110157-05-13 08:22 G	41955210.77	41955210.85	41955210.98	0.0137	0.0121
Venus	110157-12-25 15:49 G	41955437.02	41955437.16	41955437.29	0.0137	0.0106
Venus	110158-08-08 22:18 G	41955663.28	41955663.43	41955663.60	0.0137	0.0091
Venus	110159-03-23 04:46 G	41955889.53	41955889.70	41955889.89	0.0137	0.0077
Venus	110159-11-04 11:30 G	41956115.79	41956115.98	41956116.18	0.0137	0.0062
Venus	110160-06-17 17:44 G	41956342.04	41956342.24	41956342.45	0.0137	0.0047
Venus	110161-01-29 23:58 G	41956568.29	41956568.50	41956568.71	0.0136	0.0033
Venus	110161-09-13 05:58 G	41956794.54	41956794.75	41956794.96	0.0136	0.0018
Moon	110162-01-04 19:54 G	41956908.15	41956908.33	41956908.54	0.0136	0.0079
Earth	110162-01-04 21:06 G	41956908.18	41956908.38	41956908.60	0.0136	0.0074 *
Venus	110162-04-27 11:44 G	41957020.78	41957020.99	41957021.21	0.0136	0.0004

Venus	110162-12-09 17:30 G	41957247.02	41957247.23	41957247.45	0.0136	0.0011
Earth	110163-01-09 06:42 G	41957277.54	41957277.78	41957278.03	0.0136	0.0023
Moon	110163-01-09 07:25 G	41957277.57	41957277.81	41957278.08	0.0136	0.0025 *
Venus	110163-07-23 23:01 G	41957473.25	41957473.46	41957473.67	0.0136	0.0026
Moon	110164-01-13 14:37 G	41957647.01	41957647.11	41957647.23	0.0136	0.0120
Earth	110164-01-13 15:20 G	41957647.04	41957647.14	41957647.28	0.0136	0.0119 *
Venus	110164-03-06 04:18 G	41957699.48	41957699.68	41957699.89	0.0136	0.0040
Venus	110164-10-18 09:49 G	41957925.71	41957925.91	41957926.11	0.0136	0.0054
Venus	110165-06-01 14:51 G	41958151.94	41958152.12	41958152.31	0.0135	0.0068
Venus	110166-01-13 19:39 G	41958378.16	41958378.32	41958378.50	0.0135	0.0082
Venus	110166-08-28 00:27 G	41958604.39	41958604.52	41958604.69	0.0135	0.0096
Venus	110167-04-11 05:30 G	41958830.61	41958830.73	41958830.86	0.0135	0.0108
Venus	110167-11-23 10:18 G	41959056.85	41959056.93	41959057.03	0.0135	0.0122
Venus	110168-07-06 14:51 G	41959283.12	41959283.12	41959283.16	0.0135	0.0135
Mars	110176-02-27 04:18 G	41962074.40	41962074.68	41962074.96	0.0135	0.0017
Mercury	110197-01-14 13:54 G	41969702.02	41969702.08	41969702.15	0.0140	0.0123
Mercury	110197-04-12 17:44 G	41969790.15	41969790.24	41969790.33	0.0140	0.0103
Mercury	110197-07-09 21:06 G	41969878.28	41969878.38	41969878.49	0.0140	0.0083
Mercury	110197-10-06 00:42 G	41969966.41	41969966.53	41969966.65	0.0140	0.0063
Mercury	110198-01-02 04:18 G	41970054.55	41970054.68	41970054.81	0.0140	0.0043
Mercury	110198-03-31 07:54 G	41970142.70	41970142.83	41970142.96	0.0140	0.0024
Mercury	110198-06-27 11:15 G	41970230.84	41970230.97	41970231.11	0.0140	0.0006
Mercury	110198-09-23 14:51 G	41970318.99	41970319.12	41970319.26	0.0140	0.0016
Mercury	110198-12-20 18:27 G	41970407.14	41970407.27	41970407.40	0.0140	0.0036
Mercury	110199-03-18 21:49 G	41970495.29	41970495.41	41970495.54	0.0140	0.0056
Mercury	110199-06-15 01:10 G	41970583.45	41970583.55	41970583.67	0.0140	0.0076
Mercury	110199-09-11 05:01 G	41970671.61	41970671.71	41970671.80	0.0140	0.0095
Mercury	110199-12-08 08:08 G	41970759.78	41970759.84	41970759.93	0.0140	0.0115
Mercury	110200-03-06 11:58 G	41970847.96	41970848.00	41970848.03	0.0140	0.0134
Venus	110200-09-22 23:58 G	41971048.43	41971048.50	41971048.61	0.0141	0.0128

Venus	110201-05-07 10:46 G	41971274.82	41971274.95	41971275.09	0.0141	0.0112
Venus	110201-12-19 21:06 G	41971501.24	41971501.38	41971501.55	0.0141	0.0097
Venus	110202-08-03 08:08 G	41971727.66	41971727.84	41971728.02	0.0141	0.0081
Venus	110203-03-17 18:56 G	41971954.11	41971954.29	41971954.50	0.0141	0.0065
Venus	110203-10-30 06:27 G	41972180.56	41972180.77	41972180.98	0.0142	0.0048
Venus	110204-06-12 17:44 G	41972407.02	41972407.24	41972407.45	0.0142	0.0031
Venus	110205-01-25 05:01 G	41972633.49	41972633.71	41972633.93	0.0142	0.0014
Earth	110205-07-05 23:58 G	41972795.26	41972795.50	41972795.75	0.0142	0.0045
Moon	110205-07-06 03:20 G	41972795.41	41972795.64	41972795.89	0.0142	0.0046 *
Venus	110205-09-08 16:46 G	41972859.98	41972860.20	41972860.42	0.0142	0.0003
Venus	110206-04-23 04:32 G	41973086.48	41973086.69	41973086.92	0.0142	0.0020
Moon	110206-07-10 19:10 G	41973165.07	41973165.30	41973165.53	0.0142	0.0065
Earth	110206-07-10 22:18 G	41973165.22	41973165.43	41973165.67	0.0142	0.0068 *
Venus	110206-12-05 16:32 G	41973312.98	41973313.19	41973313.41	0.0142	0.0037
Venus	110207-07-20 04:32 G	41973539.49	41973539.69	41973539.90	0.0142	0.0054
Venus	110208-03-02 16:32 G	41973766.01	41973766.19	41973766.40	0.0143	0.0072
Venus	110208-10-15 05:01 G	41973992.55	41973992.71	41973992.89	0.0143	0.0089
Venus	110209-05-29 17:30 G	41974219.10	41974219.23	41974219.39	0.0143	0.0106
Venus	110210-01-11 06:13 G	41974445.66	41974445.76	41974445.88	0.0143	0.0122
Venus	110210-08-25 18:42 G	41974672.25	41974672.28	41974672.35	0.0143	0.0139
Mars	110218-06-09 16:46 G	41977517.05	41977517.20	41977517.37	0.0143	0.0127
Mercury	110237-11-05 22:46 G	41984606.36	41984606.45	41984606.56	0.0139	0.0116
Mercury	110238-02-02 05:58 G	41984694.61	41984694.75	41984694.90	0.0138	0.0089
Mercury	110238-05-01 13:10 G	41984782.89	41984783.05	41984783.22	0.0138	0.0063
Mercury	110238-07-28 20:37 G	41984871.18	41984871.36	41984871.54	0.0138	0.0036
Mercury	110238-10-25 03:49 G	41984959.47	41984959.66	41984959.85	0.0138	0.0010
Mercury	110239-01-21 11:01 G	41985047.78	41985047.96	41985048.15	0.0138	0.0017
Mercury	110239-04-19 18:13 G	41985136.09	41985136.26	41985136.45	0.0138	0.0044
Mercury	110239-07-17 01:54 G	41985224.42	41985224.58	41985224.74	0.0138	0.0070
Mercury	110239-10-13 09:06 G	41985312.75	41985312.88	41985313.02	0.0138	0.0097

Mercury	110240-01-09 16:32 G	41985401.12	41985401.19	41985401.28	0.0138	0.0124
Venus	110241-01-11 19:10 G	41985769.23	41985769.30	41985769.41	0.0138	0.0125
Venus	110241-08-26 02:37 G	41985995.49	41985995.61	41985995.74	0.0137	0.0110
Venus	110242-04-09 09:20 G	41986221.75	41986221.89	41986222.05	0.0137	0.0095
Venus	110242-11-21 16:03 G	41986448.01	41986448.17	41986448.36	0.0137	0.0081
Venus	110243-07-05 22:46 G	41986674.27	41986674.45	41986674.64	0.0137	0.0066
Venus	110244-02-17 05:01 G	41986900.52	41986900.71	41986900.92	0.0137	0.0052
Venus	110244-09-30 11:30 G	41987126.78	41987126.98	41987127.19	0.0136	0.0037
Venus	110245-05-14 17:44 G	41987353.03	41987353.24	41987353.45	0.0136	0.0022
Venus	110245-12-26 23:30 G	41987579.27	41987579.48	41987579.70	0.0136	0.0007
Earth	110246-01-06 10:18 G	41987589.73	41987589.93	41987590.17	0.0136	0.0067
Moon	110246-01-06 12:56 G	41987589.81	41987590.04	41987590.27	0.0136	0.0067 *
Venus	110246-08-10 05:15 G	41987805.51	41987805.72	41987805.94	0.0136	0.0007
Moon	110247-01-10 18:27 G	41987959.04	41987959.27	41987959.52	0.0136	0.0031
Earth	110247-01-10 20:08 G	41987959.10	41987959.34	41987959.59	0.0136	0.0031 *
Venus	110247-03-24 10:46 G	41988031.74	41988031.95	41988032.17	0.0136	0.0022
Venus	110247-11-05 16:32 G	41988257.98	41988258.19	41988258.40	0.0136	0.0036
Earth	110248-01-15 04:32 G	41988328.62	41988328.69	41988328.80	0.0136	0.0127
Moon	110248-01-15 06:27 G	41988328.72	41988328.77	41988328.86	0.0136	0.0131 *
Venus	110248-06-18 21:49 G	41988484.21	41988484.41	41988484.61	0.0136	0.0050
Venus	110249-01-31 02:37 G	41988710.44	41988710.61	41988710.81	0.0136	0.0065
Venus	110249-09-14 07:54 G	41988936.66	41988936.83	41988937.01	0.0136	0.0078
Venus	110250-04-28 12:42 G	41989162.89	41989163.03	41989163.20	0.0135	0.0092
Venus	110250-12-10 17:30 G	41989389.12	41989389.23	41989389.39	0.0135	0.0106
Venus	110251-07-24 22:32 G	41989615.35	41989615.44	41989615.55	0.0135	0.0118
Venus	110252-03-07 03:06 G	41989841.60	41989841.63	41989841.70	0.0135	0.0131
Mars	110260-10-22 10:18 G	41992992.78	41992992.93	41992993.10	0.0135	0.0111
Mercury	110280-11-08 17:44 G	42000315.23	42000315.24	42000315.28	0.0139	0.0137
Mercury	110281-02-04 21:34 G	42000403.33	42000403.40	42000403.48	0.0139	0.0116
Mercury	110281-05-04 01:10 G	42000491.46	42000491.55	42000491.65	0.0140	0.0097

Mercury	110281-07-31 04:46 G	42000579.59	42000579.70	42000579.81	0.0140	0.0077
Mercury	110281-10-27 08:22 G	42000667.73	42000667.85	42000667.97	0.0140	0.0057
Mercury	110282-01-23 11:58 G	42000755.87	42000756.00	42000756.13	0.0140	0.0037
Mercury	110282-04-21 15:20 G	42000844.01	42000844.14	42000844.28	0.0140	0.0018
Mercury	110282-07-18 18:56 G	42000932.16	42000932.29	42000932.43	0.0140	0.0003
Mercury	110282-10-14 22:18 G	42001020.30	42001020.43	42001020.57	0.0140	0.0023
Mercury	110283-01-11 01:54 G	42001108.46	42001108.58	42001108.71	0.0140	0.0042
Mercury	110283-04-09 05:15 G	42001196.61	42001196.72	42001196.85	0.0140	0.0063
Mercury	110283-07-06 08:51 G	42001284.77	42001284.87	42001284.98	0.0140	0.0082
Mercury	110283-10-02 12:13 G	42001372.93	42001373.01	42001373.11	0.0140	0.0102
Mercury	110283-12-29 15:49 G	42001461.10	42001461.16	42001461.23	0.0140	0.0121
Mercury	110284-03-26 19:25 G	42001549.31	42001549.31	42001549.32	0.0140	0.0140
Venus	110284-05-23 08:37 G	42001606.80	42001606.86	42001606.95	0.0140	0.0132
Venus	110285-01-04 18:42 G	42001833.18	42001833.28	42001833.42	0.0141	0.0117
Venus	110285-08-19 05:15 G	42002059.58	42002059.72	42002059.88	0.0141	0.0101
Venus	110286-04-02 16:03 G	42002286.00	42002286.17	42002286.35	0.0141	0.0085
Venus	110286-11-15 02:51 G	42002512.44	42002512.62	42002512.82	0.0141	0.0069
Venus	110287-06-29 13:54 G	42002738.88	42002739.08	42002739.29	0.0141	0.0053
Venus	110288-02-11 00:56 G	42002965.33	42002965.54	42002965.76	0.0142	0.0037
Venus	110288-09-24 12:27 G	42003191.80	42003192.02	42003192.24	0.0142	0.0019
Venus	110289-05-08 23:58 G	42003418.28	42003418.50	42003418.73	0.0142	0.0004
Moon	110289-07-06 07:54 G	42003476.59	42003476.83	42003477.09	0.0142	0.0037
Earth	110289-07-06 11:15 G	42003476.74	42003476.97	42003477.23	0.0142	0.0039 *
Venus	110289-12-21 11:44 G	42003644.77	42003644.99	42003645.21	0.0142	0.0015
Earth	110290-07-11 09:34 G	42003846.70	42003846.90	42003847.13	0.0142	0.0074
Moon	110290-07-11 12:13 G	42003846.81	42003847.01	42003847.25	0.0142	0.0070 *
Venus	110290-08-04 23:30 G	42003871.26	42003871.48	42003871.70	0.0142	0.0032
Venus	110291-03-19 11:15 G	42004097.77	42004097.97	42004098.19	0.0142	0.0049
Venus	110291-10-31 23:15 G	42004324.29	42004324.47	42004324.68	0.0143	0.0067
Venus	110292-06-14 11:58 G	42004550.82	42004551.00	42004551.18	0.0143	0.0083

Venus	110293-01-27 00:13 G	42004777.36	42004777.51	42004777.67	0.0143	0.0100
Venus	110293-09-10 12:27 G	42005003.91	42005004.02	42005004.16	0.0143	0.0117
Venus	110294-04-25 01:39 G	42005230.49	42005230.57	42005230.65	0.0143	0.0133
Mercury	110321-08-30 23:30 G	42015219.44	42015219.48	42015219.53	0.0139	0.0133
Mercury	110321-11-27 06:42 G	42015307.67	42015307.78	42015307.90	0.0139	0.0107
Mercury	110322-02-23 13:54 G	42015395.93	42015396.08	42015396.23	0.0138	0.0080
Mercury	110322-05-22 21:06 G	42015484.21	42015484.38	42015484.56	0.0138	0.0054
Mercury	110322-08-19 04:32 G	42015572.50	42015572.69	42015572.87	0.0138	0.0027
Mercury	110322-11-15 11:44 G	42015660.80	42015660.99	42015661.18	0.0138	0.0002
Mercury	110323-02-11 18:56 G	42015749.11	42015749.29	42015749.48	0.0138	0.0027
Mercury	110323-05-11 02:22 G	42015837.43	42015837.60	42015837.78	0.0138	0.0053
Mercury	110323-08-07 09:34 G	42015925.76	42015925.90	42015926.07	0.0138	0.0080
Mercury	110323-11-03 17:01 G	42016014.10	42016014.21	42016014.34	0.0138	0.0107
Mercury	110324-01-31 00:13 G	42016102.49	42016102.51	42016102.57	0.0138	0.0134
Venus	110324-09-12 06:27 G	42016327.69	42016327.77	42016327.84	0.0138	0.0128
Venus	110325-04-26 13:25 G	42016553.95	42016554.06	42016554.19	0.0137	0.0114
Venus	110325-12-08 20:08 G	42016780.21	42016780.34	42016780.51	0.0137	0.0100
Venus	110326-07-23 03:20 G	42017006.47	42017006.64	42017006.81	0.0137	0.0084
Venus	110327-03-06 09:49 G	42017232.74	42017232.91	42017233.11	0.0137	0.0070
Venus	110327-10-18 16:46 G	42017459.00	42017459.20	42017459.40	0.0137	0.0055
Venus	110328-05-31 23:01 G	42017685.26	42017685.46	42017685.67	0.0137	0.0040
Venus	110329-01-13 05:15 G	42017911.51	42017911.72	42017911.93	0.0136	0.0026
Venus	110329-08-27 11:01 G	42018137.75	42018137.96	42018138.18	0.0136	0.0012
Moon	110330-01-07 21:20 G	42018271.17	42018271.39	42018271.62	0.0136	0.0056
Earth	110330-01-07 23:44 G	42018271.28	42018271.49	42018271.74	0.0136	0.0059 *
Venus	110330-04-10 17:01 G	42018364.00	42018364.21	42018364.42	0.0136	0.0004
Venus	110330-11-22 22:46 G	42018590.24	42018590.45	42018590.66	0.0136	0.0018
Earth	110331-01-12 09:20 G	42018640.65	42018640.89	42018641.14	0.0136	0.0039
Moon	110331-01-12 11:58 G	42018640.75	42018641.00	42018641.25	0.0136	0.0036 *
Venus	110331-07-07 04:18 G	42018816.47	42018816.68	42018816.89	0.0136	0.0032

Earth	110332-01-16 17:58 G	42019010.24	42019010.25	42019010.30	0.0136	0.0135
Venus	110332-02-18 09:34 G	42019042.70	42019042.90	42019043.11	0.0136	0.0047
Venus	110332-10-01 14:51 G	42019268.94	42019269.12	42019269.32	0.0136	0.0061
Venus	110333-05-15 19:54 G	42019495.16	42019495.33	42019495.52	0.0136	0.0075
Venus	110333-12-28 00:56 G	42019721.39	42019721.54	42019721.71	0.0135	0.0088
Venus	110334-08-11 05:58 G	42019947.62	42019947.75	42019947.90	0.0135	0.0102
Venus	110335-03-25 11:01 G	42020173.85	42020173.96	42020174.07	0.0135	0.0115
Venus	110335-11-06 15:34 G	42020400.10	42020400.15	42020400.23	0.0135	0.0128
Mars	110343-07-19 20:37 G	42023212.15	42023212.36	42023212.58	0.0135	0.0085
Mercury	110364-11-30 01:39 G	42031016.52	42031016.57	42031016.62	0.0139	0.0130
Mercury	110365-02-26 05:15 G	42031104.64	42031104.72	42031104.80	0.0139	0.0110
Mercury	110365-05-25 08:37 G	42031192.77	42031192.86	42031192.97	0.0139	0.0090
Mercury	110365-08-21 12:13 G	42031280.90	42031281.01	42031281.13	0.0139	0.0071
Mercury	110365-11-17 15:49 G	42031369.04	42031369.16	42031369.29	0.0140	0.0051
Mercury	110366-02-13 19:25 G	42031457.18	42031457.31	42031457.44	0.0140	0.0031
Mercury	110366-05-12 23:01 G	42031545.33	42031545.46	42031545.59	0.0140	0.0011
Mercury	110366-08-09 02:37 G	42031633.47	42031633.61	42031633.74	0.0140	0.0009
Mercury	110366-11-05 05:58 G	42031721.62	42031721.75	42031721.88	0.0140	0.0029
Mercury	110367-02-01 09:34 G	42031809.77	42031809.90	42031810.02	0.0140	0.0048
Jupiter	110367-04-08 12:42 G	42031875.84	42031876.03	42031876.33	0.0140	0.0123
Mercury	110367-04-30 12:56 G	42031897.93	42031898.04	42031898.16	0.0140	0.0068
Mercury	110367-07-27 16:32 G	42031986.09	42031986.19	42031986.29	0.0140	0.0087
Mercury	110367-10-23 19:54 G	42032074.25	42032074.33	42032074.42	0.0140	0.0107
Mercury	110368-01-19 23:30 G	42032162.43	42032162.48	42032162.54	0.0140	0.0127
Venus	110368-01-22 16:46 G	42032165.17	42032165.20	42032165.27	0.0140	0.0136
Venus	110368-09-05 03:20 G	42032391.53	42032391.64	42032391.75	0.0140	0.0121
Venus	110369-04-19 13:25 G	42032617.93	42032618.06	42032618.21	0.0141	0.0106
Venus	110369-12-01 23:58 G	42032844.34	42032844.50	42032844.67	0.0141	0.0090
Venus	110370-07-16 10:32 G	42033070.76	42033070.94	42033071.13	0.0141	0.0074
Venus	110371-02-27 21:06 G	42033297.19	42033297.38	42033297.59	0.0141	0.0058

Venus	110371-10-12 08:22 G	42033523.64	42033523.85	42033524.06	0.0141	0.0041
Venus	110372-05-25 19:39 G	42033750.10	42033750.32	42033750.54	0.0142	0.0025
Venus	110373-01-07 06:56 G	42033976.57	42033976.79	42033977.01	0.0142	0.0008
Earth	110373-07-07 22:03 G	42034158.18	42034158.42	42034158.68	0.0142	0.0033
Moon	110373-07-08 00:56 G	42034158.30	42034158.54	42034158.79	0.0142	0.0028 *
Venus	110373-08-21 18:13 G	42034203.04	42034203.26	42034203.49	0.0142	0.0010
Venus	110374-04-05 05:58 G	42034429.54	42034429.75	42034429.97	0.0142	0.0026
Moon	110374-07-12 18:13 G	42034528.04	42034528.26	42034528.49	0.0142	0.0073
Earth	110374-07-12 20:08 G	42034528.14	42034528.34	42034528.57	0.0142	0.0080 *
Venus	110374-11-17 17:44 G	42034656.04	42034656.24	42034656.46	0.0142	0.0043
Venus	110375-07-02 05:44 G	42034882.54	42034882.74	42034882.94	0.0142	0.0060
Venus	110376-02-13 17:44 G	42035109.06	42035109.24	42035109.43	0.0142	0.0077
Venus	110376-09-27 05:44 G	42035335.59	42035335.74	42035335.92	0.0143	0.0095
Venus	110377-05-11 18:42 G	42035562.14	42035562.28	42035562.42	0.0143	0.0111
Venus	110377-12-24 06:56 G	42035788.71	42035788.79	42035788.90	0.0143	0.0128
Mars	110385-10-25 11:44 G	42038650.65	42038650.99	42038651.33	0.0143	0.0001
Mercury	110405-09-20 06:27 G	42045920.71	42045920.77	42045920.85	0.0139	0.0127
Mercury	110405-12-17 13:39 G	42046008.95	42046009.07	42046009.20	0.0139	0.0101
Mercury	110406-03-15 20:51 G	42046097.22	42046097.37	42046097.54	0.0139	0.0074
Mercury	110406-06-12 04:18 G	42046185.50	42046185.68	42046185.86	0.0138	0.0048
Mercury	110406-09-08 11:30 G	42046273.80	42046273.98	42046274.17	0.0138	0.0021
Mercury	110406-12-05 18:56 G	42046362.10	42046362.29	42046362.48	0.0138	0.0006
Mercury	110407-03-04 02:08 G	42046450.41	42046450.59	42046450.78	0.0138	0.0033
Mercury	110407-05-31 09:34 G	42046538.73	42046538.90	42046539.07	0.0138	0.0059
Mercury	110407-08-27 16:46 G	42046627.06	42046627.20	42046627.36	0.0138	0.0086
Mercury	110407-11-24 00:13 G	42046715.41	42046715.51	42046715.63	0.0138	0.0113
Venus	110408-05-12 15:06 G	42046886.09	42046886.13	42046886.20	0.0138	0.0133
Venus	110408-12-24 22:18 G	42047112.34	42047112.43	42047112.56	0.0138	0.0119
Venus	110409-08-08 05:44 G	42047338.61	42047338.74	42047338.89	0.0137	0.0104
Venus	110410-03-22 12:42 G	42047564.88	42047565.03	42047565.20	0.0137	0.0089

Venus	110410-11-03 19:39 G	42047791.15	42047791.32	42047791.51	0.0137	0.0075
Venus	110411-06-18 02:22 G	42048017.41	42048017.60	42048017.80	0.0137	0.0060
Venus	110412-01-30 08:51 G	42048243.67	42048243.87	42048244.08	0.0137	0.0045
Venus	110412-09-12 15:20 G	42048469.93	42048470.14	42048470.35	0.0137	0.0030
Venus	110413-04-26 21:20 G	42048696.18	42048696.39	42048696.61	0.0137	0.0016
Venus	110413-12-09 03:20 G	42048922.43	42048922.64	42048922.86	0.0136	0.0003
Earth	110414-01-08 11:15 G	42048952.74	42048952.97	42048953.20	0.0136	0.0052
Moon	110414-01-08 14:37 G	42048952.87	42048953.11	42048953.35	0.0136	0.0048 *
Venus	110414-07-23 09:06 G	42049148.67	42049148.88	42049149.10	0.0136	0.0014
Moon	110415-01-12 17:58 G	42049322.02	42049322.25	42049322.49	0.0136	0.0040
Earth	110415-01-12 20:37 G	42049322.13	42049322.36	42049322.61	0.0136	0.0046 *
Venus	110415-03-06 14:51 G	42049374.91	42049375.12	42049375.33	0.0136	0.0028
Venus	110415-10-18 20:22 G	42049601.15	42049601.35	42049601.56	0.0136	0.0043
Venus	110416-06-01 01:39 G	42049827.39	42049827.57	42049827.78	0.0136	0.0057
Venus	110417-01-13 06:56 G	42050053.62	42050053.79	42050053.98	0.0136	0.0071
Venus	110417-08-27 11:58 G	42050279.85	42050280.00	42050280.18	0.0136	0.0085
Venus	110418-04-10 17:15 G	42050506.08	42050506.22	42050506.37	0.0136	0.0098
Venus	110418-11-22 22:18 G	42050732.32	42050732.43	42050732.56	0.0135	0.0111
Venus	110419-07-07 03:06 G	42050958.56	42050958.63	42050958.73	0.0135	0.0125
Mars	110428-03-13 01:54 G	42054130.32	42054130.58	42054130.86	0.0135	0.0043
Mercury	110448-12-20 09:20 G	42061717.83	42061717.89	42061717.95	0.0139	0.0123
Mercury	110449-03-18 12:56 G	42061805.95	42061806.04	42061806.13	0.0139	0.0103
Mercury	110449-06-14 16:18 G	42061894.08	42061894.18	42061894.30	0.0139	0.0083
Mercury	110449-09-10 19:54 G	42061982.22	42061982.33	42061982.46	0.0139	0.0064
Mercury	110449-12-07 23:30 G	42062070.36	42062070.48	42062070.61	0.0139	0.0044
Mercury	110450-03-06 03:06 G	42062158.50	42062158.63	42062158.77	0.0140	0.0024
Mercury	110450-06-02 06:42 G	42062246.64	42062246.78	42062246.91	0.0140	0.0004
Mercury	110450-08-29 10:18 G	42062334.79	42062334.93	42062335.06	0.0140	0.0016
Mercury	110450-11-25 13:39 G	42062422.94	42062423.07	42062423.20	0.0140	0.0035
Mercury	110451-02-21 17:15 G	42062511.10	42062511.22	42062511.34	0.0140	0.0055

Mercury	110451-05-20 20:37 G	42062599.25	42062599.36	42062599.48	0.0140	0.0075
Mercury	110451-08-17 00:13 G	42062687.41	42062687.51	42062687.61	0.0140	0.0094
Venus	110451-09-22 01:39 G	42062723.57	42062723.57	42062723.60	0.0140	0.0140
Mercury	110451-11-13 03:34 G	42062775.58	42062775.65	42062775.73	0.0140	0.0114
Mercury	110452-02-09 06:56 G	42062863.76	42062863.79	42062863.84	0.0140	0.0133
Venus	110452-05-05 11:30 G	42062949.90	42062949.98	42062950.10	0.0140	0.0126
Venus	110452-12-17 21:49 G	42063176.29	42063176.41	42063176.56	0.0140	0.0110
Venus	110453-08-01 07:54 G	42063402.69	42063402.83	42063403.01	0.0141	0.0095
Venus	110454-03-15 18:27 G	42063629.10	42063629.27	42063629.47	0.0141	0.0079
Venus	110454-10-28 05:30 G	42063855.53	42063855.73	42063855.93	0.0141	0.0062
Venus	110455-06-11 16:03 G	42064081.97	42064082.17	42064082.39	0.0141	0.0046
Venus	110456-01-24 03:06 G	42064308.42	42064308.63	42064308.85	0.0141	0.0030
Earth	110456-07-03 12:13 G	42064469.96	42064470.01	42064470.09	0.0142	0.0137
Moon	110456-07-03 14:08 G	42064470.08	42064470.09	42064470.13	0.0142	0.0141 *
Venus	110456-09-06 14:22 G	42064534.88	42064535.10	42064535.32	0.0142	0.0013
Venus	110457-04-21 01:54 G	42064761.36	42064761.58	42064761.80	0.0142	0.0004
Moon	110457-07-08 07:39 G	42064839.56	42064839.82	42064840.09	0.0142	0.0020
Earth	110457-07-08 10:03 G	42064839.67	42064839.92	42064840.17	0.0142	0.0026 *
Venus	110457-12-03 13:25 G	42064987.84	42064988.06	42064988.28	0.0142	0.0021
Earth	110458-07-13 08:08 G	42065209.64	42065209.84	42065210.05	0.0142	0.0087
Moon	110458-07-13 09:34 G	42065209.69	42065209.90	42065210.10	0.0142	0.0080 *
Venus	110458-07-18 00:56 G	42065214.33	42065214.54	42065214.76	0.0142	0.0038
Venus	110459-03-01 12:42 G	42065440.83	42065441.03	42065441.24	0.0142	0.0055
Venus	110459-10-14 00:42 G	42065667.35	42065667.53	42065667.73	0.0142	0.0073
Venus	110460-05-27 12:56 G	42065893.88	42065894.04	42065894.22	0.0142	0.0090
Venus	110461-01-09 01:10 G	42066120.42	42066120.55	42066120.71	0.0143	0.0107
Venus	110461-08-23 13:39 G	42066346.97	42066347.07	42066347.20	0.0143	0.0123
Venus	110462-04-07 02:08 G	42066573.57	42066573.59	42066573.66	0.0143	0.0140
Mercury	110489-10-10 13:39 G	42076621.99	42076622.07	42076622.18	0.0139	0.0120
Mercury	110490-01-06 20:51 G	42076710.25	42076710.37	42076710.52	0.0139	0.0094

Mercury	110490-04-05 04:18 G	42076798.52	42076798.68	42076798.85	0.0138	0.0067
Mercury	110490-07-02 11:30 G	42076886.81	42076886.98	42076887.17	0.0138	0.0041
Mercury	110490-09-28 18:56 G	42076975.10	42076975.29	42076975.48	0.0138	0.0013
Mercury	110490-12-26 02:22 G	42077063.41	42077063.60	42077063.78	0.0138	0.0014
Mercury	110491-03-24 09:34 G	42077151.72	42077151.90	42077152.08	0.0138	0.0040
Mercury	110491-06-20 16:46 G	42077240.04	42077240.20	42077240.37	0.0138	0.0067
Mercury	110491-09-17 00:13 G	42077328.38	42077328.51	42077328.66	0.0138	0.0094
Mercury	110491-12-14 07:25 G	42077416.74	42077416.81	42077416.92	0.0138	0.0121
Venus	110492-01-11 00:13 G	42077444.51	42077444.51	42077444.55	0.0138	0.0137
Venus	110492-08-24 07:39 G	42077670.75	42077670.82	42077670.94	0.0138	0.0123
Venus	110493-04-07 15:20 G	42077897.02	42077897.14	42077897.28	0.0138	0.0108
Venus	110493-11-19 22:18 G	42078123.29	42078123.43	42078123.60	0.0137	0.0094
Venus	110494-07-04 05:30 G	42078349.56	42078349.73	42078349.91	0.0137	0.0078
Venus	110495-02-15 11:58 G	42078575.83	42078576.00	42078576.21	0.0137	0.0064
Venus	110495-09-29 18:56 G	42078802.09	42078802.29	42078802.50	0.0137	0.0049
Venus	110496-05-13 01:25 G	42079028.35	42079028.56	42079028.77	0.0137	0.0034
Venus	110496-12-25 07:25 G	42079254.61	42079254.81	42079255.03	0.0137	0.0020
Venus	110497-08-08 13:39 G	42079480.85	42079481.07	42079481.28	0.0136	0.0005
Moon	110498-01-08 18:42 G	42079634.05	42079634.28	42079634.53	0.0136	0.0040
Earth	110498-01-08 22:18 G	42079634.20	42079634.43	42079634.68	0.0136	0.0047 *
Venus	110498-03-22 19:25 G	42079707.10	42079707.31	42079707.53	0.0136	0.0011
Venus	110498-11-04 01:25 G	42079933.35	42079933.56	42079933.77	0.0136	0.0025
Earth	110499-01-13 07:54 G	42080003.60	42080003.83	42080004.07	0.0136	0.0051
Moon	110499-01-13 11:15 G	42080003.74	42080003.97	42080004.22	0.0136	0.0044 *
Venus	110499-06-18 06:56 G	42080159.59	42080159.79	42080160.00	0.0136	0.0039
Venus	110500-01-30 12:27 G	42080385.83	42080386.02	42080386.22	0.0136	0.0053
Venus	110500-09-13 17:44 G	42080612.06	42080612.24	42080612.43	0.0136	0.0067
Venus	110501-04-27 23:01 G	42080838.30	42080838.46	42080838.64	0.0136	0.0081
Venus	110501-12-10 04:18 G	42081064.54	42081064.68	42081064.84	0.0136	0.0095
Venus	110502-07-24 09:06 G	42081290.77	42081290.88	42081291.03	0.0135	0.0109

Venus	110503-03-07 14:08 G	42081517.02	42081517.09	42081517.20	0.0135	0.0122
Venus	110503-10-19 19:10 G	42081743.30	42081743.30	42081743.34	0.0135	0.0135
Mercury	110532-10-14 13:10 G	42092331.03	42092331.05	42092331.09	0.0139	0.0136
Mercury	110533-01-10 17:01 G	42092419.14	42092419.21	42092419.29	0.0139	0.0115
Mercury	110533-04-08 20:37 G	42092507.26	42092507.36	42092507.46	0.0139	0.0095
Mercury	110533-07-06 00:13 G	42092595.40	42092595.51	42092595.62	0.0139	0.0076
Mercury	110533-10-02 03:34 G	42092683.54	42092683.65	42092683.78	0.0139	0.0057
Mercury	110533-12-29 07:25 G	42092771.68	42092771.81	42092771.94	0.0139	0.0036
Mercury	110534-03-27 11:01 G	42092859.82	42092859.96	42092860.09	0.0140	0.0017
Mercury	110534-06-23 14:22 G	42092947.97	42092948.10	42092948.24	0.0140	0.0004
Mercury	110534-09-19 17:58 G	42093036.12	42093036.25	42093036.38	0.0140	0.0023
Mercury	110534-12-16 21:20 G	42093124.27	42093124.39	42093124.52	0.0140	0.0043
Mercury	110535-03-15 00:56 G	42093212.42	42093212.54	42093212.66	0.0140	0.0062
Mercury	110535-06-11 04:18 G	42093300.58	42093300.68	42093300.79	0.0140	0.0082
Mercury	110535-09-07 07:54 G	42093388.74	42093388.83	42093388.92	0.0140	0.0101
Mercury	110535-12-04 11:15 G	42093476.91	42093476.97	42093477.04	0.0140	0.0121
Venus	110536-01-04 20:22 G	42093508.29	42093508.35	42093508.46	0.0140	0.0130
Mercury	110536-03-01 14:51 G	42093565.12	42093565.12	42093565.12	0.0140	0.0140
Venus	110536-08-18 06:42 G	42093734.66	42093734.78	42093734.91	0.0140	0.0114
Venus	110537-04-01 16:46 G	42093961.06	42093961.20	42093961.37	0.0140	0.0099
Venus	110537-11-14 03:06 G	42094187.47	42094187.63	42094187.82	0.0141	0.0083
Venus	110538-06-28 13:39 G	42094413.88	42094414.07	42094414.27	0.0141	0.0067
Venus	110539-02-10 00:27 G	42094640.31	42094640.52	42094640.73	0.0141	0.0050
Venus	110539-09-24 11:15 G	42094866.76	42094866.97	42094867.19	0.0141	0.0034
Venus	110540-05-07 22:18 G	42095093.22	42095093.43	42095093.65	0.0141	0.0018
Earth	110540-07-05 00:27 G	42095151.43	42095151.52	42095151.63	0.0141	0.0130
Moon	110540-07-04 23:44 G	42095151.45	42095151.49	42095151.58	0.0141	0.0137 *
Venus	110540-12-20 09:34 G	42095319.68	42095319.90	42095320.12	0.0142	0.0001
Earth	110541-07-09 22:03 G	42095521.17	42095521.42	42095521.68	0.0142	0.0019
Moon	110541-07-09 22:32 G	42095521.19	42095521.44	42095521.69	0.0142	0.0012 *

Venus	110541-08-03 20:51 G	42095546.15	42095546.37	42095546.59	0.0142	0.0016
Venus	110542-03-18 08:22 G	42095772.64	42095772.85	42095773.07	0.0142	0.0034
Earth	110542-07-14 20:08 G	42095891.15	42095891.34	42095891.54	0.0142	0.0093
Moon	110542-07-14 21:06 G	42095891.17	42095891.38	42095891.59	0.0142	0.0087 *
Venus	110542-10-30 19:54 G	42095999.14	42095999.33	42095999.55	0.0142	0.0051
Venus	110543-06-14 07:54 G	42096225.65	42096225.83	42096226.04	0.0142	0.0068
Venus	110544-01-26 20:08 G	42096452.17	42096452.34	42096452.52	0.0142	0.0085
Venus	110544-09-09 08:22 G	42096678.70	42096678.85	42096679.01	0.0142	0.0101
Venus	110545-04-23 20:37 G	42096905.25	42096905.36	42096905.50	0.0142	0.0119
Venus	110545-12-06 09:20 G	42097131.83	42097131.89	42097131.97	0.0143	0.0135
Mars	110553-03-12 11:30 G	42099784.83	42099784.98	42099785.17	0.0143	0.0124
Mercury	110573-10-31 20:37 G	42107323.27	42107323.36	42107323.48	0.0139	0.0114
Mercury	110574-01-28 04:03 G	42107411.53	42107411.67	42107411.82	0.0139	0.0087
Mercury	110574-04-26 11:15 G	42107499.81	42107499.97	42107500.15	0.0139	0.0061
Mercury	110574-07-23 18:42 G	42107588.10	42107588.28	42107588.46	0.0138	0.0034
Mercury	110574-10-20 01:54 G	42107676.40	42107676.58	42107676.77	0.0138	0.0008
Mercury	110575-01-16 09:20 G	42107764.70	42107764.89	42107765.08	0.0138	0.0020
Jupiter	110575-02-17 22:32 G	42107796.97	42107797.44	42107797.96	0.0138	0.0045
Mercury	110575-04-14 16:32 G	42107853.02	42107853.19	42107853.37	0.0138	0.0047
Mercury	110575-07-11 23:58 G	42107941.34	42107941.50	42107941.66	0.0138	0.0073
Mercury	110575-10-08 07:10 G	42108029.68	42108029.80	42108029.94	0.0138	0.0101
Mercury	110576-01-04 14:37 G	42108118.05	42108118.11	42108118.19	0.0138	0.0127
Venus	110576-04-24 16:32 G	42108229.12	42108229.19	42108229.29	0.0138	0.0127
Venus	110576-12-06 23:58 G	42108455.39	42108455.50	42108455.64	0.0138	0.0113
Venus	110577-07-21 07:25 G	42108681.66	42108681.81	42108681.97	0.0138	0.0098
Venus	110578-03-04 14:08 G	42108907.94	42108908.09	42108908.28	0.0137	0.0084
Venus	110578-10-16 21:20 G	42109134.22	42109134.39	42109134.59	0.0137	0.0069
Venus	110579-05-31 04:18 G	42109360.48	42109360.68	42109360.88	0.0137	0.0053
Venus	110580-01-12 10:32 G	42109586.74	42109586.94	42109587.16	0.0137	0.0039
Venus	110580-08-25 17:01 G	42109813.00	42109813.21	42109813.42	0.0137	0.0024

Venus	110581-04-08 23:15 G	42110039.25	42110039.47	42110039.68	0.0137	0.0009
Venus	110581-11-21 05:15 G	42110265.51	42110265.72	42110265.94	0.0136	0.0006
Earth	110582-01-10 08:08 G	42110315.62	42110315.84	42110316.10	0.0136	0.0043
Moon	110582-01-10 11:44 G	42110315.76	42110315.99	42110316.24	0.0136	0.0034 *
Venus	110582-07-05 11:15 G	42110491.76	42110491.97	42110492.18	0.0136	0.0020
Moon	110583-01-14 14:51 G	42110684.89	42110685.12	42110685.37	0.0136	0.0048
Earth	110583-01-14 17:58 G	42110685.03	42110685.25	42110685.49	0.0136	0.0056 *
Venus	110583-02-16 17:01 G	42110718.00	42110718.21	42110718.41	0.0136	0.0035
Venus	110583-09-30 22:32 G	42110944.24	42110944.44	42110944.64	0.0136	0.0049
Venus	110584-05-14 04:03 G	42111170.48	42111170.67	42111170.86	0.0136	0.0063
Venus	110584-12-26 09:34 G	42111396.72	42111396.90	42111397.07	0.0136	0.0077
Venus	110585-08-09 14:37 G	42111622.96	42111623.11	42111623.28	0.0136	0.0091
Venus	110586-03-23 19:39 G	42111849.20	42111849.32	42111849.47	0.0136	0.0105
Venus	110586-11-05 01:10 G	42112075.45	42112075.55	42112075.66	0.0135	0.0118
Venus	110587-06-19 06:27 G	42112301.72	42112301.77	42112301.82	0.0135	0.0131
Mars	110595-08-02 14:51 G	42115267.85	42115268.12	42115268.40	0.0135	0.0033
Mercury	110616-11-04 20:51 G	42123032.33	42123032.37	42123032.43	0.0139	0.0129
Mercury	110617-02-01 00:42 G	42123120.45	42123120.53	42123120.62	0.0139	0.0108
Mercury	110617-04-30 04:18 G	42123208.58	42123208.68	42123208.79	0.0139	0.0088
Mercury	110617-07-27 07:54 G	42123296.71	42123296.83	42123296.95	0.0139	0.0069
Mercury	110617-10-23 11:15 G	42123384.85	42123384.97	42123385.11	0.0139	0.0050
Mercury	110618-01-19 15:06 G	42123472.99	42123473.13	42123473.26	0.0140	0.0029
Mercury	110618-04-17 18:27 G	42123561.14	42123561.27	42123561.41	0.0140	0.0011
Mercury	110618-07-14 22:03 G	42123649.29	42123649.42	42123649.56	0.0140	0.0010
Mercury	110618-10-11 01:39 G	42123737.44	42123737.57	42123737.70	0.0140	0.0030
Mercury	110619-01-07 05:01 G	42123825.59	42123825.71	42123825.84	0.0140	0.0050
Mercury	110619-04-05 08:37 G	42123913.74	42123913.86	42123913.98	0.0140	0.0069
Mercury	110619-07-02 11:58 G	42124001.90	42124002.00	42124002.11	0.0140	0.0089
Venus	110619-09-05 05:58 G	42124066.68	42124066.75	42124066.81	0.0140	0.0133
Mercury	110619-09-28 15:20 G	42124090.07	42124090.14	42124090.23	0.0140	0.0108

Mercury	110619-12-25 18:56 G	42124178.24	42124178.29	42124178.35	0.0140	0.0127
Venus	110620-04-18 15:49 G	42124293.04	42124293.16	42124293.28	0.0140	0.0118
Venus	110620-12-01 01:25 G	42124519.43	42124519.56	42124519.72	0.0140	0.0103
Venus	110621-07-15 11:44 G	42124745.82	42124745.99	42124746.17	0.0141	0.0087
Venus	110622-02-26 22:03 G	42124972.24	42124972.42	42124972.62	0.0141	0.0071
Venus	110622-10-11 08:37 G	42125198.66	42125198.86	42125199.07	0.0141	0.0055
Venus	110623-05-25 19:25 G	42125425.10	42125425.31	42125425.53	0.0141	0.0039
Venus	110624-01-07 06:13 G	42125651.55	42125651.76	42125651.99	0.0141	0.0023
Moon	110624-07-06 10:03 G	42125832.84	42125832.92	42125833.03	0.0141	0.0130
Earth	110624-07-06 12:56 G	42125832.92	42125833.04	42125833.17	0.0141	0.0123 *
Venus	110624-08-20 17:30 G	42125878.01	42125878.23	42125878.45	0.0141	0.0005
Venus	110625-04-04 04:46 G	42126104.48	42126104.70	42126104.93	0.0142	0.0012
Earth	110625-07-11 10:32 G	42126202.68	42126202.94	42126203.19	0.0142	0.0012
Moon	110625-07-11 13:10 G	42126202.79	42126203.05	42126203.32	0.0142	0.0009 *
Venus	110625-11-16 16:18 G	42126330.97	42126331.18	42126331.40	0.0142	0.0029
Venus	110626-07-01 03:49 G	42126557.46	42126557.66	42126557.88	0.0142	0.0046
Moon	110626-07-16 05:01 G	42126572.55	42126572.71	42126572.90	0.0142	0.0102
Earth	110626-07-16 08:37 G	42126572.69	42126572.86	42126573.05	0.0142	0.0100 *
Venus	110627-02-12 15:34 G	42126783.96	42126784.15	42126784.36	0.0142	0.0063
Venus	110627-09-27 03:34 G	42127010.48	42127010.65	42127010.84	0.0142	0.0080
Venus	110628-05-10 15:49 G	42127237.01	42127237.16	42127237.34	0.0142	0.0097
Venus	110628-12-23 04:18 G	42127463.56	42127463.68	42127463.82	0.0142	0.0114
Venus	110629-08-06 16:32 G	42127690.12	42127690.19	42127690.29	0.0142	0.0131
Mars	110637-11-08 05:58 G	42130705.44	42130705.75	42130706.06	0.0143	0.0063
Mercury	110657-08-25 21:20 G	42137936.34	42137936.39	42137936.46	0.0139	0.0131
Mercury	110657-11-22 04:32 G	42138024.58	42138024.69	42138024.82	0.0139	0.0105
Mercury	110658-02-18 11:44 G	42138112.85	42138112.99	42138113.15	0.0139	0.0079
Mercury	110658-05-17 19:10 G	42138201.13	42138201.30	42138201.47	0.0139	0.0052
Mercury	110658-08-14 02:22 G	42138289.42	42138289.60	42138289.79	0.0138	0.0025
Mercury	110658-11-10 09:49 G	42138377.72	42138377.91	42138378.10	0.0138	0.0003

Mercury	110659-02-06 17:01 G	42138466.03	42138466.21	42138466.40	0.0138	0.0028
Mercury	110659-05-06 00:13 G	42138554.35	42138554.51	42138554.69	0.0138	0.0055
Mercury	110659-08-02 07:39 G	42138642.67	42138642.82	42138642.98	0.0138	0.0082
Mercury	110659-10-29 14:51 G	42138731.02	42138731.12	42138731.25	0.0138	0.0109
Venus	110659-12-25 02:22 G	42138787.55	42138787.60	42138787.68	0.0138	0.0131
Mercury	110660-01-25 22:18 G	42138819.41	42138819.43	42138819.47	0.0138	0.0136
Venus	110660-08-07 09:49 G	42139013.81	42139013.91	42139014.04	0.0138	0.0117
Venus	110661-03-21 17:15 G	42139240.09	42139240.22	42139240.37	0.0138	0.0102
Venus	110661-11-03 00:27 G	42139466.37	42139466.52	42139466.70	0.0138	0.0087
Venus	110662-06-17 07:25 G	42139692.64	42139692.81	42139693.00	0.0137	0.0073
Venus	110663-01-29 14:22 G	42139918.90	42139919.10	42139919.30	0.0137	0.0057
Venus	110663-09-12 20:37 G	42140145.17	42140145.36	42140145.58	0.0137	0.0044
Venus	110664-04-26 03:20 G	42140371.43	42140371.64	42140371.85	0.0137	0.0028
Venus	110664-12-08 09:34 G	42140597.69	42140597.90	42140598.12	0.0137	0.0013
Earth	110665-01-07 09:34 G	42140627.87	42140627.90	42140627.96	0.0137	0.0134
Venus	110665-07-22 15:49 G	42140823.94	42140824.16	42140824.37	0.0137	0.0002
Moon	110666-01-11 19:39 G	42140997.08	42140997.32	42140997.58	0.0136	0.0033
Earth	110666-01-11 19:54 G	42140997.10	42140997.33	42140997.58	0.0136	0.0037 *
Venus	110666-03-05 21:34 G	42141050.19	42141050.40	42141050.62	0.0136	0.0017
Venus	110666-10-18 03:34 G	42141276.45	42141276.65	42141276.86	0.0136	0.0031
Moon	110667-01-16 05:15 G	42141366.51	42141366.72	42141366.94	0.0136	0.0062
Earth	110667-01-16 05:30 G	42141366.52	42141366.73	42141366.97	0.0136	0.0061 *
Venus	110667-06-01 09:20 G	42141502.69	42141502.89	42141503.09	0.0136	0.0045
Venus	110668-01-13 14:37 G	42141728.93	42141729.11	42141729.32	0.0136	0.0060
Venus	110668-08-26 20:08 G	42141955.17	42141955.34	42141955.53	0.0136	0.0074
Venus	110669-04-10 01:25 G	42142181.41	42142181.56	42142181.74	0.0136	0.0088
Venus	110669-11-22 06:56 G	42142407.66	42142407.79	42142407.94	0.0136	0.0101
Venus	110670-07-06 12:13 G	42142633.91	42142634.01	42142634.13	0.0136	0.0115
Venus	110671-02-17 17:15 G	42142860.16	42142860.22	42142860.30	0.0135	0.0128
Mars	110680-03-27 19:39 G	42146186.14	42146186.32	42146186.55	0.0135	0.0092

Mercury	110700-11-26 04:46 G	42153733.64	42153733.70	42153733.76	0.0139	0.0121
Mercury	110701-02-22 08:22 G	42153821.76	42153821.85	42153821.94	0.0139	0.0102
Mercury	110701-05-21 11:58 G	42153909.89	42153910.00	42153910.11	0.0139	0.0082
Mercury	110701-08-17 15:20 G	42153998.03	42153998.14	42153998.27	0.0139	0.0063
Mercury	110701-11-13 18:56 G	42154086.17	42154086.29	42154086.43	0.0140	0.0043
Mercury	110702-02-09 22:32 G	42154174.31	42154174.44	42154174.58	0.0140	0.0023
Mercury	110702-05-09 02:08 G	42154262.46	42154262.59	42154262.73	0.0140	0.0003
Mercury	110702-08-05 05:44 G	42154350.60	42154350.74	42154350.87	0.0140	0.0017
Mercury	110702-11-01 09:06 G	42154438.76	42154438.88	42154439.01	0.0140	0.0037
Mercury	110703-01-28 12:42 G	42154526.91	42154527.03	42154527.15	0.0140	0.0056
Mercury	110703-04-26 16:18 G	42154615.06	42154615.18	42154615.29	0.0140	0.0075
Venus	110703-05-06 14:22 G	42154625.07	42154625.10	42154625.16	0.0140	0.0137
Mercury	110703-07-23 19:25 G	42154703.22	42154703.31	42154703.42	0.0140	0.0096
Mercury	110703-10-19 23:01 G	42154791.39	42154791.46	42154791.54	0.0140	0.0114
Venus	110703-12-18 23:58 G	42154851.41	42154851.50	42154851.62	0.0140	0.0122
Mercury	110704-01-16 02:37 G	42154879.57	42154879.61	42154879.65	0.0140	0.0134
Venus	110704-08-01 09:49 G	42155077.78	42155077.91	42155078.06	0.0140	0.0107
Venus	110705-03-15 19:54 G	42155304.18	42155304.33	42155304.51	0.0141	0.0092
Venus	110705-10-28 06:13 G	42155530.59	42155530.76	42155530.96	0.0141	0.0076
Venus	110706-06-11 16:32 G	42155757.01	42155757.19	42155757.40	0.0141	0.0060
Venus	110707-01-24 03:20 G	42155983.43	42155983.64	42155983.85	0.0141	0.0043
Venus	110707-09-07 14:08 G	42156209.88	42156210.09	42156210.31	0.0141	0.0027
Venus	110708-04-21 01:25 G	42156436.34	42156436.56	42156436.78	0.0141	0.0010
Earth	110708-07-08 00:42 G	42156514.39	42156514.53	42156514.68	0.0141	0.0116
Moon	110708-07-08 04:18 G	42156514.54	42156514.68	42156514.83	0.0141	0.0116 *
Venus	110708-12-03 12:27 G	42156662.80	42156663.02	42156663.24	0.0142	0.0007
Moon	110709-07-12 19:10 G	42156884.05	42156884.30	42156884.57	0.0142	0.0010
Earth	110709-07-12 22:32 G	42156884.18	42156884.44	42156884.69	0.0142	0.0005 *
Venus	110709-07-17 23:44 G	42156889.28	42156889.49	42156889.71	0.0142	0.0024
Venus	110710-03-01 11:15 G	42157115.76	42157115.97	42157116.19	0.0142	0.0041

Earth	110710-07-17 20:37 G	42157254.20	42157254.36	42157254.53	0.0142	0.0107
Moon	110710-07-17 23:44 G	42157254.35	42157254.49	42157254.64	0.0142	0.0115 *
Venus	110710-10-13 23:01 G	42157342.26	42157342.46	42157342.67	0.0142	0.0058
Venus	110711-05-28 11:01 G	42157568.78	42157568.96	42157569.16	0.0142	0.0075
Venus	110712-01-09 23:01 G	42157795.30	42157795.46	42157795.64	0.0142	0.0092
Venus	110712-08-23 11:30 G	42158021.84	42158021.98	42158022.12	0.0142	0.0109
Venus	110713-04-06 23:44 G	42158248.39	42158248.49	42158248.60	0.0142	0.0126
Venus	110713-11-19 12:13 G	42158475.00	42158475.01	42158475.04	0.0142	0.0142
Mercury	110741-09-16 05:01 G	42168637.63	42168637.71	42168637.80	0.0139	0.0123
Mercury	110741-12-13 12:13 G	42168725.88	42168726.01	42168726.14	0.0139	0.0097
Mercury	110742-03-11 19:10 G	42168814.15	42168814.30	42168814.47	0.0139	0.0071
Mercury	110742-06-08 02:22 G	42168902.44	42168902.60	42168902.79	0.0139	0.0045
Mercury	110742-09-04 09:49 G	42168990.73	42168990.91	42168991.10	0.0138	0.0018
Mercury	110742-12-01 17:15 G	42169079.03	42169079.22	42169079.41	0.0138	0.0009
Mercury	110743-02-28 00:27 G	42169167.34	42169167.52	42169167.70	0.0138	0.0036
Mercury	110743-05-27 07:54 G	42169255.66	42169255.83	42169256.00	0.0138	0.0063
Mercury	110743-08-23 15:06 G	42169343.99	42169344.13	42169344.28	0.0138	0.0090
Venus	110743-08-25 11:58 G	42169345.96	42169346.00	42169346.03	0.0138	0.0136
Mercury	110743-11-19 22:32 G	42169432.34	42169432.44	42169432.54	0.0138	0.0116
Venus	110744-04-07 19:10 G	42169572.21	42169572.30	42169572.42	0.0138	0.0121
Venus	110744-11-20 02:37 G	42169798.49	42169798.61	42169798.76	0.0138	0.0107
Venus	110745-07-04 09:49 G	42170024.76	42170024.91	42170025.08	0.0138	0.0092
Venus	110746-02-15 17:15 G	42170251.04	42170251.22	42170251.39	0.0138	0.0077
Venus	110746-09-29 23:44 G	42170477.31	42170477.49	42170477.70	0.0137	0.0063
Venus	110747-05-14 06:42 G	42170703.58	42170703.78	42170703.99	0.0137	0.0047
Venus	110747-12-26 13:10 G	42170929.84	42170930.05	42170930.26	0.0137	0.0032
Venus	110748-08-08 19:25 G	42171156.10	42171156.31	42171156.53	0.0137	0.0018
Earth	110749-01-08 20:22 G	42171309.29	42171309.35	42171309.45	0.0137	0.0129
Moon	110749-01-08 23:30 G	42171309.40	42171309.48	42171309.59	0.0137	0.0126 *
Venus	110749-03-23 01:39 G	42171382.36	42171382.57	42171382.79	0.0137	0.0004

Venus	110749-11-04 07:54 G	42171608.62	42171608.83	42171609.05	0.0137	0.0012
Moon	110750-01-13 04:18 G	42171678.45	42171678.68	42171678.92	0.0136	0.0035
Earth	110750-01-13 06:56 G	42171678.55	42171678.79	42171679.04	0.0136	0.0030 *
Venus	110750-06-18 13:54 G	42171834.87	42171835.08	42171835.29	0.0136	0.0027
Earth	110751-01-17 16:46 G	42172047.98	42172048.20	42172048.42	0.0136	0.0067
Moon	110751-01-17 19:39 G	42172048.12	42172048.32	42172048.55	0.0136	0.0074 *
Venus	110751-01-30 19:39 G	42172061.12	42172061.32	42172061.53	0.0136	0.0041
Venus	110751-09-14 01:25 G	42172287.36	42172287.56	42172287.75	0.0136	0.0056
Venus	110752-04-27 06:42 G	42172513.61	42172513.78	42172513.97	0.0136	0.0070
Venus	110752-12-09 12:13 G	42172739.86	42172740.01	42172740.19	0.0136	0.0084
Venus	110753-07-23 17:30 G	42172966.10	42172966.23	42172966.39	0.0136	0.0098
Venus	110754-03-06 23:01 G	42173192.35	42173192.46	42173192.59	0.0136	0.0111
Venus	110754-10-19 04:03 G	42173418.60	42173418.67	42173418.77	0.0136	0.0125
Mars	110762-12-23 01:39 G	42176405.42	42176405.57	42176405.73	0.0135	0.0112
Mercury	110784-09-19 08:37 G	42184346.83	42184346.86	42184346.89	0.0139	0.0135
Mercury	110784-12-16 12:13 G	42184434.94	42184435.01	42184435.08	0.0139	0.0116
Mercury	110785-03-14 15:49 G	42184523.06	42184523.16	42184523.26	0.0139	0.0096
Mercury	110785-06-10 19:10 G	42184611.20	42184611.30	42184611.42	0.0139	0.0077
Mercury	110785-09-06 22:46 G	42184699.33	42184699.45	42184699.58	0.0139	0.0057
Mercury	110785-12-04 02:22 G	42184787.47	42184787.60	42184787.74	0.0140	0.0037
Mercury	110786-03-02 05:58 G	42184875.62	42184875.75	42184875.89	0.0140	0.0017
Mercury	110786-05-29 09:34 G	42184963.76	42184963.90	42184964.03	0.0140	0.0003
Mercury	110786-08-25 12:56 G	42185051.91	42185052.04	42185052.18	0.0140	0.0023
Mercury	110786-11-21 16:32 G	42185140.06	42185140.19	42185140.32	0.0140	0.0042
Mercury	110787-02-17 20:08 G	42185228.22	42185228.34	42185228.46	0.0140	0.0061
Mercury	110787-05-16 23:30 G	42185316.38	42185316.48	42185316.59	0.0140	0.0081
Mercury	110787-08-13 03:06 G	42185404.54	42185404.63	42185404.72	0.0140	0.0100
Venus	110787-08-18 08:22 G	42185409.76	42185409.85	42185409.94	0.0140	0.0126
Mercury	110787-11-09 06:13 G	42185492.71	42185492.76	42185492.84	0.0140	0.0120
Mercury	110788-02-05 09:49 G	42185580.91	42185580.91	42185580.93	0.0140	0.0139

Venus	110788-03-31 17:58 G	42185636.13	42185636.25	42185636.39	0.0140	0.0112
Venus	110788-11-13 03:49 G	42185862.51	42185862.66	42185862.83	0.0140	0.0096
Venus	110789-06-27 13:54 G	42186088.91	42186089.08	42186089.27	0.0141	0.0081
Venus	110790-02-08 23:58 G	42186315.32	42186315.50	42186315.71	0.0141	0.0065
Venus	110790-09-23 10:32 G	42186541.74	42186541.94	42186542.16	0.0141	0.0049
Venus	110791-05-07 21:20 G	42186768.19	42186768.39	42186768.62	0.0141	0.0033
Venus	110791-12-20 08:22 G	42186994.63	42186994.85	42186995.07	0.0141	0.0015
Moon	110792-07-08 09:20 G	42187195.74	42187195.89	42187196.09	0.0141	0.0105
Earth	110792-07-08 11:44 G	42187195.83	42187195.99	42187196.15	0.0141	0.0110 *
Venus	110792-08-02 19:25 G	42187221.09	42187221.31	42187221.54	0.0141	0.0003
Venus	110793-03-17 06:42 G	42187447.57	42187447.78	42187448.00	0.0142	0.0019
Earth	110793-07-13 09:20 G	42187565.63	42187565.89	42187566.15	0.0142	0.0002
Moon	110793-07-13 10:03 G	42187565.68	42187565.92	42187566.17	0.0142	0.0007 *
Venus	110793-10-29 18:13 G	42187674.05	42187674.26	42187674.48	0.0142	0.0036
Venus	110794-06-13 05:58 G	42187900.55	42187900.75	42187900.96	0.0142	0.0053
Moon	110794-07-18 06:13 G	42187935.64	42187935.76	42187935.92	0.0142	0.0120
Earth	110794-07-18 07:39 G	42187935.67	42187935.82	42187935.97	0.0142	0.0113 *
Venus	110795-01-25 17:30 G	42188127.05	42188127.23	42188127.44	0.0142	0.0070
Venus	110795-09-09 05:30 G	42188353.57	42188353.73	42188353.92	0.0142	0.0087
Venus	110796-04-22 17:58 G	42188580.10	42188580.25	42188580.40	0.0142	0.0104
Venus	110796-12-05 05:58 G	42188806.65	42188806.75	42188806.88	0.0142	0.0121
Venus	110797-07-19 18:42 G	42189033.22	42189033.28	42189033.34	0.0142	0.0137
Mars	110805-03-26 07:10 G	42191839.49	42191839.80	42191840.10	0.0143	0.0063
Mercury	110825-10-06 12:42 G	42199338.93	42199339.03	42199339.14	0.0139	0.0115
Mercury	110826-01-02 19:39 G	42199427.19	42199427.32	42199427.47	0.0139	0.0089
Mercury	110826-04-01 02:51 G	42199515.47	42199515.62	42199515.80	0.0139	0.0063
Mercury	110826-06-28 10:18 G	42199603.75	42199603.93	42199604.11	0.0139	0.0036
Mercury	110826-09-24 17:30 G	42199692.05	42199692.23	42199692.42	0.0138	0.0010
Mercury	110826-12-22 00:56 G	42199780.35	42199780.54	42199780.73	0.0138	0.0018
Mercury	110827-03-20 08:08 G	42199868.67	42199868.84	42199869.02	0.0138	0.0044

Mercury	110827-06-16 15:20 G	42199956.99	42199957.14	42199957.31	0.0138	0.0071
Mercury	110827-09-12 22:32 G	42200045.32	42200045.44	42200045.59	0.0138	0.0099
Venus	110827-12-07 05:15 G	42200130.64	42200130.72	42200130.81	0.0138	0.0125
Mercury	110827-12-10 05:58 G	42200133.69	42200133.75	42200133.84	0.0138	0.0125
Venus	110828-07-20 12:27 G	42200356.91	42200357.02	42200357.16	0.0138	0.0111
Venus	110829-03-03 20:08 G	42200583.19	42200583.34	42200583.49	0.0138	0.0096
Venus	110829-10-16 03:06 G	42200809.47	42200809.63	42200809.82	0.0138	0.0082
Venus	110830-05-30 10:03 G	42201035.74	42201035.92	42201036.12	0.0137	0.0067
Venus	110831-01-11 17:01 G	42201262.01	42201262.21	42201262.41	0.0137	0.0052
Venus	110831-08-25 23:30 G	42201488.28	42201488.48	42201488.69	0.0137	0.0037
Venus	110832-04-08 05:58 G	42201714.54	42201714.75	42201714.97	0.0137	0.0022
Venus	110832-11-20 12:27 G	42201940.81	42201941.02	42201941.24	0.0137	0.0007
Moon	110833-01-09 04:46 G	42201990.58	42201990.70	42201990.85	0.0137	0.0115
Earth	110833-01-09 08:22 G	42201990.76	42201990.85	42201990.98	0.0137	0.0122 *
Venus	110833-07-04 18:42 G	42202167.07	42202167.28	42202167.49	0.0137	0.0008
Earth	110834-01-13 18:56 G	42202360.05	42202360.29	42202360.54	0.0136	0.0024
Moon	110834-01-13 22:03 G	42202360.19	42202360.42	42202360.68	0.0136	0.0032 *
Venus	110834-02-16 00:42 G	42202393.32	42202393.53	42202393.74	0.0136	0.0023
Venus	110834-09-30 06:27 G	42202619.57	42202619.77	42202619.98	0.0136	0.0038
Moon	110835-01-18 01:10 G	42202729.35	42202729.55	42202729.76	0.0136	0.0081
Earth	110835-01-18 04:46 G	42202729.50	42202729.70	42202729.92	0.0136	0.0074 *
Venus	110835-05-14 12:27 G	42202845.82	42202846.02	42202846.22	0.0136	0.0052
Venus	110835-12-26 17:58 G	42203072.07	42203072.25	42203072.44	0.0136	0.0066
Venus	110836-08-08 23:30 G	42203298.31	42203298.48	42203298.66	0.0136	0.0080
Venus	110837-03-23 04:46 G	42203524.56	42203524.70	42203524.87	0.0136	0.0094
Venus	110837-11-04 10:18 G	42203750.81	42203750.93	42203751.07	0.0136	0.0108
Venus	110838-06-18 15:34 G	42203977.07	42203977.15	42203977.26	0.0136	0.0121
Venus	110839-01-30 20:37 G	42204203.34	42204203.36	42204203.40	0.0136	0.0134
Mars	110847-08-17 06:56 G	42207323.52	42207323.79	42207324.08	0.0135	0.0015
Mercury	110868-10-09 16:03 G	42215048.12	42215048.17	42215048.22	0.0139	0.0130

Mercury	110869-01-05 19:25 G	42215136.24	42215136.31	42215136.40	0.0139	0.0110
Mercury	110869-04-03 23:01 G	42215224.37	42215224.46	42215224.57	0.0139	0.0091
Mercury	110869-07-01 02:51 G	42215312.50	42215312.62	42215312.74	0.0139	0.0070
Mercury	110869-09-27 06:27 G	42215400.64	42215400.77	42215400.89	0.0139	0.0051
Mercury	110869-12-24 09:49 G	42215488.78	42215488.91	42215489.05	0.0139	0.0031
Mercury	110870-03-22 13:25 G	42215576.93	42215577.06	42215577.20	0.0140	0.0012
Mercury	110870-06-18 17:01 G	42215665.07	42215665.21	42215665.34	0.0140	0.0008
Mercury	110870-09-14 20:22 G	42215753.22	42215753.35	42215753.49	0.0140	0.0028
Mercury	110870-12-11 23:58 G	42215841.37	42215841.50	42215841.63	0.0140	0.0047
Mercury	110871-03-10 03:20 G	42215929.53	42215929.64	42215929.76	0.0140	0.0067
Venus	110871-04-17 16:18 G	42215968.12	42215968.18	42215968.26	0.0140	0.0131
Mercury	110871-06-06 06:56 G	42216017.69	42216017.79	42216017.90	0.0140	0.0086
Mercury	110871-09-02 10:18 G	42216105.85	42216105.93	42216106.02	0.0140	0.0106
Mercury	110871-11-29 13:39 G	42216194.02	42216194.07	42216194.14	0.0140	0.0125
Venus	110871-11-30 01:54 G	42216194.47	42216194.58	42216194.71	0.0140	0.0116
Venus	110872-07-13 11:30 G	42216420.84	42216420.98	42216421.14	0.0140	0.0101
Venus	110873-02-24 21:34 G	42216647.23	42216647.40	42216647.58	0.0140	0.0086
Venus	110873-10-09 07:39 G	42216873.64	42216873.82	42216874.02	0.0141	0.0070
Venus	110874-05-23 17:58 G	42217100.06	42217100.25	42217100.46	0.0141	0.0054
Venus	110875-01-05 04:46 G	42217326.49	42217326.70	42217326.91	0.0141	0.0037
Venus	110875-08-19 15:20 G	42217552.93	42217553.14	42217553.37	0.0141	0.0021
Venus	110876-04-02 02:37 G	42217779.39	42217779.61	42217779.83	0.0141	0.0004
Moon	110876-07-08 20:51 G	42217877.20	42217877.37	42217877.56	0.0141	0.0098
Earth	110876-07-08 22:18 G	42217877.26	42217877.43	42217877.61	0.0141	0.0104 *
Venus	110876-11-14 13:39 G	42218005.85	42218006.07	42218006.30	0.0141	0.0014
Venus	110877-06-29 00:56 G	42218232.33	42218232.54	42218232.76	0.0142	0.0031
Earth	110877-07-13 19:54 G	42218247.08	42218247.33	42218247.59	0.0142	0.0008
Moon	110877-07-13 22:03 G	42218247.16	42218247.42	42218247.69	0.0142	0.0003 *
Venus	110878-02-10 12:27 G	42218458.82	42218459.02	42218459.23	0.0142	0.0047
Moon	110878-07-18 15:49 G	42218617.05	42218617.16	42218617.31	0.0142	0.0121

Earth	110878-07-18 18:13 G	42218617.12	42218617.26	42218617.40	0.0142	0.0119 *
Venus	110878-09-25 00:13 G	42218685.32	42218685.51	42218685.71	0.0142	0.0064
Venus	110879-05-09 12:13 G	42218911.83	42218912.01	42218912.19	0.0142	0.0081
Venus	110879-12-21 23:58 G	42219138.35	42219138.50	42219138.67	0.0142	0.0098
Venus	110880-08-04 12:27 G	42219364.89	42219365.02	42219365.15	0.0142	0.0115
Venus	110881-03-19 00:13 G	42219591.44	42219591.51	42219591.61	0.0142	0.0132
Mars	110889-11-20 17:15 G	42222760.07	42222760.22	42222760.44	0.0143	0.0120
Mercury	110909-07-31 12:13 G	42229951.99	42229952.01	42229952.06	0.0139	0.0136
Mercury	110909-10-27 19:39 G	42230040.21	42230040.32	42230040.43	0.0139	0.0109
Mercury	110910-01-24 02:51 G	42230128.47	42230128.62	42230128.77	0.0139	0.0083
Mercury	110910-04-22 09:49 G	42230216.75	42230216.91	42230217.09	0.0139	0.0057
Mercury	110910-07-19 17:15 G	42230305.04	42230305.22	42230305.40	0.0139	0.0030
Mercury	110910-10-16 00:27 G	42230393.33	42230393.52	42230393.71	0.0138	0.0004
Mercury	110911-01-12 07:39 G	42230481.64	42230481.82	42230482.01	0.0138	0.0023
Mercury	110911-04-10 14:51 G	42230569.95	42230570.12	42230570.30	0.0138	0.0050
Mercury	110911-07-07 22:18 G	42230658.28	42230658.43	42230658.59	0.0138	0.0077
Venus	110911-08-07 13:25 G	42230688.99	42230689.06	42230689.13	0.0138	0.0131
Mercury	110911-10-04 05:44 G	42230746.62	42230746.74	42230746.87	0.0138	0.0103
Mercury	110911-12-31 12:56 G	42230834.99	42230835.04	42230835.11	0.0138	0.0130
Venus	110912-03-20 20:51 G	42230915.27	42230915.37	42230915.50	0.0138	0.0116
Venus	110912-11-02 04:32 G	42231141.55	42231141.69	42231141.84	0.0138	0.0101
Venus	110913-06-16 11:30 G	42231367.83	42231367.98	42231368.17	0.0138	0.0087
Venus	110914-01-28 18:42 G	42231594.11	42231594.28	42231594.48	0.0138	0.0072
Venus	110914-09-12 01:54 G	42231820.39	42231820.58	42231820.78	0.0137	0.0057
Venus	110915-04-26 08:37 G	42232046.66	42232046.86	42232047.07	0.0137	0.0042
Venus	110915-12-08 15:20 G	42232272.93	42232273.14	42232273.35	0.0137	0.0026
Venus	110916-07-21 21:49 G	42232499.20	42232499.41	42232499.63	0.0137	0.0012
Earth	110917-01-10 18:27 G	42232672.16	42232672.27	42232672.41	0.0137	0.0117
Moon	110917-01-10 20:22 G	42232672.23	42232672.35	42232672.52	0.0137	0.0111 *
Venus	110917-03-05 04:03 G	42232725.46	42232725.67	42232725.89	0.0137	0.0004

Venus	110917-10-17 10:18 G	42232951.72	42232951.93	42232952.15	0.0137	0.0019
Moon	110918-01-15 03:34 G	42233041.40	42233041.65	42233041.91	0.0137	0.0022
Earth	110918-01-15 05:15 G	42233041.47	42233041.72	42233041.97	0.0137	0.0019 *
Venus	110918-05-31 16:32 G	42233177.98	42233178.19	42233178.40	0.0136	0.0033
Venus	110919-01-12 22:18 G	42233404.23	42233404.43	42233404.63	0.0136	0.0047
Earth	110919-01-19 14:51 G	42233410.93	42233411.12	42233411.34	0.0136	0.0079
Moon	110919-01-19 17:01 G	42233411.02	42233411.21	42233411.41	0.0136	0.0081 *
Venus	110919-08-27 04:03 G	42233630.48	42233630.67	42233630.86	0.0136	0.0062
Venus	110920-04-09 09:34 G	42233856.73	42233856.90	42233857.09	0.0136	0.0076
Venus	110920-11-21 15:06 G	42234082.99	42234083.13	42234083.31	0.0136	0.0090
Venus	110921-07-05 20:37 G	42234309.24	42234309.36	42234309.51	0.0136	0.0104
Venus	110922-02-17 01:54 G	42234535.49	42234535.58	42234535.70	0.0136	0.0117
Venus	110922-10-01 07:10 G	42234761.75	42234761.80	42234761.87	0.0136	0.0130
Mercury	110952-10-30 23:15 G	42245749.42	42245749.47	42245749.54	0.0139	0.0124
Mercury	110953-01-27 02:51 G	42245837.54	42245837.62	42245837.72	0.0139	0.0105
Mercury	110953-04-25 06:27 G	42245925.67	42245925.77	42245925.88	0.0139	0.0085
Mercury	110953-07-22 10:03 G	42246013.81	42246013.92	42246014.05	0.0139	0.0065
Mercury	110953-10-18 13:39 G	42246101.95	42246102.07	42246102.20	0.0139	0.0045
Mercury	110954-01-14 17:15 G	42246190.09	42246190.22	42246190.35	0.0139	0.0026
Mercury	110954-04-12 20:51 G	42246278.23	42246278.37	42246278.50	0.0140	0.0007
Mercury	110954-07-10 00:13 G	42246366.38	42246366.51	42246366.65	0.0140	0.0014
Mercury	110954-10-06 03:49 G	42246454.53	42246454.66	42246454.79	0.0140	0.0033
Venus	110954-12-16 23:58 G	42246526.47	42246526.50	42246526.57	0.0140	0.0136
Mercury	110955-01-02 07:10 G	42246542.68	42246542.80	42246542.93	0.0140	0.0053
Mercury	110955-03-31 10:46 G	42246630.84	42246630.95	42246631.07	0.0140	0.0072
Mercury	110955-06-27 14:22 G	42246719.00	42246719.10	42246719.20	0.0140	0.0091
Venus	110955-07-31 09:34 G	42246752.80	42246752.90	42246753.02	0.0140	0.0121
Mercury	110955-09-23 17:30 G	42246807.16	42246807.23	42246807.32	0.0140	0.0111
Mercury	110955-12-20 21:06 G	42246895.34	42246895.38	42246895.43	0.0140	0.0130
Venus	110956-03-13 19:10 G	42246979.17	42246979.30	42246979.45	0.0140	0.0106

Venus	110956-10-26 05:01 G	42247205.55	42247205.71	42247205.89	0.0140	0.0091
Venus	110957-06-09 15:06 G	42247431.95	42247432.13	42247432.32	0.0140	0.0075
Venus	110958-01-22 01:10 G	42247658.36	42247658.55	42247658.76	0.0141	0.0059
Venus	110958-09-05 11:44 G	42247884.79	42247884.99	42247885.21	0.0141	0.0042
Venus	110959-04-19 22:32 G	42248111.23	42248111.44	42248111.66	0.0141	0.0026
Venus	110959-12-02 09:34 G	42248337.68	42248337.90	42248338.12	0.0141	0.0009
Earth	110960-07-10 08:37 G	42248558.69	42248558.86	42248559.05	0.0141	0.0098
Moon	110960-07-10 12:27 G	42248558.83	42248559.02	42248559.20	0.0141	0.0098 *
Venus	110960-07-15 20:37 G	42248564.14	42248564.36	42248564.58	0.0141	0.0008
Venus	110961-02-27 07:39 G	42248790.61	42248790.82	42248791.04	0.0141	0.0025
Moon	110961-07-15 02:51 G	42248928.36	42248928.62	42248928.87	0.0141	0.0015
Earth	110961-07-15 06:27 G	42248928.52	42248928.77	42248929.03	0.0141	0.0013 *
Venus	110961-10-11 19:10 G	42249017.09	42249017.30	42249017.51	0.0142	0.0042
Venus	110962-05-26 06:42 G	42249243.58	42249243.78	42249243.99	0.0142	0.0059
Earth	110962-07-20 03:49 G	42249298.56	42249298.66	42249298.80	0.0142	0.0125
Moon	110962-07-20 07:25 G	42249298.69	42249298.81	42249298.97	0.0142	0.0119 *
Venus	110963-01-07 18:13 G	42249470.09	42249470.26	42249470.46	0.0142	0.0076
Venus	110963-08-22 05:58 G	42249696.60	42249696.75	42249696.93	0.0142	0.0093
Venus	110964-04-04 18:13 G	42249923.13	42249923.26	42249923.41	0.0142	0.0109
Venus	110964-11-17 05:58 G	42250149.67	42250149.75	42250149.87	0.0142	0.0127
Venus	110965-07-01 18:42 G	42250376.28	42250376.28	42250376.29	0.0142	0.0142
Mercury	110993-08-20 19:10 G	42260653.25	42260653.30	42260653.38	0.0139	0.0130
Mercury	110993-11-17 02:22 G	42260741.49	42260741.60	42260741.73	0.0139	0.0104
Mercury	110994-02-13 09:49 G	42260829.75	42260829.91	42260830.06	0.0139	0.0077
Mercury	110994-05-12 16:46 G	42260918.03	42260918.20	42260918.38	0.0139	0.0051
Mercury	110994-08-08 23:58 G	42261006.32	42261006.50	42261006.69	0.0139	0.0025
Mercury	110994-11-05 07:25 G	42261094.62	42261094.81	42261095.00	0.0139	0.0003
Mercury	110995-02-01 14:37 G	42261182.93	42261183.11	42261183.29	0.0138	0.0029
Venus	110995-04-06 21:20 G	42261247.36	42261247.39	42261247.44	0.0138	0.0136
Mercury	110995-04-30 21:49 G	42261271.24	42261271.41	42261271.59	0.0138	0.0056

Mercury	110995-07-28 05:01 G	42261359.57	42261359.71	42261359.87	0.0138	0.0083
Mercury	110995-10-24 12:27 G	42261447.91	42261448.02	42261448.14	0.0138	0.0109
Venus	110995-11-19 05:01 G	42261473.62	42261473.71	42261473.83	0.0138	0.0121
Mercury	110996-01-20 19:39 G	42261536.30	42261536.32	42261536.36	0.0138	0.0136
Venus	110996-07-02 12:42 G	42261699.91	42261700.03	42261700.18	0.0138	0.0106
Venus	110997-02-13 20:22 G	42261926.19	42261926.35	42261926.51	0.0138	0.0091
Venus	110997-09-28 03:49 G	42262152.48	42262152.66	42262152.84	0.0138	0.0076
Venus	110998-05-12 10:32 G	42262378.76	42262378.94	42262379.15	0.0138	0.0062
Venus	110998-12-24 17:30 G	42262605.04	42262605.23	42262605.44	0.0137	0.0046
Venus	110999-08-08 00:13 G	42262831.31	42262831.51	42262831.73	0.0137	0.0031
Venus	111000-03-22 06:56 G	42263057.58	42263057.79	42263058.01	0.0137	0.0016
Venus	111000-11-03 13:39 G	42263283.85	42263284.07	42263284.29	0.0137	0.0001

112TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 112th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	111001-01-12 04:18 G	42263353.56	42263353.68	42263353.84	0.0137	0.0113		
Moon	111001-01-12 05:15 G	42263353.59	42263353.72	42263353.89	0.0137	0.0112	*	
Venus	111001-06-17 19:54 G	42263510.12	42263510.33	42263510.55	0.0137	0.0014		
Moon	111002-01-16 13:54 G	42263722.84	42263723.08	42263723.33	0.0137	0.0011		
Earth	111002-01-16 15:20 G	42263722.90	42263723.14	42263723.40	0.0137	0.0015	*	
Venus	111002-01-30 01:54 G	42263736.38	42263736.58	42263736.80	0.0137	0.0029		

Venus	111002-09-13 07:54 G	42263962.64	42263962.83	42263963.04	0.0136	0.0044
Earth	111003-01-21 01:25 G	42264092.37	42264092.56	42264092.77	0.0136	0.0084
Moon	111003-01-21 02:37 G	42264092.41	42264092.61	42264092.83	0.0136	0.0078 *
Venus	111003-04-27 13:54 G	42264188.89	42264189.08	42264189.28	0.0136	0.0058
Venus	111003-12-09 19:39 G	42264415.15	42264415.32	42264415.51	0.0136	0.0072
Venus	111004-07-23 01:25 G	42264641.40	42264641.56	42264641.73	0.0136	0.0086
Venus	111005-03-06 06:42 G	42264867.65	42264867.78	42264867.94	0.0136	0.0100
Venus	111005-10-18 12:27 G	42265093.91	42265094.02	42265094.14	0.0136	0.0113
Venus	111006-06-01 17:30 G	42265320.17	42265320.23	42265320.32	0.0136	0.0127
Mars	111015-01-06 15:06 G	42268460.89	42268461.13	42268461.39	0.0135	0.0063
Mercury	111036-08-25 03:06 G	42276362.62	42276362.63	42276362.65	0.0139	0.0138
Mercury	111036-11-21 06:42 G	42276450.72	42276450.78	42276450.86	0.0139	0.0118
Mercury	111037-02-17 10:32 G	42276538.84	42276538.94	42276539.03	0.0139	0.0098
Mercury	111037-05-16 13:54 G	42276626.97	42276627.08	42276627.20	0.0139	0.0079
Mercury	111037-08-12 17:30 G	42276715.11	42276715.23	42276715.36	0.0139	0.0059
Mercury	111037-11-08 21:06 G	42276803.25	42276803.38	42276803.51	0.0139	0.0040
Mercury	111038-02-05 00:42 G	42276891.40	42276891.53	42276891.67	0.0139	0.0020
Mercury	111038-05-04 04:18 G	42276979.54	42276979.68	42276979.81	0.0139	0.0002
Mercury	111038-07-31 07:39 G	42277067.69	42277067.82	42277067.96	0.0140	0.0020
Venus	111038-08-17 08:51 G	42277084.87	42277084.87	42277084.87	0.0140	0.0139
Mercury	111038-10-27 11:15 G	42277155.84	42277155.97	42277156.10	0.0140	0.0039
Mercury	111039-01-23 14:37 G	42277244.00	42277244.11	42277244.24	0.0140	0.0059
Venus	111039-03-31 17:58 G	42277311.17	42277311.25	42277311.36	0.0140	0.0125
Mercury	111039-04-21 18:13 G	42277332.15	42277332.26	42277332.37	0.0140	0.0078
Mercury	111039-07-18 21:34 G	42277420.31	42277420.40	42277420.50	0.0140	0.0097
Mercury	111039-10-15 01:10 G	42277508.48	42277508.55	42277508.62	0.0140	0.0116
Venus	111039-11-13 03:34 G	42277537.52	42277537.65	42277537.79	0.0140	0.0110
Mercury	111040-01-11 04:32 G	42277596.67	42277596.69	42277596.73	0.0140	0.0136
Venus	111040-06-26 12:56 G	42277763.90	42277764.04	42277764.22	0.0140	0.0095
Venus	111041-02-07 23:01 G	42277990.29	42277990.46	42277990.65	0.0140	0.0079

Venus	111041-09-22 09:06 G	42278216.70	42278216.88	42278217.09	0.0140	0.0064
Venus	111042-05-06 19:39 G	42278443.12	42278443.32	42278443.53	0.0141	0.0047
Venus	111042-12-19 06:13 G	42278669.55	42278669.76	42278669.98	0.0141	0.0031
Venus	111043-08-02 17:01 G	42278895.99	42278896.21	42278896.43	0.0141	0.0014
Venus	111044-03-16 04:03 G	42279122.45	42279122.67	42279122.89	0.0141	0.0004
Moon	111044-07-11 16:46 G	42279240.04	42279240.20	42279240.41	0.0141	0.0098
Earth	111044-07-11 19:54 G	42279240.15	42279240.33	42279240.54	0.0141	0.0093 *
Venus	111044-10-28 15:06 G	42279348.91	42279349.13	42279349.35	0.0141	0.0020
Venus	111045-06-12 02:08 G	42279575.39	42279575.59	42279575.81	0.0141	0.0038
Earth	111045-07-16 17:30 G	42279609.98	42279610.23	42279610.49	0.0141	0.0019
Moon	111045-07-16 20:37 G	42279610.11	42279610.36	42279610.61	0.0141	0.0026 *
Venus	111046-01-24 13:39 G	42279801.87	42279802.07	42279802.28	0.0142	0.0054
Moon	111046-07-21 13:10 G	42279979.93	42279980.05	42279980.19	0.0142	0.0123
Earth	111046-07-21 15:06 G	42279980.05	42279980.13	42279980.25	0.0142	0.0131 *
Venus	111046-09-08 01:10 G	42280028.37	42280028.55	42280028.75	0.0142	0.0071
Venus	111047-04-22 12:56 G	42280254.88	42280255.04	42280255.22	0.0142	0.0088
Venus	111047-12-05 00:56 G	42280481.40	42280481.54	42280481.69	0.0142	0.0104
Venus	111048-07-18 12:42 G	42280707.93	42280708.03	42280708.16	0.0142	0.0121
Venus	111049-03-02 00:42 G	42280934.49	42280934.53	42280934.60	0.0142	0.0138
Mars	111057-04-08 13:39 G	42283893.73	42283894.07	42283894.41	0.0143	0.0011
Mercury	111077-09-11 01:54 G	42291354.51	42291354.58	42291354.66	0.0139	0.0125
Mercury	111077-12-08 08:51 G	42291442.75	42291442.87	42291443.01	0.0139	0.0099
Mercury	111078-03-06 16:03 G	42291531.02	42291531.17	42291531.33	0.0139	0.0073
Mercury	111078-06-02 23:15 G	42291619.30	42291619.47	42291619.65	0.0139	0.0047
Mercury	111078-08-30 06:27 G	42291707.59	42291707.77	42291707.96	0.0139	0.0020
Mercury	111078-11-26 13:39 G	42291795.89	42291796.07	42291796.26	0.0139	0.0008
Mercury	111079-02-22 20:51 G	42291884.20	42291884.37	42291884.56	0.0138	0.0034
Mercury	111079-05-22 04:18 G	42291972.51	42291972.68	42291972.85	0.0138	0.0060
Venus	111079-07-20 11:58 G	42292031.94	42292032.00	42292032.11	0.0138	0.0127
Mercury	111079-08-18 11:30 G	42292060.84	42292060.98	42292061.13	0.0138	0.0087

Mercury	111079-11-14 18:42 G	42292149.19	42292149.28	42292149.40	0.0138	0.0114
Venus	111080-03-02 19:54 G	42292258.22	42292258.33	42292258.47	0.0138	0.0112
Venus	111080-10-15 03:49 G	42292484.51	42292484.66	42292484.82	0.0138	0.0096
Venus	111081-05-29 11:30 G	42292710.80	42292710.98	42292711.15	0.0138	0.0081
Venus	111082-01-10 18:13 G	42292937.09	42292937.26	42292937.46	0.0138	0.0067
Venus	111082-08-25 01:25 G	42293163.37	42293163.56	42293163.77	0.0137	0.0051
Venus	111083-04-08 08:22 G	42293389.65	42293389.85	42293390.06	0.0137	0.0036
Venus	111083-11-20 15:20 G	42293615.93	42293616.14	42293616.35	0.0137	0.0021
Venus	111084-07-03 21:49 G	42293842.20	42293842.41	42293842.63	0.0137	0.0006
Moon	111085-01-12 09:34 G	42294034.79	42294034.90	42294035.05	0.0137	0.0116
Earth	111085-01-12 12:56 G	42294034.91	42294035.04	42294035.20	0.0137	0.0110 *
Venus	111085-02-15 04:18 G	42294068.47	42294068.68	42294068.90	0.0137	0.0009
Venus	111085-09-29 10:46 G	42294294.73	42294294.95	42294295.16	0.0137	0.0024
Earth	111086-01-16 23:58 G	42294404.25	42294404.50	42294404.75	0.0137	0.0011
Moon	111086-01-17 03:34 G	42294404.39	42294404.65	42294404.90	0.0137	0.0004 *
Venus	111086-05-13 16:46 G	42294521.00	42294521.20	42294521.41	0.0137	0.0039
Venus	111086-12-25 22:46 G	42294747.26	42294747.45	42294747.65	0.0136	0.0053
Moon	111087-01-21 06:56 G	42294773.60	42294773.79	42294774.00	0.0136	0.0080
Earth	111087-01-21 10:18 G	42294773.74	42294773.93	42294774.13	0.0136	0.0087 *
Venus	111087-08-09 04:46 G	42294973.52	42294973.70	42294973.89	0.0136	0.0068
Venus	111088-03-22 10:18 G	42295199.77	42295199.93	42295200.11	0.0136	0.0082
Venus	111088-11-03 15:49 G	42295426.03	42295426.16	42295426.33	0.0136	0.0096
Venus	111089-06-17 21:34 G	42295652.28	42295652.40	42295652.53	0.0136	0.0109
Venus	111090-01-30 02:37 G	42295878.54	42295878.61	42295878.72	0.0136	0.0123
Venus	111090-09-13 08:08 G	42296104.84	42296104.84	42296104.85	0.0136	0.0136
Mars	111099-08-31 17:58 G	42299379.02	42299379.25	42299379.52	0.0135	0.0063
Mercury	111120-09-15 10:32 G	42307063.90	42307063.94	42307063.98	0.0139	0.0132
Mercury	111120-12-12 14:08 G	42307152.02	42307152.09	42307152.17	0.0139	0.0112
Mercury	111121-03-10 17:44 G	42307240.14	42307240.24	42307240.35	0.0139	0.0093
Mercury	111121-06-06 21:20 G	42307328.28	42307328.39	42307328.51	0.0139	0.0073

Mercury	111121-09-03 00:56 G	42307416.42	42307416.54	42307416.67	0.0139	0.0053
Mercury	111121-11-30 04:32 G	42307504.56	42307504.69	42307504.82	0.0139	0.0034
Mercury	111122-02-26 08:08 G	42307592.71	42307592.84	42307592.98	0.0139	0.0014
Mercury	111122-05-25 11:44 G	42307680.85	42307680.99	42307681.12	0.0139	0.0006
Mercury	111122-08-21 15:06 G	42307769.00	42307769.13	42307769.27	0.0140	0.0025
Mercury	111122-11-17 18:42 G	42307857.15	42307857.28	42307857.41	0.0140	0.0045
Venus	111122-11-30 02:37 G	42307869.53	42307869.61	42307869.69	0.0140	0.0129
Mercury	111123-02-13 22:18 G	42307945.31	42307945.43	42307945.55	0.0140	0.0064
Mercury	111123-05-13 01:39 G	42308033.47	42308033.57	42308033.68	0.0140	0.0083
Venus	111123-07-14 11:58 G	42308095.88	42308096.00	42308096.12	0.0140	0.0114
Mercury	111123-08-09 05:01 G	42308121.63	42308121.71	42308121.81	0.0140	0.0103
Mercury	111123-11-05 08:37 G	42308209.80	42308209.86	42308209.93	0.0140	0.0122
Venus	111124-02-25 21:20 G	42308322.25	42308322.39	42308322.55	0.0140	0.0099
Venus	111124-10-09 07:10 G	42308548.63	42308548.80	42308548.98	0.0140	0.0084
Venus	111125-05-23 17:15 G	42308775.04	42308775.22	42308775.42	0.0140	0.0068
Venus	111126-01-05 03:34 G	42309001.45	42309001.65	42309001.86	0.0140	0.0051
Venus	111126-08-19 14:08 G	42309227.87	42309228.09	42309228.30	0.0141	0.0035
Venus	111127-04-03 00:42 G	42309454.31	42309454.53	42309454.75	0.0141	0.0018
Venus	111127-11-15 11:30 G	42309680.76	42309680.98	42309681.20	0.0141	0.0003
Venus	111128-06-28 22:32 G	42309907.22	42309907.44	42309907.66	0.0141	0.0015
Earth	111128-07-13 07:25 G	42309921.62	42309921.81	42309922.02	0.0141	0.0086
Moon	111128-07-13 07:39 G	42309921.65	42309921.82	42309922.02	0.0141	0.0095 *
Venus	111129-02-10 09:34 G	42310133.69	42310133.90	42310134.12	0.0141	0.0032
Moon	111129-07-18 04:32 G	42310291.44	42310291.69	42310291.96	0.0141	0.0030
Earth	111129-07-18 04:46 G	42310291.45	42310291.70	42310291.96	0.0141	0.0025 *
Venus	111129-09-24 20:37 G	42310360.16	42310360.36	42310360.58	0.0141	0.0050
Venus	111130-05-09 08:08 G	42310586.66	42310586.84	42310587.05	0.0142	0.0067
Moon	111130-07-23 01:25 G	42310661.50	42310661.56	42310661.65	0.0142	0.0135
Earth	111130-07-23 02:22 G	42310661.54	42310661.60	42310661.68	0.0142	0.0136 *
Venus	111130-12-21 19:54 G	42310813.16	42310813.33	42310813.52	0.0142	0.0083

Venus	111131-08-05 07:25 G	42311039.67	42311039.81	42311039.98	0.0142	0.0100
Venus	111132-03-18 19:25 G	42311266.19	42311266.31	42311266.44	0.0142	0.0116
Venus	111132-10-31 07:39 G	42311492.74	42311492.82	42311492.90	0.0142	0.0133
Mercury	111161-10-02 08:22 G	42322055.78	42322055.85	42322055.96	0.0139	0.0120
Mercury	111161-12-29 15:34 G	42322144.03	42322144.15	42322144.30	0.0139	0.0094
Mercury	111162-03-27 23:01 G	42322232.30	42322232.46	42322232.62	0.0139	0.0067
Mercury	111162-06-24 06:13 G	42322320.58	42322320.76	42322320.94	0.0139	0.0041
Mercury	111162-09-20 13:25 G	42322408.87	42322409.06	42322409.25	0.0139	0.0014
Mercury	111162-12-17 20:37 G	42322497.18	42322497.36	42322497.55	0.0139	0.0012
Mercury	111163-03-16 03:49 G	42322585.48	42322585.66	42322585.84	0.0138	0.0039
Venus	111163-03-20 20:22 G	42322590.29	42322590.35	42322590.43	0.0138	0.0131
Mercury	111163-06-12 11:01 G	42322673.80	42322673.96	42322674.13	0.0138	0.0066
Mercury	111163-09-08 18:13 G	42322762.13	42322762.26	42322762.41	0.0138	0.0093
Venus	111163-11-02 04:03 G	42322816.58	42322816.67	42322816.81	0.0138	0.0117
Mercury	111163-12-06 01:39 G	42322850.49	42322850.57	42322850.67	0.0138	0.0119
Venus	111164-06-15 11:58 G	42323042.87	42323043.00	42323043.16	0.0138	0.0101
Venus	111165-01-27 19:25 G	42323269.16	42323269.31	42323269.49	0.0138	0.0086
Venus	111165-09-11 02:51 G	42323495.45	42323495.62	42323495.82	0.0138	0.0071
Venus	111166-04-25 10:03 G	42323721.73	42323721.92	42323722.13	0.0138	0.0056
Venus	111166-12-07 17:15 G	42323948.02	42323948.22	42323948.43	0.0137	0.0040
Venus	111167-07-22 00:13 G	42324174.30	42324174.51	42324174.72	0.0137	0.0025
Venus	111168-03-04 06:56 G	42324400.57	42324400.79	42324401.00	0.0137	0.0010
Venus	111168-10-16 13:39 G	42324626.85	42324627.07	42324627.28	0.0137	0.0005
Earth	111169-01-13 22:32 G	42324716.30	42324716.44	42324716.61	0.0137	0.0106
Moon	111169-01-14 01:39 G	42324716.44	42324716.57	42324716.72	0.0137	0.0113 *
Venus	111169-05-30 19:54 G	42324853.12	42324853.33	42324853.55	0.0137	0.0020
Venus	111170-01-12 02:08 G	42325079.39	42325079.59	42325079.80	0.0137	0.0035
Moon	111170-01-18 06:27 G	42325085.51	42325085.77	42325086.03	0.0137	0.0001
Earth	111170-01-18 09:49 G	42325085.66	42325085.91	42325086.17	0.0137	0.0008 *
Venus	111170-08-26 08:08 G	42325305.65	42325305.84	42325306.05	0.0136	0.0049

Earth	111171-01-22 19:54 G	42325455.15	42325455.33	42325455.53	0.0136	0.0091
Moon	111171-01-22 22:46 G	42325455.27	42325455.45	42325455.65	0.0136	0.0088 *
Venus	111171-04-09 14:08 G	42325531.91	42325532.09	42325532.28	0.0136	0.0064
Venus	111171-11-21 19:54 G	42325758.17	42325758.33	42325758.52	0.0136	0.0078
Venus	111172-07-05 01:25 G	42325984.42	42325984.56	42325984.74	0.0136	0.0093
Venus	111173-02-16 07:25 G	42326210.68	42326210.81	42326210.94	0.0136	0.0106
Venus	111173-09-30 12:27 G	42326436.93	42326437.02	42326437.13	0.0136	0.0119
Venus	111174-05-14 17:58 G	42326663.21	42326663.25	42326663.30	0.0136	0.0132
Mercury	111204-10-05 17:58 G	42337765.20	42337765.25	42337765.31	0.0139	0.0126
Mercury	111205-01-01 21:20 G	42337853.32	42337853.39	42337853.49	0.0139	0.0107
Mercury	111205-03-31 01:10 G	42337941.45	42337941.55	42337941.66	0.0139	0.0087
Mercury	111205-06-27 04:46 G	42338029.58	42338029.70	42338029.82	0.0139	0.0067
Mercury	111205-09-23 08:22 G	42338117.72	42338117.85	42338117.98	0.0139	0.0048
Mercury	111205-12-20 11:58 G	42338205.87	42338206.00	42338206.13	0.0139	0.0028
Mercury	111206-03-18 15:34 G	42338294.01	42338294.15	42338294.28	0.0139	0.0008
Mercury	111206-06-14 19:10 G	42338382.16	42338382.30	42338382.43	0.0140	0.0012
Venus	111206-07-30 10:32 G	42338427.90	42338427.94	42338428.02	0.0140	0.0134
Mercury	111206-09-10 22:32 G	42338470.31	42338470.44	42338470.58	0.0140	0.0031
Mercury	111206-12-08 02:08 G	42338558.47	42338558.59	42338558.72	0.0140	0.0050
Mercury	111207-03-06 05:44 G	42338646.62	42338646.74	42338646.85	0.0140	0.0070
Venus	111207-03-13 19:54 G	42338654.24	42338654.33	42338654.46	0.0140	0.0119
Mercury	111207-06-02 08:51 G	42338734.78	42338734.87	42338734.99	0.0140	0.0090
Mercury	111207-08-29 12:27 G	42338822.95	42338823.02	42338823.11	0.0140	0.0109
Venus	111207-10-26 05:58 G	42338880.60	42338880.75	42338880.89	0.0140	0.0103
Mercury	111207-11-25 16:03 G	42338911.12	42338911.17	42338911.23	0.0140	0.0128
Venus	111208-06-08 15:20 G	42339106.98	42339107.14	42339107.32	0.0140	0.0088
Venus	111209-01-21 01:10 G	42339333.38	42339333.55	42339333.75	0.0140	0.0073
Venus	111209-09-04 11:30 G	42339559.79	42339559.98	42339560.19	0.0140	0.0056
Venus	111210-04-18 22:03 G	42339786.21	42339786.42	42339786.63	0.0141	0.0040
Venus	111210-12-01 08:37 G	42340012.64	42340012.86	42340013.08	0.0141	0.0023

Venus	111211-07-15 19:10 G	42340239.09	42340239.30	42340239.53	0.0141	0.0007
Venus	111212-02-27 05:58 G	42340465.54	42340465.75	42340465.98	0.0141	0.0011
Earth	111212-07-13 18:56 G	42340603.09	42340603.29	42340603.51	0.0141	0.0080
Moon	111212-07-13 21:34 G	42340603.19	42340603.40	42340603.62	0.0141	0.0084 *
Venus	111212-10-10 17:01 G	42340692.00	42340692.21	42340692.43	0.0141	0.0028
Venus	111213-05-25 04:18 G	42340918.48	42340918.68	42340918.90	0.0141	0.0045
Moon	111213-07-18 13:39 G	42340972.83	42340973.07	42340973.32	0.0141	0.0030
Earth	111213-07-18 16:32 G	42340972.94	42340973.19	42340973.44	0.0141	0.0031 *
Venus	111214-01-06 15:34 G	42341144.96	42341145.15	42341145.36	0.0142	0.0061
Venus	111214-08-21 03:20 G	42341371.45	42341371.64	42341371.82	0.0142	0.0078
Venus	111215-04-04 14:37 G	42341597.96	42341598.11	42341598.29	0.0142	0.0095
Venus	111215-11-17 02:22 G	42341824.48	42341824.60	42341824.75	0.0142	0.0112
Venus	111216-06-30 14:22 G	42342051.02	42342051.10	42342051.20	0.0142	0.0128
Mars	111224-08-24 17:30 G	42345028.15	42345028.23	42345028.36	0.0143	0.0136
Mercury	111245-10-22 15:20 G	42352757.05	42352757.14	42352757.26	0.0139	0.0114
Mercury	111246-01-18 22:32 G	42352845.31	42352845.44	42352845.59	0.0139	0.0088
Mercury	111246-04-17 05:44 G	42352933.58	42352933.74	42352933.91	0.0139	0.0062
Mercury	111246-07-14 13:10 G	42353021.87	42353022.05	42353022.23	0.0139	0.0035
Mercury	111246-10-10 20:08 G	42353110.16	42353110.34	42353110.53	0.0139	0.0010
Venus	111246-11-18 04:18 G	42353148.65	42353148.68	42353148.74	0.0139	0.0136
Mercury	111247-01-07 03:20 G	42353198.46	42353198.64	42353198.83	0.0138	0.0019
Mercury	111247-04-05 10:46 G	42353286.77	42353286.95	42353287.13	0.0138	0.0045
Venus	111247-07-02 12:27 G	42353374.92	42353375.02	42353375.13	0.0138	0.0121
Mercury	111247-07-02 17:58 G	42353375.09	42353375.25	42353375.41	0.0138	0.0071 *
Mercury	111247-09-29 01:10 G	42353463.43	42353463.55	42353463.69	0.0138	0.0098
Mercury	111247-12-26 08:37 G	42353551.79	42353551.86	42353551.94	0.0138	0.0125
Venus	111248-02-13 19:54 G	42353601.21	42353601.33	42353601.49	0.0138	0.0106
Venus	111248-09-27 03:49 G	42353827.51	42353827.66	42353827.83	0.0138	0.0091
Venus	111249-05-11 11:15 G	42354053.80	42354053.97	42354054.16	0.0138	0.0076
Venus	111249-12-23 18:27 G	42354280.09	42354280.27	42354280.48	0.0138	0.0061

Venus	111250-08-07 01:39 G	42354506.37	42354506.57	42354506.78	0.0137	0.0045
Venus	111251-03-21 08:37 G	42354732.66	42354732.86	42354733.08	0.0137	0.0030
Venus	111251-11-02 15:34 G	42354958.94	42354959.15	42354959.37	0.0137	0.0016
Venus	111252-06-15 22:18 G	42355185.22	42355185.43	42355185.65	0.0137	0.0002
Moon	111253-01-14 06:56 G	42355397.65	42355397.79	42355397.98	0.0137	0.0105
Earth	111253-01-14 07:39 G	42355397.68	42355397.82	42355398.01	0.0137	0.0103 *
Venus	111253-01-28 04:46 G	42355411.49	42355411.70	42355411.92	0.0137	0.0015
Venus	111253-09-11 11:01 G	42355637.76	42355637.96	42355638.17	0.0137	0.0030
Earth	111254-01-18 18:56 G	42355767.04	42355767.29	42355767.55	0.0137	0.0005
Moon	111254-01-18 20:08 G	42355767.10	42355767.34	42355767.59	0.0137	0.0004 *
Venus	111254-04-25 17:15 G	42355864.02	42355864.22	42355864.43	0.0137	0.0045
Venus	111254-12-07 23:15 G	42356090.28	42356090.47	42356090.67	0.0136	0.0059
Moon	111255-01-23 04:32 G	42356136.52	42356136.69	42356136.88	0.0136	0.0098
Earth	111255-01-23 04:46 G	42356136.54	42356136.70	42356136.90	0.0136	0.0095 *
Venus	111255-07-22 05:15 G	42356316.54	42356316.72	42356316.90	0.0136	0.0074
Venus	111256-03-04 11:01 G	42356542.80	42356542.96	42356543.12	0.0136	0.0088
Venus	111256-10-16 16:32 G	42356769.05	42356769.19	42356769.34	0.0136	0.0102
Venus	111257-05-30 21:49 G	42356995.31	42356995.41	42356995.53	0.0136	0.0115
Venus	111258-01-12 03:34 G	42357221.58	42357221.65	42357221.71	0.0136	0.0128
Mars	111267-01-19 22:46 G	42360516.18	42360516.45	42360516.74	0.0135	0.0026
Mercury	111288-10-26 01:10 G	42368466.49	42368466.55	42368466.62	0.0139	0.0121
Mercury	111289-01-22 05:01 G	42368554.62	42368554.71	42368554.80	0.0139	0.0101
Mercury	111289-04-20 08:37 G	42368642.75	42368642.86	42368642.97	0.0139	0.0082
Mercury	111289-07-17 11:58 G	42368730.89	42368731.00	42368731.13	0.0139	0.0063
Mercury	111289-10-13 15:49 G	42368819.03	42368819.16	42368819.29	0.0139	0.0042
Mercury	111290-01-09 19:10 G	42368907.17	42368907.30	42368907.44	0.0139	0.0023
Venus	111290-03-29 18:56 G	42368986.27	42368986.29	42368986.33	0.0140	0.0138
Mercury	111290-04-07 22:46 G	42368995.32	42368995.45	42368995.59	0.0140	0.0005
Mercury	111290-07-05 02:22 G	42369083.47	42369083.60	42369083.74	0.0140	0.0017
Mercury	111290-10-01 05:58 G	42369171.62	42369171.75	42369171.88	0.0140	0.0036

Venus	111290-11-11 04:18 G	42369212.58	42369212.68	42369212.79	0.0140	0.0123
Mercury	111290-12-28 09:20 G	42369259.77	42369259.89	42369260.02	0.0140	0.0056
Mercury	111291-03-26 12:56 G	42369347.93	42369348.04	42369348.16	0.0140	0.0075
Mercury	111291-06-22 16:18 G	42369436.09	42369436.18	42369436.29	0.0140	0.0095
Venus	111291-06-25 13:39 G	42369438.94	42369439.07	42369439.21	0.0140	0.0108
Mercury	111291-09-18 19:54 G	42369524.26	42369524.33	42369524.41	0.0140	0.0114
Mercury	111291-12-15 23:30 G	42369612.44	42369612.48	42369612.52	0.0140	0.0133
Venus	111292-02-06 23:01 G	42369665.31	42369665.46	42369665.64	0.0140	0.0093
Venus	111292-09-20 08:51 G	42369891.70	42369891.87	42369892.07	0.0140	0.0077
Venus	111293-05-04 19:10 G	42370118.11	42370118.30	42370118.50	0.0140	0.0061
Venus	111293-12-17 05:30 G	42370344.52	42370344.73	42370344.94	0.0141	0.0045
Venus	111294-07-31 15:49 G	42370570.95	42370571.16	42370571.38	0.0141	0.0028
Venus	111295-03-15 02:22 G	42370797.39	42370797.60	42370797.82	0.0141	0.0012
Venus	111295-10-27 13:10 G	42371023.83	42371024.05	42371024.27	0.0141	0.0006
Venus	111296-06-10 00:13 G	42371250.29	42371250.51	42371250.73	0.0141	0.0022
Moon	111296-07-14 01:39 G	42371284.37	42371284.57	42371284.81	0.0141	0.0073
Earth	111296-07-14 05:44 G	42371284.53	42371284.74	42371284.96	0.0141	0.0075 *
Venus	111297-01-22 11:01 G	42371476.76	42371476.96	42371477.18	0.0141	0.0040
Earth	111297-07-19 02:51 G	42371654.37	42371654.62	42371654.87	0.0141	0.0036
Moon	111297-07-19 06:13 G	42371654.52	42371654.76	42371655.01	0.0141	0.0029 *
Venus	111297-09-05 22:03 G	42371703.23	42371703.42	42371703.64	0.0141	0.0057
Venus	111298-04-20 09:49 G	42371929.73	42371929.91	42371930.10	0.0142	0.0073
Venus	111298-12-02 21:20 G	42372156.22	42372156.39	42372156.57	0.0142	0.0090
Venus	111299-07-17 08:37 G	42372382.74	42372382.86	42372383.03	0.0142	0.0107
Venus	111300-02-28 20:37 G	42372609.26	42372609.36	42372609.48	0.0142	0.0123
Venus	111300-10-13 08:37 G	42372835.83	42372835.86	42372835.91	0.0142	0.0139
Mars	111309-04-22 05:15 G	42375948.42	42375948.72	42375949.06	0.0143	0.0048
Mercury	111329-08-16 15:34 G	42383370.12	42383370.15	42383370.22	0.0139	0.0133
Mercury	111329-11-12 22:46 G	42383458.34	42383458.45	42383458.58	0.0139	0.0107
Mercury	111330-02-09 05:58 G	42383546.61	42383546.75	42383546.91	0.0139	0.0080

Mercury	111330-05-08 12:56 G	42383634.88	42383635.04	42383635.22	0.0139	0.0055
Mercury	111330-08-04 20:22 G	42383723.17	42383723.35	42383723.53	0.0139	0.0028
Mercury	111330-11-01 03:34 G	42383811.47	42383811.65	42383811.84	0.0139	0.0002
Mercury	111331-01-28 10:46 G	42383899.77	42383899.95	42383900.14	0.0138	0.0025
Venus	111331-03-02 21:06 G	42383933.31	42383933.38	42383933.49	0.0138	0.0126
Mercury	111331-04-26 17:58 G	42383988.08	42383988.25	42383988.43	0.0138	0.0052
Mercury	111331-07-24 01:25 G	42384076.41	42384076.56	42384076.71	0.0138	0.0078
Venus	111331-10-15 05:30 G	42384159.60	42384159.73	42384159.86	0.0138	0.0110
Mercury	111331-10-20 08:37 G	42384164.74	42384164.86	42384164.99	0.0138	0.0105
Mercury	111332-01-16 15:49 G	42384253.12	42384253.16	42384253.22	0.0138	0.0132
Venus	111332-05-28 13:10 G	42384385.90	42384386.05	42384386.21	0.0138	0.0095
Venus	111333-01-09 20:51 G	42384612.19	42384612.37	42384612.54	0.0138	0.0080
Venus	111333-08-24 04:03 G	42384838.48	42384838.67	42384838.86	0.0138	0.0065
Venus	111334-04-07 11:15 G	42385064.77	42385064.97	42385065.17	0.0138	0.0050
Venus	111334-11-19 18:27 G	42385291.06	42385291.27	42385291.48	0.0137	0.0035
Venus	111335-07-04 01:25 G	42385517.34	42385517.56	42385517.77	0.0137	0.0019
Venus	111336-02-15 08:08 G	42385743.62	42385743.84	42385744.05	0.0137	0.0005
Venus	111336-09-28 14:37 G	42385969.90	42385970.11	42385970.33	0.0137	0.0011
Moon	111337-01-15 16:46 G	42386079.03	42386079.20	42386079.39	0.0137	0.0093
Earth	111337-01-15 18:56 G	42386079.12	42386079.29	42386079.48	0.0137	0.0097 *
Venus	111337-05-12 20:51 G	42386196.17	42386196.37	42386196.59	0.0137	0.0026
Venus	111337-12-25 03:06 G	42386422.43	42386422.63	42386422.84	0.0137	0.0041
Earth	111338-01-20 05:44 G	42386448.49	42386448.74	42386448.99	0.0137	0.0002
Moon	111338-01-20 07:54 G	42386448.57	42386448.83	42386449.09	0.0137	0.0004 *
Venus	111338-08-08 09:20 G	42386648.69	42386648.89	42386649.08	0.0137	0.0055
Moon	111339-01-24 12:56 G	42386817.91	42386818.04	42386818.21	0.0136	0.0107
Earth	111339-01-24 15:20 G	42386817.99	42386818.14	42386818.33	0.0136	0.0100 *
Venus	111339-03-22 15:06 G	42386874.95	42386875.13	42386875.32	0.0136	0.0069
Venus	111339-11-03 20:51 G	42387101.21	42387101.37	42387101.55	0.0136	0.0084
Venus	111340-06-17 02:37 G	42387327.47	42387327.61	42387327.76	0.0136	0.0098

Venus	111341-01-29 07:54 G	42387553.72	42387553.83	42387553.96	0.0136	0.0111
Venus	111341-09-12 13:10 G	42387779.98	42387780.05	42387780.15	0.0136	0.0125
Mars	111351-09-15 01:54 G	42391434.41	42391434.58	42391434.78	0.0135	0.0101
Mercury	111372-08-20 04:46 G	42399079.68	42399079.70	42399079.73	0.0139	0.0136
Mercury	111372-11-16 08:37 G	42399167.79	42399167.86	42399167.93	0.0139	0.0116
Mercury	111373-02-12 12:13 G	42399255.91	42399256.01	42399256.11	0.0139	0.0097
Mercury	111373-05-11 15:34 G	42399344.05	42399344.15	42399344.27	0.0139	0.0078
Mercury	111373-08-07 19:25 G	42399432.19	42399432.31	42399432.43	0.0139	0.0057
Mercury	111373-11-03 23:01 G	42399520.33	42399520.46	42399520.59	0.0139	0.0037
Mercury	111374-01-31 02:37 G	42399608.47	42399608.61	42399608.74	0.0139	0.0018
Mercury	111374-04-29 06:13 G	42399696.62	42399696.76	42399696.89	0.0140	0.0004
Venus	111374-07-12 11:58 G	42399770.92	42399771.00	42399771.09	0.0140	0.0128
Mercury	111374-07-26 09:34 G	42399784.77	42399784.90	42399785.04	0.0140	0.0022
Mercury	111374-10-22 13:10 G	42399872.92	42399873.05	42399873.18	0.0140	0.0041
Mercury	111375-01-18 16:32 G	42399961.08	42399961.19	42399961.32	0.0140	0.0061
Venus	111375-02-23 21:20 G	42399997.27	42399997.39	42399997.52	0.0140	0.0113
Mercury	111375-04-16 20:08 G	42400049.24	42400049.34	42400049.45	0.0140	0.0080
Mercury	111375-07-13 23:30 G	42400137.40	42400137.48	42400137.58	0.0140	0.0100
Jupiter	111375-07-26 07:10 G	42400149.36	42400149.80	42400150.29	0.0140	0.0055
Venus	111375-10-08 06:42 G	42400223.64	42400223.78	42400223.95	0.0140	0.0098
Mercury	111375-10-10 03:06 G	42400225.57	42400225.63	42400225.71	0.0140	0.0119
Mercury	111376-01-06 06:42 G	42400313.77	42400313.78	42400313.80	0.0140	0.0138
Venus	111376-05-21 16:32 G	42400450.02	42400450.19	42400450.38	0.0140	0.0082
Venus	111377-01-03 02:22 G	42400676.42	42400676.60	42400676.80	0.0140	0.0066
Venus	111377-08-17 12:42 G	42400902.82	42400903.03	42400903.23	0.0140	0.0050
Venus	111378-03-31 22:46 G	42401129.25	42401129.45	42401129.67	0.0141	0.0034
Venus	111378-11-13 09:34 G	42401355.68	42401355.90	42401356.11	0.0141	0.0017
Venus	111379-06-27 20:08 G	42401582.12	42401582.34	42401582.56	0.0141	0.0002
Venus	111380-02-09 06:42 G	42401808.57	42401808.78	42401809.00	0.0141	0.0017
Earth	111380-07-15 15:34 G	42401965.93	42401966.15	42401966.38	0.0141	0.0070

Moon	111380-07-15 17:44 G	42401966.02	42401966.24	42401966.47	0.0141	0.0063 *
Venus	111380-09-22 17:44 G	42402035.03	42402035.24	42402035.45	0.0141	0.0034
Venus	111381-05-07 04:46 G	42402261.50	42402261.70	42402261.91	0.0141	0.0051
Moon	111381-07-20 11:01 G	42402335.71	42402335.96	42402336.22	0.0141	0.0035
Earth	111381-07-20 12:27 G	42402335.79	42402336.02	42402336.28	0.0141	0.0042 *
Venus	111381-12-19 16:03 G	42402487.98	42402488.17	42402488.37	0.0142	0.0068
Venus	111382-08-03 03:34 G	42402714.47	42402714.65	42402714.83	0.0142	0.0084
Venus	111383-03-17 14:51 G	42402940.98	42402941.12	42402941.29	0.0142	0.0101
Venus	111383-10-30 02:51 G	42403167.50	42403167.62	42403167.74	0.0142	0.0117
Venus	111384-06-12 14:22 G	42403394.05	42403394.10	42403394.19	0.0142	0.0134
Mercury	111413-09-06 22:32 G	42414071.38	42414071.44	42414071.53	0.0139	0.0127
Mercury	111413-12-04 05:44 G	42414159.63	42414159.74	42414159.88	0.0139	0.0101
Mercury	111414-03-02 12:56 G	42414247.89	42414248.04	42414248.20	0.0139	0.0075
Mercury	111414-05-29 20:08 G	42414336.17	42414336.34	42414336.52	0.0139	0.0048
Mercury	111414-08-26 03:20 G	42414424.46	42414424.64	42414424.83	0.0139	0.0022
Venus	111414-11-01 05:30 G	42414491.67	42414491.73	42414491.81	0.0138	0.0131
Mercury	111414-11-22 10:32 G	42414512.76	42414512.94	42414513.13	0.0138	0.0005
Mercury	111415-02-18 17:44 G	42414601.06	42414601.24	42414601.43	0.0138	0.0031
Mercury	111415-05-18 01:10 G	42414689.38	42414689.55	42414689.72	0.0138	0.0058
Venus	111415-06-15 13:39 G	42414717.96	42414718.07	42414718.19	0.0138	0.0116
Mercury	111415-08-14 08:22 G	42414777.70	42414777.85	42414778.00	0.0138	0.0084
Mercury	111415-11-10 15:34 G	42414866.05	42414866.15	42414866.27	0.0138	0.0111
Venus	111416-01-27 21:34 G	42414944.25	42414944.40	42414944.55	0.0138	0.0101
Mercury	111416-02-06 23:01 G	42414954.46	42414954.46	42414954.47	0.0138	0.0138
Venus	111416-09-10 05:15 G	42415170.55	42415170.72	42415170.89	0.0138	0.0085
Venus	111417-04-24 12:42 G	42415396.85	42415397.03	42415397.22	0.0138	0.0070
Venus	111417-12-06 20:08 G	42415623.14	42415623.34	42415623.54	0.0138	0.0055
Venus	111418-07-21 03:06 G	42415849.43	42415849.63	42415849.85	0.0137	0.0040
Venus	111419-03-04 10:18 G	42416075.72	42416075.93	42416076.14	0.0137	0.0024
Venus	111419-10-16 17:15 G	42416302.00	42416302.22	42416302.43	0.0137	0.0009

Venus	111420-05-29 23:44 G	42416528.28	42416528.49	42416528.71	0.0137	0.0006
Venus	111421-01-11 06:13 G	42416754.55	42416754.76	42416754.97	0.0137	0.0021
Earth	111421-01-17 04:18 G	42416760.52	42416760.68	42416760.89	0.0137	0.0093
Moon	111421-01-17 08:08 G	42416760.66	42416760.84	42416761.05	0.0137	0.0085 *
Venus	111421-08-25 12:27 G	42416980.81	42416981.02	42416981.23	0.0137	0.0036
Moon	111422-01-21 11:58 G	42417129.75	42417130.00	42417130.26	0.0137	0.0002
Earth	111422-01-21 15:34 G	42417129.90	42417130.15	42417130.40	0.0137	0.0006 *
Venus	111422-04-08 18:27 G	42417207.08	42417207.27	42417207.47	0.0137	0.0050
Venus	111422-11-21 00:42 G	42417433.34	42417433.53	42417433.72	0.0137	0.0065
Earth	111423-01-26 01:10 G	42417499.39	42417499.55	42417499.72	0.0136	0.0104
Moon	111423-01-26 04:46 G	42417499.56	42417499.70	42417499.86	0.0136	0.0109 *
Venus	111423-07-05 06:13 G	42417659.60	42417659.76	42417659.95	0.0136	0.0079
Venus	111424-02-16 11:44 G	42417885.85	42417885.99	42417886.16	0.0136	0.0094
Venus	111424-09-29 17:15 G	42418112.11	42418112.22	42418112.37	0.0136	0.0108
Venus	111425-05-13 23:01 G	42418338.37	42418338.46	42418338.57	0.0136	0.0120
Venus	111425-12-26 04:18 G	42418564.66	42418564.68	42418564.73	0.0136	0.0134
Mars	111434-06-11 01:10 G	42421653.39	42421653.55	42421653.72	0.0135	0.0111
Mercury	111456-09-10 12:13 G	42429780.97	42429781.01	42429781.05	0.0139	0.0131
Mercury	111456-12-07 15:34 G	42429869.08	42429869.15	42429869.24	0.0139	0.0112
Mercury	111457-03-05 19:10 G	42429957.21	42429957.30	42429957.41	0.0139	0.0092
Mercury	111457-06-01 23:01 G	42430045.35	42430045.46	42430045.58	0.0139	0.0072
Mercury	111457-08-29 02:37 G	42430133.49	42430133.61	42430133.74	0.0139	0.0052
Mercury	111457-11-25 06:13 G	42430221.63	42430221.76	42430221.89	0.0139	0.0033
Mercury	111458-02-21 09:49 G	42430309.77	42430309.91	42430310.04	0.0139	0.0013
Venus	111458-03-12 19:25 G	42430329.26	42430329.31	42430329.39	0.0139	0.0133
Mercury	111458-05-20 13:25 G	42430397.92	42430398.06	42430398.19	0.0139	0.0007
Mercury	111458-08-16 16:46 G	42430486.07	42430486.20	42430486.34	0.0140	0.0027
Venus	111458-10-25 04:46 G	42430555.60	42430555.70	42430555.83	0.0140	0.0118
Mercury	111458-11-12 20:22 G	42430574.23	42430574.35	42430574.48	0.0140	0.0046
Mercury	111459-02-08 23:44 G	42430662.38	42430662.49	42430662.62	0.0140	0.0066

Mercury	111459-05-08 03:20 G	42430750.54	42430750.64	42430750.75	0.0140	0.0085
Venus	111459-06-08 14:08 G	42430781.95	42430782.09	42430782.25	0.0140	0.0103
Mercury	111459-08-04 06:56 G	42430838.70	42430838.79	42430838.88	0.0140	0.0104
Mercury	111459-10-31 10:18 G	42430926.88	42430926.93	42430927.00	0.0140	0.0124
Venus	111460-01-20 23:44 G	42431008.33	42431008.49	42431008.67	0.0140	0.0087
Venus	111460-09-03 09:34 G	42431234.72	42431234.90	42431235.09	0.0140	0.0071
Venus	111461-04-17 19:25 G	42431461.12	42431461.31	42431461.52	0.0140	0.0056
Venus	111461-11-30 05:30 G	42431687.53	42431687.73	42431687.96	0.0141	0.0040
Venus	111462-07-14 16:03 G	42431913.95	42431914.17	42431914.39	0.0141	0.0022
Venus	111463-02-26 02:22 G	42432140.38	42432140.60	42432140.83	0.0141	0.0007
Venus	111463-10-10 13:10 G	42432366.83	42432367.05	42432367.27	0.0141	0.0011
Venus	111464-05-23 23:58 G	42432593.29	42432593.50	42432593.72	0.0141	0.0028
Earth	111464-07-17 00:42 G	42432647.31	42432647.53	42432647.76	0.0141	0.0065
Moon	111464-07-17 01:39 G	42432647.35	42432647.57	42432647.82	0.0141	0.0062 *
Venus	111465-01-05 11:01 G	42432819.75	42432819.96	42432820.17	0.0141	0.0045
Moon	111465-07-21 20:08 G	42433017.12	42433017.34	42433017.59	0.0141	0.0046
Earth	111465-07-21 21:49 G	42433017.17	42433017.41	42433017.66	0.0141	0.0046 *
Venus	111465-08-19 21:49 G	42433046.22	42433046.41	42433046.62	0.0141	0.0062
Venus	111466-04-03 09:06 G	42433272.71	42433272.88	42433273.08	0.0142	0.0079
Venus	111466-11-15 20:51 G	42433499.21	42433499.37	42433499.53	0.0142	0.0095
Venus	111467-06-30 08:08 G	42433725.72	42433725.84	42433725.99	0.0142	0.0112
Venus	111468-02-11 20:08 G	42433952.25	42433952.34	42433952.44	0.0142	0.0128
Mars	111476-09-07 02:08 G	42437082.34	42437082.59	42437082.89	0.0143	0.0084
Mercury	111497-09-27 05:44 G	42444772.66	42444772.74	42444772.83	0.0139	0.0121
Mercury	111497-12-24 12:42 G	42444860.91	42444861.03	42444861.17	0.0139	0.0095
Mercury	111498-03-22 19:54 G	42444949.17	42444949.33	42444949.50	0.0139	0.0069
Mercury	111498-06-19 03:06 G	42445037.46	42445037.63	42445037.81	0.0139	0.0043
Venus	111498-07-01 13:10 G	42445050.03	42445050.05	42445050.11	0.0139	0.0136
Mercury	111498-09-15 10:18 G	42445125.75	42445125.93	42445126.12	0.0139	0.0016
Mercury	111498-12-12 17:30 G	42445214.04	42445214.23	42445214.42	0.0138	0.0010

Venus	111499-02-12 21:34 G	42445276.30	42445276.40	42445276.51	0.0138	0.0121
Mercury	111499-03-11 00:42 G	42445302.35	42445302.53	42445302.71	0.0138	0.0037
Mercury	111499-06-07 07:54 G	42445390.67	42445390.83	42445391.00	0.0138	0.0064
Mercury	111499-09-03 15:06 G	42445479.00	42445479.13	42445479.28	0.0138	0.0090
Venus	111499-09-27 05:44 G	42445502.61	42445502.74	42445502.88	0.0138	0.0106
Mercury	111499-11-30 22:18 G	42445567.35	42445567.43	42445567.54	0.0138	0.0117
Venus	111500-05-11 13:39 G	42445728.91	42445729.07	42445729.24	0.0138	0.0090
Jupiter	111500-07-19 03:34 G	42445797.51	42445797.65	42445797.87	0.0138	0.0129
Venus	111500-12-23 21:06 G	42445955.21	42445955.38	42445955.57	0.0138	0.0075
Venus	111501-08-07 04:32 G	42446181.50	42446181.69	42446181.89	0.0138	0.0060
Venus	111502-03-21 11:44 G	42446407.80	42446407.99	42446408.21	0.0138	0.0045
Venus	111502-11-02 19:10 G	42446634.09	42446634.30	42446634.51	0.0137	0.0029
Venus	111503-06-17 02:08 G	42446860.38	42446860.59	42446860.81	0.0137	0.0014
Venus	111504-01-29 08:51 G	42447086.65	42447086.87	42447087.08	0.0137	0.0001
Venus	111504-09-11 15:20 G	42447312.93	42447313.14	42447313.35	0.0137	0.0016
Moon	111505-01-18 11:44 G	42447441.80	42447441.99	42447442.21	0.0137	0.0083
Earth	111505-01-18 14:22 G	42447441.92	42447442.10	42447442.31	0.0137	0.0088 *
Venus	111505-04-25 21:49 G	42447539.20	42447539.41	42447539.62	0.0137	0.0031
Venus	111505-12-08 04:03 G	42447765.47	42447765.67	42447765.87	0.0137	0.0046
Earth	111506-01-23 01:10 G	42447811.30	42447811.55	42447811.80	0.0137	0.0011
Moon	111506-01-23 03:06 G	42447811.39	42447811.63	42447811.88	0.0137	0.0011 *
Venus	111506-07-22 09:49 G	42447991.73	42447991.91	42447992.11	0.0137	0.0061
Moon	111507-01-27 08:22 G	42448180.71	42448180.85	42448181.03	0.0137	0.0107
Earth	111507-01-27 10:46 G	42448180.82	42448180.95	42448181.12	0.0137	0.0109 *
Venus	111507-03-05 15:49 G	42448217.99	42448218.16	42448218.35	0.0136	0.0075
Venus	111507-10-17 21:34 G	42448444.25	42448444.40	42448444.57	0.0136	0.0089
Venus	111508-05-31 03:06 G	42448670.51	42448670.63	42448670.79	0.0136	0.0103
Venus	111509-01-12 08:51 G	42448896.77	42448896.87	42448896.99	0.0136	0.0117
Venus	111509-08-26 14:08 G	42449123.05	42449123.09	42449123.17	0.0136	0.0130
Mars	111519-02-04 05:01 G	42452571.43	42452571.71	42452571.99	0.0135	0.0017

Mercury	111540-10-01 19:25 G	42460482.25	42460482.31	42460482.36	0.0139	0.0126
Mercury	111540-12-28 22:46 G	42460570.37	42460570.45	42460570.55	0.0139	0.0107
Mercury	111541-03-27 02:22 G	42460658.50	42460658.60	42460658.72	0.0139	0.0088
Mercury	111541-06-23 06:13 G	42460746.64	42460746.76	42460746.88	0.0139	0.0067
Mercury	111541-09-19 09:49 G	42460834.78	42460834.91	42460835.04	0.0139	0.0048
Venus	111541-11-11 03:06 G	42460887.62	42460887.63	42460887.69	0.0139	0.0138
Mercury	111541-12-16 13:25 G	42460922.93	42460923.06	42460923.20	0.0139	0.0028
Mercury	111542-03-14 17:01 G	42461011.08	42461011.21	42461011.35	0.0139	0.0008
Mercury	111542-06-10 20:37 G	42461099.22	42461099.36	42461099.49	0.0139	0.0012
Venus	111542-06-25 12:13 G	42461113.93	42461114.01	42461114.13	0.0139	0.0123
Mercury	111542-09-06 23:58 G	42461187.38	42461187.50	42461187.64	0.0140	0.0032
Mercury	111542-12-04 03:34 G	42461275.53	42461275.65	42461275.78	0.0140	0.0051
Venus	111543-02-06 21:34 G	42461340.27	42461340.40	42461340.55	0.0140	0.0108
Mercury	111543-03-02 07:10 G	42461363.69	42461363.80	42461363.92	0.0140	0.0070
Mercury	111543-05-29 10:32 G	42461451.85	42461451.94	42461452.05	0.0140	0.0090
Mercury	111543-08-25 14:08 G	42461540.01	42461540.09	42461540.18	0.0140	0.0109
Venus	111543-09-21 07:10 G	42461566.64	42461566.80	42461566.97	0.0140	0.0092
Mercury	111543-11-21 17:44 G	42461628.19	42461628.24	42461628.29	0.0140	0.0128
Venus	111544-05-04 17:01 G	42461793.03	42461793.21	42461793.39	0.0140	0.0076
Venus	111544-12-17 02:37 G	42462019.42	42462019.61	42462019.82	0.0140	0.0061
Venus	111545-07-31 12:27 G	42462245.82	42462246.02	42462246.24	0.0140	0.0045
Venus	111546-03-14 22:46 G	42462472.24	42462472.45	42462472.67	0.0141	0.0028
Venus	111546-10-27 09:06 G	42462698.67	42462698.88	42462699.11	0.0141	0.0012
Venus	111547-06-10 19:39 G	42462925.10	42462925.32	42462925.55	0.0141	0.0006
Venus	111548-01-23 06:27 G	42463151.55	42463151.77	42463151.99	0.0141	0.0022
Moon	111548-07-18 06:42 G	42463328.57	42463328.78	42463329.02	0.0141	0.0065
Earth	111548-07-18 10:32 G	42463328.71	42463328.94	42463329.17	0.0141	0.0061 *
Venus	111548-09-05 17:01 G	42463378.01	42463378.21	42463378.43	0.0141	0.0040
Venus	111549-04-20 04:03 G	42463604.48	42463604.67	42463604.89	0.0141	0.0057
Earth	111549-07-23 06:56 G	42463698.57	42463698.79	42463699.05	0.0141	0.0051

Moon	111549-07-23 10:32 G	42463698.72	42463698.94	42463699.19	0.0141	0.0057 *
Venus	111549-12-02 15:20 G	42463830.96	42463831.14	42463831.34	0.0141	0.0073
Venus	111550-07-17 02:37 G	42464057.45	42464057.61	42464057.79	0.0142	0.0090
Venus	111551-02-28 13:54 G	42464283.96	42464284.08	42464284.24	0.0142	0.0107
Venus	111551-10-13 01:54 G	42464510.48	42464510.58	42464510.70	0.0142	0.0123
Venus	111552-05-26 13:54 G	42464737.05	42464737.08	42464737.13	0.0142	0.0139
Mars	111561-05-05 09:34 G	42468002.67	42468002.90	42468003.16	0.0143	0.0097
Mercury	111581-10-18 11:58 G	42475473.92	42475474.00	42475474.11	0.0139	0.0117
Mercury	111582-01-14 19:10 G	42475562.17	42475562.30	42475562.45	0.0139	0.0091
Mercury	111582-04-13 02:22 G	42475650.44	42475650.60	42475650.77	0.0139	0.0064
Mercury	111582-07-10 09:34 G	42475738.72	42475738.90	42475739.08	0.0139	0.0038
Mercury	111582-10-06 16:46 G	42475827.01	42475827.20	42475827.39	0.0138	0.0012
Venus	111582-10-14 04:46 G	42475834.62	42475834.70	42475834.79	0.0138	0.0126
Mercury	111583-01-02 23:58 G	42475915.31	42475915.50	42475915.69	0.0138	0.0015
Mercury	111583-04-01 07:10 G	42476003.62	42476003.80	42476003.98	0.0138	0.0041
Venus	111583-05-28 12:56 G	42476060.92	42476061.04	42476061.17	0.0138	0.0111
Mercury	111583-06-28 14:08 G	42476091.94	42476092.09	42476092.27	0.0138	0.0069
Mercury	111583-09-24 21:34 G	42476180.27	42476180.40	42476180.54	0.0138	0.0095
Mercury	111583-12-22 04:46 G	42476268.62	42476268.70	42476268.80	0.0138	0.0122
Venus	111584-01-09 20:51 G	42476287.22	42476287.37	42476287.53	0.0138	0.0096
Venus	111584-08-23 04:32 G	42476513.52	42476513.69	42476513.87	0.0138	0.0080
Venus	111585-04-06 12:13 G	42476739.82	42476740.01	42476740.20	0.0138	0.0065
Venus	111585-11-18 19:39 G	42476966.12	42476966.32	42476966.52	0.0138	0.0050
Venus	111586-07-03 02:37 G	42477192.41	42477192.61	42477192.83	0.0138	0.0035
Venus	111587-02-14 09:49 G	42477418.70	42477418.91	42477419.12	0.0137	0.0019
Venus	111587-09-28 16:46 G	42477644.98	42477645.20	42477645.41	0.0137	0.0004
Venus	111588-05-11 23:15 G	42477871.26	42477871.47	42477871.69	0.0137	0.0012
Venus	111588-12-24 05:44 G	42478097.53	42478097.74	42478097.96	0.0137	0.0026
Moon	111589-01-18 21:34 G	42478123.23	42478123.40	42478123.60	0.0137	0.0089
Earth	111589-01-18 22:03 G	42478123.25	42478123.42	42478123.64	0.0137	0.0086 *

Venus	111589-08-07 11:58 G	42478323.80	42478324.00	42478324.21	0.0137	0.0041
Earth	111590-01-23 09:06 G	42478492.63	42478492.88	42478493.14	0.0137	0.0013
Moon	111590-01-23 10:03 G	42478492.67	42478492.92	42478493.18	0.0137	0.0019 *
Venus	111590-03-21 18:13 G	42478550.07	42478550.26	42478550.46	0.0137	0.0056
Venus	111590-11-03 00:13 G	42478776.34	42478776.51	42478776.70	0.0137	0.0071
Moon	111591-01-27 18:13 G	42478862.12	42478862.26	42478862.44	0.0137	0.0105
Earth	111591-01-27 18:56 G	42478862.16	42478862.29	42478862.45	0.0137	0.0111 *
Venus	111591-06-17 06:13 G	42479002.60	42479002.76	42479002.93	0.0136	0.0085
Venus	111592-01-29 11:58 G	42479228.86	42479229.00	42479229.15	0.0136	0.0099
Venus	111592-09-11 17:30 G	42479455.12	42479455.23	42479455.36	0.0136	0.0112
Venus	111593-04-25 22:46 G	42479681.39	42479681.45	42479681.55	0.0136	0.0127
Mercury	111624-10-22 02:37 G	42491183.55	42491183.61	42491183.68	0.0139	0.0121
Mercury	111625-01-18 06:13 G	42491271.67	42491271.76	42491271.85	0.0139	0.0101
Mercury	111625-04-16 09:49 G	42491359.80	42491359.91	42491360.02	0.0139	0.0082
Mercury	111625-07-13 13:25 G	42491447.94	42491448.06	42491448.19	0.0139	0.0062
Mercury	111625-10-09 17:01 G	42491536.08	42491536.21	42491536.34	0.0139	0.0043
Mercury	111626-01-05 20:37 G	42491624.23	42491624.36	42491624.50	0.0139	0.0023
Venus	111626-02-22 20:37 G	42491672.27	42491672.36	42491672.45	0.0139	0.0127
Mercury	111626-04-04 00:13 G	42491712.38	42491712.51	42491712.65	0.0139	0.0005
Mercury	111626-07-01 03:49 G	42491800.53	42491800.66	42491800.80	0.0139	0.0017
Mercury	111626-09-27 07:25 G	42491888.68	42491888.81	42491888.94	0.0140	0.0036
Venus	111626-10-07 05:44 G	42491898.61	42491898.74	42491898.87	0.0140	0.0112
Mercury	111626-12-24 10:46 G	42491976.83	42491976.95	42491977.08	0.0140	0.0056
Mercury	111627-03-22 14:22 G	42492064.99	42492065.10	42492065.22	0.0140	0.0075
Venus	111627-05-21 14:37 G	42492124.97	42492125.11	42492125.28	0.0140	0.0097
Mercury	111627-06-18 17:44 G	42492153.15	42492153.24	42492153.35	0.0140	0.0095
Mercury	111627-09-14 21:20 G	42492241.32	42492241.39	42492241.47	0.0140	0.0114
Mercury	111627-12-12 00:56 G	42492329.50	42492329.54	42492329.58	0.0140	0.0133
Venus	111628-01-03 00:13 G	42492351.34	42492351.51	42492351.70	0.0140	0.0081
Venus	111628-08-16 10:03 G	42492577.73	42492577.92	42492578.12	0.0140	0.0065

Venus	111629-03-30 19:54 G	42492804.13	42492804.33	42492804.54	0.0140	0.0049
Venus	111629-11-12 05:58 G	42493030.54	42493030.75	42493030.97	0.0140	0.0033
Venus	111630-06-26 16:03 G	42493256.96	42493257.17	42493257.40	0.0141	0.0017
Venus	111631-02-08 02:37 G	42493483.39	42493483.61	42493483.83	0.0141	0.0002
Venus	111631-09-22 13:10 G	42493709.83	42493710.05	42493710.27	0.0141	0.0017
Venus	111632-05-05 23:44 G	42493936.29	42493936.49	42493936.71	0.0141	0.0035
Earth	111632-07-18 19:54 G	42494010.11	42494010.33	42494010.58	0.0141	0.0056
Moon	111632-07-18 23:01 G	42494010.25	42494010.46	42494010.70	0.0141	0.0065 *
Venus	111632-12-18 10:32 G	42494162.75	42494162.94	42494163.16	0.0141	0.0052
Moon	111633-07-23 14:08 G	42494379.85	42494380.09	42494380.32	0.0141	0.0062
Earth	111633-07-23 17:01 G	42494379.98	42494380.21	42494380.46	0.0141	0.0055 *
Venus	111633-08-01 21:49 G	42494389.22	42494389.41	42494389.61	0.0141	0.0068
Venus	111634-03-16 09:06 G	42494615.71	42494615.88	42494616.06	0.0141	0.0085
Venus	111634-10-28 20:22 G	42494842.21	42494842.35	42494842.51	0.0142	0.0102
Venus	111635-06-12 08:08 G	42495068.73	42495068.84	42495068.97	0.0142	0.0118
Venus	111636-01-24 19:39 G	42495295.27	42495295.32	42495295.41	0.0142	0.0135
Mercury	111665-08-11 11:30 G	42506086.98	42506086.98	42506087.02	0.0139	0.0138
Mercury	111665-11-07 18:42 G	42506175.18	42506175.28	42506175.40	0.0139	0.0112
Mercury	111666-02-04 01:54 G	42506263.44	42506263.58	42506263.73	0.0139	0.0086
Mercury	111666-05-03 08:51 G	42506351.71	42506351.87	42506352.05	0.0139	0.0060
Venus	111666-06-13 11:58 G	42506392.94	42506393.00	42506393.08	0.0139	0.0131
Mercury	111666-07-30 16:03 G	42506440.00	42506440.17	42506440.36	0.0139	0.0034
Mercury	111666-10-26 23:30 G	42506528.29	42506528.48	42506528.66	0.0138	0.0007
Mercury	111667-01-23 06:42 G	42506616.59	42506616.78	42506616.96	0.0138	0.0020
Venus	111667-01-25 20:22 G	42506619.24	42506619.35	42506619.47	0.0138	0.0116
Mercury	111667-04-21 13:39 G	42506704.90	42506705.07	42506705.25	0.0138	0.0047
Mercury	111667-07-18 20:51 G	42506793.22	42506793.37	42506793.54	0.0138	0.0073
Venus	111667-09-09 04:18 G	42506845.54	42506845.68	42506845.84	0.0138	0.0101
Mercury	111667-10-15 04:18 G	42506881.55	42506881.68	42506881.81	0.0138	0.0100
Mercury	111668-01-11 11:30 G	42506969.91	42506969.98	42506970.06	0.0138	0.0126

Venus	111668-04-22 12:13 G	42507071.85	42507072.01	42507072.19	0.0138	0.0085
Venus	111668-12-04 19:54 G	42507298.15	42507298.33	42507298.52	0.0138	0.0070
Venus	111669-07-19 03:20 G	42507524.45	42507524.64	42507524.84	0.0138	0.0055
Venus	111670-03-02 10:32 G	42507750.74	42507750.94	42507751.16	0.0138	0.0040
Venus	111670-10-14 17:58 G	42507977.04	42507977.25	42507977.46	0.0137	0.0024
Venus	111671-05-29 00:42 G	42508203.32	42508203.53	42508203.75	0.0137	0.0009
Venus	111672-01-10 07:25 G	42508429.60	42508429.81	42508430.03	0.0137	0.0007
Venus	111672-08-23 13:54 G	42508655.87	42508656.08	42508656.30	0.0137	0.0022
Earth	111673-01-19 06:42 G	42508804.59	42508804.78	42508804.99	0.0137	0.0083
Moon	111673-01-19 10:18 G	42508804.74	42508804.93	42508805.12	0.0137	0.0090 *
Venus	111673-04-06 20:22 G	42508882.15	42508882.35	42508882.56	0.0137	0.0037
Venus	111673-11-19 02:51 G	42509108.42	42509108.62	42509108.82	0.0137	0.0051
Moon	111674-01-23 14:22 G	42509173.85	42509174.10	42509174.34	0.0137	0.0023
Earth	111674-01-23 17:30 G	42509173.98	42509174.23	42509174.48	0.0137	0.0015 *
Venus	111674-07-03 08:51 G	42509334.69	42509334.87	42509335.07	0.0137	0.0066
Earth	111675-01-28 03:06 G	42509543.52	42509543.63	42509543.79	0.0137	0.0114
Moon	111675-01-28 06:27 G	42509543.63	42509543.77	42509543.94	0.0137	0.0108 *
Venus	111675-02-14 14:37 G	42509560.95	42509561.11	42509561.30	0.0136	0.0081
Venus	111675-09-28 20:37 G	42509787.22	42509787.36	42509787.52	0.0136	0.0095
Venus	111676-05-12 02:22 G	42510013.48	42510013.60	42510013.74	0.0136	0.0108
Venus	111676-12-24 08:08 G	42510239.76	42510239.84	42510239.94	0.0136	0.0122
Venus	111677-08-07 13:54 G	42510466.07	42510466.08	42510466.10	0.0136	0.0135
Mars	111686-06-24 03:49 G	42513708.44	42513708.66	42513708.91	0.0135	0.0074
Mercury	111708-08-16 05:58 G	42521796.74	42521796.75	42521796.79	0.0139	0.0136
Mercury	111708-11-12 09:49 G	42521884.84	42521884.91	42521884.99	0.0139	0.0116
Mercury	111709-02-08 13:25 G	42521972.97	42521973.06	42521973.16	0.0139	0.0096
Mercury	111709-05-07 17:15 G	42522061.10	42522061.22	42522061.33	0.0139	0.0077
Mercury	111709-08-03 20:37 G	42522149.24	42522149.36	42522149.49	0.0139	0.0057
Venus	111709-10-24 04:18 G	42522230.62	42522230.68	42522230.76	0.0139	0.0132
Mercury	111709-10-31 00:13 G	42522237.39	42522237.51	42522237.65	0.0139	0.0038

Mercury	111710-01-27 04:03 G	42522325.53	42522325.67	42522325.80	0.0139	0.0018
Mercury	111710-04-25 07:39 G	42522413.68	42522413.82	42522413.95	0.0139	0.0004
Venus	111710-06-07 13:10 G	42522456.95	42522457.05	42522457.19	0.0139	0.0117
Mercury	111710-07-22 11:01 G	42522501.83	42522501.96	42522502.10	0.0140	0.0022
Mercury	111710-10-18 14:37 G	42522589.98	42522590.11	42522590.24	0.0140	0.0041
Mercury	111711-01-14 18:13 G	42522678.14	42522678.26	42522678.38	0.0140	0.0061
Venus	111711-01-19 22:18 G	42522683.30	42522683.43	42522683.60	0.0140	0.0102
Mercury	111711-04-12 21:34 G	42522766.30	42522766.40	42522766.52	0.0140	0.0080
Mercury	111711-07-10 01:10 G	42522854.46	42522854.55	42522854.65	0.0140	0.0100
Venus	111711-09-03 07:54 G	42522909.67	42522909.83	42522910.01	0.0140	0.0086
Mercury	111711-10-06 04:32 G	42522942.63	42522942.69	42522942.77	0.0140	0.0119
Mercury	111712-01-02 08:08 G	42523030.83	42523030.84	42523030.86	0.0140	0.0138
Venus	111712-04-16 17:30 G	42523136.05	42523136.23	42523136.43	0.0140	0.0070
Venus	111712-11-29 03:20 G	42523362.44	42523362.64	42523362.85	0.0140	0.0054
Venus	111713-07-13 13:25 G	42523588.85	42523589.06	42523589.27	0.0140	0.0038
Venus	111714-02-24 23:15 G	42523815.26	42523815.47	42523815.69	0.0141	0.0022
Venus	111714-10-09 09:34 G	42524041.68	42524041.90	42524042.12	0.0141	0.0005
Venus	111715-05-23 20:08 G	42524268.12	42524268.34	42524268.56	0.0141	0.0012
Venus	111716-01-05 06:42 G	42524494.57	42524494.78	42524495.00	0.0141	0.0029
Moon	111716-07-20 05:44 G	42524691.50	42524691.74	42524691.99	0.0141	0.0057
Earth	111716-07-20 06:27 G	42524691.54	42524691.77	42524692.01	0.0141	0.0051 *
Venus	111716-08-18 17:30 G	42524721.03	42524721.23	42524721.44	0.0141	0.0046
Venus	111717-04-02 04:18 G	42524947.50	42524947.68	42524947.89	0.0141	0.0064
Earth	111717-07-25 03:20 G	42525061.42	42525061.64	42525061.88	0.0141	0.0059
Moon	111717-07-25 03:20 G	42525061.43	42525061.64	42525061.87	0.0141	0.0061 *
Venus	111717-11-14 15:49 G	42525173.98	42525174.16	42525174.34	0.0141	0.0080
Venus	111718-06-29 03:06 G	42525400.48	42525400.63	42525400.80	0.0141	0.0097
Venus	111719-02-10 14:22 G	42525626.99	42525627.10	42525627.25	0.0142	0.0114
Venus	111719-09-25 02:22 G	42525853.52	42525853.60	42525853.69	0.0142	0.0130
Mars	111728-09-20 09:34 G	42529136.59	42529136.90	42529137.24	0.0143	0.0035

Mercury	111749-09-01 18:42 G	42536788.22	42536788.28	42536788.33	0.0139	0.0132
Mercury	111749-11-29 01:25 G	42536876.45	42536876.56	42536876.68	0.0139	0.0107
Venus	111750-02-11 19:10 G	42536951.27	42536951.30	42536951.35	0.0139	0.0136
Mercury	111750-02-25 08:22 G	42536964.71	42536964.85	42536965.01	0.0139	0.0081
Mercury	111750-05-24 15:34 G	42537052.99	42537053.15	42537053.33	0.0139	0.0055
Mercury	111750-08-20 22:46 G	42537141.27	42537141.45	42537141.64	0.0138	0.0028
Venus	111750-09-26 03:49 G	42537177.56	42537177.66	42537177.77	0.0138	0.0121
Mercury	111750-11-17 05:58 G	42537229.57	42537229.75	42537229.94	0.0138	0.0002
Mercury	111751-02-13 13:10 G	42537317.87	42537318.05	42537318.24	0.0138	0.0025
Venus	111751-05-10 11:58 G	42537403.86	42537404.00	42537404.14	0.0138	0.0106
Mercury	111751-05-12 20:22 G	42537406.18	42537406.35	42537406.53	0.0138	0.0051
Mercury	111751-08-09 03:20 G	42537494.50	42537494.64	42537494.81	0.0138	0.0078
Mercury	111751-11-05 10:46 G	42537582.84	42537582.95	42537583.08	0.0138	0.0104
Venus	111751-12-22 19:39 G	42537630.17	42537630.32	42537630.49	0.0138	0.0091
Mercury	111752-02-01 17:58 G	42537671.20	42537671.25	42537671.32	0.0138	0.0131
Venus	111752-08-05 03:20 G	42537856.47	42537856.64	42537856.83	0.0138	0.0075
Venus	111753-03-19 10:46 G	42538082.77	42538082.95	42538083.16	0.0138	0.0060
Venus	111753-10-31 18:27 G	42538309.07	42538309.27	42538309.48	0.0138	0.0044
Venus	111754-06-15 01:39 G	42538535.36	42538535.57	42538535.78	0.0138	0.0029
Venus	111755-01-27 08:37 G	42538761.65	42538761.86	42538762.07	0.0137	0.0014
Venus	111755-09-10 15:20 G	42538987.93	42538988.14	42538988.36	0.0137	0.0002
Venus	111756-04-23 22:03 G	42539214.21	42539214.42	42539214.63	0.0137	0.0017
Venus	111756-12-06 04:32 G	42539440.49	42539440.69	42539440.90	0.0137	0.0032
Moon	111757-01-20 11:15 G	42539485.79	42539485.97	42539486.19	0.0137	0.0086
Earth	111757-01-20 14:37 G	42539485.92	42539486.11	42539486.33	0.0137	0.0081 *
Venus	111757-07-20 10:46 G	42539666.76	42539666.95	42539667.16	0.0137	0.0047
Earth	111758-01-25 01:25 G	42539855.32	42539855.56	42539855.82	0.0137	0.0018
Moon	111758-01-25 04:46 G	42539855.46	42539855.70	42539855.95	0.0137	0.0021 *
Venus	111758-03-03 17:15 G	42539893.03	42539893.22	42539893.41	0.0137	0.0061
Venus	111758-10-15 23:15 G	42540119.30	42540119.47	42540119.65	0.0137	0.0076

Moon	111759-01-29 08:22 G	42540224.74	42540224.85	42540225.00	0.0136	0.0117
Earth	111759-01-29 11:30 G	42540224.86	42540224.98	42540225.13	0.0136	0.0116 *
Venus	111759-05-30 05:01 G	42540345.56	42540345.71	42540345.88	0.0136	0.0090
Venus	111760-01-11 10:46 G	42540571.83	42540571.95	42540572.11	0.0136	0.0105
Venus	111760-08-24 16:32 G	42540798.10	42540798.19	42540798.31	0.0136	0.0118
Venus	111761-04-07 22:32 G	42541024.39	42541024.44	42541024.50	0.0136	0.0131
Mars	111771-02-17 05:58 G	42544626.49	42544626.75	42544627.02	0.0135	0.0050
Mercury	111792-09-05 13:25 G	42552498.02	42552498.06	42552498.11	0.0139	0.0131
Mercury	111792-12-02 17:01 G	42552586.13	42552586.21	42552586.30	0.0139	0.0111
Mercury	111793-02-28 20:37 G	42552674.26	42552674.36	42552674.47	0.0139	0.0092
Mercury	111793-05-28 00:27 G	42552762.40	42552762.52	42552762.63	0.0139	0.0072
Venus	111793-06-23 11:58 G	42552788.98	42552789.00	42552789.06	0.0139	0.0137
Mercury	111793-08-24 03:49 G	42552850.54	42552850.66	42552850.79	0.0139	0.0053
Mercury	111793-11-20 07:39 G	42552938.69	42552938.82	42552938.95	0.0139	0.0032
Venus	111794-02-04 20:51 G	42553015.28	42553015.37	42553015.49	0.0139	0.0122
Mercury	111794-02-16 11:15 G	42553026.83	42553026.97	42553027.10	0.0140	0.0013
Mercury	111794-05-15 14:37 G	42553114.98	42553115.11	42553115.25	0.0140	0.0009
Mercury	111794-08-11 18:13 G	42553203.13	42553203.26	42553203.40	0.0140	0.0027
Venus	111794-09-19 05:58 G	42553241.63	42553241.75	42553241.91	0.0140	0.0107
Mercury	111794-11-07 21:49 G	42553291.28	42553291.41	42553291.54	0.0140	0.0046
Mercury	111795-02-04 01:25 G	42553379.44	42553379.56	42553379.68	0.0140	0.0066
Mercury	111795-05-03 04:46 G	42553467.60	42553467.70	42553467.81	0.0140	0.0085
Venus	111795-05-03 15:34 G	42553467.99	42553468.15	42553468.32	0.0140	0.0091
Mercury	111795-07-30 08:08 G	42553555.77	42553555.84	42553555.94	0.0140	0.0105
Mercury	111795-10-26 11:44 G	42553643.94	42553643.99	42553644.06	0.0140	0.0124
Venus	111795-12-16 00:56 G	42553694.37	42553694.54	42553694.73	0.0140	0.0075
Venus	111796-07-29 10:32 G	42553920.75	42553920.94	42553921.15	0.0140	0.0059
Venus	111797-03-12 20:22 G	42554147.15	42554147.35	42554147.57	0.0140	0.0043
Venus	111797-10-25 06:27 G	42554373.56	42554373.77	42554373.99	0.0140	0.0027
Venus	111798-06-08 16:46 G	42554599.98	42554600.20	42554600.42	0.0141	0.0010

Venus	111799-01-21 03:06 G	42554826.41	42554826.63	42554826.85	0.0141	0.0007
Venus	111799-09-04 13:39 G	42555052.85	42555053.07	42555053.29	0.0141	0.0024
Venus	111800-04-19 00:27 G	42555279.31	42555279.52	42555279.73	0.0141	0.0041
Moon	111800-07-21 14:22 G	42555372.87	42555373.10	42555373.34	0.0141	0.0045
Earth	111800-07-21 16:32 G	42555372.96	42555373.19	42555373.44	0.0141	0.0047 *
Venus	111800-12-01 11:15 G	42555505.78	42555505.97	42555506.18	0.0141	0.0058
Venus	111801-07-15 22:32 G	42555732.26	42555732.44	42555732.63	0.0141	0.0075
Earth	111801-07-26 13:39 G	42555742.85	42555743.07	42555743.31	0.0141	0.0065
Moon	111801-07-26 16:46 G	42555742.97	42555743.20	42555743.45	0.0141	0.0058 *
Venus	111802-02-27 09:49 G	42555958.75	42555958.91	42555959.08	0.0141	0.0092
Venus	111802-10-11 21:06 G	42556185.25	42556185.38	42556185.53	0.0142	0.0109
Venus	111803-05-26 09:06 G	42556411.78	42556411.88	42556411.99	0.0142	0.0125
Venus	111804-01-07 20:37 G	42556638.36	42556638.36	42556638.39	0.0142	0.0142
Mercury	111833-09-23 01:25 G	42567489.50	42567489.56	42567489.65	0.0139	0.0126
Mercury	111833-12-20 08:37 G	42567577.74	42567577.86	42567577.99	0.0139	0.0100
Mercury	111834-03-18 15:49 G	42567666.00	42567666.16	42567666.31	0.0139	0.0074
Venus	111834-05-27 11:58 G	42567735.92	42567736.00	42567736.09	0.0139	0.0126
Mercury	111834-06-14 22:46 G	42567754.28	42567754.45	42567754.63	0.0139	0.0048
Mercury	111834-09-11 05:58 G	42567842.57	42567842.75	42567842.93	0.0138	0.0022
Mercury	111834-12-08 13:10 G	42567930.86	42567931.05	42567931.23	0.0138	0.0005
Venus	111835-01-08 20:08 G	42567962.21	42567962.34	42567962.47	0.0138	0.0111
Mercury	111835-03-06 20:08 G	42568019.16	42568019.34	42568019.53	0.0138	0.0031
Mercury	111835-06-03 03:20 G	42568107.48	42568107.64	42568107.82	0.0138	0.0058
Venus	111835-08-23 04:03 G	42568188.52	42568188.67	42568188.83	0.0138	0.0095
Mercury	111835-08-30 10:18 G	42568195.80	42568195.93	42568196.09	0.0138	0.0085
Mercury	111835-11-26 17:44 G	42568284.14	42568284.24	42568284.36	0.0138	0.0111
Mercury	111836-02-23 00:56 G	42568372.53	42568372.54	42568372.57	0.0138	0.0137
Venus	111836-04-05 11:44 G	42568414.82	42568414.99	42568415.17	0.0138	0.0080
Venus	111836-11-17 19:25 G	42568641.13	42568641.31	42568641.51	0.0138	0.0065
Venus	111837-07-02 02:51 G	42568867.42	42568867.62	42568867.83	0.0138	0.0050

Venus	111838-02-13 10:18 G	42569093.72	42569093.93	42569094.14	0.0138	0.0034
Venus	111838-09-27 17:15 G	42569320.01	42569320.22	42569320.44	0.0137	0.0019
Venus	111839-05-12 00:13 G	42569546.29	42569546.51	42569546.72	0.0137	0.0003
Venus	111839-12-24 06:56 G	42569772.57	42569772.79	42569773.00	0.0137	0.0012
Venus	111840-08-06 13:25 G	42569998.85	42569999.06	42569999.27	0.0137	0.0027
Earth	111841-01-22 00:13 G	42570167.31	42570167.51	42570167.72	0.0137	0.0077
Moon	111841-01-22 00:56 G	42570167.35	42570167.54	42570167.76	0.0137	0.0075 *
Venus	111841-03-20 19:54 G	42570225.13	42570225.33	42570225.54	0.0137	0.0042
Venus	111841-11-02 02:08 G	42570451.40	42570451.59	42570451.79	0.0137	0.0057
Moon	111842-01-26 09:49 G	42570536.66	42570536.91	42570537.18	0.0137	0.0018
Earth	111842-01-26 10:46 G	42570536.71	42570536.95	42570537.21	0.0137	0.0022 *
Venus	111842-06-16 08:08 G	42570677.67	42570677.84	42570678.04	0.0137	0.0072
Venus	111843-01-28 14:22 G	42570903.94	42570904.10	42570904.27	0.0136	0.0086
Earth	111843-01-30 20:37 G	42570906.27	42570906.36	42570906.51	0.0136	0.0120
Moon	111843-01-30 21:06 G	42570906.31	42570906.38	42570906.49	0.0136	0.0127 *
Venus	111843-09-11 20:08 G	42571130.21	42571130.34	42571130.50	0.0136	0.0100
Venus	111844-04-25 01:54 G	42571356.48	42571356.58	42571356.71	0.0136	0.0114
Venus	111844-12-07 08:08 G	42571582.77	42571582.84	42571582.91	0.0136	0.0127
Mercury	111876-09-26 20:22 G	42583199.31	42583199.35	42583199.41	0.0139	0.0127
Mercury	111876-12-23 23:58 G	42583287.43	42583287.50	42583287.60	0.0139	0.0108
Mercury	111877-03-22 03:49 G	42583375.56	42583375.66	42583375.77	0.0139	0.0087
Mercury	111877-06-18 07:25 G	42583463.69	42583463.81	42583463.93	0.0139	0.0068
Mercury	111877-09-14 11:01 G	42583551.84	42583551.96	42583552.09	0.0139	0.0048
Venus	111877-10-06 04:18 G	42583573.61	42583573.68	42583573.79	0.0139	0.0127
Mercury	111877-12-11 14:37 G	42583639.98	42583640.11	42583640.25	0.0140	0.0028
Mercury	111878-03-09 18:13 G	42583728.13	42583728.26	42583728.40	0.0140	0.0009
Venus	111878-05-20 13:25 G	42583799.94	42583800.06	42583800.20	0.0140	0.0112
Mercury	111878-06-05 21:49 G	42583816.28	42583816.41	42583816.55	0.0140	0.0011
Mercury	111878-09-02 01:25 G	42583904.43	42583904.56	42583904.69	0.0140	0.0031
Mercury	111878-11-29 04:46 G	42583992.58	42583992.70	42583992.83	0.0140	0.0051

Venus	111879-01-01 22:46 G	42584026.30	42584026.45	42584026.61	0.0140	0.0096
Mercury	111879-02-25 08:22 G	42584080.74	42584080.85	42584080.97	0.0140	0.0070
Mercury	111879-05-24 11:58 G	42584168.90	42584169.00	42584169.11	0.0140	0.0089
Venus	111879-08-16 07:54 G	42584252.66	42584252.83	42584253.02	0.0140	0.0081
Mercury	111879-08-20 15:20 G	42584257.07	42584257.14	42584257.23	0.0140	0.0109
Mercury	111879-11-16 18:56 G	42584345.24	42584345.29	42584345.35	0.0140	0.0128
Venus	111880-03-29 17:44 G	42584479.05	42584479.24	42584479.44	0.0140	0.0065
Venus	111880-11-11 03:20 G	42584705.44	42584705.64	42584705.85	0.0140	0.0049
Venus	111881-06-25 13:10 G	42584931.84	42584932.05	42584932.27	0.0140	0.0032
Venus	111882-02-06 23:15 G	42585158.26	42585158.47	42585158.69	0.0141	0.0016
Venus	111882-09-21 09:34 G	42585384.68	42585384.90	42585385.12	0.0141	0.0002
Venus	111883-05-05 20:22 G	42585611.13	42585611.35	42585611.56	0.0141	0.0018
Venus	111883-12-18 06:56 G	42585837.58	42585837.79	42585838.01	0.0141	0.0035
Earth	111884-07-22 02:08 G	42586054.35	42586054.59	42586054.84	0.0141	0.0042
Moon	111884-07-22 05:30 G	42586054.50	42586054.73	42586054.99	0.0141	0.0035 *
Venus	111884-07-31 17:44 G	42586064.04	42586064.24	42586064.45	0.0141	0.0052
Venus	111885-03-15 04:46 G	42586290.51	42586290.70	42586290.90	0.0141	0.0069
Moon	111885-07-26 19:54 G	42586424.11	42586424.33	42586424.57	0.0141	0.0061
Earth	111885-07-26 23:15 G	42586424.27	42586424.47	42586424.71	0.0141	0.0070 *
Venus	111885-10-27 15:49 G	42586517.00	42586517.16	42586517.35	0.0141	0.0087
Venus	111886-06-11 03:20 G	42586743.50	42586743.64	42586743.80	0.0142	0.0104
Venus	111887-01-23 15:06 G	42586970.02	42586970.13	42586970.25	0.0142	0.0120
Venus	111887-09-07 02:51 G	42587196.57	42587196.62	42587196.68	0.0142	0.0136
Mercury	111917-10-14 08:37 G	42598190.78	42598190.86	42598190.96	0.0139	0.0120
Mercury	111918-01-10 15:34 G	42598279.03	42598279.15	42598279.30	0.0139	0.0094
Venus	111918-01-25 20:08 G	42598294.28	42598294.34	42598294.41	0.0139	0.0131
Mercury	111918-04-08 22:46 G	42598367.29	42598367.45	42598367.61	0.0139	0.0068
Mercury	111918-07-06 05:44 G	42598455.57	42598455.74	42598455.92	0.0139	0.0042
Venus	111918-09-09 04:18 G	42598520.57	42598520.68	42598520.80	0.0138	0.0116
Mercury	111918-10-02 12:56 G	42598543.86	42598544.04	42598544.23	0.0138	0.0016

Mercury	111918-12-29 20:08 G	42598632.15	42598632.34	42598632.53	0.0138	0.0011
Mercury	111919-03-28 03:06 G	42598720.46	42598720.63	42598720.82	0.0138	0.0038
Venus	111919-04-23 12:27 G	42598746.88	42598747.02	42598747.17	0.0138	0.0101
Mercury	111919-06-24 10:18 G	42598808.77	42598808.93	42598809.10	0.0138	0.0064
Mercury	111919-09-20 17:30 G	42598897.10	42598897.23	42598897.38	0.0138	0.0090
Venus	111919-12-05 20:08 G	42598973.18	42598973.34	42598973.52	0.0138	0.0086
Mercury	111919-12-18 00:42 G	42598985.44	42598985.53	42598985.64	0.0138	0.0117
Venus	111920-07-19 03:49 G	42599199.48	42599199.66	42599199.85	0.0138	0.0070
Venus	111921-03-02 11:15 G	42599425.78	42599425.97	42599426.18	0.0138	0.0055
Venus	111921-10-14 18:56 G	42599652.08	42599652.29	42599652.49	0.0138	0.0039
Venus	111922-05-29 01:54 G	42599878.37	42599878.58	42599878.80	0.0138	0.0024
Venus	111923-01-10 08:51 G	42600104.66	42600104.87	42600105.09	0.0137	0.0008
Venus	111923-08-24 15:34 G	42600330.94	42600331.15	42600331.37	0.0137	0.0007
Venus	111924-04-06 22:18 G	42600557.22	42600557.43	42600557.64	0.0137	0.0022
Venus	111924-11-19 05:01 G	42600783.50	42600783.71	42600783.92	0.0137	0.0037
Earth	111925-01-23 09:34 G	42600848.69	42600848.90	42600849.12	0.0137	0.0073
Moon	111925-01-23 11:30 G	42600848.77	42600848.98	42600849.22	0.0137	0.0066 *
Venus	111925-07-03 11:15 G	42601009.78	42601009.97	42601010.17	0.0137	0.0052
Moon	111926-01-27 17:58 G	42601218.01	42601218.25	42601218.50	0.0137	0.0019
Earth	111926-01-27 20:22 G	42601218.10	42601218.35	42601218.60	0.0137	0.0026 *
Venus	111926-02-14 17:15 G	42601236.05	42601236.22	42601236.42	0.0137	0.0067
Venus	111926-09-28 23:15 G	42601462.32	42601462.47	42601462.66	0.0136	0.0082
Earth	111927-02-01 05:58 G	42601587.67	42601587.75	42601587.88	0.0136	0.0124
Moon	111927-02-01 09:06 G	42601587.81	42601587.88	42601587.97	0.0136	0.0129 *
Venus	111927-05-13 05:30 G	42601688.59	42601688.73	42601688.89	0.0136	0.0096
Venus	111927-12-25 11:30 G	42601914.86	42601914.98	42601915.11	0.0136	0.0110
Venus	111928-08-07 17:15 G	42602141.14	42602141.22	42602141.32	0.0136	0.0123
Mars	111938-07-09 03:34 G	42605763.38	42605763.65	42605763.92	0.0135	0.0043
Mercury	111960-10-18 03:20 G	42613900.59	42613900.64	42613900.71	0.0139	0.0123
Mercury	111961-01-14 07:10 G	42613988.71	42613988.80	42613988.89	0.0139	0.0103

Mercury	111961-04-12 10:46 G	42614076.85	42614076.95	42614077.06	0.0139	0.0084
Venus	111961-06-06 11:44 G	42614131.93	42614131.99	42614132.07	0.0139	0.0132
Mercury	111961-07-09 14:37 G	42614164.99	42614165.11	42614165.23	0.0139	0.0064
Mercury	111961-10-05 18:13 G	42614253.13	42614253.26	42614253.39	0.0139	0.0044
Mercury	111962-01-01 21:49 G	42614341.27	42614341.41	42614341.54	0.0140	0.0024
Venus	111962-01-18 20:37 G	42614358.25	42614358.36	42614358.48	0.0140	0.0117
Mercury	111962-03-31 01:25 G	42614429.42	42614429.56	42614429.69	0.0140	0.0006
Mercury	111962-06-27 04:46 G	42614517.57	42614517.70	42614517.84	0.0140	0.0016
Venus	111962-09-02 05:30 G	42614584.59	42614584.73	42614584.89	0.0140	0.0102
Mercury	111962-09-23 08:22 G	42614605.72	42614605.85	42614605.98	0.0140	0.0035
Mercury	111962-12-20 11:58 G	42614693.88	42614694.00	42614694.13	0.0140	0.0054
Mercury	111963-03-18 15:20 G	42614782.03	42614782.14	42614782.26	0.0140	0.0074
Venus	111963-04-16 14:51 G	42614810.96	42614811.12	42614811.30	0.0140	0.0086
Mercury	111963-06-14 18:56 G	42614870.20	42614870.29	42614870.40	0.0140	0.0093
Mercury	111963-09-10 22:32 G	42614958.36	42614958.44	42614958.52	0.0140	0.0112
Venus	111963-11-29 00:27 G	42615037.34	42615037.52	42615037.71	0.0140	0.0070
Mercury	111963-12-08 01:54 G	42615046.55	42615046.58	42615046.63	0.0140	0.0132
Venus	111964-07-12 09:49 G	42615263.72	42615263.91	42615264.12	0.0140	0.0055
Venus	111965-02-23 19:54 G	42615490.12	42615490.33	42615490.54	0.0140	0.0038
Venus	111965-10-08 05:44 G	42615716.53	42615716.74	42615716.96	0.0141	0.0021
Venus	111966-05-22 16:03 G	42615942.95	42615943.17	42615943.39	0.0141	0.0005
Venus	111967-01-04 02:37 G	42616169.39	42616169.61	42616169.83	0.0141	0.0012
Venus	111967-08-18 13:10 G	42616395.83	42616396.05	42616396.26	0.0141	0.0029
Venus	111968-03-31 23:58 G	42616622.29	42616622.50	42616622.71	0.0141	0.0046
Moon	111968-07-23 09:34 G	42616735.65	42616735.90	42616736.17	0.0141	0.0032
Earth	111968-07-23 11:30 G	42616735.73	42616735.98	42616736.23	0.0141	0.0038 *
Venus	111968-11-13 11:01 G	42616848.76	42616848.96	42616849.16	0.0141	0.0064
Venus	111969-06-27 22:03 G	42617075.25	42617075.42	42617075.61	0.0141	0.0081
Earth	111969-07-28 08:37 G	42617105.65	42617105.86	42617106.09	0.0141	0.0073
Moon	111969-07-28 09:49 G	42617105.70	42617105.91	42617106.13	0.0141	0.0072 *

Venus	111970-02-09 09:20 G	42617301.74	42617301.89	42617302.06	0.0142	0.0098
Venus	111970-09-23 20:37 G	42617528.25	42617528.36	42617528.50	0.0142	0.0115
Venus	111971-05-08 08:22 G	42617754.78	42617754.85	42617754.95	0.0142	0.0131
Mars	111980-10-03 18:56 G	42621190.96	42621191.29	42621191.63	0.0143	0.0016

113TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 113th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	112001-09-25 04:18 G		42628852.64	42628852.68	42628852.72	0.0139	0.0136	
Mercury	112001-11-03 15:34 G		42628892.06	42628892.15	42628892.27	0.0139	0.0114	
Mercury	112002-01-30 22:46 G		42628980.31	42628980.45	42628980.60	0.0139	0.0088	
Mercury	112002-04-29 05:44 G		42629068.58	42629068.74	42629068.91	0.0139	0.0062	
Venus	112002-05-09 12:13 G		42629078.92	42629079.01	42629079.13	0.0139	0.0122	
Mercury	112002-07-26 12:56 G		42629156.86	42629157.04	42629157.22	0.0139	0.0036	
Mercury	112002-10-22 19:54 G		42629245.15	42629245.33	42629245.52	0.0138	0.0010	
Venus	112002-12-21 20:51 G		42629305.23	42629305.37	42629305.50	0.0138	0.0106	
Mercury	112003-01-19 03:06 G		42629333.45	42629333.63	42629333.82	0.0138	0.0017	
Mercury	112003-04-17 10:03 G		42629421.75	42629421.92	42629422.11	0.0138	0.0044	
Mercury	112003-07-14 17:15 G		42629510.07	42629510.22	42629510.39	0.0138	0.0070	
Venus	112003-08-05 04:32 G		42629531.53	42629531.69	42629531.86	0.0138	0.0091	
Mercury	112003-10-11 00:27 G		42629598.40	42629598.52	42629598.66	0.0138	0.0096	
Mercury	112004-01-07 07:39 G		42629686.75	42629686.82	42629686.92	0.0138	0.0122	

Venus	112004-03-18 12:13 G	42629757.84	42629758.01	42629758.20	0.0138	0.0075
Venus	112004-10-30 19:54 G	42629984.15	42629984.33	42629984.54	0.0138	0.0060
Venus	112005-06-14 03:20 G	42630210.44	42630210.64	42630210.85	0.0138	0.0045
Venus	112006-01-26 10:46 G	42630436.74	42630436.95	42630437.16	0.0138	0.0029
Venus	112006-09-09 17:44 G	42630663.03	42630663.24	42630663.46	0.0137	0.0013
Venus	112007-04-24 00:42 G	42630889.32	42630889.53	42630889.75	0.0137	0.0002
Venus	112007-12-06 07:39 G	42631115.60	42631115.82	42631116.03	0.0137	0.0017
Venus	112008-07-19 14:08 G	42631341.88	42631342.09	42631342.30	0.0137	0.0032
Moon	112009-01-23 16:03 G	42631529.96	42631530.17	42631530.41	0.0137	0.0062
Earth	112009-01-23 19:39 G	42631530.11	42631530.32	42631530.55	0.0137	0.0068 *
Venus	112009-03-02 20:22 G	42631568.16	42631568.35	42631568.56	0.0137	0.0048
Venus	112009-10-15 02:51 G	42631794.44	42631794.62	42631794.82	0.0137	0.0063
Earth	112010-01-28 06:13 G	42631899.52	42631899.76	42631900.02	0.0137	0.0031
Moon	112010-01-28 09:49 G	42631899.67	42631899.91	42631900.16	0.0137	0.0029 *
Venus	112010-05-29 09:06 G	42632020.71	42632020.88	42632021.07	0.0137	0.0077
Venus	112011-01-10 15:06 G	42632246.98	42632247.13	42632247.30	0.0136	0.0092
Moon	112011-02-01 13:10 G	42632268.96	42632269.05	42632269.13	0.0136	0.0128
Earth	112011-02-01 16:18 G	42632269.12	42632269.18	42632269.29	0.0136	0.0129 *
Venus	112011-08-24 21:06 G	42632473.26	42632473.38	42632473.52	0.0136	0.0106
Venus	112012-04-07 02:51 G	42632699.53	42632699.62	42632699.73	0.0136	0.0120
Venus	112012-11-19 08:37 G	42632925.83	42632925.86	42632925.92	0.0136	0.0133
Mars	112023-03-03 06:27 G	42636681.57	42636681.77	42636682.01	0.0135	0.0086
Mercury	112044-08-11 06:56 G	42644513.79	42644513.79	42644513.79	0.0139	0.0139
Mercury	112044-11-07 10:18 G	42644601.87	42644601.93	42644602.01	0.0139	0.0120
Mercury	112045-02-03 14:08 G	42644690.00	42644690.09	42644690.19	0.0139	0.0099
Venus	112045-02-03 18:56 G	42644690.26	42644690.29	42644690.34	0.0139	0.0137
Mercury	112045-05-02 17:44 G	42644778.13	42644778.24	42644778.36	0.0139	0.0080
Mercury	112045-07-29 21:34 G	42644866.27	42644866.40	42644866.52	0.0139	0.0060
Venus	112045-09-18 03:20 G	42644916.56	42644916.64	42644916.76	0.0139	0.0123
Mercury	112045-10-26 01:10 G	42644954.42	42644954.55	42644954.68	0.0139	0.0040

Mercury	112046-01-22 04:46 G	42645042.56	42645042.70	42645042.83	0.0140	0.0021
Mercury	112046-04-20 08:22 G	42645130.71	42645130.85	42645130.98	0.0140	0.0002
Venus	112046-05-02 12:42 G	42645142.90	42645143.03	42645143.17	0.0140	0.0107
Mercury	112046-07-17 11:58 G	42645218.86	42645219.00	42645219.13	0.0140	0.0019
Mercury	112046-10-13 15:20 G	42645307.02	42645307.14	42645307.28	0.0140	0.0039
Venus	112046-12-14 21:34 G	42645369.25	42645369.40	42645369.58	0.0140	0.0092
Mercury	112047-01-09 18:56 G	42645395.17	42645395.29	42645395.42	0.0140	0.0058
Mercury	112047-04-07 22:32 G	42645483.33	42645483.44	42645483.55	0.0140	0.0077
Mercury	112047-07-05 01:54 G	42645571.49	42645571.58	42645571.68	0.0140	0.0097
Venus	112047-07-29 06:56 G	42645595.62	42645595.79	42645595.98	0.0140	0.0076
Mercury	112047-10-01 05:30 G	42645659.66	42645659.73	42645659.81	0.0140	0.0116
Mercury	112047-12-28 09:06 G	42645747.85	42645747.88	42645747.91	0.0140	0.0135
Venus	112048-03-11 16:18 G	42645822.00	42645822.18	42645822.39	0.0140	0.0061
Venus	112048-10-24 02:22 G	42646048.39	42646048.60	42646048.81	0.0140	0.0043
Venus	112049-06-07 12:13 G	42646274.80	42646275.01	42646275.23	0.0140	0.0027
Venus	112050-01-19 22:18 G	42646501.22	42646501.43	42646501.65	0.0141	0.0011
Venus	112050-09-03 08:37 G	42646727.64	42646727.86	42646728.08	0.0141	0.0007
Venus	112051-04-17 19:10 G	42646954.09	42646954.30	42646954.52	0.0141	0.0024
Venus	112051-11-30 05:58 G	42647180.54	42647180.75	42647180.96	0.0141	0.0041
Venus	112052-07-13 16:32 G	42647407.00	42647407.19	42647407.41	0.0141	0.0059
Moon	112052-07-23 18:13 G	42647417.03	42647417.26	42647417.51	0.0141	0.0037
Earth	112052-07-23 20:08 G	42647417.10	42647417.34	42647417.60	0.0141	0.0034 *
Venus	112053-02-25 03:34 G	42647633.48	42647633.65	42647633.85	0.0141	0.0075
Earth	112053-07-28 17:15 G	42647787.02	42647787.22	42647787.45	0.0141	0.0077
Moon	112053-07-28 19:10 G	42647787.10	42647787.30	42647787.53	0.0141	0.0082 *
Venus	112053-10-09 15:06 G	42647859.96	42647860.13	42647860.30	0.0141	0.0092
Venus	112054-05-24 02:22 G	42648086.47	42648086.60	42648086.75	0.0142	0.0109
Venus	112055-01-05 14:08 G	42648312.99	42648313.09	42648313.19	0.0142	0.0125
Venus	112055-08-20 01:39 G	42648539.57	42648539.57	42648539.59	0.0142	0.0142
Mercury	112085-08-27 15:34 G	42659505.11	42659505.15	42659505.20	0.0139	0.0134

Mercury	112085-11-23 22:18 G	42659593.33	42659593.43	42659593.55	0.0139	0.0109
Venus	112086-01-06 19:39 G	42659637.24	42659637.32	42659637.41	0.0139	0.0127
Mercury	112086-02-20 05:30 G	42659681.58	42659681.73	42659681.88	0.0139	0.0083
Mercury	112086-05-19 12:27 G	42659769.86	42659770.02	42659770.19	0.0139	0.0057
Mercury	112086-08-15 19:39 G	42659858.14	42659858.32	42659858.50	0.0138	0.0031
Venus	112086-08-21 03:49 G	42659863.54	42659863.66	42659863.80	0.0138	0.0112
Mercury	112086-11-12 02:37 G	42659946.43	42659946.61	42659946.80	0.0138	0.0005
Mercury	112087-02-08 09:49 G	42660034.72	42660034.91	42660035.09	0.0138	0.0021
Venus	112087-04-04 11:44 G	42660089.85	42660089.99	42660090.16	0.0138	0.0097
Mercury	112087-05-07 16:46 G	42660123.03	42660123.20	42660123.38	0.0138	0.0048
Mercury	112087-08-03 23:44 G	42660211.35	42660211.49	42660211.66	0.0138	0.0075
Mercury	112087-10-31 07:10 G	42660299.68	42660299.80	42660299.93	0.0138	0.0100
Venus	112087-11-16 19:39 G	42660316.16	42660316.32	42660316.52	0.0138	0.0082
Mercury	112088-01-27 14:08 G	42660388.03	42660388.09	42660388.18	0.0138	0.0127
Venus	112088-06-30 03:49 G	42660542.47	42660542.66	42660542.85	0.0138	0.0065
Venus	112089-02-11 11:15 G	42660768.77	42660768.97	42660769.17	0.0138	0.0050
Venus	112089-09-25 18:42 G	42660995.07	42660995.28	42660995.49	0.0138	0.0034
Venus	112090-05-10 01:54 G	42661221.37	42661221.58	42661221.80	0.0137	0.0019
Venus	112090-12-22 09:06 G	42661447.66	42661447.88	42661448.09	0.0137	0.0004
Venus	112091-08-05 15:49 G	42661673.95	42661674.16	42661674.38	0.0137	0.0012
Venus	112092-03-18 22:32 G	42661900.23	42661900.44	42661900.65	0.0137	0.0028
Venus	112092-10-31 05:15 G	42662126.52	42662126.72	42662126.93	0.0137	0.0043
Earth	112093-01-24 04:18 G	42662211.47	42662211.68	42662211.92	0.0137	0.0065
Moon	112093-01-24 06:27 G	42662211.56	42662211.77	42662211.99	0.0137	0.0066 *
Venus	112093-06-14 11:30 G	42662352.80	42662352.98	42662353.19	0.0137	0.0058
Venus	112094-01-26 17:44 G	42662579.07	42662579.24	42662579.44	0.0137	0.0073
Moon	112094-01-28 13:54 G	42662580.83	42662581.08	42662581.33	0.0137	0.0039
Earth	112094-01-28 15:34 G	42662580.91	42662581.15	42662581.40	0.0137	0.0034 *
Venus	112094-09-10 00:13 G	42662805.35	42662805.51	42662805.68	0.0136	0.0087
Earth	112095-02-02 01:39 G	42662950.52	42662950.57	42662950.65	0.0136	0.0132

Moon	112095-02-02 03:34 G	42662950.57	42662950.65	42662950.75	0.0136	0.0126	*
Venus	112095-04-24 05:58 G	42663031.62	42663031.75	42663031.91	0.0136	0.0101	
Venus	112095-12-06 11:58 G	42663257.90	42663258.00	42663258.13	0.0136	0.0115	
Venus	112096-07-19 18:13 G	42663484.19	42663484.26	42663484.32	0.0136	0.0129	
Mars	112105-11-27 01:10 G	42666900.51	42666900.55	42666900.62	0.0135	0.0133	
Mercury	112128-09-01 13:39 G	42675215.05	42675215.07	42675215.11	0.0139	0.0135	
Mercury	112128-11-28 17:30 G	42675303.16	42675303.23	42675303.31	0.0139	0.0115	
Mercury	112129-02-24 21:06 G	42675391.29	42675391.38	42675391.48	0.0139	0.0096	
Venus	112129-05-19 10:46 G	42675474.88	42675474.95	42675475.05	0.0139	0.0127	
Mercury	112129-05-24 00:56 G	42675479.42	42675479.54	42675479.65	0.0139	0.0076	
Mercury	112129-08-20 04:18 G	42675567.56	42675567.68	42675567.81	0.0139	0.0057	
Mercury	112129-11-16 08:08 G	42675655.71	42675655.84	42675655.97	0.0139	0.0036	
Venus	112129-12-31 19:25 G	42675701.20	42675701.31	42675701.46	0.0139	0.0113	
Mercury	112130-02-12 11:44 G	42675743.86	42675743.99	42675744.13	0.0140	0.0017	
Mercury	112130-05-11 15:20 G	42675832.00	42675832.14	42675832.28	0.0140	0.0003	
Mercury	112130-08-07 18:56 G	42675920.16	42675920.29	42675920.42	0.0140	0.0023	
Venus	112130-08-15 04:46 G	42675927.55	42675927.70	42675927.86	0.0140	0.0097	
Mercury	112130-11-03 22:32 G	42676008.31	42676008.44	42676008.57	0.0140	0.0042	
Mercury	112131-01-31 02:08 G	42676096.47	42676096.59	42676096.71	0.0140	0.0062	
Venus	112131-03-29 14:08 G	42676153.91	42676154.09	42676154.27	0.0140	0.0081	
Mercury	112131-04-29 05:30 G	42676184.63	42676184.73	42676184.84	0.0140	0.0081	
Mercury	112131-07-26 09:06 G	42676272.79	42676272.88	42676272.97	0.0140	0.0101	
Mercury	112131-10-22 12:27 G	42676360.96	42676361.02	42676361.10	0.0140	0.0120	
Venus	112131-11-10 23:30 G	42676380.29	42676380.48	42676380.68	0.0140	0.0065	
Mercury	112132-01-18 16:03 G	42676449.17	42676449.17	42676449.19	0.0140	0.0139	
Venus	112132-06-24 08:51 G	42676606.68	42676606.87	42676607.09	0.0140	0.0050	
Venus	112133-02-05 18:56 G	42676833.08	42676833.29	42676833.50	0.0140	0.0032	
Venus	112133-09-20 05:01 G	42677059.49	42677059.71	42677059.93	0.0140	0.0016	
Venus	112134-05-04 15:20 G	42677285.92	42677286.14	42677286.36	0.0141	0.0001	
Venus	112134-12-17 01:39 G	42677512.36	42677512.57	42677512.79	0.0141	0.0018	

Moon	112135-07-21 05:15 G	42677728.66	42677728.72	42677728.80	0.0141	0.0135
Earth	112135-07-21 08:22 G	42677728.84	42677728.85	42677728.90	0.0141	0.0140
Venus	112135-07-31 12:13 G	42677738.80	42677739.01	42677739.23	0.0141	0.0035
Venus	112136-03-13 23:01 G	42677965.26	42677965.46	42677965.67	0.0141	0.0052
Earth	112136-07-25 05:15 G	42678098.48	42678098.72	42678098.98	0.0141	0.0030
Moon	112136-07-25 09:06 G	42678098.64	42678098.88	42678099.13	0.0141	0.0038 *
Venus	112136-10-26 09:49 G	42678191.73	42678191.91	42678192.11	0.0141	0.0069
Venus	112137-06-09 20:51 G	42678418.21	42678418.37	42678418.56	0.0141	0.0087
Moon	112137-07-29 22:46 G	42678468.27	42678468.45	42678468.66	0.0141	0.0089
Earth	112137-07-30 02:22 G	42678468.41	42678468.60	42678468.82	0.0141	0.0081 *
Venus	112138-01-22 08:08 G	42678644.70	42678644.84	42678645.00	0.0141	0.0103
Venus	112138-09-05 19:39 G	42678871.21	42678871.32	42678871.44	0.0142	0.0120
Venus	112139-04-20 06:56 G	42679097.75	42679097.79	42679097.87	0.0142	0.0137
Mars	112148-02-19 16:46 G	42682325.03	42682325.20	42682325.40	0.0143	0.0118
Venus	112169-09-07 02:37 G	42690195.56	42690195.61	42690195.68	0.0139	0.0132
Mercury	112169-09-17 21:49 G	42690206.36	42690206.41	42690206.49	0.0139	0.0130
Mercury	112169-12-15 05:01 G	42690294.59	42690294.71	42690294.83	0.0139	0.0104
Mercury	112170-03-13 11:44 G	42690382.85	42690382.99	42690383.16	0.0139	0.0079
Venus	112170-04-21 11:01 G	42690421.86	42690421.96	42690422.09	0.0139	0.0117
Mercury	112170-06-09 18:56 G	42690471.13	42690471.29	42690471.47	0.0139	0.0052
Mercury	112170-09-06 02:08 G	42690559.41	42690559.59	42690559.77	0.0138	0.0026
Mercury	112170-12-03 09:06 G	42690647.70	42690647.88	42690648.07	0.0138	0.0003
Venus	112170-12-03 19:10 G	42690648.17	42690648.30	42690648.46	0.0138	0.0102
Mercury	112171-03-01 16:03 G	42690736.00	42690736.17	42690736.36	0.0138	0.0027
Mercury	112171-05-28 23:15 G	42690824.30	42690824.47	42690824.65	0.0138	0.0052
Venus	112171-07-18 03:06 G	42690874.48	42690874.63	42690874.81	0.0138	0.0086
Mercury	112171-08-25 06:27 G	42690912.62	42690912.77	42690912.93	0.0138	0.0079
Mercury	112171-11-21 13:25 G	42691000.95	42691001.06	42691001.20	0.0138	0.0105
Mercury	112172-02-17 20:51 G	42691089.32	42691089.37	42691089.43	0.0138	0.0131
Venus	112172-02-29 11:15 G	42691100.78	42691100.97	42691101.16	0.0138	0.0070

Venus	112172-10-12 18:56 G	42691327.10	42691327.29	42691327.49	0.0138	0.0055
Venus	112173-05-27 02:22 G	42691553.40	42691553.60	42691553.81	0.0138	0.0039
Venus	112174-01-08 09:49 G	42691779.70	42691779.91	42691780.12	0.0138	0.0024
Venus	112174-08-22 17:01 G	42692005.99	42692006.21	42692006.42	0.0137	0.0008
Venus	112175-04-05 23:58 G	42692232.29	42692232.50	42692232.72	0.0137	0.0007
Venus	112175-11-18 06:56 G	42692458.58	42692458.79	42692459.01	0.0137	0.0023
Venus	112176-07-01 13:39 G	42692684.87	42692685.07	42692685.28	0.0137	0.0038
Earth	112177-01-25 13:10 G	42692892.84	42692893.05	42692893.29	0.0137	0.0062
Moon	112177-01-25 14:51 G	42692892.91	42692893.12	42692893.36	0.0137	0.0069 *
Venus	112177-02-12 20:08 G	42692911.15	42692911.34	42692911.54	0.0137	0.0053
Venus	112177-09-27 02:37 G	42693137.43	42693137.61	42693137.80	0.0137	0.0068
Moon	112178-01-29 22:46 G	42693262.23	42693262.45	42693262.69	0.0137	0.0045
Earth	112178-01-30 00:27 G	42693262.28	42693262.52	42693262.76	0.0137	0.0037 *
Venus	112178-05-11 08:37 G	42693363.71	42693363.86	42693364.05	0.0137	0.0083
Venus	112178-12-23 15:06 G	42693589.99	42693590.13	42693590.29	0.0136	0.0097
Earth	112179-02-03 10:32 G	42693631.91	42693631.94	42693631.99	0.0136	0.0135
Moon	112179-02-03 11:44 G	42693631.93	42693631.99	42693632.10	0.0136	0.0130 *
Venus	112179-08-06 20:51 G	42693816.26	42693816.37	42693816.51	0.0136	0.0111
Venus	112180-03-20 03:06 G	42694042.55	42694042.63	42694042.71	0.0136	0.0125
Mars	112190-07-22 05:15 G	42697818.44	42697818.72	42697819.01	0.0135	0.0005
Mercury	112212-09-22 21:06 G	42705916.33	42705916.38	42705916.42	0.0139	0.0131
Mercury	112212-12-20 00:27 G	42706004.45	42706004.52	42706004.61	0.0139	0.0111
Venus	112213-01-17 18:13 G	42706033.21	42706033.26	42706033.35	0.0139	0.0132
Mercury	112213-03-18 04:03 G	42706092.58	42706092.67	42706092.78	0.0139	0.0092
Mercury	112213-06-14 07:54 G	42706180.72	42706180.83	42706180.95	0.0139	0.0071
Venus	112213-09-01 02:51 G	42706259.53	42706259.62	42706259.76	0.0139	0.0118
Mercury	112213-09-10 11:30 G	42706268.86	42706268.98	42706269.11	0.0139	0.0052
Mercury	112213-12-07 15:20 G	42706357.00	42706357.14	42706357.27	0.0139	0.0032
Mercury	112214-03-05 18:56 G	42706445.15	42706445.29	42706445.42	0.0139	0.0012
Venus	112214-04-15 12:13 G	42706485.87	42706486.01	42706486.17	0.0140	0.0102

Mercury	112214-06-01 22:32 G	42706533.30	42706533.44	42706533.57	0.0140	0.0008
Mercury	112214-08-29 01:54 G	42706621.45	42706621.58	42706621.72	0.0140	0.0028
Mercury	112214-11-25 05:30 G	42706709.61	42706709.73	42706709.86	0.0140	0.0047
Venus	112214-11-27 21:34 G	42706712.23	42706712.40	42706712.57	0.0140	0.0086
Mercury	112215-02-21 09:06 G	42706797.77	42706797.88	42706798.00	0.0140	0.0066
Mercury	112215-05-20 12:42 G	42706885.93	42706886.03	42706886.14	0.0140	0.0086
Venus	112215-07-12 06:42 G	42706938.60	42706938.78	42706938.97	0.0140	0.0070
Mercury	112215-08-16 16:18 G	42706974.09	42706974.18	42706974.27	0.0140	0.0105
Mercury	112215-11-12 19:39 G	42707062.27	42707062.32	42707062.39	0.0140	0.0125
Venus	112216-02-23 16:03 G	42707164.98	42707165.17	42707165.38	0.0140	0.0054
Venus	112216-10-07 01:39 G	42707391.37	42707391.57	42707391.80	0.0140	0.0039
Venus	112217-05-21 11:58 G	42707617.79	42707618.00	42707618.22	0.0140	0.0021
Venus	112218-01-02 22:03 G	42707844.20	42707844.42	42707844.64	0.0140	0.0005
Venus	112218-08-17 08:22 G	42708070.63	42708070.85	42708071.07	0.0141	0.0013
Venus	112219-03-31 18:56 G	42708297.08	42708297.29	42708297.51	0.0141	0.0030
Earth	112219-07-22 17:44 G	42708410.20	42708410.24	42708410.33	0.0141	0.0136
Moon	112219-07-22 20:51 G	42708410.27	42708410.37	42708410.47	0.0141	0.0128 *
Venus	112219-11-13 05:30 G	42708523.53	42708523.73	42708523.94	0.0141	0.0047
Venus	112220-06-26 16:18 G	42708749.99	42708750.18	42708750.38	0.0141	0.0064
Moon	112220-07-26 11:58 G	42708779.75	42708780.00	42708780.26	0.0141	0.0033
Earth	112220-07-26 14:51 G	42708779.88	42708780.12	42708780.38	0.0141	0.0026 *
Venus	112221-02-08 03:06 G	42708976.46	42708976.63	42708976.82	0.0141	0.0082
Earth	112221-07-31 11:44 G	42709149.80	42709149.99	42709150.21	0.0141	0.0086
Moon	112221-07-31 14:22 G	42709149.90	42709150.10	42709150.29	0.0141	0.0088 *
Venus	112221-09-22 14:08 G	42709202.95	42709203.09	42709203.27	0.0141	0.0099
Venus	112222-05-07 01:54 G	42709429.46	42709429.58	42709429.71	0.0142	0.0115
Venus	112222-12-19 12:56 G	42709655.98	42709656.04	42709656.14	0.0142	0.0132
Mars	112232-10-16 23:01 G	42713245.17	42713245.46	42713245.77	0.0143	0.0063
Venus	112253-05-08 09:20 G	42720753.89	42720753.89	42720753.94	0.0139	0.0138
Mercury	112253-10-09 04:32 G	42720907.62	42720907.69	42720907.77	0.0139	0.0125

Venus	112253-12-20 17:44 G	42720980.16	42720980.24	42720980.36	0.0139	0.0123
Mercury	112254-01-05 11:15 G	42720995.86	42720995.97	42720996.11	0.0139	0.0100
Mercury	112254-04-03 18:27 G	42721084.12	42721084.27	42721084.43	0.0139	0.0074
Mercury	112254-07-01 01:39 G	42721172.39	42721172.57	42721172.74	0.0138	0.0048
Venus	112254-08-04 02:22 G	42721206.47	42721206.60	42721206.74	0.0138	0.0107
Mercury	112254-09-27 08:37 G	42721260.68	42721260.86	42721261.04	0.0138	0.0022
Mercury	112254-12-24 15:34 G	42721348.97	42721349.15	42721349.34	0.0138	0.0005
Venus	112255-03-18 10:32 G	42721432.78	42721432.94	42721433.11	0.0138	0.0091
Mercury	112255-03-22 22:46 G	42721437.27	42721437.45	42721437.63	0.0138	0.0030
Mercury	112255-06-19 05:58 G	42721525.58	42721525.75	42721525.92	0.0138	0.0057
Mercury	112255-09-15 12:56 G	42721613.90	42721614.04	42721614.20	0.0138	0.0083
Venus	112255-10-30 18:27 G	42721659.10	42721659.27	42721659.46	0.0138	0.0076
Mercury	112255-12-12 20:08 G	42721702.23	42721702.34	42721702.46	0.0138	0.0109
Mercury	112256-03-10 03:06 G	42721790.62	42721790.63	42721790.68	0.0138	0.0136
Venus	112256-06-13 02:22 G	42721885.41	42721885.60	42721885.80	0.0138	0.0060
Venus	112257-01-25 09:49 G	42722111.72	42722111.91	42722112.13	0.0138	0.0045
Venus	112257-09-08 17:30 G	42722338.02	42722338.23	42722338.44	0.0138	0.0029
Venus	112258-04-23 00:42 G	42722564.32	42722564.53	42722564.75	0.0137	0.0014
Venus	112258-12-05 08:08 G	42722790.62	42722790.84	42722791.05	0.0137	0.0003
Venus	112259-07-19 14:51 G	42723016.91	42723017.12	42723017.34	0.0137	0.0018
Venus	112260-03-01 21:49 G	42723243.20	42723243.41	42723243.62	0.0137	0.0033
Venus	112260-10-14 04:32 G	42723469.49	42723469.69	42723469.89	0.0137	0.0048
Moon	112261-01-26 18:13 G	42723574.04	42723574.26	42723574.48	0.0137	0.0064
Earth	112261-01-26 21:49 G	42723574.18	42723574.41	42723574.64	0.0137	0.0059 *
Venus	112261-05-28 11:01 G	42723695.77	42723695.96	42723696.15	0.0137	0.0063
Venus	112262-01-09 17:15 G	42723922.05	42723922.22	42723922.40	0.0137	0.0078
Earth	112262-01-31 08:22 G	42723943.62	42723943.85	42723944.10	0.0137	0.0040
Moon	112262-01-31 11:58 G	42723943.77	42723944.00	42723944.25	0.0137	0.0043 *
Venus	112262-08-23 23:15 G	42724148.33	42724148.47	42724148.64	0.0136	0.0093
Venus	112263-04-07 05:30 G	42724374.60	42724374.73	42724374.87	0.0136	0.0107

Venus	112263-11-19 11:30 G	42724600.89	42724600.98	42724601.08	0.0136	0.0121
Venus	112264-07-02 17:01 G	42724827.19	42724827.21	42724827.26	0.0136	0.0135
Mars	112275-03-17 07:54 G	42728736.73	42728736.83	42728736.97	0.0135	0.0122
Venus	112296-09-17 01:54 G	42736591.56	42736591.58	42736591.64	0.0139	0.0137
Mercury	112296-10-13 04:03 G	42736617.62	42736617.67	42736617.73	0.0139	0.0126
Mercury	112297-01-09 07:39 G	42736705.74	42736705.82	42736705.91	0.0139	0.0107
Mercury	112297-04-07 11:30 G	42736793.87	42736793.98	42736794.08	0.0139	0.0087
Venus	112297-05-01 10:32 G	42736817.86	42736817.94	42736818.07	0.0139	0.0123
Mercury	112297-07-04 15:06 G	42736882.01	42736882.13	42736882.25	0.0139	0.0067
Mercury	112297-09-30 18:42 G	42736970.15	42736970.28	42736970.41	0.0139	0.0047
Venus	112297-12-13 19:54 G	42737044.19	42737044.33	42737044.47	0.0139	0.0107
Mercury	112297-12-27 22:18 G	42737058.30	42737058.43	42737058.57	0.0140	0.0027
Mercury	112298-03-26 01:54 G	42737146.45	42737146.58	42737146.72	0.0140	0.0008
Mercury	112298-06-22 05:30 G	42737234.60	42737234.73	42737234.87	0.0140	0.0013
Venus	112298-07-28 04:32 G	42737270.54	42737270.69	42737270.87	0.0140	0.0092
Mercury	112298-09-18 09:06 G	42737322.75	42737322.88	42737323.02	0.0140	0.0032
Mercury	112298-12-15 12:42 G	42737410.91	42737411.03	42737411.16	0.0140	0.0052
Venus	112299-03-11 13:54 G	42737496.91	42737497.08	42737497.27	0.0140	0.0076
Mercury	112299-03-13 16:18 G	42737499.07	42737499.18	42737499.30	0.0140	0.0071
Mercury	112299-06-09 19:39 G	42737587.23	42737587.32	42737587.43	0.0140	0.0091
Mercury	112299-09-05 23:15 G	42737675.40	42737675.47	42737675.56	0.0140	0.0110
Venus	112299-10-23 23:30 G	42737723.29	42737723.48	42737723.68	0.0140	0.0059
Mercury	112299-12-03 02:51 G	42737763.58	42737763.62	42737763.68	0.0140	0.0129
Venus	112300-06-07 09:06 G	42737949.68	42737949.88	42737950.10	0.0140	0.0043
Venus	112301-01-19 18:56 G	42738176.08	42738176.29	42738176.51	0.0140	0.0027
Venus	112301-09-03 05:15 G	42738402.50	42738402.72	42738402.94	0.0140	0.0010
Venus	112302-04-17 15:34 G	42738628.93	42738629.15	42738629.37	0.0141	0.0008
Venus	112302-11-30 01:54 G	42738855.36	42738855.58	42738855.80	0.0141	0.0025
Venus	112303-07-14 12:13 G	42739081.81	42739082.01	42739082.23	0.0141	0.0042
Earth	112303-07-24 03:49 G	42739091.59	42739091.66	42739091.77	0.0141	0.0131

Moon	112303-07-24 04:32 G	42739091.59	42739091.69	42739091.81	0.0141	0.0128	*
Venus	112304-02-25 22:46 G	42739308.26	42739308.45	42739308.66	0.0141	0.0059	
Moon	112304-07-28 00:42 G	42739461.29	42739461.53	42739461.78	0.0141	0.0020	
Earth	112304-07-28 00:56 G	42739461.29	42739461.54	42739461.80	0.0141	0.0021	*
Venus	112304-10-09 09:34 G	42739534.73	42739534.90	42739535.10	0.0141	0.0077	
Venus	112305-05-23 21:06 G	42739761.22	42739761.38	42739761.55	0.0141	0.0093	
Earth	112305-08-01 22:03 G	42739831.22	42739831.42	42739831.62	0.0141	0.0090	
Moon	112305-08-01 23:01 G	42739831.26	42739831.46	42739831.69	0.0141	0.0085	*
Venus	112306-01-05 08:08 G	42739987.71	42739987.84	42739987.99	0.0141	0.0110	
Venus	112306-08-19 19:10 G	42740214.22	42740214.30	42740214.42	0.0142	0.0127	
Venus	112337-08-21 01:25 G	42751538.50	42751538.56	42751538.66	0.0139	0.0128	
Mercury	112337-10-30 11:15 G	42751608.89	42751608.97	42751609.07	0.0139	0.0120	
Mercury	112338-01-26 18:13 G	42751697.14	42751697.26	42751697.40	0.0139	0.0094	
Venus	112338-04-04 09:49 G	42751764.81	42751764.91	42751765.06	0.0139	0.0113	
Mercury	112338-04-25 01:25 G	42751785.40	42751785.56	42751785.72	0.0139	0.0068	
Mercury	112338-07-22 08:22 G	42751873.68	42751873.85	42751874.03	0.0138	0.0042	
Mercury	112338-10-18 15:20 G	42751961.96	42751962.14	42751962.33	0.0138	0.0017	
Venus	112338-11-16 18:27 G	42751991.12	42751991.27	42751991.43	0.0138	0.0097	
Mercury	112339-01-14 22:32 G	42752050.25	42752050.44	42752050.62	0.0138	0.0010	
Mercury	112339-04-13 05:30 G	42752138.56	42752138.73	42752138.91	0.0138	0.0036	
Venus	112339-07-01 02:22 G	42752217.44	42752217.60	42752217.79	0.0138	0.0081	
Mercury	112339-07-10 12:42 G	42752226.87	42752227.03	42752227.20	0.0138	0.0062	
Mercury	112339-10-06 19:54 G	42752315.19	42752315.33	42752315.47	0.0138	0.0089	
Mercury	112340-01-03 02:51 G	42752403.53	42752403.62	42752403.73	0.0138	0.0115	
Venus	112340-02-12 10:32 G	42752443.75	42752443.94	42752444.13	0.0138	0.0065	
Venus	112340-09-25 17:58 G	42752670.06	42752670.25	42752670.46	0.0138	0.0050	
Venus	112341-05-10 01:54 G	42752896.37	42752896.58	42752896.79	0.0138	0.0034	
Venus	112341-12-22 09:06 G	42753122.67	42753122.88	42753123.10	0.0138	0.0018	
Venus	112342-08-05 16:32 G	42753348.97	42753349.19	42753349.40	0.0137	0.0004	
Venus	112343-03-19 23:30 G	42753575.26	42753575.48	42753575.70	0.0137	0.0013	

Venus	112343-11-01 06:27 G	42753801.56	42753801.77	42753801.98	0.0137	0.0028
Venus	112344-06-14 13:10 G	42754027.85	42754028.05	42754028.26	0.0137	0.0044
Venus	112345-01-26 19:39 G	42754254.13	42754254.32	42754254.52	0.0137	0.0059
Earth	112345-01-28 06:56 G	42754255.57	42754255.79	42754256.03	0.0137	0.0056
Moon	112345-01-28 09:49 G	42754255.69	42754255.91	42754256.14	0.0137	0.0054 *
Venus	112345-09-10 01:54 G	42754480.41	42754480.58	42754480.77	0.0137	0.0074
Moon	112346-02-01 15:06 G	42754624.88	42754625.13	42754625.38	0.0137	0.0039
Earth	112346-02-01 17:44 G	42754625.01	42754625.24	42754625.49	0.0137	0.0043 *
Venus	112346-04-24 08:08 G	42754706.69	42754706.84	42754707.02	0.0137	0.0088
Venus	112346-12-06 14:22 G	42754932.97	42754933.10	42754933.25	0.0136	0.0103
Venus	112347-07-20 20:22 G	42755159.25	42755159.35	42755159.47	0.0136	0.0117
Venus	112348-03-03 02:08 G	42755385.54	42755385.59	42755385.66	0.0136	0.0130
Mars	112357-12-11 01:25 G	42758955.40	42758955.56	42758955.78	0.0135	0.0101
Mercury	112380-11-03 11:01 G	42767318.90	42767318.96	42767319.03	0.0139	0.0122
Venus	112380-12-30 18:13 G	42767376.19	42767376.26	42767376.37	0.0139	0.0128
Mercury	112381-01-30 14:37 G	42767407.03	42767407.11	42767407.22	0.0139	0.0103
Mercury	112381-04-28 18:27 G	42767495.17	42767495.27	42767495.39	0.0139	0.0082
Mercury	112381-07-25 22:03 G	42767583.31	42767583.42	42767583.55	0.0139	0.0063
Venus	112381-08-14 03:20 G	42767602.51	42767602.64	42767602.77	0.0139	0.0112
Mercury	112381-10-22 01:54 G	42767671.45	42767671.58	42767671.71	0.0139	0.0042
Mercury	112382-01-18 05:30 G	42767759.60	42767759.73	42767759.87	0.0140	0.0023
Venus	112382-03-28 12:13 G	42767828.86	42767829.01	42767829.18	0.0140	0.0097
Mercury	112382-04-16 09:06 G	42767847.75	42767847.88	42767848.02	0.0140	0.0004
Mercury	112382-07-13 12:42 G	42767935.90	42767936.03	42767936.17	0.0140	0.0017
Mercury	112382-10-09 16:18 G	42768024.05	42768024.18	42768024.31	0.0140	0.0036
Venus	112382-11-09 21:20 G	42768055.23	42768055.39	42768055.58	0.0140	0.0081
Mercury	112383-01-05 19:54 G	42768112.21	42768112.33	42768112.46	0.0140	0.0056
Mercury	112383-04-03 23:15 G	42768200.37	42768200.47	42768200.59	0.0140	0.0076
Venus	112383-06-24 06:42 G	42768281.60	42768281.78	42768281.99	0.0140	0.0065
Mercury	112383-07-01 03:06 G	42768288.53	42768288.63	42768288.73	0.0140	0.0095

Mercury	112383-09-27 06:27 G	42768376.70	42768376.77	42768376.85	0.0140	0.0115
Jupiter	112383-11-01 03:06 G	42768411.21	42768411.63	42768412.06	0.0140	0.0076
Mercury	112383-12-24 10:03 G	42768464.89	42768464.92	42768464.96	0.0140	0.0134
Venus	112384-02-05 16:18 G	42768507.98	42768508.18	42768508.39	0.0140	0.0048
Venus	112384-09-19 02:08 G	42768734.38	42768734.59	42768734.81	0.0140	0.0032
Venus	112385-05-03 12:13 G	42768960.80	42768961.01	42768961.23	0.0140	0.0015
Venus	112385-12-15 22:18 G	42769187.22	42769187.43	42769187.65	0.0141	0.0004
Venus	112386-07-30 08:37 G	42769413.64	42769413.86	42769414.08	0.0141	0.0019
Venus	112387-03-13 19:10 G	42769640.08	42769640.30	42769640.51	0.0141	0.0036
Moon	112387-07-24 10:18 G	42769772.87	42769772.93	42769773.04	0.0141	0.0132
Earth	112387-07-24 13:54 G	42769772.98	42769773.08	42769773.20	0.0141	0.0126 *
Venus	112387-10-26 05:44 G	42769866.54	42769866.74	42769866.94	0.0141	0.0053
Venus	112388-06-08 16:32 G	42770093.00	42770093.19	42770093.38	0.0141	0.0070
Earth	112388-07-28 10:32 G	42770142.68	42770142.94	42770143.19	0.0141	0.0017
Moon	112388-07-28 13:39 G	42770142.81	42770143.07	42770143.33	0.0141	0.0010 *
Venus	112389-01-21 03:20 G	42770319.48	42770319.64	42770319.82	0.0141	0.0088
Moon	112389-08-02 03:49 G	42770512.47	42770512.66	42770512.87	0.0141	0.0087
Earth	112389-08-02 07:25 G	42770512.63	42770512.81	42770513.01	0.0141	0.0095 *
Venus	112389-09-04 14:22 G	42770545.96	42770546.10	42770546.26	0.0141	0.0105
Venus	112390-04-19 01:25 G	42770772.47	42770772.56	42770772.69	0.0142	0.0122
Venus	112390-12-01 12:56 G	42770999.01	42770999.04	42770999.11	0.0142	0.0138
Mars	112400-03-04 05:44 G	42774379.46	42774379.74	42774380.04	0.0143	0.0067
Venus	112421-04-20 09:49 G	42782096.86	42782096.91	42782096.99	0.0139	0.0133
Mercury	112421-08-23 11:30 G	42782221.98	42782221.98	42782222.01	0.0139	0.0139
Mercury	112421-11-19 18:27 G	42782310.18	42782310.27	42782310.39	0.0139	0.0113
Venus	112421-12-02 18:13 G	42782323.17	42782323.26	42782323.39	0.0139	0.0118
Mercury	112422-02-16 01:25 G	42782398.43	42782398.56	42782398.71	0.0139	0.0087
Mercury	112422-05-15 08:22 G	42782486.69	42782486.85	42782487.02	0.0138	0.0062
Venus	112422-07-17 02:51 G	42782549.48	42782549.62	42782549.77	0.0138	0.0102
Mercury	112422-08-11 15:34 G	42782574.97	42782575.15	42782575.33	0.0138	0.0036

Mercury	112422-11-07 22:32 G	42782663.26	42782663.44	42782663.63	0.0138	0.0010
Mercury	112423-02-04 05:44 G	42782751.55	42782751.74	42782751.92	0.0138	0.0016
Venus	112423-02-28 10:46 G	42782775.79	42782775.95	42782776.13	0.0138	0.0087
Mercury	112423-05-03 12:42 G	42782839.86	42782840.03	42782840.21	0.0138	0.0042
Mercury	112423-07-30 19:39 G	42782928.17	42782928.32	42782928.49	0.0138	0.0069
Venus	112423-10-12 19:10 G	42783002.11	42783002.30	42783002.49	0.0138	0.0070
Mercury	112423-10-27 02:51 G	42783016.49	42783016.62	42783016.76	0.0138	0.0095
Mercury	112424-01-23 10:03 G	42783104.84	42783104.92	42783105.02	0.0138	0.0121
Venus	112424-05-26 02:51 G	42783228.43	42783228.62	42783228.82	0.0138	0.0055
Venus	112425-01-07 10:32 G	42783454.73	42783454.94	42783455.15	0.0138	0.0039
Venus	112425-08-21 17:44 G	42783681.04	42783681.24	42783681.46	0.0138	0.0024
Venus	112426-04-05 01:10 G	42783907.34	42783907.55	42783907.77	0.0137	0.0008
Venus	112426-11-17 08:37 G	42784133.64	42784133.86	42784134.07	0.0137	0.0008
Venus	112427-07-01 15:20 G	42784359.93	42784360.14	42784360.36	0.0137	0.0024
Venus	112428-02-12 22:03 G	42784586.22	42784586.42	42784586.63	0.0137	0.0039
Venus	112428-09-26 04:32 G	42784812.50	42784812.69	42784812.90	0.0137	0.0054
Moon	112429-01-28 16:32 G	42784936.95	42784937.19	42784937.45	0.0137	0.0045
Earth	112429-01-28 16:32 G	42784936.96	42784937.19	42784937.43	0.0137	0.0052 *
Venus	112429-05-10 11:01 G	42785038.78	42785038.96	42785039.15	0.0137	0.0069
Venus	112429-12-22 17:15 G	42785265.06	42785265.22	42785265.40	0.0137	0.0084
Moon	112430-02-02 02:37 G	42785306.38	42785306.61	42785306.85	0.0137	0.0040
Earth	112430-02-02 03:06 G	42785306.40	42785306.63	42785306.87	0.0137	0.0047 *
Venus	112430-08-05 23:15 G	42785491.34	42785491.47	42785491.64	0.0136	0.0099
Venus	112431-03-20 05:15 G	42785717.62	42785717.72	42785717.86	0.0136	0.0113
Venus	112431-11-01 11:01 G	42785943.90	42785943.96	42785944.06	0.0136	0.0127
Mars	112442-08-05 05:15 G	42789873.44	42789873.72	42789874.00	0.0135	0.0027
Mercury	112464-08-27 14:08 G	42797932.09	42797932.09	42797932.12	0.0139	0.0139
Venus	112464-08-30 01:39 G	42797934.52	42797934.57	42797934.65	0.0139	0.0133
Mercury	112464-11-23 17:58 G	42798020.19	42798020.25	42798020.33	0.0139	0.0118
Mercury	112465-02-19 21:49 G	42798108.32	42798108.41	42798108.51	0.0139	0.0098

Venus	112465-04-13 10:18 G	42798160.83	42798160.93	42798161.06	0.0139	0.0118
Mercury	112465-05-19 01:25 G	42798196.46	42798196.56	42798196.68	0.0139	0.0079
Mercury	112465-08-15 05:15 G	42798284.60	42798284.72	42798284.85	0.0139	0.0058
Mercury	112465-11-11 08:51 G	42798372.74	42798372.87	42798373.00	0.0140	0.0039
Venus	112465-11-25 19:39 G	42798387.17	42798387.32	42798387.47	0.0140	0.0102
Mercury	112466-02-07 12:27 G	42798460.89	42798461.02	42798461.16	0.0140	0.0019
Mercury	112466-05-06 16:18 G	42798549.04	42798549.18	42798549.31	0.0140	0.0003
Venus	112466-07-10 04:18 G	42798613.52	42798613.68	42798613.87	0.0140	0.0087
Mercury	112466-08-02 19:54 G	42798637.19	42798637.33	42798637.46	0.0140	0.0021
Mercury	112466-10-29 23:15 G	42798725.35	42798725.47	42798725.61	0.0140	0.0041
Mercury	112467-01-26 03:06 G	42798813.50	42798813.63	42798813.75	0.0140	0.0060
Venus	112467-02-21 13:54 G	42798839.89	42798840.08	42798840.27	0.0140	0.0070
Mercury	112467-04-24 06:27 G	42798901.67	42798901.77	42798901.89	0.0140	0.0080
Mercury	112467-07-21 10:03 G	42798989.83	42798989.92	42798990.02	0.0140	0.0099
Venus	112467-10-05 23:15 G	42799066.27	42799066.47	42799066.68	0.0140	0.0054
Mercury	112467-10-17 13:25 G	42799078.00	42799078.06	42799078.14	0.0140	0.0119
Mercury	112468-01-13 17:01 G	42799166.20	42799166.21	42799166.24	0.0140	0.0138
Venus	112468-05-19 09:06 G	42799292.67	42799292.88	42799293.09	0.0140	0.0037
Venus	112468-12-31 18:56 G	42799519.07	42799519.29	42799519.51	0.0140	0.0021
Venus	112469-08-15 04:46 G	42799745.49	42799745.70	42799745.92	0.0141	0.0005
Venus	112470-03-29 15:06 G	42799971.91	42799972.13	42799972.35	0.0141	0.0013
Venus	112470-11-11 01:25 G	42800198.35	42800198.56	42800198.78	0.0141	0.0030
Venus	112471-06-25 11:58 G	42800424.80	42800425.00	42800425.21	0.0141	0.0048
Earth	112471-07-24 22:32 G	42800454.33	42800454.44	42800454.58	0.0141	0.0122
Moon	112471-07-25 02:08 G	42800454.51	42800454.59	42800454.70	0.0141	0.0131 *
Venus	112472-02-06 22:46 G	42800651.25	42800651.45	42800651.64	0.0141	0.0065
Moon	112472-07-28 16:32 G	42800823.93	42800824.19	42800824.45	0.0141	0.0006
Earth	112472-07-28 19:39 G	42800824.07	42800824.32	42800824.58	0.0141	0.0012 *
Venus	112472-09-20 09:20 G	42800877.72	42800877.89	42800878.08	0.0141	0.0082
Venus	112473-05-04 20:37 G	42801104.21	42801104.36	42801104.52	0.0142	0.0099

Earth	112473-08-02 16:18 G	42801194.01	42801194.18	42801194.38	0.0142	0.0099
Moon	112473-08-02 19:25 G	42801194.14	42801194.31	42801194.50	0.0142	0.0097 *
Venus	112473-12-17 07:39 G	42801330.70	42801330.82	42801330.96	0.0142	0.0116
Venus	112474-07-31 19:10 G	42801557.22	42801557.30	42801557.38	0.0142	0.0132
Mars	112484-10-29 13:10 G	42805299.87	42805300.05	42805300.25	0.0143	0.0117
Venus	112504-12-19 18:13 G	42812655.26	42812655.26	42812655.30	0.0139	0.0138
Venus	112505-08-03 02:51 G	42812881.54	42812881.62	42812881.73	0.0139	0.0123
Mercury	112505-09-13 19:10 G	42812923.25	42812923.30	42812923.36	0.0139	0.0131
Mercury	112505-12-11 01:54 G	42813011.47	42813011.58	42813011.71	0.0139	0.0106
Mercury	112506-03-09 08:51 G	42813099.73	42813099.87	42813100.03	0.0138	0.0080
Venus	112506-03-17 11:44 G	42813107.85	42813107.99	42813108.12	0.0138	0.0107
Mercury	112506-06-05 15:49 G	42813188.00	42813188.16	42813188.34	0.0138	0.0055
Mercury	112506-09-01 23:01 G	42813276.28	42813276.46	42813276.64	0.0138	0.0029
Venus	112506-10-29 19:54 G	42813334.17	42813334.33	42813334.50	0.0138	0.0091
Mercury	112506-11-29 05:58 G	42813364.56	42813364.75	42813364.93	0.0138	0.0003
Mercury	112507-02-25 12:56 G	42813452.86	42813453.04	42813453.23	0.0138	0.0024
Mercury	112507-05-24 19:54 G	42813541.17	42813541.33	42813541.51	0.0138	0.0050
Venus	112507-06-13 04:03 G	42813560.49	42813560.67	42813560.85	0.0138	0.0076
Mercury	112507-08-21 03:06 G	42813629.48	42813629.63	42813629.79	0.0138	0.0076
Mercury	112507-11-17 10:18 G	42813717.81	42813717.93	42813718.06	0.0138	0.0102
Venus	112508-01-25 11:44 G	42813786.80	42813786.99	42813787.20	0.0138	0.0060
Mercury	112508-02-13 17:30 G	42813806.17	42813806.23	42813806.30	0.0138	0.0128
Venus	112508-09-07 19:39 G	42814013.12	42814013.32	42814013.53	0.0138	0.0044
Jupiter	112508-10-21 08:08 G	42814056.33	42814056.84	42814057.37	0.0138	0.0024
Venus	112509-04-22 03:06 G	42814239.42	42814239.63	42814239.85	0.0138	0.0028
Venus	112509-12-04 10:46 G	42814465.73	42814465.95	42814466.16	0.0137	0.0012
Venus	112510-07-18 17:58 G	42814692.03	42814692.25	42814692.46	0.0137	0.0004
Venus	112511-03-02 00:42 G	42814918.32	42814918.53	42814918.75	0.0137	0.0019
Venus	112511-10-14 07:39 G	42815144.62	42815144.82	42815145.03	0.0137	0.0034
Venus	112512-05-27 14:22 G	42815370.90	42815371.10	42815371.30	0.0137	0.0049

Venus	112513-01-08 20:37 G	42815597.18	42815597.36	42815597.56	0.0137	0.0065
Moon	112513-01-30 00:27 G	42815618.28	42815618.52	42815618.76	0.0137	0.0040
Earth	112513-01-30 03:20 G	42815618.40	42815618.64	42815618.88	0.0137	0.0046 *
Venus	112513-08-23 02:51 G	42815823.46	42815823.62	42815823.81	0.0137	0.0080
Earth	112514-02-03 13:39 G	42815987.84	42815988.07	42815988.30	0.0137	0.0052
Moon	112514-02-03 16:46 G	42815987.97	42815988.20	42815988.45	0.0137	0.0051 *
Venus	112514-04-06 09:06 G	42816049.74	42816049.88	42816050.05	0.0137	0.0094
Venus	112514-11-18 15:34 G	42816276.02	42816276.15	42816276.28	0.0136	0.0108
Venus	112515-07-02 20:51 G	42816502.30	42816502.37	42816502.49	0.0136	0.0123
Venus	112516-02-14 02:51 G	42816728.61	42816728.62	42816728.65	0.0136	0.0136
Venus	112548-04-30 09:34 G	42828492.87	42828492.90	42828492.93	0.0139	0.0138
Mercury	112548-09-17 21:20 G	42828633.36	42828633.39	42828633.43	0.0139	0.0134
Venus	112548-12-12 17:58 G	42828719.16	42828719.25	42828719.36	0.0139	0.0123
Mercury	112548-12-15 00:56 G	42828721.48	42828721.54	42828721.63	0.0139	0.0115
Mercury	112549-03-13 04:46 G	42828809.61	42828809.70	42828809.81	0.0139	0.0094
Mercury	112549-06-09 08:37 G	42828897.75	42828897.86	42828897.98	0.0139	0.0074
Venus	112549-07-27 02:37 G	42828945.48	42828945.61	42828945.76	0.0139	0.0108
Mercury	112549-09-05 12:13 G	42828985.89	42828986.01	42828986.14	0.0139	0.0054
Mercury	112549-12-02 16:03 G	42829074.04	42829074.17	42829074.30	0.0140	0.0034
Mercury	112550-02-28 19:39 G	42829162.18	42829162.32	42829162.46	0.0140	0.0015
Venus	112550-03-10 11:44 G	42829171.83	42829171.99	42829172.16	0.0140	0.0092
Mercury	112550-05-27 23:15 G	42829250.34	42829250.47	42829250.61	0.0140	0.0005
Mercury	112550-08-24 02:51 G	42829338.49	42829338.62	42829338.76	0.0140	0.0025
Venus	112550-10-22 20:51 G	42829398.19	42829398.37	42829398.56	0.0140	0.0076
Mercury	112550-11-20 06:27 G	42829426.64	42829426.77	42829426.90	0.0140	0.0045
Mercury	112551-02-16 10:03 G	42829514.80	42829514.92	42829515.04	0.0140	0.0064
Mercury	112551-05-15 13:39 G	42829602.96	42829603.07	42829603.18	0.0140	0.0084
Venus	112551-06-06 05:58 G	42829624.57	42829624.75	42829624.96	0.0140	0.0060
Mercury	112551-08-11 17:15 G	42829691.13	42829691.22	42829691.31	0.0140	0.0103
Mercury	112551-11-07 20:37 G	42829779.31	42829779.36	42829779.43	0.0140	0.0123

Venus	112552-01-18 15:49 G	42829850.95	42829851.16	42829851.37	0.0140	0.0043
Venus	112552-09-01 01:25 G	42830077.35	42830077.56	42830077.78	0.0140	0.0027
Venus	112553-04-15 11:30 G	42830303.76	42830303.98	42830304.20	0.0141	0.0010
Venus	112553-11-27 21:34 G	42830530.18	42830530.40	42830530.62	0.0141	0.0007
Venus	112554-07-12 07:39 G	42830756.61	42830756.82	42830757.04	0.0141	0.0025
Venus	112555-02-23 17:58 G	42830983.05	42830983.25	42830983.47	0.0141	0.0042
Moon	112555-07-26 05:58 G	42831135.63	42831135.75	42831135.90	0.0141	0.0122
Earth	112555-07-26 07:25 G	42831135.69	42831135.81	42831135.96	0.0141	0.0119 *
Venus	112555-10-08 04:18 G	42831209.50	42831209.68	42831209.90	0.0141	0.0059
Venus	112556-05-21 15:34 G	42831435.96	42831436.15	42831436.33	0.0141	0.0076
Earth	112556-07-30 04:18 G	42831505.42	42831505.68	42831505.93	0.0141	0.0009
Moon	112556-07-30 04:32 G	42831505.44	42831505.69	42831505.94	0.0141	0.0010 *
Venus	112557-01-03 02:22 G	42831662.44	42831662.60	42831662.77	0.0141	0.0093
Moon	112557-08-04 00:27 G	42831875.37	42831875.52	42831875.72	0.0142	0.0107
Earth	112557-08-04 00:56 G	42831875.38	42831875.54	42831875.74	0.0142	0.0103 *
Venus	112557-08-17 13:10 G	42831888.93	42831889.05	42831889.20	0.0142	0.0110
Venus	112558-04-01 00:13 G	42832115.43	42832115.51	42832115.63	0.0142	0.0127
Venus	112589-04-02 11:15 G	42843439.90	42843439.97	42843440.06	0.0139	0.0128
Mercury	112589-10-04 02:08 G	42843624.53	42843624.59	42843624.68	0.0139	0.0125
Venus	112589-11-14 19:39 G	42843666.21	42843666.32	42843666.46	0.0139	0.0113
Mercury	112589-12-31 09:06 G	42843712.76	42843712.88	42843713.02	0.0138	0.0099
Mercury	112590-03-29 16:03 G	42843801.02	42843801.17	42843801.33	0.0138	0.0074
Mercury	112590-06-25 23:15 G	42843889.30	42843889.47	42843889.64	0.0138	0.0048
Venus	112590-06-29 04:18 G	42843892.53	42843892.68	42843892.84	0.0138	0.0097
Mercury	112590-09-22 06:13 G	42843977.58	42843977.76	42843977.94	0.0138	0.0022
Mercury	112590-12-19 13:10 G	42844065.87	42844066.05	42844066.24	0.0138	0.0004
Venus	112591-02-10 12:27 G	42844118.85	42844119.02	42844119.20	0.0138	0.0081
Mercury	112591-03-17 20:08 G	42844154.16	42844154.34	42844154.53	0.0138	0.0030
Mercury	112591-06-14 03:20 G	42844242.47	42844242.64	42844242.81	0.0138	0.0056
Mercury	112591-09-10 10:32 G	42844330.79	42844330.94	42844331.09	0.0138	0.0082

Venus	112591-09-24 20:37 G	42844345.17	42844345.36	42844345.56	0.0138	0.0065
Mercury	112591-12-07 17:15 G	42844419.12	42844419.22	42844419.35	0.0138	0.0109
Mercury	112592-03-05 00:42 G	42844507.50	42844507.53	42844507.57	0.0138	0.0135
Venus	112592-05-08 04:32 G	42844571.49	42844571.69	42844571.90	0.0138	0.0049
Venus	112592-12-20 11:58 G	42844797.80	42844798.00	42844798.22	0.0138	0.0034
Venus	112593-08-03 19:39 G	42845024.11	42845024.32	42845024.54	0.0138	0.0017
Venus	112594-03-18 02:51 G	42845250.41	42845250.62	42845250.84	0.0137	0.0003
Venus	112594-10-30 10:03 G	42845476.71	42845476.92	42845477.14	0.0137	0.0014
Venus	112595-06-13 17:01 G	42845703.00	42845703.21	42845703.42	0.0137	0.0029
Venus	112596-01-25 23:30 G	42845929.29	42845929.48	42845929.69	0.0137	0.0045
Venus	112596-09-08 05:58 G	42846155.57	42846155.75	42846155.95	0.0137	0.0060
Earth	112597-01-30 13:25 G	42846299.82	42846300.06	42846300.30	0.0137	0.0041
Moon	112597-01-30 16:32 G	42846299.96	42846300.19	42846300.43	0.0137	0.0042 *
Venus	112597-04-22 12:13 G	42846381.85	42846382.01	42846382.21	0.0137	0.0075
Venus	112597-12-04 18:42 G	42846608.13	42846608.28	42846608.45	0.0137	0.0089
Moon	112598-02-03 20:08 G	42846669.12	42846669.34	42846669.58	0.0137	0.0062
Earth	112598-02-03 23:44 G	42846669.26	42846669.49	42846669.72	0.0137	0.0057 *
Venus	112598-07-19 00:42 G	42846834.41	42846834.53	42846834.68	0.0136	0.0104
Venus	112599-03-02 06:42 G	42847060.69	42847060.78	42847060.90	0.0136	0.0118
Venus	112599-10-14 12:27 G	42847286.98	42847287.02	42847287.09	0.0136	0.0132
Mars	112609-12-25 03:34 G	42851010.40	42851010.65	42851010.91	0.0135	0.0063
Venus	112632-08-13 00:56 G	42859277.47	42859277.54	42859277.64	0.0139	0.0128
Mercury	112632-10-09 04:17 G	42859334.64	42859334.68	42859334.73	0.0139	0.0130
Mercury	112633-01-05 08:08 G	42859422.76	42859422.84	42859422.93	0.0139	0.0110
Venus	112633-03-27 10:03 G	42859503.79	42859503.92	42859504.04	0.0139	0.0113
Mercury	112633-04-03 11:44 G	42859510.89	42859510.99	42859511.10	0.0139	0.0091
Mercury	112633-06-30 15:34 G	42859599.03	42859599.15	42859599.27	0.0139	0.0070
Mercury	112633-09-26 19:10 G	42859687.18	42859687.30	42859687.43	0.0139	0.0051
Venus	112633-11-08 18:27 G	42859730.13	42859730.27	42859730.44	0.0140	0.0098
Mercury	112633-12-23 23:01 G	42859775.33	42859775.46	42859775.59	0.0140	0.0031

Mercury	112634-03-22 02:37 G	42859863.48	42859863.61	42859863.75	0.0140	0.0011
Mercury	112634-06-18 06:13 G	42859951.63	42859951.76	42859951.90	0.0140	0.0009
Venus	112634-06-23 03:34 G	42859956.49	42859956.65	42859956.84	0.0140	0.0082
Mercury	112634-09-14 09:49 G	42860039.78	42860039.91	42860040.05	0.0140	0.0029
Mercury	112634-12-11 13:25 G	42860127.94	42860128.06	42860128.19	0.0140	0.0049
Venus	112635-02-04 12:41 G	42860182.85	42860183.03	42860183.24	0.0140	0.0066
Mercury	112635-03-09 17:01 G	42860216.10	42860216.21	42860216.33	0.0140	0.0068
Mercury	112635-06-05 20:37 G	42860304.26	42860304.36	42860304.47	0.0140	0.0088
Mercury	112635-09-02 00:13 G	42860392.43	42860392.51	42860392.60	0.0140	0.0107
Venus	112635-09-18 22:17 G	42860409.23	42860409.43	42860409.64	0.0140	0.0049
Mercury	112635-11-29 03:49 G	42860480.61	42860480.66	42860480.72	0.0140	0.0126
Venus	112636-05-02 08:08 G	42860635.63	42860635.84	42860636.05	0.0140	0.0032
Venus	112636-12-14 17:58 G	42860862.03	42860862.25	42860862.46	0.0140	0.0016
Venus	112637-07-29 03:49 G	42861088.44	42861088.66	42861088.88	0.0141	0.0002
Venus	112638-03-12 13:39 G	42861314.86	42861315.07	42861315.30	0.0141	0.0019
Venus	112638-10-24 23:58 G	42861541.29	42861541.50	42861541.72	0.0141	0.0036
Venus	112639-06-08 10:32 G	42861767.74	42861767.94	42861768.15	0.0141	0.0053
Moon	112639-07-27 14:08 G	42861816.95	42861817.09	42861817.25	0.0141	0.0111
Earth	112639-07-27 15:34 G	42861817.03	42861817.15	42861817.32	0.0141	0.0116 *
Venus	112640-01-20 21:20 G	42861994.20	42861994.39	42861994.58	0.0141	0.0070
Earth	112640-07-31 12:41 G	42862186.77	42862187.03	42862187.28	0.0141	0.0005
Moon	112640-07-31 15:20 G	42862186.88	42862187.14	42862187.40	0.0141	0.0012 *
Venus	112640-09-03 08:08 G	42862220.67	42862220.84	42862221.01	0.0141	0.0087
Venus	112641-04-17 18:56 G	42862447.15	42862447.29	42862447.45	0.0142	0.0104
Moon	112641-08-05 07:25 G	42862556.67	42862556.81	42862556.96	0.0142	0.0114
Earth	112641-08-05 09:49 G	42862556.75	42862556.91	42862557.08	0.0142	0.0106 *
Venus	112641-11-30 05:58 G	42862673.65	42862673.75	42862673.88	0.0142	0.0121
Venus	112642-07-14 17:15 G	42862900.19	42862900.22	42862900.29	0.0142	0.0138
Mars	112652-03-17 15:34 G	42866433.82	42866434.15	42866434.48	0.0143	0.0016
Venus	112672-12-01 19:10 G	42873998.25	42873998.30	42873998.36	0.0139	0.0133

Venus	112673-07-16 03:34 G	42874224.55	42874224.65	42874224.78	0.0139	0.0118
Mercury	112673-10-25 09:05 G	42874325.80	42874325.88	42874325.99	0.0139	0.0119
Mercury	112674-01-21 16:17 G	42874414.05	42874414.18	42874414.32	0.0138	0.0093
Venus	112674-02-27 12:27 G	42874450.88	42874451.02	42874451.17	0.0138	0.0102
Mercury	112674-04-19 23:01 G	42874502.31	42874502.46	42874502.63	0.0138	0.0068
Mercury	112674-07-17 06:13 G	42874590.59	42874590.76	42874590.94	0.0138	0.0041
Venus	112674-10-11 20:37 G	42874677.21	42874677.36	42874677.55	0.0138	0.0087
Mercury	112674-10-13 13:10 G	42874678.87	42874679.05	42874679.24	0.0138	0.0016
Mercury	112675-01-09 20:22 G	42874767.16	42874767.35	42874767.53	0.0138	0.0011
Mercury	112675-04-08 03:20 G	42874855.46	42874855.64	42874855.82	0.0138	0.0037
Venus	112675-05-26 05:01 G	42874903.53	42874903.71	42874903.90	0.0138	0.0070
Mercury	112675-07-05 10:17 G	42874943.77	42874943.93	42874944.10	0.0138	0.0063
Mercury	112675-10-01 17:15 G	42875032.09	42875032.22	42875032.38	0.0138	0.0089
Mercury	112675-12-29 00:27 G	42875120.43	42875120.52	42875120.63	0.0138	0.0115
Venus	112676-01-07 12:56 G	42875129.85	42875130.04	42875130.24	0.0138	0.0054
Venus	112676-08-20 20:37 G	42875356.16	42875356.36	42875356.58	0.0138	0.0039
Venus	112677-04-04 04:17 G	42875582.47	42875582.68	42875582.90	0.0138	0.0023
Venus	112677-11-16 11:44 G	42875808.78	42875808.99	42875809.21	0.0137	0.0008
Venus	112678-06-30 18:56 G	42876035.08	42876035.29	42876035.51	0.0137	0.0010
Venus	112679-02-12 01:53 G	42876261.37	42876261.58	42876261.80	0.0137	0.0025
Venus	112679-09-26 08:37 G	42876487.66	42876487.86	42876488.07	0.0137	0.0040
Earth	112680-01-28 12:27 G	42876611.99	42876612.02	42876612.05	0.0137	0.0135
Moon	112680-01-28 13:25 G	42876612.02	42876612.06	42876612.15	0.0137	0.0132 *
Venus	112680-05-09 15:20 G	42876713.95	42876714.14	42876714.34	0.0137	0.0055
Venus	112680-12-21 22:03 G	42876940.23	42876940.42	42876940.60	0.0137	0.0070
Moon	112681-01-31 22:32 G	42876981.19	42876981.44	42876981.69	0.0137	0.0043
Earth	112681-01-31 23:15 G	42876981.23	42876981.47	42876981.72	0.0137	0.0037 *
Venus	112681-08-05 04:03 G	42877166.51	42877166.67	42877166.85	0.0137	0.0085
Earth	112682-02-05 09:20 G	42877350.68	42877350.89	42877351.13	0.0137	0.0062
Moon	112682-02-05 10:46 G	42877350.74	42877350.95	42877351.16	0.0137	0.0069 *

Venus	112682-03-19 10:03 G	42877392.79	42877392.92	42877393.09	0.0137	0.0100
Venus	112682-10-31 16:32 G	42877619.08	42877619.19	42877619.31	0.0136	0.0114
Venus	112683-06-14 22:17 G	42877845.37	42877845.43	42877845.51	0.0136	0.0128
Mars	112694-08-19 09:34 G	42881928.66	42881928.90	42881929.15	0.0135	0.0069
Venus	112716-04-13 08:51 G	42889835.83	42889835.87	42889835.95	0.0139	0.0133
Mercury	112716-10-30 11:29 G	42890035.93	42890035.98	42890036.04	0.0139	0.0125
Venus	112716-11-25 17:29 G	42890062.13	42890062.23	42890062.36	0.0139	0.0118
Mercury	112717-01-26 15:20 G	42890124.05	42890124.14	42890124.23	0.0139	0.0105
Mercury	112717-04-24 18:56 G	42890212.19	42890212.29	42890212.41	0.0139	0.0086
Venus	112717-07-10 02:22 G	42890288.46	42890288.60	42890288.75	0.0139	0.0103
Mercury	112717-07-21 22:46 G	42890300.33	42890300.45	42890300.57	0.0139	0.0065
Mercury	112717-10-18 02:22 G	42890388.47	42890388.60	42890388.73	0.0139	0.0046
Mercury	112718-01-14 06:13 G	42890476.62	42890476.76	42890476.89	0.0140	0.0026
Venus	112718-02-21 11:15 G	42890514.81	42890514.97	42890515.14	0.0140	0.0087
Mercury	112718-04-12 09:49 G	42890564.77	42890564.91	42890565.05	0.0140	0.0006
Mercury	112718-07-09 13:25 G	42890652.92	42890653.06	42890653.20	0.0140	0.0014
Mercury	112718-10-05 17:01 G	42890741.08	42890741.21	42890741.34	0.0140	0.0033
Venus	112718-10-05 20:08 G	42890741.17	42890741.34	42890741.54	0.0140	0.0071 *
Mercury	112719-01-01 20:37 G	42890829.24	42890829.36	42890829.49	0.0140	0.0053
Mercury	112719-03-31 00:13 G	42890917.40	42890917.51	42890917.63	0.0140	0.0073
Venus	112719-05-20 05:44 G	42890967.54	42890967.74	42890967.94	0.0140	0.0054
Mercury	112719-06-27 03:49 G	42891005.56	42891005.66	42891005.76	0.0140	0.0092
Mercury	112719-09-23 07:25 G	42891093.73	42891093.81	42891093.89	0.0140	0.0111
Mercury	112719-12-20 10:46 G	42891181.91	42891181.95	42891182.00	0.0140	0.0131
Venus	112720-01-01 15:05 G	42891193.92	42891194.13	42891194.34	0.0140	0.0038
Venus	112720-08-15 00:41 G	42891420.32	42891420.53	42891420.75	0.0140	0.0021
Venus	112721-03-29 10:32 G	42891646.72	42891646.94	42891647.16	0.0140	0.0005
Venus	112721-11-10 20:37 G	42891873.14	42891873.36	42891873.58	0.0141	0.0013
Venus	112722-06-25 06:41 G	42892099.57	42892099.78	42892100.00	0.0141	0.0030
Venus	112723-02-06 17:01 G	42892326.01	42892326.21	42892326.42	0.0141	0.0047

Earth	112723-07-29 00:56 G	42892498.40	42892498.54	42892498.71	0.0141	0.0111
Moon	112723-07-29 04:32 G	42892498.53	42892498.69	42892498.87	0.0141	0.0104 *
Venus	112723-09-21 03:20 G	42892552.46	42892552.64	42892552.85	0.0141	0.0065
Venus	112724-05-04 14:08 G	42892778.92	42892779.09	42892779.28	0.0141	0.0082
Moon	112724-08-01 17:58 G	42892868.00	42892868.25	42892868.51	0.0141	0.0009
Earth	112724-08-01 21:49 G	42892868.16	42892868.41	42892868.67	0.0141	0.0001 *
Venus	112724-12-17 01:10 G	42893005.40	42893005.55	42893005.72	0.0141	0.0098
Venus	112725-07-31 11:58 G	42893231.89	42893232.00	42893232.15	0.0142	0.0116
Earth	112725-08-06 18:56 G	42893238.14	42893238.29	42893238.46	0.0142	0.0110
Moon	112725-08-06 22:32 G	42893238.29	42893238.44	42893238.59	0.0142	0.0114 *
Venus	112726-03-14 23:29 G	42893458.41	42893458.48	42893458.56	0.0142	0.0132
Venus	112756-08-02 02:37 G	42904556.61	42904556.61	42904556.63	0.0139	0.0139
Venus	112757-03-16 11:29 G	42904782.89	42904782.98	42904783.09	0.0139	0.0123
Mercury	112757-08-19 09:20 G	42904938.88	42904938.89	42904938.92	0.0139	0.0138
Venus	112757-10-28 20:08 G	42905009.22	42905009.34	42905009.49	0.0139	0.0108
Mercury	112757-11-15 16:03 G	42905027.08	42905027.17	42905027.29	0.0139	0.0113
Mercury	112758-02-11 23:15 G	42905115.33	42905115.47	42905115.62	0.0138	0.0087
Mercury	112758-05-11 05:58 G	42905203.60	42905203.75	42905203.93	0.0138	0.0062
Venus	112758-06-12 04:46 G	42905235.54	42905235.70	42905235.87	0.0138	0.0091
Mercury	112758-08-07 13:10 G	42905291.88	42905292.05	42905292.23	0.0138	0.0035
Mercury	112758-11-03 20:08 G	42905380.16	42905380.34	42905380.53	0.0138	0.0010
Venus	112759-01-24 12:56 G	42905461.87	42905462.04	42905462.23	0.0138	0.0076
Mercury	112759-01-31 03:20 G	42905468.45	42905468.64	42905468.82	0.0138	0.0017
Mercury	112759-04-29 10:17 G	42905556.76	42905556.93	42905557.11	0.0138	0.0043
Mercury	112759-07-26 17:15 G	42905645.07	42905645.22	42905645.39	0.0138	0.0069
Venus	112759-09-07 21:05 G	42905688.19	42905688.38	42905688.58	0.0138	0.0059
Mercury	112759-10-23 00:13 G	42905733.39	42905733.51	42905733.66	0.0138	0.0095
Mercury	112760-01-19 07:25 G	42905821.73	42905821.81	42905821.91	0.0138	0.0121
Venus	112760-04-21 04:46 G	42905914.51	42905914.70	42905914.92	0.0138	0.0044
Venus	112760-12-03 12:41 G	42906140.82	42906141.03	42906141.25	0.0138	0.0028

Venus	112761-07-17 20:08 G	42906367.13	42906367.34	42906367.56	0.0138	0.0012
Venus	112762-03-01 03:20 G	42906593.43	42906593.64	42906593.86	0.0137	0.0005
Venus	112762-10-13 10:32 G	42906819.73	42906819.94	42906820.16	0.0137	0.0020
Venus	112763-05-27 17:29 G	42907046.02	42907046.23	42907046.44	0.0137	0.0035
Venus	112764-01-09 00:13 G	42907272.31	42907272.51	42907272.71	0.0137	0.0050
Earth	112764-01-29 21:20 G	42907293.34	42907293.39	42907293.47	0.0137	0.0132
Moon	112764-01-29 23:15 G	42907293.37	42907293.47	42907293.58	0.0137	0.0124 *
Venus	112764-08-22 06:27 G	42907498.59	42907498.77	42907498.97	0.0137	0.0066
Moon	112765-02-02 06:27 G	42907662.54	42907662.77	42907663.01	0.0137	0.0039
Earth	112765-02-02 08:37 G	42907662.62	42907662.86	42907663.11	0.0137	0.0033 *
Venus	112765-04-05 12:56 G	42907724.88	42907725.04	42907725.22	0.0137	0.0081
Venus	112765-11-17 19:39 G	42907951.16	42907951.32	42907951.47	0.0137	0.0095
Earth	112766-02-06 18:56 G	42908032.07	42908032.29	42908032.52	0.0137	0.0065
Moon	112766-02-06 20:22 G	42908032.15	42908032.35	42908032.59	0.0137	0.0070 *
Venus	112766-07-02 01:25 G	42908177.45	42908177.56	42908177.70	0.0136	0.0110
Venus	112767-02-13 07:25 G	42908403.73	42908403.81	42908403.91	0.0136	0.0124
Venus	112799-12-12 16:46 G	42920394.19	42920394.20	42920394.24	0.0139	0.0138
Venus	112800-07-26 01:10 G	42920620.46	42920620.55	42920620.66	0.0139	0.0123
Mercury	112800-11-19 18:27 G	42920737.22	42920737.27	42920737.35	0.0139	0.0122
Mercury	112801-02-15 22:32 G	42920825.35	42920825.44	42920825.53	0.0139	0.0101
Venus	112801-03-09 09:49 G	42920846.79	42920846.91	42920847.06	0.0139	0.0108
Mercury	112801-05-15 02:08 G	42920913.48	42920913.59	42920913.71	0.0139	0.0081
Mercury	112801-08-11 05:44 G	42921001.62	42921001.74	42921001.87	0.0139	0.0061
Venus	112801-10-21 18:56 G	42921073.12	42921073.29	42921073.45	0.0140	0.0092
Mercury	112801-11-07 09:34 G	42921089.77	42921089.90	42921090.03	0.0140	0.0041
Mercury	112802-02-03 13:10 G	42921177.92	42921178.05	42921178.19	0.0140	0.0022
Mercury	112802-05-02 16:46 G	42921266.07	42921266.20	42921266.34	0.0140	0.0005
Venus	112802-06-05 03:49 G	42921299.48	42921299.66	42921299.84	0.0140	0.0076
Mercury	112802-07-29 20:22 G	42921354.22	42921354.35	42921354.49	0.0140	0.0019
Mercury	112802-10-26 00:13 G	42921442.38	42921442.51	42921442.64	0.0140	0.0038

Venus	112803-01-17 12:41 G	42921525.84	42921526.03	42921526.24	0.0140	0.0060
Mercury	112803-01-22 03:34 G	42921530.53	42921530.65	42921530.78	0.0140	0.0058
Mercury	112803-04-20 07:10 G	42921618.69	42921618.80	42921618.92	0.0140	0.0077
Mercury	112803-07-17 11:01 G	42921706.86	42921706.96	42921707.05	0.0140	0.0096
Venus	112803-08-31 22:17 G	42921752.22	42921752.43	42921752.63	0.0140	0.0043
Mercury	112803-10-13 14:22 G	42921795.03	42921795.10	42921795.18	0.0140	0.0116
Mercury	112804-01-09 17:58 G	42921883.22	42921883.25	42921883.29	0.0140	0.0135
Venus	112804-04-14 07:53 G	42921978.61	42921978.83	42921979.04	0.0140	0.0027
Venus	112804-11-26 17:29 G	42922205.01	42922205.23	42922205.45	0.0140	0.0010
Venus	112805-07-11 03:20 G	42922431.42	42922431.64	42922431.86	0.0141	0.0007
Venus	112806-02-22 13:10 G	42922657.84	42922658.05	42922658.27	0.0141	0.0025
Venus	112806-10-06 23:29 G	42922884.28	42922884.48	42922884.70	0.0141	0.0042
Venus	112807-05-21 10:03 G	42923110.73	42923110.92	42923111.13	0.0141	0.0059
Moon	112807-07-29 07:53 G	42923179.66	42923179.83	42923180.02	0.0141	0.0102
Earth	112807-07-29 10:17 G	42923179.78	42923179.93	42923180.11	0.0141	0.0107 *
Venus	112808-01-02 20:37 G	42923337.19	42923337.36	42923337.56	0.0141	0.0076
Earth	112808-08-02 07:10 G	42923549.55	42923549.80	42923550.06	0.0141	0.0004
Moon	112808-08-02 09:49 G	42923549.66	42923549.91	42923550.16	0.0141	0.0002 *
Venus	112808-08-16 07:25 G	42923563.66	42923563.81	42923563.99	0.0141	0.0093
Venus	112809-03-30 18:13 G	42923790.14	42923790.26	42923790.42	0.0141	0.0111
Moon	112809-08-07 02:51 G	42923919.46	42923919.62	42923919.79	0.0142	0.0111
Earth	112809-08-07 04:17 G	42923919.55	42923919.68	42923919.85	0.0142	0.0115 *
Venus	112809-11-12 05:44 G	42924016.65	42924016.74	42924016.84	0.0142	0.0127
Venus	112840-11-13 19:39 G	42935341.25	42935341.32	42935341.41	0.0139	0.0128
Venus	112841-06-28 04:03 G	42935567.57	42935567.67	42935567.82	0.0139	0.0113
Mercury	112841-09-08 16:32 G	42935640.14	42935640.19	42935640.26	0.0139	0.0131
Mercury	112841-12-05 23:29 G	42935728.37	42935728.48	42935728.60	0.0139	0.0106
Venus	112842-02-09 12:56 G	42935793.89	42935794.04	42935794.20	0.0138	0.0096
Mercury	112842-03-04 06:13 G	42935816.62	42935816.76	42935816.92	0.0138	0.0080
Mercury	112842-05-31 13:25 G	42935904.89	42935905.06	42935905.23	0.0138	0.0054

Mercury	112842-08-27 20:22 G	42935993.17	42935993.35	42935993.53	0.0138	0.0029
Venus	112842-09-23 21:20 G	42936020.22	42936020.39	42936020.57	0.0138	0.0080
Mercury	112842-11-24 03:20 G	42936081.46	42936081.64	42936081.83	0.0138	0.0003
Mercury	112843-02-20 10:17 G	42936169.75	42936169.93	42936170.12	0.0138	0.0023
Venus	112843-05-08 05:29 G	42936246.55	42936246.73	42936246.93	0.0138	0.0065
Mercury	112843-05-19 17:15 G	42936258.05	42936258.22	42936258.40	0.0138	0.0049
Mercury	112843-08-16 00:27 G	42936346.37	42936346.52	42936346.68	0.0138	0.0075
Mercury	112843-11-12 07:39 G	42936434.69	42936434.82	42936434.94	0.0138	0.0101
Venus	112843-12-20 13:39 G	42936472.86	42936473.07	42936473.27	0.0138	0.0048
Mercury	112844-02-08 14:22 G	42936523.05	42936523.10	42936523.19	0.0138	0.0128
Venus	112844-08-02 21:05 G	42936699.18	42936699.38	42936699.60	0.0138	0.0033
Venus	112845-03-17 04:46 G	42936925.49	42936925.70	42936925.92	0.0138	0.0017
Venus	112845-10-29 12:13 G	42937151.80	42937152.01	42937152.23	0.0138	0.0003
Venus	112846-06-12 19:25 G	42937378.10	42937378.31	42937378.53	0.0137	0.0015
Venus	112847-01-25 02:22 G	42937604.39	42937604.60	42937604.81	0.0137	0.0031
Venus	112847-09-08 09:05 G	42937830.68	42937830.88	42937831.09	0.0137	0.0046
Moon	112848-01-30 04:03 G	42937974.58	42937974.67	42937974.79	0.0137	0.0124
Earth	112848-01-30 07:10 G	42937974.74	42937974.80	42937974.91	0.0137	0.0128 *
Venus	112848-04-21 15:49 G	42938056.97	42938057.16	42938057.36	0.0137	0.0061
Venus	112848-12-03 22:32 G	42938283.26	42938283.44	42938283.62	0.0137	0.0076
Earth	112849-02-02 18:27 G	42938344.03	42938344.27	42938344.52	0.0137	0.0029
Moon	112849-02-02 22:17 G	42938344.18	42938344.43	42938344.68	0.0137	0.0029 *
Venus	112849-07-18 04:46 G	42938509.55	42938509.70	42938509.87	0.0137	0.0091
Moon	112850-02-07 01:39 G	42938713.35	42938713.57	42938713.79	0.0136	0.0067
Earth	112850-02-07 05:01 G	42938713.50	42938713.71	42938713.93	0.0136	0.0069 *
Venus	112850-03-01 10:46 G	42938735.83	42938735.95	42938736.10	0.0136	0.0106
Venus	112850-10-13 17:01 G	42938962.12	42938962.21	42938962.32	0.0136	0.0120
Venus	112851-05-27 23:01 G	42939188.43	42939188.46	42939188.51	0.0136	0.0134
Mars	112862-01-07 09:05 G	42943065.61	42943065.88	42943066.17	0.0135	0.0024
Venus	112884-03-25 09:34 G	42951178.83	42951178.90	42951179.00	0.0139	0.0128

Mercury	112884-09-12 22:17 G	42951350.40	42951350.43	42951350.46	0.0139	0.0135
Venus	112884-11-06 18:13 G	42951405.14	42951405.26	42951405.40	0.0139	0.0113
Mercury	112884-12-10 01:53 G	42951438.51	42951438.58	42951438.66	0.0139	0.0116
Mercury	112885-03-08 05:44 G	42951526.64	42951526.74	42951526.84	0.0139	0.0096
Mercury	112885-06-04 09:34 G	42951614.78	42951614.90	42951615.01	0.0139	0.0076
Venus	112885-06-21 03:05 G	42951631.47	42951631.63	42951631.78	0.0139	0.0097
Mercury	112885-08-31 13:10 G	42951702.93	42951703.05	42951703.18	0.0140	0.0056
Mercury	112885-11-27 16:46 G	42951791.07	42951791.20	42951791.34	0.0140	0.0036
Venus	112886-02-02 11:44 G	42951857.82	42951857.99	42951858.17	0.0140	0.0081
Mercury	112886-02-23 20:37 G	42951879.22	42951879.36	42951879.49	0.0140	0.0016
Mercury	112886-05-23 00:13 G	42951967.37	42951967.51	42951967.64	0.0140	0.0004
Mercury	112886-08-19 03:49 G	42952055.52	42952055.66	42952055.79	0.0140	0.0023
Venus	112886-09-16 20:37 G	42952084.18	42952084.36	42952084.56	0.0140	0.0065
Mercury	112886-11-15 07:25 G	42952143.68	42952143.81	42952143.94	0.0140	0.0043
Mercury	112887-02-11 10:46 G	42952231.84	42952231.95	42952232.08	0.0140	0.0063
Venus	112887-05-01 05:58 G	42952310.55	42952310.75	42952310.96	0.0140	0.0049
Mercury	112887-05-10 14:37 G	42952320.00	42952320.11	42952320.22	0.0140	0.0082
Mercury	112887-08-06 18:13 G	42952408.17	42952408.26	42952408.35	0.0140	0.0102
Mercury	112887-11-02 21:34 G	42952496.34	42952496.40	42952496.47	0.0140	0.0121
Venus	112887-12-13 15:20 G	42952536.94	42952537.14	42952537.36	0.0140	0.0032
Venus	112888-07-27 00:56 G	42952763.33	42952763.54	42952763.76	0.0140	0.0016
Venus	112889-03-10 10:46 G	42952989.73	42952989.95	42952990.17	0.0141	0.0002
Venus	112889-10-22 20:51 G	42953216.15	42953216.37	42953216.58	0.0141	0.0019
Venus	112890-06-06 06:56 G	42953442.58	42953442.79	42953443.01	0.0141	0.0036
Venus	112891-01-18 17:01 G	42953669.02	42953669.21	42953669.43	0.0141	0.0054
Moon	112891-07-29 20:22 G	42953861.20	42953861.35	42953861.53	0.0141	0.0105
Earth	112891-07-29 20:37 G	42953861.20	42953861.36	42953861.55	0.0141	0.0102 *
Venus	112891-09-02 03:34 G	42953895.48	42953895.65	42953895.85	0.0141	0.0071
Venus	112892-04-15 14:22 G	42954121.95	42954122.10	42954122.29	0.0141	0.0089
Earth	112892-08-02 17:44 G	42954230.99	42954231.24	42954231.50	0.0141	0.0009

Moon	112892-08-02 18:13 G	42954230.99	42954231.26	42954231.52	0.0141	0.0013	*
Venus	112892-11-28 01:25 G	42954348.43	42954348.56	42954348.72	0.0141	0.0105	
Venus	112893-07-12 12:27 G	42954574.93	42954575.02	42954575.15	0.0142	0.0123	
Moon	112893-08-07 13:39 G	42954600.94	42954601.07	42954601.24	0.0142	0.0113	
Earth	112893-08-07 15:05 G	42954601.01	42954601.13	42954601.28	0.0142	0.0120	*
Venus	112894-02-23 23:58 G	42954801.47	42954801.50	42954801.55	0.0142	0.0139	
Mars	112904-03-31 05:01 G	42958488.39	42958488.71	42958489.03	0.0143	0.0035	
Venus	112924-07-15 04:03 G	42965899.62	42965899.67	42965899.74	0.0139	0.0133	
Venus	112925-02-26 12:41 G	42966125.93	42966126.03	42966126.16	0.0139	0.0118	
Mercury	112925-09-29 23:58 G	42966341.43	42966341.50	42966341.59	0.0139	0.0124	
Venus	112925-10-10 21:34 G	42966352.27	42966352.40	42966352.56	0.0139	0.0102	
Mercury	112925-12-27 06:41 G	42966429.67	42966429.78	42966429.92	0.0139	0.0099	
Mercury	112926-03-25 13:53 G	42966517.93	42966518.08	42966518.24	0.0138	0.0073	
Venus	112926-05-25 05:58 G	42966578.59	42966578.75	42966578.93	0.0138	0.0086	
Mercury	112926-06-21 20:37 G	42966606.20	42966606.36	42966606.54	0.0138	0.0047	
Mercury	112926-09-18 03:49 G	42966694.48	42966694.66	42966694.84	0.0138	0.0022	
Mercury	112926-12-15 10:46 G	42966782.76	42966782.95	42966783.13	0.0138	0.0005	
Venus	112927-01-06 14:22 G	42966804.91	42966805.10	42966805.29	0.0138	0.0069	
Mercury	112927-03-13 17:44 G	42966871.06	42966871.24	42966871.42	0.0138	0.0030	
Mercury	112927-06-10 00:41 G	42966959.36	42966959.53	42966959.70	0.0138	0.0056	
Venus	112927-08-20 22:17 G	42967031.23	42967031.43	42967031.63	0.0138	0.0053	
Mercury	112927-09-06 07:39 G	42967047.68	42967047.82	42967047.97	0.0138	0.0082	
Mercury	112927-12-03 14:51 G	42967136.01	42967136.12	42967136.24	0.0138	0.0108	
Mercury	112928-02-29 22:03 G	42967224.38	42967224.42	42967224.46	0.0138	0.0134	
Venus	112928-04-03 05:58 G	42967257.55	42967257.75	42967257.97	0.0138	0.0038	
Venus	112928-11-15 13:53 G	42967483.87	42967484.08	42967484.30	0.0138	0.0022	
Venus	112929-06-29 21:20 G	42967710.17	42967710.39	42967710.61	0.0138	0.0006	
Venus	112930-02-11 04:32 G	42967936.47	42967936.69	42967936.91	0.0137	0.0010	
Venus	112930-09-25 11:29 G	42968162.77	42968162.98	42968163.20	0.0137	0.0026	
Venus	112931-05-09 18:27 G	42968389.07	42968389.27	42968389.48	0.0137	0.0041	

Venus	112931-12-22 01:10 G	42968615.36	42968615.55	42968615.75	0.0137	0.0057
Earth	112932-01-31 17:29 G	42968656.14	42968656.23	42968656.36	0.0137	0.0123
Moon	112932-01-31 20:08 G	42968656.27	42968656.34	42968656.45	0.0137	0.0127 *
Venus	112932-08-04 07:39 G	42968841.65	42968841.82	42968842.02	0.0137	0.0072
Moon	112933-02-04 01:53 G	42969025.33	42969025.58	42969025.84	0.0137	0.0019
Earth	112933-02-04 04:46 G	42969025.46	42969025.70	42969025.96	0.0137	0.0025 *
Venus	112933-03-18 14:08 G	42969067.94	42969068.09	42969068.27	0.0137	0.0087
Venus	112933-10-30 20:22 G	42969294.22	42969294.35	42969294.51	0.0137	0.0102
Earth	112934-02-08 15:05 G	42969394.93	42969395.13	42969395.35	0.0136	0.0074
Moon	112934-02-08 17:29 G	42969395.03	42969395.23	42969395.46	0.0136	0.0068 *
Venus	112934-06-14 02:51 G	42969520.51	42969520.62	42969520.74	0.0136	0.0116
Venus	112935-01-26 08:37 G	42969746.82	42969746.86	42969746.94	0.0136	0.0130
Mars	112946-09-02 14:08 G	42973983.93	42973984.09	42973984.28	0.0135	0.0106
Venus	112967-11-24 17:15 G	42981737.18	42981737.22	42981737.30	0.0139	0.0133
Venus	112968-07-08 01:39 G	42981963.47	42981963.57	42981963.70	0.0139	0.0118
Mercury	112968-10-04 05:15 G	42982051.68	42982051.72	42982051.77	0.0139	0.0131
Mercury	112968-12-31 09:05 G	42982139.80	42982139.88	42982139.96	0.0139	0.0111
Venus	112969-02-19 10:17 G	42982189.79	42982189.93	42982190.08	0.0139	0.0103
Mercury	112969-03-29 12:41 G	42982227.93	42982228.03	42982228.14	0.0139	0.0092
Mercury	112969-06-25 16:32 G	42982316.07	42982316.19	42982316.31	0.0140	0.0072
Mercury	112969-09-21 20:08 G	42982404.22	42982404.34	42982404.47	0.0140	0.0052
Venus	112969-10-03 18:56 G	42982416.13	42982416.29	42982416.47	0.0140	0.0087
Mercury	112969-12-18 23:58 G	42982492.37	42982492.50	42982492.63	0.0140	0.0032
Mercury	112970-03-17 03:34 G	42982580.52	42982580.65	42982580.79	0.0140	0.0012
Venus	112970-05-18 04:03 G	42982642.49	42982642.67	42982642.86	0.0140	0.0071
Mercury	112970-06-13 07:10 G	42982668.67	42982668.80	42982668.94	0.0140	0.0009
Mercury	112970-09-09 10:46 G	42982756.82	42982756.95	42982757.09	0.0140	0.0028
Mercury	112970-12-06 14:22 G	42982844.98	42982845.10	42982845.23	0.0140	0.0047
Venus	112970-12-30 13:10 G	42982868.85	42982869.05	42982869.25	0.0140	0.0054
Mercury	112971-03-04 17:58 G	42982933.14	42982933.25	42982933.37	0.0140	0.0067

Mercury	112971-05-31 21:34 G	42983021.30	42983021.40	42983021.51	0.0140	0.0086
Venus	112971-08-13 22:17 G	42983095.23	42983095.43	42983095.65	0.0140	0.0038
Mercury	112971-08-28 01:10 G	42983109.47	42983109.55	42983109.64	0.0140	0.0106
Mercury	112971-11-24 04:46 G	42983197.64	42983197.70	42983197.76	0.0140	0.0125
Venus	112972-03-27 07:53 G	42983321.62	42983321.83	42983322.05	0.0140	0.0021
Venus	112972-11-08 17:44 G	42983548.02	42983548.24	42983548.46	0.0141	0.0004
Venus	112973-06-23 03:34 G	42983774.43	42983774.65	42983774.87	0.0141	0.0013
Venus	112974-02-04 13:25 G	42984000.86	42984001.06	42984001.29	0.0141	0.0031
Venus	112974-09-18 23:44 G	42984227.29	42984227.49	42984227.71	0.0141	0.0048
Venus	112975-05-03 10:32 G	42984453.75	42984453.94	42984454.14	0.0141	0.0065
Earth	112975-07-31 06:13 G	42984542.59	42984542.76	42984542.96	0.0141	0.0098
Moon	112975-07-31 08:51 G	42984542.72	42984542.87	42984543.07	0.0141	0.0106 *
Venus	112975-12-15 21:20 G	42984680.21	42984680.39	42984680.57	0.0141	0.0082
Venus	112976-07-29 08:08 G	42984906.69	42984906.84	42984907.00	0.0141	0.0100
Moon	112976-08-04 00:41 G	42984912.28	42984912.53	42984912.78	0.0141	0.0020
Earth	112976-08-04 03:34 G	42984912.40	42984912.65	42984912.91	0.0141	0.0013 *
Venus	112977-03-12 19:10 G	42985133.19	42985133.30	42985133.43	0.0142	0.0117
Earth	112977-08-09 00:41 G	42985282.44	42985282.53	42985282.68	0.0142	0.0125
Moon	112977-08-09 04:46 G	42985282.57	42985282.70	42985282.85	0.0142	0.0119 *
Venus	112977-10-25 06:13 G	42985359.71	42985359.76	42985359.85	0.0142	0.0134

114TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 114th millennium CE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
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TIME

Venus	113008-03-15 13:10 G	42996458.04	42996458.05	42996458.09	0.0139	0.0138
Venus	113008-10-27 22:32 G	42996684.34	42996684.44	42996684.54	0.0139	0.0122
Venus	113009-06-11 06:56 G	42996910.66	42996910.79	42996910.94	0.0139	0.0107
Mercury	113009-10-21 07:53 G	42997042.73	42997042.83	42997042.93	0.0139	0.0115
Mercury	113010-01-17 14:37 G	42997130.98	42997131.11	42997131.26	0.0139	0.0090
Venus	113010-01-23 15:20 G	42997136.99	42997137.14	42997137.32	0.0138	0.0091
Mercury	113010-04-15 21:34 G	42997219.24	42997219.40	42997219.56	0.0138	0.0064
Mercury	113010-07-13 04:32 G	42997307.51	42997307.69	42997307.87	0.0138	0.0039
Venus	113010-09-06 23:44 G	42997363.31	42997363.49	42997363.68	0.0138	0.0075
Mercury	113010-10-09 11:29 G	42997395.80	42997395.98	42997396.16	0.0138	0.0013
Mercury	113011-01-05 18:27 G	42997484.08	42997484.27	42997484.45	0.0138	0.0013
Mercury	113011-04-04 01:25 G	42997572.38	42997572.56	42997572.74	0.0138	0.0039
Venus	113011-04-21 07:53 G	42997589.64	42997589.83	42997590.03	0.0138	0.0058
Mercury	113011-07-01 08:22 G	42997660.69	42997660.85	42997661.02	0.0138	0.0064
Mercury	113011-09-27 15:20 G	42997749.01	42997749.14	42997749.28	0.0138	0.0090
Venus	113011-12-03 15:49 G	42997815.96	42997816.16	42997816.37	0.0138	0.0042
Mercury	113011-12-24 22:32 G	42997837.34	42997837.44	42997837.54	0.0138	0.0116
Venus	113012-07-16 23:29 G	42998042.27	42998042.48	42998042.70	0.0138	0.0026
Venus	113013-02-28 06:56 G	42998268.58	42998268.79	42998269.01	0.0138	0.0011
Venus	113013-10-12 14:22 G	42998494.89	42998495.10	42998495.32	0.0137	0.0006
Venus	113014-05-26 21:34 G	42998721.19	42998721.40	42998721.62	0.0137	0.0021
Venus	113015-01-08 04:32 G	42998947.48	42998947.69	42998947.90	0.0137	0.0037
Venus	113015-08-22 11:15 G	42999173.78	42999173.97	42999174.18	0.0137	0.0052
Earth	113016-02-02 05:15 G	42999337.61	42999337.72	42999337.87	0.0137	0.0117
Moon	113016-02-02 05:15 G	42999337.64	42999337.72	42999337.85	0.0137	0.0124 *
Venus	113016-04-04 17:44 G	42999400.07	42999400.24	42999400.44	0.0137	0.0068
Venus	113016-11-17 00:27 G	42999626.36	42999626.52	42999626.70	0.0137	0.0083
Earth	113017-02-05 16:17 G	42999706.94	42999707.18	42999707.44	0.0137	0.0019
Moon	113017-02-05 16:46 G	42999706.96	42999707.20	42999707.45	0.0137	0.0011 *

Venus	113017-07-01 06:56 G	42999852.65	42999852.79	42999852.95	0.0137	0.0097
Earth	113018-02-10 02:51 G	43000076.42	43000076.62	43000076.83	0.0136	0.0080
Moon	113018-02-10 03:05 G	43000076.42	43000076.63	43000076.86	0.0136	0.0075 *
Venus	113018-02-12 13:25 G	43000078.94	43000079.06	43000079.18	0.0136	0.0112
Venus	113018-09-26 18:56 G	43000305.23	43000305.29	43000305.39	0.0136	0.0127
Mars	113029-05-29 07:53 G	43004202.68	43004202.83	43004202.98	0.0135	0.0115
Venus	113051-07-26 01:39 G	43012295.57	43012295.57	43012295.61	0.0139	0.0138
Venus	113052-03-08 10:03 G	43012521.83	43012521.92	43012522.03	0.0139	0.0123
Venus	113052-10-20 18:41 G	43012748.14	43012748.28	43012748.41	0.0139	0.0108
Mercury	113052-10-25 12:27 G	43012752.97	43012753.02	43012753.08	0.0139	0.0127
Mercury	113053-01-21 16:17 G	43012841.09	43012841.18	43012841.27	0.0139	0.0106
Mercury	113053-04-19 19:53 G	43012929.23	43012929.33	43012929.45	0.0140	0.0087
Venus	113053-06-04 02:51 G	43012974.48	43012974.62	43012974.80	0.0140	0.0093
Mercury	113053-07-16 23:44 G	43013017.37	43013017.49	43013017.61	0.0140	0.0067
Mercury	113053-10-13 03:34 G	43013105.52	43013105.65	43013105.78	0.0140	0.0047
Mercury	113054-01-09 07:10 G	43013193.67	43013193.80	43013193.93	0.0140	0.0027
Venus	113054-01-16 11:58 G	43013200.82	43013201.00	43013201.18	0.0140	0.0076
Mercury	113054-04-07 10:46 G	43013281.82	43013281.95	43013282.09	0.0140	0.0008
Mercury	113054-07-04 14:37 G	43013369.97	43013370.11	43013370.24	0.0140	0.0013
Venus	113054-08-30 20:51 G	43013427.18	43013427.37	43013427.57	0.0140	0.0060
Mercury	113054-09-30 18:13 G	43013458.12	43013458.26	43013458.39	0.0140	0.0032
Mercury	113054-12-27 21:34 G	43013546.28	43013546.40	43013546.53	0.0140	0.0052
Mercury	113055-03-26 01:25 G	43013634.44	43013634.56	43013634.67	0.0140	0.0072
Venus	113055-04-14 06:13 G	43013653.55	43013653.76	43013653.97	0.0140	0.0043
Mercury	113055-06-22 04:46 G	43013722.61	43013722.70	43013722.81	0.0140	0.0091
Mercury	113055-09-18 08:37 G	43013810.78	43013810.86	43013810.94	0.0140	0.0111
Venus	113055-11-26 15:34 G	43013879.94	43013880.15	43013880.37	0.0140	0.0027
Mercury	113055-12-15 11:58 G	43013898.96	43013899.00	43013899.05	0.0140	0.0130
Venus	113056-07-10 01:10 G	43014106.33	43014106.55	43014106.77	0.0140	0.0010
Venus	113057-02-21 11:01 G	43014332.74	43014332.96	43014333.17	0.0141	0.0008

Venus	113057-10-05 20:51 G	43014559.16	43014559.37	43014559.59	0.0141	0.0025
Venus	113058-05-20 07:10 G	43014785.60	43014785.80	43014786.01	0.0141	0.0042
Venus	113059-01-01 17:44 G	43015012.04	43015012.24	43015012.44	0.0141	0.0059
Moon	113059-08-01 13:10 G	43015223.87	43015224.05	43015224.23	0.0141	0.0100
Earth	113059-08-01 16:32 G	43015224.01	43015224.19	43015224.40	0.0141	0.0092 *
Venus	113059-08-16 04:03 G	43015238.50	43015238.67	43015238.87	0.0141	0.0077
Venus	113060-03-29 14:51 G	43015464.97	43015465.12	43015465.29	0.0141	0.0094
Earth	113060-08-05 13:53 G	43015593.83	43015594.08	43015594.34	0.0141	0.0018
Moon	113060-08-05 17:15 G	43015593.97	43015594.22	43015594.47	0.0141	0.0021 *
Venus	113060-11-11 01:53 G	43015691.46	43015691.58	43015691.73	0.0141	0.0111
Venus	113061-06-25 12:56 G	43015917.97	43015918.04	43015918.15	0.0142	0.0129
Moon	113061-08-10 07:39 G	43015963.74	43015963.82	43015963.94	0.0142	0.0130
Earth	113061-08-10 11:15 G	43015963.89	43015963.97	43015964.09	0.0142	0.0130 *
Mars	113071-08-17 17:15 G	43019622.99	43019623.22	43019623.50	0.0143	0.0092
Venus	113092-06-27 07:10 G	43027242.74	43027242.80	43027242.90	0.0139	0.0128
Venus	113093-02-08 16:03 G	43027469.06	43027469.17	43027469.31	0.0139	0.0112
Mercury	113093-08-14 08:51 G	43027655.82	43027655.87	43027655.93	0.0139	0.0132
Venus	113093-09-23 00:41 G	43027695.39	43027695.53	43027695.70	0.0139	0.0096
Mercury	113093-11-10 15:34 G	43027744.04	43027744.15	43027744.27	0.0139	0.0107
Mercury	113094-02-06 22:17 G	43027832.29	43027832.43	43027832.59	0.0138	0.0082
Mercury	113094-05-06 05:15 G	43027920.56	43027920.72	43027920.89	0.0138	0.0056
Venus	113094-05-07 09:20 G	43027921.72	43027921.89	43027922.07	0.0138	0.0080
Mercury	113094-08-02 12:13 G	43028008.83	43028009.01	43028009.19	0.0138	0.0031
Mercury	113094-10-29 19:10 G	43028097.12	43028097.30	43028097.48	0.0138	0.0005
Venus	113094-12-19 17:29 G	43028148.04	43028148.23	43028148.43	0.0138	0.0063
Mercury	113095-01-26 02:08 G	43028185.41	43028185.59	43028185.77	0.0138	0.0021
Mercury	113095-04-24 08:51 G	43028273.71	43028273.87	43028274.05	0.0138	0.0047
Mercury	113095-07-21 15:49 G	43028362.02	43028362.16	43028362.33	0.0138	0.0073
Venus	113095-08-03 01:25 G	43028374.36	43028374.56	43028374.77	0.0138	0.0047
Mercury	113095-10-17 22:46 G	43028450.34	43028450.45	43028450.60	0.0138	0.0099

Mercury	113096-01-14 05:58 G	43028538.68	43028538.75	43028538.84	0.0138	0.0125
Venus	113096-03-16 09:20 G	43028600.68	43028600.89	43028601.10	0.0138	0.0031
Venus	113096-10-28 17:01 G	43028827.00	43028827.21	43028827.43	0.0138	0.0015
Venus	113097-06-12 00:27 G	43029053.31	43029053.52	43029053.74	0.0138	0.0001
Venus	113098-01-24 07:39 G	43029279.61	43029279.82	43029280.04	0.0137	0.0017
Venus	113098-09-07 14:37 G	43029505.91	43029506.11	43029506.33	0.0137	0.0032
Venus	113099-04-21 21:34 G	43029732.20	43029732.40	43029732.61	0.0137	0.0048
Venus	113099-12-04 04:32 G	43029958.50	43029958.69	43029958.89	0.0137	0.0063
Moon	113100-02-02 14:51 G	43030019.01	43030019.12	43030019.27	0.0137	0.0116
Earth	113100-02-02 17:29 G	43030019.09	43030019.23	43030019.39	0.0137	0.0110 *
Venus	113100-07-18 10:46 G	43030184.79	43030184.95	43030185.15	0.0137	0.0079
Earth	113101-02-07 04:32 G	43030388.45	43030388.69	43030388.95	0.0137	0.0012
Moon	113101-02-07 07:10 G	43030388.54	43030388.80	43030389.06	0.0137	0.0009 *
Venus	113101-03-01 17:15 G	43030411.08	43030411.22	43030411.39	0.0137	0.0094
Venus	113101-10-13 23:58 G	43030637.37	43030637.50	43030637.63	0.0136	0.0108
Moon	113102-02-11 12:13 G	43030757.83	43030758.01	43030758.20	0.0136	0.0088
Earth	113102-02-11 14:51 G	43030757.94	43030758.12	43030758.33	0.0136	0.0087 *
Venus	113102-05-28 05:58 G	43030863.67	43030863.75	43030863.85	0.0136	0.0122
Mars	113114-01-22 15:34 G	43035120.88	43035121.15	43035121.44	0.0135	0.0020
Venus	113135-11-07 17:15 G	43043080.16	43043080.22	43043080.32	0.0139	0.0129
Venus	113136-06-21 01:53 G	43043306.46	43043306.58	43043306.71	0.0139	0.0113
Mercury	113136-11-15 19:25 G	43043454.25	43043454.31	43043454.38	0.0139	0.0123
Venus	113137-02-02 10:03 G	43043532.78	43043532.92	43043533.09	0.0139	0.0098
Mercury	113137-02-11 23:15 G	43043542.38	43043542.47	43043542.57	0.0139	0.0103
Mercury	113137-05-11 03:05 G	43043630.52	43043630.63	43043630.74	0.0140	0.0083
Mercury	113137-08-07 06:41 G	43043718.66	43043718.78	43043718.91	0.0140	0.0063
Venus	113137-09-16 19:10 G	43043759.12	43043759.30	43043759.47	0.0140	0.0082
Mercury	113137-11-03 10:32 G	43043806.81	43043806.94	43043807.07	0.0140	0.0043
Mercury	113138-01-30 14:08 G	43043894.96	43043895.09	43043895.23	0.0140	0.0023
Mercury	113138-04-28 17:44 G	43043983.11	43043983.24	43043983.38	0.0140	0.0005

Venus	113138-05-01 03:49 G	43043985.48	43043985.66	43043985.86	0.0140	0.0066
Mercury	113138-07-25 21:34 G	43044071.26	43044071.40	43044071.53	0.0140	0.0017
Mercury	113138-10-22 01:10 G	43044159.42	43044159.55	43044159.68	0.0140	0.0036
Venus	113138-12-13 13:10 G	43044211.84	43044212.05	43044212.25	0.0140	0.0049
Mercury	113139-01-18 04:46 G	43044247.58	43044247.70	43044247.82	0.0140	0.0056
Mercury	113139-04-16 08:22 G	43044335.74	43044335.85	43044335.96	0.0140	0.0075
Mercury	113139-07-13 11:44 G	43044423.90	43044423.99	43044424.10	0.0140	0.0095
Venus	113139-07-27 22:17 G	43044438.22	43044438.43	43044438.64	0.0140	0.0033
Mercury	113139-10-09 15:34 G	43044512.07	43044512.15	43044512.23	0.0140	0.0114
Mercury	113140-01-05 19:10 G	43044600.26	43044600.30	43044600.34	0.0140	0.0134
Venus	113140-03-10 07:39 G	43044664.61	43044664.82	43044665.04	0.0140	0.0016
Venus	113140-10-22 17:29 G	43044891.01	43044891.23	43044891.45	0.0140	0.0001
Venus	113141-06-06 03:34 G	43045117.43	43045117.65	43045117.87	0.0141	0.0019
Venus	113142-01-18 13:39 G	43045343.86	43045344.07	43045344.28	0.0141	0.0036
Venus	113142-09-01 23:58 G	43045570.30	43045570.50	43045570.70	0.0141	0.0053
Venus	113143-04-16 10:17 G	43045796.75	43045796.93	43045797.13	0.0141	0.0071
Earth	113143-08-03 01:25 G	43045905.38	43045905.56	43045905.78	0.0141	0.0089
Moon	113143-08-03 03:49 G	43045905.48	43045905.66	43045905.86	0.0141	0.0090 *
Venus	113143-11-28 21:05 G	43046023.22	43046023.38	43046023.56	0.0141	0.0088
Venus	113144-07-12 08:08 G	43046249.70	43046249.84	43046249.99	0.0141	0.0106
Moon	113144-08-06 21:34 G	43046275.14	43046275.40	43046275.67	0.0141	0.0019
Earth	113144-08-06 23:01 G	43046275.21	43046275.46	43046275.71	0.0141	0.0023 *
Venus	113145-02-23 18:56 G	43046476.20	43046476.29	43046476.41	0.0142	0.0123
Earth	113145-08-11 20:22 G	43046645.28	43046645.35	43046645.45	0.0142	0.0134
Moon	113145-08-11 21:34 G	43046645.39	43046645.40	43046645.45	0.0142	0.0141 *
Venus	113145-10-08 06:13 G	43046702.74	43046702.76	43046702.81	0.0142	0.0140
Mars	113156-04-13 21:49 G	43050543.18	43050543.41	43050543.69	0.0143	0.0093
Venus	113176-02-26 16:03 G	43057801.13	43057801.17	43057801.25	0.0139	0.0133
Venus	113176-10-10 01:10 G	43058027.45	43058027.55	43058027.68	0.0139	0.0117
Venus	113177-05-24 10:03 G	43058253.78	43058253.92	43058254.08	0.0139	0.0101

Mercury	113177-09-04 16:32 G	43058357.11	43058357.19	43058357.27	0.0139	0.0124
Mercury	113177-12-01 23:15 G	43058445.35	43058445.47	43058445.60	0.0139	0.0099
Venus	113178-01-05 18:27 G	43058480.11	43058480.27	43058480.45	0.0139	0.0085
Mercury	113178-02-28 05:58 G	43058533.60	43058533.75	43058533.91	0.0138	0.0074
Mercury	113178-05-27 12:56 G	43058621.87	43058622.04	43058622.22	0.0138	0.0048
Venus	113178-08-20 02:51 G	43058706.44	43058706.62	43058706.81	0.0138	0.0069
Mercury	113178-08-23 19:53 G	43058710.15	43058710.33	43058710.51	0.0138	0.0022
Mercury	113178-11-20 02:51 G	43058798.44	43058798.62	43058798.80	0.0138	0.0003
Mercury	113179-02-16 09:49 G	43058886.73	43058886.91	43058887.09	0.0138	0.0029
Venus	113179-04-03 11:01 G	43058932.76	43058932.96	43058933.16	0.0138	0.0052
Mercury	113179-05-15 16:32 G	43058975.03	43058975.19	43058975.37	0.0138	0.0055
Mercury	113179-08-11 23:29 G	43059063.34	43059063.48	43059063.64	0.0138	0.0081
Mercury	113179-11-08 06:27 G	43059151.67	43059151.77	43059151.90	0.0138	0.0107
Venus	113179-11-15 19:10 G	43059159.09	43059159.30	43059159.51	0.0138	0.0036
Mercury	113180-02-04 13:39 G	43059240.04	43059240.07	43059240.13	0.0138	0.0133
Venus	113180-06-29 02:51 G	43059385.41	43059385.62	43059385.84	0.0138	0.0020
Venus	113181-02-10 10:32 G	43059611.72	43059611.94	43059612.15	0.0138	0.0005
Venus	113181-09-24 17:44 G	43059838.03	43059838.24	43059838.46	0.0137	0.0012
Venus	113182-05-09 00:56 G	43060064.33	43060064.54	43060064.76	0.0137	0.0028
Venus	113182-12-21 08:08 G	43060290.64	43060290.84	43060291.05	0.0137	0.0044
Venus	113183-08-04 14:51 G	43060516.93	43060517.12	43060517.32	0.0137	0.0059
Earth	113184-02-04 05:58 G	43060700.59	43060700.75	43060700.92	0.0137	0.0103
Moon	113184-02-04 09:34 G	43060700.75	43060700.90	43060701.08	0.0137	0.0102 *
Venus	113184-03-17 21:49 G	43060743.23	43060743.41	43060743.59	0.0137	0.0074
Venus	113184-10-30 04:03 G	43060969.53	43060969.67	43060969.85	0.0137	0.0090
Moon	113185-02-07 13:53 G	43061069.82	43061070.08	43061070.33	0.0137	0.0009
Earth	113185-02-07 17:15 G	43061069.97	43061070.22	43061070.47	0.0137	0.0004 *
Venus	113185-06-13 10:32 G	43061195.82	43061195.94	43061196.09	0.0137	0.0105
Venus	113186-01-25 17:01 G	43061422.11	43061422.21	43061422.32	0.0136	0.0119
Earth	113186-02-12 03:20 G	43061439.47	43061439.64	43061439.84	0.0136	0.0093

Moon	113186-02-12 06:56 G	43061439.64	43061439.79	43061439.97	0.0136	0.0101	*
Venus	113186-09-08 23:15 G	43061648.43	43061648.47	43061648.52	0.0136	0.0133	
Venus	113219-07-08 01:53 G	43073638.54	43073638.58	43073638.66	0.0139	0.0134	
Venus	113220-02-19 10:32 G	43073864.83	43073864.94	43073865.05	0.0139	0.0119	
Mercury	113220-09-08 23:01 G	43074067.44	43074067.46	43074067.48	0.0139	0.0137	
Venus	113220-10-02 18:27 G	43074091.14	43074091.27	43074091.43	0.0139	0.0104	
Mercury	113220-12-06 02:37 G	43074155.55	43074155.61	43074155.69	0.0139	0.0118	
Mercury	113221-03-04 06:27 G	43074243.68	43074243.77	43074243.87	0.0139	0.0098	
Venus	113221-05-17 03:05 G	43074317.47	43074317.63	43074317.81	0.0139	0.0088	
Mercury	113221-05-31 10:17 G	43074331.82	43074331.93	43074332.05	0.0139	0.0078	
Mercury	113221-08-27 13:53 G	43074419.96	43074420.08	43074420.21	0.0140	0.0058	
Mercury	113221-11-23 17:44 G	43074508.11	43074508.24	43074508.37	0.0140	0.0038	
Venus	113221-12-29 11:44 G	43074543.82	43074543.99	43074544.19	0.0140	0.0072	
Mercury	113222-02-19 21:20 G	43074596.26	43074596.39	43074596.53	0.0140	0.0019	
Mercury	113222-05-19 01:10 G	43074684.41	43074684.55	43074684.68	0.0140	0.0003	
Venus	113222-08-12 20:51 G	43074770.18	43074770.37	43074770.58	0.0140	0.0055	
Mercury	113222-08-15 04:46 G	43074772.56	43074772.70	43074772.83	0.0140	0.0022	
Mercury	113222-11-11 08:22 G	43074860.72	43074860.85	43074860.98	0.0140	0.0041	
Mercury	113223-02-07 11:58 G	43074948.88	43074949.00	43074949.13	0.0140	0.0061	
Venus	113223-03-27 06:13 G	43074996.55	43074996.76	43074996.97	0.0140	0.0038	
Mercury	113223-05-06 15:34 G	43075037.04	43075037.15	43075037.27	0.0140	0.0081	
Mercury	113223-08-02 19:10 G	43075125.21	43075125.30	43075125.40	0.0140	0.0100	
Mercury	113223-10-29 22:46 G	43075213.39	43075213.45	43075213.52	0.0140	0.0120	
Venus	113223-11-08 15:34 G	43075222.94	43075223.15	43075223.37	0.0140	0.0021	
Mercury	113224-01-26 02:08 G	43075301.59	43075301.59	43075301.62	0.0140	0.0140	
Venus	113224-06-22 01:10 G	43075449.33	43075449.55	43075449.77	0.0140	0.0005	
Venus	113225-02-03 11:01 G	43075675.74	43075675.96	43075676.18	0.0140	0.0013	
Venus	113225-09-17 20:51 G	43075902.16	43075902.37	43075902.59	0.0141	0.0031	
Venus	113226-05-02 07:25 G	43076128.60	43076128.81	43076129.02	0.0141	0.0048	
Venus	113226-12-14 17:44 G	43076355.05	43076355.24	43076355.44	0.0141	0.0065	

Venus	113227-07-29 04:03 G	43076581.51	43076581.67	43076581.86	0.0141	0.0083
Earth	113227-08-03 11:58 G	43076586.81	43076587.00	43076587.22	0.0141	0.0083
Moon	113227-08-03 12:56 G	43076586.84	43076587.04	43076587.28	0.0141	0.0078 *
Venus	113228-03-11 14:51 G	43076807.98	43076808.12	43076808.29	0.0141	0.0100
Moon	113228-08-07 07:39 G	43076956.58	43076956.82	43076957.07	0.0141	0.0020
Earth	113228-08-07 09:20 G	43076956.64	43076956.89	43076957.15	0.0141	0.0028 *
Venus	113228-10-24 01:39 G	43077034.47	43077034.57	43077034.71	0.0141	0.0118
Venus	113229-06-07 12:56 G	43077260.99	43077261.04	43077261.13	0.0142	0.0135
Earth	113229-08-12 06:27 G	43077326.74	43077326.77	43077326.83	0.0142	0.0139
Venus	113259-10-27 00:27 G	43088359.51	43088359.52	43088359.56	0.0139	0.0139
Venus	113260-06-09 09:34 G	43088585.81	43088585.90	43088586.02	0.0139	0.0122
Venus	113261-01-21 18:27 G	43088812.14	43088812.27	43088812.42	0.0139	0.0106
Venus	113261-09-05 03:20 G	43089038.48	43089038.64	43089038.81	0.0139	0.0090
Mercury	113261-09-24 23:44 G	43089058.40	43089058.49	43089058.59	0.0139	0.0117
Mercury	113261-12-22 06:27 G	43089146.65	43089146.77	43089146.92	0.0139	0.0092
Mercury	113262-03-20 13:25 G	43089234.91	43089235.06	43089235.23	0.0138	0.0066
Venus	113262-04-19 11:44 G	43089264.81	43089264.99	43089265.18	0.0138	0.0074
Mercury	113262-06-16 20:22 G	43089323.18	43089323.35	43089323.53	0.0138	0.0041
Mercury	113262-09-13 03:20 G	43089411.46	43089411.64	43089411.82	0.0138	0.0015
Venus	113262-12-01 20:08 G	43089491.14	43089491.34	43089491.54	0.0138	0.0057
Mercury	113262-12-10 10:17 G	43089499.74	43089499.93	43089500.11	0.0138	0.0011
Mercury	113263-03-08 17:15 G	43089588.04	43089588.22	43089588.40	0.0138	0.0036
Mercury	113263-06-05 00:13 G	43089676.34	43089676.51	43089676.67	0.0138	0.0062
Venus	113263-07-16 04:03 G	43089717.47	43089717.67	43089717.88	0.0138	0.0041
Mercury	113263-09-01 07:10 G	43089764.66	43089764.80	43089764.94	0.0138	0.0088
Mercury	113263-11-28 14:08 G	43089852.99	43089853.09	43089853.20	0.0138	0.0114
Venus	113264-02-27 11:58 G	43089943.79	43089944.00	43089944.22	0.0138	0.0025
Venus	113264-10-10 19:53 G	43090170.11	43090170.33	43090170.55	0.0138	0.0009
Venus	113265-05-25 03:20 G	43090396.43	43090396.64	43090396.86	0.0138	0.0008
Venus	113266-01-06 10:46 G	43090622.74	43090622.95	43090623.16	0.0137	0.0023

Venus	113266-08-20 17:44 G	43090849.04	43090849.24	43090849.46	0.0137	0.0040
Venus	113267-04-04 00:41 G	43091075.34	43091075.53	43091075.74	0.0137	0.0055
Venus	113267-11-16 07:53 G	43091301.65	43091301.83	43091302.02	0.0137	0.0070
Moon	113268-02-04 15:05 G	43091381.95	43091382.13	43091382.34	0.0137	0.0091
Earth	113268-02-04 17:44 G	43091382.07	43091382.24	43091382.42	0.0137	0.0097 *
Venus	113268-06-29 14:22 G	43091527.95	43091528.10	43091528.28	0.0137	0.0086
Earth	113269-02-08 05:01 G	43091751.46	43091751.71	43091751.96	0.0137	0.0002
Moon	113269-02-08 06:41 G	43091751.53	43091751.78	43091752.02	0.0137	0.0006 *
Venus	113269-02-10 20:51 G	43091754.24	43091754.37	43091754.53	0.0137	0.0101
Venus	113269-09-25 03:34 G	43091980.54	43091980.65	43091980.77	0.0136	0.0115
Moon	113270-02-12 12:56 G	43092120.90	43092121.04	43092121.22	0.0136	0.0106
Earth	113270-02-12 15:05 G	43092120.98	43092121.13	43092121.32	0.0136	0.0099 *
Venus	113270-05-09 09:20 G	43092206.85	43092206.89	43092206.98	0.0136	0.0130
Mars	113281-06-11 18:27 G	43096258.03	43096258.27	43096258.54	0.0135	0.0063
Venus	113303-03-08 10:17 G	43104196.93	43104196.93	43104196.95	0.0139	0.0139
Venus	113303-10-20 18:13 G	43104423.18	43104423.26	43104423.37	0.0139	0.0124
Venus	113304-06-03 02:37 G	43104649.48	43104649.61	43104649.75	0.0139	0.0108
Mercury	113304-09-30 06:13 G	43104768.72	43104768.76	43104768.80	0.0139	0.0133
Mercury	113304-12-27 10:03 G	43104856.84	43104856.92	43104857.00	0.0139	0.0113
Venus	113305-01-15 11:01 G	43104875.80	43104875.96	43104876.13	0.0139	0.0093
Mercury	113305-03-25 13:39 G	43104944.97	43104945.07	43104945.18	0.0139	0.0093
Mercury	113305-06-21 17:29 G	43105033.11	43105033.23	43105033.35	0.0139	0.0073
Venus	113305-08-29 19:25 G	43105102.14	43105102.31	43105102.50	0.0139	0.0077
Mercury	113305-09-17 21:05 G	43105121.26	43105121.38	43105121.51	0.0139	0.0053
Mercury	113305-12-15 00:41 G	43105209.40	43105209.53	43105209.67	0.0140	0.0034
Mercury	113306-03-13 04:32 G	43105297.55	43105297.69	43105297.83	0.0140	0.0013
Venus	113306-04-13 04:17 G	43105328.50	43105328.68	43105328.89	0.0140	0.0061
Mercury	113306-06-09 08:08 G	43105385.71	43105385.84	43105385.98	0.0140	0.0008
Mercury	113306-09-05 11:44 G	43105473.86	43105473.99	43105474.13	0.0140	0.0027
Venus	113306-11-25 13:39 G	43105554.87	43105555.07	43105555.28	0.0140	0.0044

Mercury	113306-12-02 15:34 G	43105562.02	43105562.15	43105562.28	0.0140	0.0046
Mercury	113307-02-28 18:56 G	43105650.18	43105650.29	43105650.42	0.0140	0.0066
Mercury	113307-05-27 22:46 G	43105738.34	43105738.45	43105738.56	0.0140	0.0085
Venus	113307-07-09 22:46 G	43105781.24	43105781.45	43105781.67	0.0140	0.0027
Mercury	113307-08-24 02:08 G	43105826.51	43105826.59	43105826.69	0.0140	0.0105
Mercury	113307-11-20 05:58 G	43105914.69	43105914.75	43105914.81	0.0140	0.0124
Venus	113308-02-21 08:22 G	43106007.63	43106007.85	43106008.07	0.0140	0.0010
Venus	113308-10-04 17:58 G	43106234.04	43106234.25	43106234.47	0.0140	0.0008
Jupiter	113309-03-25 09:49 G	43106405.53	43106405.91	43106406.34	0.0140	0.0086
Venus	113309-05-19 04:03 G	43106460.46	43106460.67	43106460.89	0.0141	0.0025
Venus	113309-12-31 14:08 G	43106686.89	43106687.09	43106687.30	0.0141	0.0043
Venus	113310-08-15 00:13 G	43106913.33	43106913.51	43106913.72	0.0141	0.0060
Venus	113311-03-29 10:46 G	43107139.78	43107139.95	43107140.14	0.0141	0.0077
Moon	113311-08-04 18:56 G	43107268.08	43107268.29	43107268.51	0.0141	0.0072
Earth	113311-08-04 21:34 G	43107268.20	43107268.40	43107268.63	0.0141	0.0079 *
Venus	113311-11-10 21:34 G	43107366.24	43107366.40	43107366.57	0.0141	0.0095
Venus	113312-06-24 08:37 G	43107592.73	43107592.86	43107592.99	0.0141	0.0112
Earth	113312-08-08 18:41 G	43107638.03	43107638.28	43107638.53	0.0141	0.0032
Moon	113312-08-08 22:03 G	43107638.17	43107638.42	43107638.68	0.0141	0.0025 *
Venus	113313-02-05 19:25 G	43107819.23	43107819.31	43107819.41	0.0142	0.0129
Mars	113323-08-31 08:08 G	43111677.53	43111677.84	43111678.17	0.0143	0.0037
Venus	113344-02-08 18:13 G	43119144.18	43119144.26	43119144.35	0.0139	0.0127
Venus	113344-09-22 03:05 G	43119370.51	43119370.63	43119370.77	0.0139	0.0111
Venus	113345-05-06 11:58 G	43119596.85	43119597.00	43119597.17	0.0139	0.0095
Mercury	113345-07-20 00:41 G	43119671.49	43119671.53	43119671.57	0.0139	0.0134
Mercury	113345-10-16 07:25 G	43119759.70	43119759.81	43119759.92	0.0139	0.0109
Venus	113345-12-18 20:37 G	43119823.19	43119823.36	43119823.55	0.0139	0.0079
Mercury	113346-01-12 14:08 G	43119847.95	43119848.09	43119848.24	0.0139	0.0084
Mercury	113346-04-10 20:51 G	43119936.21	43119936.37	43119936.54	0.0139	0.0059
Mercury	113346-07-08 03:49 G	43120024.49	43120024.66	43120024.84	0.0138	0.0033

Venus	113346-08-02 05:01 G	43120049.52	43120049.71	43120049.91	0.0138	0.0062
Mercury	113346-10-04 10:46 G	43120112.77	43120112.95	43120113.13	0.0138	0.0007
Mercury	113346-12-31 17:44 G	43120201.06	43120201.24	43120201.42	0.0138	0.0019
Venus	113347-03-16 13:10 G	43120275.85	43120276.05	43120276.26	0.0138	0.0046
Mercury	113347-03-30 00:41 G	43120289.36	43120289.53	43120289.71	0.0138	0.0044
Mercury	113347-06-26 07:39 G	43120377.66	43120377.82	43120377.98	0.0138	0.0070
Mercury	113347-09-22 14:37 G	43120465.99	43120466.11	43120466.25	0.0138	0.0096
Venus	113347-10-28 21:20 G	43120502.19	43120502.39	43120502.61	0.0138	0.0030
Mercury	113347-12-19 21:49 G	43120554.33	43120554.41	43120554.50	0.0138	0.0122
Venus	113348-06-11 05:15 G	43120728.51	43120728.72	43120728.94	0.0138	0.0014
Venus	113349-01-23 12:56 G	43120954.83	43120955.04	43120955.26	0.0138	0.0004
Venus	113349-09-06 20:22 G	43121181.14	43121181.35	43121181.57	0.0137	0.0019
Venus	113350-04-21 03:34 G	43121407.45	43121407.65	43121407.87	0.0137	0.0035
Venus	113350-12-03 10:46 G	43121633.76	43121633.95	43121634.17	0.0137	0.0051
Venus	113351-07-17 17:58 G	43121860.07	43121860.25	43121860.44	0.0137	0.0066
Earth	113352-02-06 05:44 G	43122063.55	43122063.74	43122063.93	0.0137	0.0091
Moon	113352-02-06 05:44 G	43122063.57	43122063.74	43122063.95	0.0137	0.0085 *
Venus	113352-02-29 00:27 G	43122086.37	43122086.52	43122086.71	0.0137	0.0082
Venus	113352-10-12 07:10 G	43122312.66	43122312.80	43122312.97	0.0137	0.0097
Earth	113353-02-09 16:46 G	43122432.95	43122433.20	43122433.45	0.0137	0.0007
Moon	113353-02-09 17:01 G	43122432.95	43122433.21	43122433.47	0.0137	0.0002 *
Venus	113353-05-26 13:39 G	43122538.96	43122539.07	43122539.21	0.0137	0.0112
Venus	113354-01-07 20:08 G	43122765.27	43122765.34	43122765.43	0.0136	0.0126
Earth	113354-02-14 03:05 G	43122802.48	43122802.63	43122802.80	0.0136	0.0105
Moon	113354-02-14 03:05 G	43122802.50	43122802.63	43122802.79	0.0136	0.0109 *
Mars	113366-02-05 05:44 G	43127176.51	43127176.74	43127177.00	0.0135	0.0073
Venus	113387-06-20 03:49 G	43134981.59	43134981.66	43134981.75	0.0139	0.0128
Venus	113388-02-01 11:44 G	43135207.88	43135207.99	43135208.13	0.0139	0.0113
Venus	113388-09-14 20:08 G	43135434.19	43135434.34	43135434.50	0.0139	0.0097
Mercury	113388-10-20 13:39 G	43135470.02	43135470.07	43135470.13	0.0139	0.0126

Mercury	113389-01-16 17:29 G	43135558.14	43135558.23	43135558.32	0.0139	0.0106
Mercury	113389-04-14 21:05 G	43135646.28	43135646.38	43135646.50	0.0139	0.0087
Venus	113389-04-29 04:46 G	43135660.53	43135660.70	43135660.88	0.0139	0.0081
Mercury	113389-07-12 00:56 G	43135734.42	43135734.54	43135734.67	0.0139	0.0066
Mercury	113389-10-08 04:46 G	43135822.57	43135822.70	43135822.83	0.0139	0.0046
Venus	113389-12-11 13:39 G	43135886.88	43135887.07	43135887.26	0.0140	0.0065
Mercury	113390-01-04 08:22 G	43135910.72	43135910.85	43135910.99	0.0140	0.0027
Mercury	113390-04-02 12:13 G	43135998.87	43135999.01	43135999.14	0.0140	0.0008
Mercury	113390-06-29 15:49 G	43136087.02	43136087.16	43136087.30	0.0140	0.0013
Venus	113390-07-25 22:17 G	43136113.24	43136113.43	43136113.65	0.0140	0.0049
Mercury	113390-09-25 19:25 G	43136175.18	43136175.31	43136175.44	0.0140	0.0033
Mercury	113390-12-22 23:01 G	43136263.34	43136263.46	43136263.59	0.0140	0.0052
Venus	113391-03-09 07:39 G	43136339.61	43136339.82	43136340.04	0.0140	0.0032
Mercury	113391-03-21 02:37 G	43136351.50	43136351.61	43136351.73	0.0140	0.0072
Mercury	113391-06-17 06:13 G	43136439.66	43136439.76	43136439.87	0.0140	0.0092
Mercury	113391-09-13 09:49 G	43136527.84	43136527.91	43136528.00	0.0140	0.0111
Venus	113391-10-21 17:01 G	43136566.00	43136566.21	43136566.43	0.0140	0.0015
Mercury	113391-12-10 13:39 G	43136616.02	43136616.07	43136616.11	0.0140	0.0130
Venus	113392-06-04 02:51 G	43136792.40	43136792.62	43136792.84	0.0140	0.0003
Venus	113393-01-16 12:27 G	43137018.81	43137019.02	43137019.24	0.0140	0.0020
Venus	113393-08-30 22:17 G	43137245.23	43137245.43	43137245.65	0.0141	0.0038
Venus	113394-04-14 08:37 G	43137471.66	43137471.86	43137472.07	0.0141	0.0055
Venus	113394-11-26 19:10 G	43137698.11	43137698.30	43137698.49	0.0141	0.0072
Venus	113395-07-11 05:15 G	43137924.57	43137924.72	43137924.90	0.0141	0.0090
Earth	113395-08-05 09:34 G	43137949.68	43137949.90	43137950.12	0.0141	0.0072
Moon	113395-08-05 13:10 G	43137949.83	43137950.05	43137950.28	0.0141	0.0067 *
Venus	113396-02-22 16:03 G	43138151.04	43138151.17	43138151.32	0.0141	0.0107
Moon	113396-08-09 02:37 G	43138319.37	43138319.61	43138319.87	0.0141	0.0035
Earth	113396-08-09 06:13 G	43138319.53	43138319.76	43138320.02	0.0141	0.0039 *
Venus	113396-10-06 02:51 G	43138377.53	43138377.62	43138377.74	0.0141	0.0125

Venus	113397-05-20 14:08 G	43138604.09	43138604.09	43138604.11	0.0142	0.0141
Venus	113427-10-10 02:51 G	43149702.56	43149702.62	43149702.69	0.0139	0.0132
Venus	113428-05-23 11:58 G	43149928.89	43149929.00	43149929.13	0.0139	0.0116
Venus	113429-01-04 20:51 G	43150155.23	43150155.37	43150155.53	0.0139	0.0100
Mercury	113429-08-10 07:53 G	43150372.77	43150372.83	43150372.92	0.0139	0.0127
Venus	113429-08-19 05:29 G	43150381.57	43150381.73	43150381.91	0.0139	0.0084
Mercury	113429-11-06 14:37 G	43150461.00	43150461.11	43150461.25	0.0139	0.0102
Mercury	113430-02-02 21:34 G	43150549.26	43150549.40	43150549.56	0.0139	0.0076
Venus	113430-04-02 13:53 G	43150607.90	43150608.08	43150608.28	0.0139	0.0068
Mercury	113430-05-02 04:32 G	43150637.52	43150637.69	43150637.86	0.0138	0.0050
Mercury	113430-07-29 11:29 G	43150725.80	43150725.98	43150726.16	0.0138	0.0025
Mercury	113430-10-25 18:27 G	43150814.08	43150814.27	43150814.45	0.0138	0.0002
Venus	113430-11-14 22:32 G	43150834.25	43150834.44	43150834.65	0.0138	0.0051
Mercury	113431-01-22 01:25 G	43150902.38	43150902.56	43150902.74	0.0138	0.0027
Mercury	113431-04-20 08:08 G	43150990.68	43150990.84	43150991.02	0.0138	0.0053
Venus	113431-06-29 06:56 G	43151060.58	43151060.79	43151061.00	0.0138	0.0034
Mercury	113431-07-17 15:05 G	43151078.99	43151079.13	43151079.29	0.0138	0.0079
Mercury	113431-10-13 22:17 G	43151167.31	43151167.43	43151167.55	0.0138	0.0104
Mercury	113432-01-10 05:29 G	43151255.67	43151255.73	43151255.79	0.0138	0.0130
Venus	113432-02-10 14:51 G	43151286.90	43151287.12	43151287.33	0.0138	0.0018
Venus	113432-09-23 22:32 G	43151513.23	43151513.44	43151513.66	0.0138	0.0003
Venus	113433-05-08 06:13 G	43151739.55	43151739.76	43151739.98	0.0138	0.0015
Venus	113433-12-20 13:39 G	43151965.87	43151966.07	43151966.29	0.0137	0.0031
Venus	113434-08-03 21:05 G	43152192.18	43152192.38	43152192.58	0.0137	0.0046
Venus	113435-03-18 04:03 G	43152418.48	43152418.67	43152418.87	0.0137	0.0062
Venus	113435-10-30 10:46 G	43152644.79	43152644.95	43152645.14	0.0137	0.0078
Earth	113436-02-07 17:29 G	43152745.04	43152745.23	43152745.43	0.0137	0.0085
Moon	113436-02-07 18:56 G	43152745.10	43152745.29	43152745.52	0.0137	0.0081 *
Venus	113436-06-12 17:44 G	43152871.09	43152871.24	43152871.40	0.0137	0.0093
Venus	113437-01-25 00:13 G	43153097.39	43153097.51	43153097.65	0.0137	0.0108

Moon	113437-02-11 02:37 G	43153114.37	43153114.61	43153114.86	0.0137	0.0012
Earth	113437-02-11 04:32 G	43153114.45	43153114.69	43153114.95	0.0137	0.0014 *
Venus	113437-09-08 06:27 G	43153323.69	43153323.77	43153323.88	0.0137	0.0122
Earth	113438-02-15 14:51 G	43153483.98	43153484.12	43153484.27	0.0136	0.0111
Moon	113438-02-15 16:32 G	43153484.05	43153484.19	43153484.35	0.0136	0.0110 *
Venus	113438-04-22 12:56 G	43153550.04	43153550.04	43153550.04	0.0136	0.0136
Venus	113471-02-18 12:27 G	43165539.97	43165540.02	43165540.08	0.0139	0.0133
Venus	113471-10-02 20:22 G	43165766.25	43165766.35	43165766.47	0.0139	0.0118
Venus	113472-05-16 04:46 G	43165992.56	43165992.70	43165992.85	0.0139	0.0102
Mercury	113472-11-10 20:51 G	43166171.31	43166171.37	43166171.45	0.0139	0.0121
Venus	113472-12-28 13:10 G	43166218.88	43166219.05	43166219.22	0.0139	0.0087
Mercury	113473-02-07 00:41 G	43166259.44	43166259.53	43166259.63	0.0139	0.0101
Mercury	113473-05-06 04:17 G	43166347.58	43166347.68	43166347.80	0.0139	0.0082
Mercury	113473-08-02 08:08 G	43166435.72	43166435.84	43166435.97	0.0139	0.0061
Venus	113473-08-11 21:34 G	43166445.23	43166445.40	43166445.60	0.0139	0.0071
Mercury	113473-10-29 11:58 G	43166523.87	43166524.00	43166524.14	0.0140	0.0041
Mercury	113474-01-25 15:49 G	43166612.02	43166612.16	43166612.29	0.0140	0.0021
Venus	113474-03-26 06:41 G	43166671.58	43166671.78	43166671.98	0.0140	0.0054
Mercury	113474-04-23 19:25 G	43166700.17	43166700.31	43166700.45	0.0140	0.0002
Mercury	113474-07-20 23:01 G	43166788.33	43166788.46	43166788.60	0.0140	0.0019
Mercury	113474-10-17 02:51 G	43166876.49	43166876.62	43166876.75	0.0140	0.0038
Venus	113474-11-07 15:49 G	43166897.95	43166898.16	43166898.37	0.0140	0.0037
Mercury	113475-01-13 06:27 G	43166964.65	43166964.77	43166964.89	0.0140	0.0058
Mercury	113475-04-11 10:03 G	43167052.81	43167052.92	43167053.03	0.0140	0.0077
Venus	113475-06-22 00:56 G	43167124.33	43167124.54	43167124.76	0.0140	0.0020
Mercury	113475-07-08 13:39 G	43167140.97	43167141.07	43167141.17	0.0140	0.0097
Mercury	113475-10-04 17:15 G	43167229.15	43167229.22	43167229.30	0.0140	0.0116
Mercury	113475-12-31 20:37 G	43167317.34	43167317.36	43167317.40	0.0140	0.0136
Venus	113476-02-03 10:32 G	43167350.72	43167350.94	43167351.16	0.0140	0.0003
Venus	113476-09-16 20:08 G	43167577.12	43167577.34	43167577.56	0.0140	0.0015

Venus	113477-05-01 05:58 G	43167803.54	43167803.75	43167803.97	0.0141	0.0032
Venus	113477-12-13 16:03 G	43168029.97	43168030.17	43168030.38	0.0141	0.0050
Venus	113478-07-28 02:08 G	43168256.41	43168256.59	43168256.79	0.0141	0.0067
Venus	113479-03-11 12:41 G	43168482.86	43168483.03	43168483.21	0.0141	0.0084
Moon	113479-08-06 16:32 G	43168630.97	43168631.19	43168631.43	0.0141	0.0066
Earth	113479-08-06 19:53 G	43168631.11	43168631.33	43168631.56	0.0141	0.0067 *
Venus	113479-10-23 22:46 G	43168709.32	43168709.45	43168709.62	0.0141	0.0103
Venus	113480-06-06 09:49 G	43168935.81	43168935.91	43168936.04	0.0141	0.0119
Earth	113480-08-10 16:46 G	43169000.95	43169001.20	43169001.44	0.0141	0.0043
Moon	113480-08-10 19:53 G	43169001.09	43169001.33	43169001.57	0.0141	0.0045 *
Venus	113481-01-18 21:05 G	43169162.33	43169162.38	43169162.44	0.0142	0.0136
Venus	113511-06-10 11:58 G	43180260.99	43180261.00	43180261.05	0.0139	0.0138
Venus	113512-01-22 21:20 G	43180487.29	43180487.39	43180487.50	0.0139	0.0121
Venus	113512-09-05 06:13 G	43180713.63	43180713.76	43180713.92	0.0139	0.0105
Venus	113513-04-19 15:05 G	43180939.98	43180940.13	43180940.31	0.0139	0.0089
Mercury	113513-08-31 16:03 G	43181074.08	43181074.17	43181074.27	0.0139	0.0117
Mercury	113513-11-27 22:46 G	43181162.32	43181162.45	43181162.59	0.0139	0.0092
Venus	113513-12-02 00:13 G	43181166.32	43181166.51	43181166.69	0.0139	0.0072
Mercury	113514-02-24 05:29 G	43181250.58	43181250.73	43181250.90	0.0139	0.0067
Mercury	113514-05-23 12:27 G	43181338.85	43181339.02	43181339.20	0.0138	0.0041
Venus	113514-07-16 08:37 G	43181392.66	43181392.86	43181393.06	0.0138	0.0056
Mercury	113514-08-19 19:25 G	43181427.13	43181427.31	43181427.49	0.0138	0.0016
Mercury	113514-11-16 02:22 G	43181515.42	43181515.60	43181515.78	0.0138	0.0010
Mercury	113515-02-12 09:05 G	43181603.71	43181603.88	43181604.07	0.0138	0.0037
Venus	113515-02-27 16:46 G	43181619.00	43181619.20	43181619.41	0.0138	0.0039
Mercury	113515-05-11 16:03 G	43181692.02	43181692.17	43181692.35	0.0138	0.0062
Mercury	113515-08-07 23:01 G	43181780.33	43181780.46	43181780.61	0.0138	0.0088
Venus	113515-10-12 00:56 G	43181845.33	43181845.54	43181845.76	0.0138	0.0023
Mercury	113515-11-04 05:58 G	43181868.66	43181868.75	43181868.87	0.0138	0.0114
Venus	113516-05-25 08:51 G	43182071.66	43182071.87	43182072.09	0.0138	0.0007

Venus	113517-01-06 16:46 G	43182297.98	43182298.20	43182298.41	0.0138	0.0010
Jupiter	113517-02-11 13:39 G	43182333.78	43182334.07	43182334.37	0.0138	0.0113
Venus	113517-08-21 00:13 G	43182524.30	43182524.51	43182524.72	0.0138	0.0026
Venus	113518-04-04 07:25 G	43182750.61	43182750.81	43182751.02	0.0137	0.0043
Venus	113518-11-16 14:37 G	43182976.93	43182977.11	43182977.32	0.0137	0.0059
Venus	113519-06-30 21:34 G	43183203.23	43183203.40	43183203.60	0.0137	0.0074
Moon	113520-02-09 03:20 G	43183426.44	43183426.64	43183426.85	0.0137	0.0078
Earth	113520-02-09 06:27 G	43183426.57	43183426.77	43183426.98	0.0137	0.0078 *
Venus	113520-02-12 04:32 G	43183429.53	43183429.69	43183429.86	0.0137	0.0089
Venus	113520-09-25 11:01 G	43183655.83	43183655.96	43183656.11	0.0137	0.0104
Earth	113521-02-12 17:15 G	43183795.97	43183796.22	43183796.47	0.0137	0.0020
Moon	113521-02-12 20:37 G	43183796.11	43183796.36	43183796.62	0.0137	0.0023 *
Venus	113521-05-09 17:15 G	43183882.13	43183882.22	43183882.34	0.0137	0.0119
Venus	113521-12-21 23:29 G	43184108.46	43184108.48	43184108.55	0.0136	0.0134
Moon	113522-02-17 00:27 G	43184165.39	43184165.52	43184165.67	0.0136	0.0113
Earth	113522-02-17 03:20 G	43184165.53	43184165.64	43184165.78	0.0136	0.0118 *
Mars	113533-06-27 09:20 G	43188313.61	43188313.89	43188314.18	0.0135	0.0012
Venus	113554-10-19 22:17 G	43196098.42	43196098.43	43196098.45	0.0139	0.0138
Venus	113555-06-03 05:58 G	43196324.67	43196324.75	43196324.86	0.0139	0.0123
Venus	113556-01-15 14:08 G	43196550.96	43196551.09	43196551.24	0.0139	0.0107
Venus	113556-08-28 22:32 G	43196777.28	43196777.44	43196777.61	0.0139	0.0092
Mercury	113556-09-05 00:41 G	43196784.50	43196784.53	43196784.57	0.0139	0.0134
Mercury	113556-12-02 04:32 G	43196872.62	43196872.69	43196872.77	0.0139	0.0114
Mercury	113557-02-28 08:22 G	43196960.75	43196960.85	43196960.95	0.0139	0.0094
Venus	113557-04-12 07:10 G	43197003.62	43197003.80	43197003.99	0.0139	0.0075
Mercury	113557-05-27 11:58 G	43197048.89	43197049.00	43197049.13	0.0139	0.0075
Mercury	113557-08-23 15:49 G	43197137.04	43197137.16	43197137.29	0.0139	0.0055
Mercury	113557-11-19 19:39 G	43197225.19	43197225.32	43197225.45	0.0140	0.0034
Venus	113557-11-24 16:03 G	43197229.97	43197230.17	43197230.37	0.0140	0.0059
Mercury	113558-02-15 23:15 G	43197313.34	43197313.47	43197313.61	0.0140	0.0015

Mercury	113558-05-15 03:05 G	43197401.49	43197401.63	43197401.77	0.0140	0.0005
Venus	113558-07-09 00:56 G	43197456.33	43197456.54	43197456.75	0.0140	0.0042
Mercury	113558-08-11 06:41 G	43197489.65	43197489.78	43197489.92	0.0140	0.0025
Mercury	113558-11-07 10:17 G	43197577.81	43197577.93	43197578.06	0.0140	0.0045
Mercury	113559-02-03 14:08 G	43197665.97	43197666.09	43197666.21	0.0140	0.0064
Venus	113559-02-20 10:03 G	43197682.71	43197682.92	43197683.13	0.0140	0.0025
Mercury	113559-05-02 17:29 G	43197754.13	43197754.23	43197754.35	0.0140	0.0084
Mercury	113559-07-29 21:20 G	43197842.30	43197842.39	43197842.48	0.0140	0.0103
Venus	113559-10-04 19:25 G	43197909.09	43197909.31	43197909.53	0.0140	0.0008
Mercury	113559-10-26 00:41 G	43197930.48	43197930.53	43197930.60	0.0140	0.0123
Venus	113560-05-18 05:01 G	43198135.49	43198135.71	43198135.93	0.0140	0.0009
Venus	113560-12-30 14:51 G	43198361.90	43198362.12	43198362.33	0.0141	0.0027
Venus	113561-08-14 00:27 G	43198588.32	43198588.52	43198588.73	0.0141	0.0044
Venus	113562-03-28 10:32 G	43198814.75	43198814.94	43198815.14	0.0141	0.0062
Venus	113562-11-09 20:51 G	43199041.19	43199041.37	43199041.56	0.0141	0.0079
Venus	113563-06-24 07:25 G	43199267.66	43199267.81	43199267.97	0.0141	0.0097
Earth	113563-08-08 07:39 G	43199312.60	43199312.82	43199313.06	0.0141	0.0061
Moon	113563-08-08 09:34 G	43199312.69	43199312.90	43199313.13	0.0141	0.0064 *
Venus	113564-02-05 17:44 G	43199494.13	43199494.24	43199494.38	0.0141	0.0114
Moon	113564-08-12 02:37 G	43199682.37	43199682.61	43199682.86	0.0142	0.0055
Earth	113564-08-12 04:32 G	43199682.46	43199682.69	43199682.94	0.0142	0.0050 *
Venus	113564-09-19 04:32 G	43199720.63	43199720.69	43199720.79	0.0142	0.0131
Mars	113575-09-14 09:20 G	43203732.57	43203732.89	43203733.21	0.0143	0.0026
Venus	113595-09-22 06:56 G	43211045.72	43211045.79	43211045.89	0.0139	0.0127
Venus	113596-05-05 16:17 G	43211272.06	43211272.18	43211272.32	0.0139	0.0110
Venus	113596-12-18 01:10 G	43211498.40	43211498.55	43211498.72	0.0139	0.0094
Mercury	113597-06-24 17:15 G	43211687.18	43211687.22	43211687.28	0.0139	0.0133
Venus	113597-08-01 10:03 G	43211724.75	43211724.92	43211725.11	0.0139	0.0077
Mercury	113597-09-20 23:58 G	43211775.40	43211775.50	43211775.63	0.0139	0.0108
Mercury	113597-12-18 06:56 G	43211863.65	43211863.79	43211863.94	0.0139	0.0082

Venus	113598-03-15 18:41 G	43211951.09	43211951.28	43211951.48	0.0139	0.0061
Mercury	113598-03-16 13:53 G	43211951.92	43211952.08	43211952.25	0.0139	0.0057
Mercury	113598-06-12 20:37 G	43212040.19	43212040.36	43212040.54	0.0138	0.0032
Mercury	113598-09-09 03:34 G	43212128.47	43212128.65	43212128.84	0.0138	0.0006
Venus	113598-10-28 03:20 G	43212177.44	43212177.64	43212177.85	0.0138	0.0044
Mercury	113598-12-06 10:32 G	43212216.76	43212216.94	43212217.12	0.0138	0.0020
Mercury	113599-03-04 17:15 G	43212305.06	43212305.22	43212305.40	0.0138	0.0047
Mercury	113599-06-01 00:13 G	43212393.37	43212393.51	43212393.68	0.0138	0.0072
Venus	113599-06-11 11:29 G	43212403.77	43212403.98	43212404.20	0.0138	0.0027
Mercury	113599-08-28 07:10 G	43212481.69	43212481.80	43212481.94	0.0138	0.0098
Mercury	113599-11-24 14:08 G	43212570.03	43212570.09	43212570.19	0.0138	0.0124
Venus	113600-01-23 19:39 G	43212630.10	43212630.32	43212630.53	0.0138	0.0011
Venus	113600-09-06 03:20 G	43212856.42	43212856.64	43212856.86	0.0138	0.0006
Venus	113601-04-20 11:01 G	43213082.75	43213082.96	43213083.18	0.0138	0.0022
Venus	113601-12-02 18:27 G	43213309.07	43213309.27	43213309.49	0.0137	0.0038
Venus	113602-07-17 01:39 G	43213535.38	43213535.57	43213535.78	0.0137	0.0054
Venus	113603-02-28 08:51 G	43213761.69	43213761.87	43213762.06	0.0137	0.0070
Venus	113603-10-12 15:34 G	43213987.99	43213988.15	43213988.33	0.0137	0.0085
Earth	113604-02-09 19:39 G	43214108.11	43214108.32	43214108.54	0.0137	0.0070
Moon	113604-02-09 23:01 G	43214108.26	43214108.46	43214108.68	0.0137	0.0075 *
Venus	113604-05-25 22:17 G	43214214.29	43214214.43	43214214.58	0.0137	0.0100
Venus	113605-01-07 04:46 G	43214440.59	43214440.70	43214440.82	0.0137	0.0115
Moon	113605-02-13 02:37 G	43214477.38	43214477.61	43214477.86	0.0137	0.0034
Earth	113605-02-13 06:27 G	43214477.53	43214477.77	43214478.02	0.0137	0.0028 *
Venus	113605-08-21 10:46 G	43214666.91	43214666.95	43214667.04	0.0137	0.0130
Earth	113606-02-17 16:03 G	43214847.10	43214847.17	43214847.29	0.0136	0.0126
Moon	113606-02-17 19:53 G	43214847.22	43214847.33	43214847.46	0.0136	0.0118 *
Mars	113618-02-19 19:39 G	43219232.23	43219232.32	43219232.43	0.0135	0.0126
Venus	113639-01-31 14:51 G	43226883.05	43226883.12	43226883.21	0.0139	0.0128
Venus	113639-09-14 22:32 G	43227109.34	43227109.44	43227109.58	0.0139	0.0113

Venus	113640-04-28 06:56 G	43227335.65	43227335.79	43227335.96	0.0139	0.0097
Mercury	113640-09-25 07:53 G	43227485.79	43227485.83	43227485.89	0.0139	0.0129
Venus	113640-12-10 15:20 G	43227561.98	43227562.14	43227562.33	0.0139	0.0081
Mercury	113640-12-22 11:44 G	43227573.91	43227573.99	43227574.08	0.0139	0.0109
Mercury	113641-03-20 15:34 G	43227662.05	43227662.15	43227662.26	0.0139	0.0089
Mercury	113641-06-16 19:25 G	43227750.19	43227750.31	43227750.43	0.0139	0.0069
Venus	113641-07-24 23:58 G	43227788.32	43227788.50	43227788.70	0.0139	0.0065
Mercury	113641-09-12 23:01 G	43227838.34	43227838.46	43227838.60	0.0139	0.0050
Mercury	113641-12-10 02:51 G	43227926.49	43227926.62	43227926.76	0.0140	0.0029
Mercury	113642-03-08 06:41 G	43228014.64	43228014.78	43228014.92	0.0140	0.0009
Venus	113642-03-08 08:51 G	43228014.67	43228014.87	43228015.08	0.0140	0.0048 *
Mercury	113642-06-04 10:17 G	43228102.80	43228102.93	43228103.07	0.0140	0.0011
Mercury	113642-08-31 13:53 G	43228190.95	43228191.08	43228191.22	0.0140	0.0031
Venus	113642-10-20 17:58 G	43228241.04	43228241.25	43228241.46	0.0140	0.0031
Mercury	113642-11-27 17:44 G	43228279.11	43228279.24	43228279.37	0.0140	0.0050
Mercury	113643-02-23 21:20 G	43228367.27	43228367.39	43228367.51	0.0140	0.0069
Mercury	113643-05-23 00:56 G	43228455.44	43228455.54	43228455.65	0.0140	0.0089
Venus	113643-06-04 03:05 G	43228467.42	43228467.63	43228467.85	0.0140	0.0014
Mercury	113643-08-19 04:32 G	43228543.61	43228543.69	43228543.78	0.0140	0.0108
Mercury	113643-11-15 07:53 G	43228631.79	43228631.83	43228631.90	0.0140	0.0129
Venus	113644-01-16 12:41 G	43228693.81	43228694.03	43228694.24	0.0140	0.0005
Venus	113644-08-29 22:03 G	43228920.21	43228920.42	43228920.64	0.0140	0.0021
Venus	113645-04-13 07:39 G	43229146.62	43229146.82	43229147.04	0.0141	0.0039
Venus	113645-11-25 17:44 G	43229373.04	43229373.24	43229373.45	0.0141	0.0056
Venus	113646-07-10 04:03 G	43229599.48	43229599.67	43229599.85	0.0141	0.0073
Venus	113647-02-21 13:53 G	43229825.93	43229826.08	43229826.26	0.0141	0.0091
Moon	113647-08-08 16:46 G	43229993.97	43229994.20	43229994.44	0.0141	0.0061
Earth	113647-08-08 17:44 G	43229994.00	43229994.24	43229994.47	0.0141	0.0056 *
Venus	113647-10-06 00:27 G	43230052.39	43230052.52	43230052.67	0.0141	0.0108
Venus	113648-05-19 11:15 G	43230278.89	43230278.97	43230279.08	0.0141	0.0126

Earth	113648-08-12 14:08 G	43230363.86	43230364.09	43230364.34	0.0142	0.0055
Moon	113648-08-12 14:37 G	43230363.90	43230364.11	43230364.34	0.0142	0.0062 *
Venus	113679-05-22 16:46 G	43241604.14	43241604.20	43241604.28	0.0139	0.0132
Venus	113680-01-04 01:53 G	43241830.47	43241830.58	43241830.72	0.0139	0.0116
Venus	113680-08-17 11:01 G	43242056.82	43242056.96	43242057.13	0.0139	0.0099
Venus	113681-03-31 20:08 G	43242283.17	43242283.34	43242283.52	0.0139	0.0082
Mercury	113681-07-15 01:25 G	43242388.49	43242388.56	43242388.66	0.0139	0.0123
Mercury	113681-10-11 08:22 G	43242476.73	43242476.85	43242476.98	0.0139	0.0098
Venus	113681-11-13 05:01 G	43242509.53	43242509.71	43242509.91	0.0139	0.0066
Mercury	113682-01-07 15:05 G	43242564.99	43242565.13	43242565.29	0.0139	0.0073
Mercury	113682-04-05 22:03 G	43242653.25	43242653.42	43242653.59	0.0139	0.0047
Venus	113682-06-27 13:39 G	43242735.87	43242736.07	43242736.28	0.0138	0.0049
Mercury	113682-07-03 05:01 G	43242741.53	43242741.71	43242741.89	0.0138	0.0021
Mercury	113682-09-29 11:58 G	43242829.81	43242830.00	43242830.18	0.0138	0.0005
Mercury	113682-12-26 18:41 G	43242918.11	43242918.28	43242918.46	0.0138	0.0030
Venus	113683-02-08 22:03 G	43242962.21	43242962.42	43242962.63	0.0138	0.0032
Mercury	113683-03-25 01:39 G	43243006.41	43243006.57	43243006.74	0.0138	0.0056
Mercury	113683-06-21 08:37 G	43243094.72	43243094.86	43243095.02	0.0138	0.0082
Mercury	113683-09-17 15:34 G	43243183.05	43243183.15	43243183.27	0.0138	0.0108
Venus	113683-09-23 06:13 G	43243188.55	43243188.76	43243188.98	0.0138	0.0015
Mercury	113683-12-14 22:32 G	43243271.41	43243271.44	43243271.50	0.0138	0.0134
Venus	113684-05-06 14:22 G	43243414.88	43243415.10	43243415.31	0.0138	0.0003
Venus	113684-12-18 22:03 G	43243641.21	43243641.42	43243641.64	0.0138	0.0018
Venus	113685-08-02 05:29 G	43243867.53	43243867.73	43243867.95	0.0138	0.0034
Venus	113686-03-16 12:56 G	43244093.84	43244094.04	43244094.24	0.0137	0.0050
Venus	113686-10-28 20:08 G	43244320.15	43244320.34	43244320.53	0.0137	0.0066
Venus	113687-06-12 02:51 G	43244546.46	43244546.62	43244546.80	0.0137	0.0081
Venus	113688-01-24 09:49 G	43244772.76	43244772.91	43244773.06	0.0137	0.0096
Moon	113688-02-10 05:58 G	43244789.54	43244789.75	43244789.98	0.0137	0.0069
Earth	113688-02-10 09:20 G	43244789.68	43244789.89	43244790.13	0.0137	0.0062 *

Venus	113688-09-06 16:17 G	43244999.06	43244999.18	43244999.31	0.0137	0.0111
Earth	113689-02-13 20:22 G	43245159.10	43245159.35	43245159.59	0.0137	0.0036
Moon	113689-02-13 23:44 G	43245159.26	43245159.49	43245159.73	0.0137	0.0044 *
Venus	113689-04-20 22:32 G	43245225.37	43245225.44	43245225.53	0.0137	0.0126
Moon	113690-02-18 02:37 G	43245528.54	43245528.61	43245528.73	0.0136	0.0127
Earth	113690-02-18 05:58 G	43245528.72	43245528.75	43245528.82	0.0136	0.0134 *
Mars	113700-11-15 14:22 G	43249450.90	43249451.10	43249451.32	0.0135	0.0092
Venus	113722-10-02 00:41 G	43257441.48	43257441.53	43257441.60	0.0138	0.0133
Venus	113723-05-16 08:22 G	43257667.76	43257667.85	43257667.98	0.0139	0.0118
Venus	113723-12-28 16:32 G	43257894.06	43257894.19	43257894.35	0.0139	0.0102
Venus	113724-08-11 00:56 G	43258120.38	43258120.54	43258120.72	0.0139	0.0086
Mercury	113724-10-16 15:34 G	43258187.09	43258187.15	43258187.22	0.0139	0.0122
Mercury	113725-01-12 19:25 G	43258275.22	43258275.31	43258275.41	0.0139	0.0102
Venus	113725-03-25 09:34 G	43258346.71	43258346.90	43258347.09	0.0139	0.0069
Mercury	113725-04-10 23:15 G	43258363.36	43258363.47	43258363.58	0.0139	0.0082
Mercury	113725-07-08 03:05 G	43258451.51	43258451.63	43258451.75	0.0139	0.0062
Mercury	113725-10-04 06:41 G	43258539.65	43258539.78	43258539.92	0.0139	0.0043
Venus	113725-11-06 18:13 G	43258573.06	43258573.26	43258573.46	0.0139	0.0053
Mercury	113725-12-31 10:32 G	43258627.80	43258627.94	43258628.08	0.0140	0.0023
Mercury	113726-03-29 14:08 G	43258715.96	43258716.09	43258716.23	0.0140	0.0005
Venus	113726-06-21 03:05 G	43258799.42	43258799.63	43258799.84	0.0140	0.0036
Mercury	113726-06-25 17:58 G	43258804.11	43258804.25	43258804.38	0.0140	0.0017
Mercury	113726-09-21 21:34 G	43258892.27	43258892.40	43258892.53	0.0140	0.0037
Mercury	113726-12-19 01:10 G	43258980.43	43258980.55	43258980.68	0.0140	0.0056
Venus	113727-02-02 11:58 G	43259025.79	43259026.00	43259026.22	0.0140	0.0019
Mercury	113727-03-17 04:46 G	43259068.59	43259068.70	43259068.82	0.0140	0.0076
Mercury	113727-06-13 08:22 G	43259156.76	43259156.85	43259156.96	0.0140	0.0095
Mercury	113727-09-09 11:58 G	43259244.93	43259245.00	43259245.08	0.0140	0.0115
Venus	113727-09-16 21:20 G	43259252.17	43259252.39	43259252.61	0.0140	0.0002
Mercury	113727-12-06 15:34 G	43259333.12	43259333.15	43259333.19	0.0140	0.0134

Venus	113728-04-30 06:41 G	43259478.57	43259478.78	43259479.00	0.0140	0.0016
Venus	113728-12-12 16:17 G	43259704.97	43259705.18	43259705.40	0.0140	0.0033
Venus	113729-07-27 01:53 G	43259931.39	43259931.58	43259931.80	0.0141	0.0051
Venus	113730-03-10 11:58 G	43260157.81	43260158.00	43260158.20	0.0141	0.0068
Venus	113730-10-22 22:17 G	43260384.26	43260384.43	43260384.60	0.0141	0.0085
Venus	113731-06-06 08:22 G	43260610.72	43260610.85	43260611.02	0.0141	0.0103
Moon	113731-08-10 04:17 G	43260675.47	43260675.68	43260675.92	0.0141	0.0058
Earth	113731-08-10 05:01 G	43260675.48	43260675.71	43260675.96	0.0141	0.0049 *
Venus	113732-01-18 18:56 G	43260837.19	43260837.29	43260837.42	0.0141	0.0121
Earth	113732-08-14 01:53 G	43261045.35	43261045.58	43261045.81	0.0142	0.0061
Moon	113732-08-14 02:37 G	43261045.39	43261045.61	43261045.86	0.0142	0.0068 *
Venus	113732-09-01 05:44 G	43261063.71	43261063.74	43261063.81	0.0142	0.0137
Mars	113743-01-31 00:41 G	43264867.31	43264867.53	43264867.78	0.0143	0.0100
Venus	113763-01-21 01:25 G	43272162.55	43272162.56	43272162.62	0.0140	0.0138
Venus	113763-09-04 11:15 G	43272388.87	43272388.97	43272389.09	0.0139	0.0121
Venus	113764-04-17 20:22 G	43272615.22	43272615.35	43272615.51	0.0139	0.0105
Venus	113764-11-30 05:44 G	43272841.58	43272841.74	43272841.92	0.0139	0.0087
Mercury	113765-05-09 02:51 G	43273001.62	43273001.62	43273001.63	0.0139	0.0139
Venus	113765-07-14 14:37 G	43273067.93	43273068.11	43273068.31	0.0139	0.0071
Mercury	113765-08-05 09:20 G	43273089.81	43273089.89	43273090.01	0.0139	0.0114
Mercury	113765-11-01 16:17 G	43273178.05	43273178.18	43273178.33	0.0139	0.0089
Mercury	113766-01-28 23:15 G	43273266.31	43273266.47	43273266.63	0.0139	0.0063
Venus	113766-02-25 23:29 G	43273294.28	43273294.48	43273294.69	0.0139	0.0054
Mercury	113766-04-27 05:58 G	43273354.58	43273354.75	43273354.93	0.0139	0.0038
Mercury	113766-07-24 12:56 G	43273442.86	43273443.04	43273443.23	0.0138	0.0012
Venus	113766-10-10 08:08 G	43273520.63	43273520.84	43273521.05	0.0138	0.0037
Mercury	113766-10-20 19:53 G	43273531.15	43273531.33	43273531.51	0.0138	0.0014
Mercury	113767-01-17 02:51 G	43273619.44	43273619.62	43273619.80	0.0138	0.0040
Mercury	113767-04-15 09:49 G	43273707.75	43273707.91	43273708.07	0.0138	0.0065
Venus	113767-05-24 16:32 G	43273746.97	43273747.19	43273747.40	0.0138	0.0020

Mercury	113767-07-12 16:46 G	43273796.06	43273796.20	43273796.34	0.0138	0.0091
Mercury	113767-10-08 23:44 G	43273884.40	43273884.49	43273884.59	0.0138	0.0117
Venus	113768-01-06 00:41 G	43273973.31	43273973.53	43273973.74	0.0138	0.0004
Venus	113768-08-19 08:22 G	43274199.64	43274199.85	43274200.07	0.0138	0.0013
Venus	113769-04-02 16:03 G	43274425.96	43274426.17	43274426.39	0.0138	0.0030
Venus	113769-11-14 23:29 G	43274652.29	43274652.48	43274652.69	0.0138	0.0046
Venus	113770-06-29 06:56 G	43274878.60	43274878.79	43274878.99	0.0137	0.0061
Venus	113771-02-10 13:39 G	43275104.91	43275105.07	43275105.26	0.0137	0.0078
Venus	113771-09-24 20:51 G	43275331.21	43275331.37	43275331.53	0.0137	0.0092
Earth	113772-02-11 22:46 G	43275471.22	43275471.45	43275471.68	0.0137	0.0054
Moon	113772-02-12 00:41 G	43275471.32	43275471.53	43275471.76	0.0137	0.0062 *
Venus	113772-05-08 03:05 G	43275557.52	43275557.63	43275557.78	0.0137	0.0108
Venus	113772-12-20 09:49 G	43275783.83	43275783.91	43275784.02	0.0137	0.0123
Moon	113773-02-15 06:41 G	43275840.55	43275840.78	43275841.03	0.0137	0.0051
Earth	113773-02-15 09:20 G	43275840.66	43275840.89	43275841.14	0.0137	0.0044 *
Mars	113785-07-11 02:51 G	43280369.36	43280369.62	43280369.90	0.0135	0.0049
Venus	113806-06-02 10:03 G	43287999.91	43287999.92	43287999.95	0.0138	0.0138
Venus	113807-01-14 17:44 G	43288226.15	43288226.24	43288226.35	0.0138	0.0122
Venus	113807-08-29 01:39 G	43288452.44	43288452.57	43288452.72	0.0139	0.0107
Venus	113808-04-11 09:49 G	43288678.76	43288678.91	43288679.08	0.0139	0.0091
Mercury	113808-08-10 19:25 G	43288800.29	43288800.31	43288800.33	0.0139	0.0136
Mercury	113808-11-06 23:01 G	43288888.39	43288888.46	43288888.54	0.0139	0.0117
Venus	113808-11-23 17:58 G	43288905.08	43288905.25	43288905.45	0.0139	0.0075
Mercury	113809-02-03 02:51 G	43288976.52	43288976.62	43288976.72	0.0139	0.0097
Mercury	113809-05-02 06:41 G	43289064.67	43289064.78	43289064.90	0.0139	0.0077
Venus	113809-07-08 02:37 G	43289131.42	43289131.61	43289131.81	0.0139	0.0058
Mercury	113809-07-29 10:17 G	43289152.81	43289152.93	43289153.06	0.0139	0.0057
Mercury	113809-10-25 14:08 G	43289240.96	43289241.09	43289241.22	0.0139	0.0037
Mercury	113810-01-21 17:44 G	43289329.11	43289329.24	43289329.38	0.0139	0.0018
Venus	113810-02-19 11:15 G	43289357.77	43289357.97	43289358.18	0.0139	0.0042

Mercury	113810-04-19 21:34 G	43289417.26	43289417.40	43289417.54	0.0140	0.0003
Mercury	113810-07-17 01:10 G	43289505.42	43289505.55	43289505.69	0.0140	0.0022
Venus	113810-10-03 20:08 G	43289584.13	43289584.34	43289584.56	0.0140	0.0025
Mercury	113810-10-13 04:46 G	43289593.57	43289593.70	43289593.84	0.0140	0.0042
Mercury	113811-01-09 08:22 G	43289681.73	43289681.85	43289681.98	0.0140	0.0062
Mercury	113811-04-07 12:13 G	43289769.90	43289770.01	43289770.12	0.0140	0.0081
Venus	113811-05-18 05:15 G	43289810.51	43289810.72	43289810.94	0.0140	0.0008
Mercury	113811-07-04 15:49 G	43289858.07	43289858.16	43289858.25	0.0140	0.0100
Mercury	113811-09-30 19:10 G	43289946.24	43289946.30	43289946.38	0.0140	0.0120
Mercury	113811-12-27 22:46 G	43290034.45	43290034.45	43290034.47	0.0140	0.0139
Venus	113811-12-30 14:37 G	43290036.89	43290037.11	43290037.33	0.0140	0.0010
Venus	113812-08-12 23:58 G	43290263.29	43290263.50	43290263.71	0.0140	0.0027
Venus	113813-03-27 09:34 G	43290489.69	43290489.90	43290490.11	0.0140	0.0045
Venus	113813-11-08 19:10 G	43290716.11	43290716.30	43290716.50	0.0141	0.0062
Venus	113814-06-23 05:15 G	43290942.55	43290942.72	43290942.91	0.0141	0.0080
Venus	113815-02-04 15:34 G	43291169.00	43291169.15	43291169.31	0.0141	0.0097
Earth	113815-08-11 15:05 G	43291356.89	43291357.13	43291357.37	0.0141	0.0044
Moon	113815-08-11 17:29 G	43291356.99	43291357.23	43291357.48	0.0141	0.0051 *
Venus	113815-09-19 01:53 G	43291395.46	43291395.58	43291395.72	0.0141	0.0115
Venus	113816-05-02 12:41 G	43291621.96	43291622.03	43291622.11	0.0141	0.0132
Moon	113816-08-15 08:37 G	43291726.65	43291726.86	43291727.09	0.0141	0.0069
Earth	113816-08-15 11:44 G	43291726.77	43291726.99	43291727.22	0.0141	0.0066 *
Mars	113827-09-28 02:37 G	43295787.37	43295787.61	43295787.89	0.0143	0.0085
Venus	113847-05-05 20:08 G	43302947.25	43302947.34	43302947.44	0.0140	0.0126
Venus	113847-12-18 05:29 G	43303173.61	43303173.73	43303173.87	0.0139	0.0109
Venus	113848-07-31 14:51 G	43303399.96	43303400.12	43303400.29	0.0139	0.0092
Venus	113849-03-14 23:44 G	43303626.32	43303626.49	43303626.69	0.0139	0.0076
Mercury	113849-05-30 10:32 G	43303702.89	43303702.94	43303703.01	0.0139	0.0130
Mercury	113849-08-26 17:15 G	43303791.11	43303791.22	43303791.35	0.0139	0.0105
Venus	113849-10-27 08:51 G	43303852.68	43303852.87	43303853.08	0.0139	0.0059

Mercury	113849-11-23 00:13 G	43303879.37	43303879.51	43303879.66	0.0139	0.0080
Mercury	113850-02-19 06:56 G	43303967.63	43303967.79	43303967.96	0.0139	0.0054
Mercury	113850-05-18 13:53 G	43304055.90	43304056.08	43304056.26	0.0139	0.0029
Venus	113850-06-10 17:44 G	43304079.03	43304079.24	43304079.45	0.0139	0.0042
Mercury	113850-08-14 20:51 G	43304144.19	43304144.37	43304144.55	0.0139	0.0003
Mercury	113850-11-11 03:49 G	43304232.48	43304232.66	43304232.84	0.0138	0.0023
Venus	113851-01-23 02:08 G	43304305.38	43304305.59	43304305.81	0.0138	0.0025
Mercury	113851-02-07 10:32 G	43304320.77	43304320.94	43304321.12	0.0138	0.0049
Mercury	113851-05-06 17:29 G	43304409.08	43304409.23	43304409.39	0.0138	0.0075
Mercury	113851-08-03 00:27 G	43304497.40	43304497.52	43304497.65	0.0138	0.0101
Venus	113851-09-06 10:17 G	43304531.71	43304531.93	43304532.15	0.0138	0.0008
Mercury	113851-10-30 07:25 G	43304585.75	43304585.81	43304585.89	0.0138	0.0127
Venus	113852-04-19 18:13 G	43304758.05	43304758.26	43304758.48	0.0138	0.0009
Venus	113852-12-02 02:08 G	43304984.38	43304984.59	43304984.81	0.0138	0.0025
Venus	113853-07-16 09:49 G	43305210.71	43305210.91	43305211.12	0.0138	0.0041
Venus	113854-02-27 17:01 G	43305437.02	43305437.21	43305437.42	0.0138	0.0057
Venus	113854-10-12 00:13 G	43305663.34	43305663.51	43305663.70	0.0137	0.0073
Venus	113855-05-26 07:25 G	43305889.65	43305889.81	43305889.98	0.0137	0.0089
Venus	113856-01-07 13:53 G	43306115.96	43306116.08	43306116.24	0.0137	0.0105
Moon	113856-02-13 11:29 G	43306152.74	43306152.98	43306153.22	0.0137	0.0052
Earth	113856-02-13 11:15 G	43306152.74	43306152.97	43306153.22	0.0137	0.0048 *
Venus	113856-08-20 20:37 G	43306342.27	43306342.36	43306342.48	0.0137	0.0119
Earth	113857-02-16 22:03 G	43306522.20	43306522.42	43306522.67	0.0137	0.0051
Moon	113857-02-16 22:17 G	43306522.21	43306522.43	43306522.66	0.0137	0.0053 *
Venus	113857-04-04 03:05 G	43306568.60	43306568.63	43306568.69	0.0137	0.0134
Venus	113890-09-14 04:17 G	43318784.60	43318784.68	43318784.77	0.0138	0.0127
Venus	113891-04-28 11:58 G	43319010.89	43319011.00	43319011.14	0.0139	0.0112
Venus	113891-12-10 19:53 G	43319237.19	43319237.33	43319237.50	0.0139	0.0096
Venus	113892-07-24 04:17 G	43319463.50	43319463.68	43319463.86	0.0139	0.0079
Mercury	113892-08-31 02:51 G	43319501.58	43319501.62	43319501.68	0.0139	0.0129

Mercury	113892-11-27 06:41 G	43319589.70	43319589.78	43319589.87	0.0139	0.0109
Mercury	113893-02-23 10:32 G	43319677.84	43319677.94	43319678.05	0.0139	0.0089
Venus	113893-03-07 12:13 G	43319689.83	43319690.01	43319690.22	0.0139	0.0064
Mercury	113893-05-22 14:22 G	43319765.98	43319766.10	43319766.22	0.0139	0.0069
Mercury	113893-08-18 18:13 G	43319854.13	43319854.26	43319854.39	0.0139	0.0050
Venus	113893-10-19 20:51 G	43319916.17	43319916.37	43319916.58	0.0139	0.0047
Mercury	113893-11-14 21:49 G	43319942.28	43319942.41	43319942.55	0.0139	0.0030
Mercury	113894-02-11 01:39 G	43320030.43	43320030.57	43320030.70	0.0139	0.0011
Mercury	113894-05-10 05:15 G	43320118.58	43320118.72	43320118.86	0.0140	0.0010
Venus	113894-06-03 05:44 G	43320142.53	43320142.74	43320142.96	0.0140	0.0029
Mercury	113894-08-06 08:51 G	43320206.74	43320206.87	43320207.01	0.0140	0.0029
Mercury	113894-11-02 12:27 G	43320294.90	43320295.02	43320295.15	0.0140	0.0049
Venus	113895-01-15 14:37 G	43320368.90	43320369.11	43320369.33	0.0140	0.0013
Mercury	113895-01-29 16:03 G	43320383.06	43320383.17	43320383.30	0.0140	0.0069
Mercury	113895-04-27 19:39 G	43320471.22	43320471.32	43320471.43	0.0140	0.0088
Mercury	113895-07-24 23:29 G	43320559.39	43320559.48	43320559.56	0.0140	0.0107
Venus	113895-08-29 23:44 G	43320595.27	43320595.49	43320595.71	0.0140	0.0005
Mercury	113895-10-21 02:51 G	43320647.57	43320647.62	43320647.68	0.0140	0.0127
Venus	113896-04-12 09:05 G	43320821.66	43320821.88	43320822.10	0.0140	0.0022
Venus	113896-11-24 18:27 G	43321048.07	43321048.27	43321048.49	0.0140	0.0040
Venus	113897-07-09 04:03 G	43321274.48	43321274.67	43321274.88	0.0141	0.0058
Venus	113898-02-20 13:53 G	43321500.91	43321501.08	43321501.27	0.0141	0.0075
Venus	113898-10-05 00:13 G	43321727.35	43321727.51	43321727.68	0.0141	0.0092
Venus	113899-05-19 10:17 G	43321953.81	43321953.93	43321954.08	0.0141	0.0110
Moon	113899-08-11 23:58 G	43322038.26	43322038.50	43322038.75	0.0141	0.0040
Earth	113899-08-12 03:34 G	43322038.41	43322038.65	43322038.90	0.0141	0.0037 *
Venus	113899-12-31 20:51 G	43322180.30	43322180.37	43322180.48	0.0141	0.0128
Earth	113900-08-17 00:13 G	43322408.30	43322408.51	43322408.74	0.0141	0.0073
Moon	113900-08-17 03:34 G	43322408.44	43322408.65	43322408.89	0.0141	0.0070 *
Venus	113931-01-04 05:01 G	43333505.64	43333505.71	43333505.78	0.0140	0.0131

Venus	113931-08-18 14:22 G	43333731.99	43333732.10	43333732.23	0.0140	0.0115
Venus	113932-03-31 23:58 G	43333958.35	43333958.50	43333958.66	0.0139	0.0098
Venus	113932-11-13 09:05 G	43334184.72	43334184.88	43334185.07	0.0139	0.0081
Mercury	113933-06-20 18:41 G	43334404.19	43334404.28	43334404.36	0.0139	0.0121
Venus	113933-06-27 18:13 G	43334411.07	43334411.26	43334411.46	0.0139	0.0064
Mercury	113933-09-17 01:10 G	43334492.43	43334492.55	43334492.69	0.0139	0.0096
Mercury	113933-12-14 07:53 G	43334580.68	43334580.83	43334580.99	0.0139	0.0071
Venus	113934-02-09 03:05 G	43334637.43	43334637.63	43334637.84	0.0139	0.0047
Mercury	113934-03-12 14:51 G	43334668.95	43334669.12	43334669.29	0.0139	0.0045
Mercury	113934-06-08 21:49 G	43334757.23	43334757.41	43334757.59	0.0139	0.0020
Mercury	113934-09-05 04:32 G	43334845.51	43334845.69	43334845.88	0.0139	0.0006
Venus	113934-09-23 11:44 G	43334863.78	43334863.99	43334864.20	0.0139	0.0030
Mercury	113934-12-02 11:29 G	43334933.80	43334933.98	43334934.16	0.0139	0.0032
Mercury	113935-02-28 18:13 G	43335022.10	43335022.26	43335022.44	0.0138	0.0058
Venus	113935-05-07 19:53 G	43335090.12	43335090.33	43335090.55	0.0138	0.0014
Mercury	113935-05-28 01:10 G	43335110.41	43335110.55	43335110.71	0.0138	0.0084
Mercury	113935-08-24 08:08 G	43335198.74	43335198.84	43335198.97	0.0138	0.0110
Mercury	113935-11-20 15:20 G	43335287.11	43335287.14	43335287.18	0.0138	0.0135
Venus	113935-12-20 04:17 G	43335316.46	43335316.68	43335316.90	0.0138	0.0004
Venus	113936-08-02 12:13 G	43335542.79	43335543.01	43335543.22	0.0138	0.0021
Venus	113937-03-16 19:39 G	43335769.12	43335769.32	43335769.54	0.0138	0.0037
Venus	113937-10-29 03:20 G	43335995.44	43335995.64	43335995.84	0.0138	0.0053
Venus	113938-06-12 10:46 G	43336221.76	43336221.95	43336222.14	0.0137	0.0069
Venus	113939-01-24 17:44 G	43336448.08	43336448.24	43336448.41	0.0137	0.0085
Venus	113939-09-08 00:27 G	43336674.39	43336674.52	43336674.68	0.0137	0.0100
Moon	113940-02-14 21:34 G	43336834.17	43336834.40	43336834.64	0.0137	0.0041
Earth	113940-02-14 23:58 G	43336834.26	43336834.50	43336834.74	0.0137	0.0041 *
Venus	113940-04-21 07:25 G	43336900.70	43336900.81	43336900.93	0.0137	0.0115
Venus	113940-12-03 14:08 G	43337127.04	43337127.09	43337127.16	0.0137	0.0130
Earth	113941-02-18 10:46 G	43337203.73	43337203.95	43337204.18	0.0137	0.0057

Moon	113941-02-18 13:10 G	43337203.83	43337204.05	43337204.30	0.0137	0.0053 *
Mars	113952-11-30 10:17 G	43341506.66	43341506.93	43341507.23	0.0135	0.0032
Venus	113974-05-15 14:22 G	43349343.05	43349343.10	43349343.18	0.0138	0.0131
Venus	113974-12-27 21:49 G	43349569.31	43349569.41	43349569.54	0.0138	0.0116
Venus	113975-08-11 05:29 G	43349795.60	43349795.73	43349795.90	0.0139	0.0101
Venus	113976-03-24 13:53 G	43350021.91	43350022.08	43350022.25	0.0139	0.0084
Mercury	113976-09-21 10:46 G	43350202.88	43350202.95	43350203.01	0.0139	0.0122
Venus	113976-11-05 21:49 G	43350248.23	43350248.41	43350248.61	0.0139	0.0068
Mercury	113976-12-18 14:08 G	43350291.01	43350291.09	43350291.20	0.0139	0.0103
Mercury	113977-03-16 17:58 G	43350379.15	43350379.25	43350379.37	0.0139	0.0083
Mercury	113977-06-12 21:49 G	43350467.29	43350467.41	43350467.54	0.0139	0.0063
Venus	113977-06-20 06:13 G	43350474.57	43350474.76	43350474.97	0.0139	0.0051
Mercury	113977-09-09 01:39 G	43350555.44	43350555.57	43350555.70	0.0139	0.0043
Mercury	113977-12-06 05:29 G	43350643.59	43350643.73	43350643.86	0.0139	0.0024
Venus	113978-02-01 14:51 G	43350700.91	43350701.12	43350701.33	0.0139	0.0034
Mercury	113978-03-04 09:05 G	43350731.74	43350731.88	43350732.02	0.0139	0.0004
Mercury	113978-05-31 12:41 G	43350819.90	43350820.03	43350820.17	0.0139	0.0016
Mercury	113978-08-27 16:17 G	43350908.05	43350908.18	43350908.32	0.0140	0.0036
Venus	113978-09-15 23:29 G	43350927.27	43350927.48	43350927.70	0.0140	0.0018
Mercury	113978-11-23 20:08 G	43350996.21	43350996.34	43350996.46	0.0140	0.0055
Mercury	113979-02-19 23:29 G	43351084.38	43351084.48	43351084.61	0.0140	0.0075
Venus	113979-04-30 08:37 G	43351153.64	43351153.86	43351154.08	0.0140	0.0000
Mercury	113979-05-19 03:20 G	43351172.54	43351172.64	43351172.74	0.0140	0.0094
Mercury	113979-08-15 06:56 G	43351260.71	43351260.79	43351260.87	0.0140	0.0113
Mercury	113979-11-11 10:17 G	43351348.90	43351348.93	43351348.98	0.0140	0.0133
Venus	113979-12-12 17:44 G	43351380.02	43351380.24	43351380.46	0.0140	0.0017
Venus	113980-07-26 03:05 G	43351606.42	43351606.63	43351606.84	0.0140	0.0035
Venus	113981-03-09 12:13 G	43351832.82	43351833.01	43351833.23	0.0140	0.0053
Venus	113981-10-21 22:03 G	43352059.24	43352059.42	43352059.62	0.0141	0.0070
Venus	113982-06-05 08:22 G	43352285.68	43352285.85	43352286.02	0.0141	0.0087

Moon	113982-08-08 15:34 G	43352350.13	43352350.15	43352350.18	0.0141	0.0140
Earth	113982-08-08 18:41 G	43352350.27	43352350.28	43352350.32	0.0141	0.0140
Venus	113983-01-17 18:13 G	43352512.13	43352512.26	43352512.42	0.0141	0.0105
Earth	113983-08-13 14:37 G	43352719.87	43352720.11	43352720.37	0.0141	0.0032
Moon	113983-08-13 17:29 G	43352719.99	43352720.23	43352720.48	0.0141	0.0028 *
Venus	113983-09-01 04:46 G	43352738.60	43352738.70	43352738.82	0.0141	0.0122
Venus	113984-04-14 15:20 G	43352965.12	43352965.14	43352965.18	0.0141	0.0139
Moon	113984-08-17 09:05 G	43353089.67	43353089.88	43353090.12	0.0141	0.0071
Earth	113984-08-17 11:44 G	43353089.78	43353089.99	43353090.21	0.0141	0.0079 *
Mars	113995-02-13 20:51 G	43356922.08	43356922.37	43356922.70	0.0143	0.0044

115TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 115th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	114014-09-03 13:10 G	43364064.03	43364064.05	43364064.11	0.0140	0.0137		
Venus	114015-04-17 23:15 G	43364290.37	43364290.47	43364290.59	0.0140	0.0120		
Venus	114015-11-30 09:05 G	43364516.73	43364516.88	43364517.03	0.0140	0.0103		
Venus	114016-07-13 17:58 G	43364743.10	43364743.25	43364743.44	0.0139	0.0087		
Venus	114017-02-25 03:20 G	43364969.46	43364969.64	43364969.84	0.0139	0.0069		
Mercury	114017-04-13 19:25 G	43365017.30	43365017.31	43365017.34	0.0139	0.0138		
Mercury	114017-07-11 02:08 G	43365105.50	43365105.59	43365105.71	0.0139	0.0113		
Mercury	114017-10-07 08:51 G	43365193.74	43365193.87	43365194.02	0.0139	0.0088		

Venus	114017-10-09 12:13 G	43365195.82	43365196.01	43365196.22	0.0139	0.0052
Mercury	114018-01-03 15:49 G	43365282.00	43365282.16	43365282.33	0.0139	0.0062
Mercury	114018-04-01 22:32 G	43365370.27	43365370.44	43365370.62	0.0139	0.0037
Venus	114018-05-23 21:05 G	43365422.17	43365422.38	43365422.60	0.0139	0.0035
Mercury	114018-06-29 05:29 G	43365458.55	43365458.73	43365458.91	0.0139	0.0011
Mercury	114018-09-25 12:27 G	43365546.84	43365547.02	43365547.20	0.0139	0.0015
Mercury	114018-12-22 19:10 G	43365635.13	43365635.30	43365635.48	0.0139	0.0040
Venus	114019-01-05 05:44 G	43365648.52	43365648.74	43365648.95	0.0139	0.0018
Mercury	114019-03-21 01:53 G	43365723.43	43365723.58	43365723.76	0.0139	0.0067
Mercury	114019-06-17 08:51 G	43365811.75	43365811.87	43365812.02	0.0138	0.0093
Venus	114019-08-19 13:53 G	43365874.86	43365875.08	43365875.30	0.0138	0.0001
Mercury	114019-09-13 15:49 G	43365900.08	43365900.16	43365900.27	0.0138	0.0119
Venus	114020-04-01 21:49 G	43366101.20	43366101.41	43366101.63	0.0138	0.0016
Venus	114020-11-14 05:44 G	43366327.54	43366327.74	43366327.96	0.0138	0.0032
Venus	114021-06-28 13:25 G	43366553.86	43366554.06	43366554.27	0.0138	0.0049
Venus	114022-02-09 20:51 G	43366780.18	43366780.37	43366780.56	0.0138	0.0065
Venus	114022-09-24 04:03 G	43367006.50	43367006.67	43367006.85	0.0137	0.0081
Earth	114023-02-11 00:41 G	43367146.49	43367146.53	43367146.60	0.0137	0.0134
Venus	114023-05-08 11:01 G	43367232.82	43367232.96	43367233.13	0.0137	0.0096
Venus	114023-12-20 18:13 G	43367459.14	43367459.26	43367459.39	0.0137	0.0111
Earth	114024-02-15 12:27 G	43367515.78	43367516.02	43367516.27	0.0137	0.0034
Moon	114024-02-15 16:03 G	43367515.92	43367516.17	43367516.42	0.0137	0.0028 *
Venus	114024-08-03 01:10 G	43367685.47	43367685.55	43367685.63	0.0137	0.0126
Moon	114025-02-18 19:53 G	43367885.12	43367885.33	43367885.58	0.0137	0.0057
Earth	114025-02-18 23:44 G	43367885.27	43367885.49	43367885.71	0.0137	0.0064 *
Mars	114037-07-25 23:29 G	43372425.32	43372425.48	43372425.67	0.0135	0.0108
Venus	114058-01-13 01:25 G	43379901.52	43379901.56	43379901.59	0.0138	0.0136
Venus	114058-08-27 08:37 G	43380127.76	43380127.86	43380127.97	0.0138	0.0121
Venus	114059-04-10 16:17 G	43380354.05	43380354.18	43380354.33	0.0139	0.0105
Venus	114059-11-23 00:13 G	43380580.35	43380580.51	43380580.68	0.0139	0.0089

Venus	114060-07-06 08:08 G	43380806.66	43380806.84	43380807.03	0.0139	0.0073
Mercury	114060-07-15 14:22 G	43380816.08	43380816.10	43380816.14	0.0139	0.0135
Mercury	114060-10-11 18:13 G	43380904.19	43380904.26	43380904.35	0.0139	0.0115
Mercury	114061-01-07 22:03 G	43380992.33	43380992.42	43380992.53	0.0139	0.0095
Venus	114061-02-17 16:17 G	43381032.99	43381033.18	43381033.39	0.0139	0.0056
Mercury	114061-04-06 01:53 G	43381080.47	43381080.58	43381080.70	0.0139	0.0075
Mercury	114061-07-03 05:44 G	43381168.61	43381168.74	43381168.87	0.0139	0.0055
Mercury	114061-09-29 09:20 G	43381256.76	43381256.89	43381257.03	0.0139	0.0036
Venus	114061-10-02 00:41 G	43381259.33	43381259.53	43381259.74	0.0139	0.0040
Mercury	114061-12-26 13:10 G	43381344.91	43381345.05	43381345.19	0.0139	0.0016
Mercury	114062-03-24 16:46 G	43381433.07	43381433.20	43381433.34	0.0139	0.0006
Venus	114062-05-16 09:34 G	43381485.69	43381485.90	43381486.11	0.0140	0.0022
Mercury	114062-06-20 20:37 G	43381521.22	43381521.36	43381521.49	0.0140	0.0023
Mercury	114062-09-17 00:13 G	43381609.38	43381609.51	43381609.64	0.0140	0.0043
Mercury	114062-12-14 03:49 G	43381697.54	43381697.66	43381697.78	0.0140	0.0062
Venus	114062-12-28 18:27 G	43381712.05	43381712.27	43381712.48	0.0140	0.0006
Mercury	114063-03-12 07:25 G	43381785.70	43381785.81	43381785.92	0.0140	0.0082
Mercury	114063-06-08 11:01 G	43381873.87	43381873.96	43381874.06	0.0140	0.0101
Venus	114063-08-12 03:20 G	43381938.42	43381938.64	43381938.86	0.0140	0.0012
Mercury	114063-09-04 14:37 G	43381962.05	43381962.11	43381962.18	0.0140	0.0121
Mercury	114063-12-01 18:13 G	43382050.26	43382050.26	43382050.27	0.0140	0.0140
Venus	114064-03-25 12:27 G	43382164.81	43382165.02	43382165.24	0.0140	0.0030
Venus	114064-11-06 21:49 G	43382391.21	43382391.41	43382391.62	0.0140	0.0047
Venus	114065-06-21 07:39 G	43382617.63	43382617.82	43382618.02	0.0140	0.0065
Venus	114066-02-02 17:15 G	43382844.06	43382844.22	43382844.41	0.0141	0.0083
Earth	114066-08-09 07:53 G	43383031.76	43383031.83	43383031.93	0.0141	0.0132
Moon	114066-08-09 09:05 G	43383031.85	43383031.88	43383031.94	0.0141	0.0138 *
Venus	114066-09-17 03:34 G	43383070.50	43383070.65	43383070.81	0.0141	0.0100
Venus	114067-05-01 13:39 G	43383296.97	43383297.07	43383297.21	0.0141	0.0118
Moon	114067-08-14 04:03 G	43383401.41	43383401.67	43383401.94	0.0141	0.0016

Earth	114067-08-14 04:17 G	43383401.43	43383401.68	43383401.94	0.0141	0.0023	*
Venus	114067-12-14 00:13 G	43383523.47	43383523.51	43383523.59	0.0141	0.0135	
Moon	114068-08-18 00:56 G	43383771.35	43383771.54	43383771.76	0.0141	0.0080	
Earth	114068-08-18 01:10 G	43383771.35	43383771.55	43383771.76	0.0141	0.0087	*
Venus	114098-12-16 08:51 G	43394848.79	43394848.87	43394848.98	0.0140	0.0125	
Venus	114099-07-30 18:41 G	43395075.15	43395075.28	43395075.42	0.0140	0.0108	
Venus	114100-03-14 03:49 G	43395301.51	43395301.66	43395301.84	0.0139	0.0092	
Venus	114100-10-26 13:10 G	43395527.88	43395528.05	43395528.25	0.0139	0.0075	
Mercury	114101-05-05 03:34 G	43395718.60	43395718.65	43395718.73	0.0139	0.0128	
Venus	114101-06-09 22:17 G	43395754.24	43395754.43	43395754.64	0.0139	0.0057	
Mercury	114101-08-01 10:17 G	43395806.82	43395806.93	43395807.06	0.0139	0.0103	
Mercury	114101-10-28 17:01 G	43395895.07	43395895.21	43395895.37	0.0139	0.0078	
Venus	114102-01-22 07:10 G	43395980.60	43395980.80	43395981.01	0.0139	0.0040	
Mercury	114102-01-24 23:58 G	43395983.34	43395983.50	43395983.67	0.0139	0.0053	
Mercury	114102-04-23 06:56 G	43396071.61	43396071.79	43396071.97	0.0139	0.0027	
Mercury	114102-07-20 13:39 G	43396159.89	43396160.07	43396160.25	0.0139	0.0002	
Venus	114102-09-05 15:49 G	43396206.94	43396207.16	43396207.38	0.0139	0.0023	
Mercury	114102-10-16 20:22 G	43396248.18	43396248.35	43396248.54	0.0139	0.0025	
Mercury	114103-01-13 03:34 G	43396336.47	43396336.65	43396336.82	0.0139	0.0050	
Mercury	114103-04-11 10:17 G	43396424.78	43396424.93	43396425.09	0.0139	0.0076	
Venus	114103-04-20 00:13 G	43396433.29	43396433.51	43396433.73	0.0139	0.0006	
Mercury	114103-07-08 17:15 G	43396513.10	43396513.22	43396513.35	0.0138	0.0102	
Mercury	114103-10-05 00:13 G	43396601.45	43396601.51	43396601.58	0.0138	0.0128	
Venus	114103-12-02 08:22 G	43396659.64	43396659.85	43396660.07	0.0138	0.0011	
Venus	114104-07-15 16:17 G	43396885.97	43396886.18	43396886.40	0.0138	0.0028	
Venus	114105-02-26 23:58 G	43397112.30	43397112.50	43397112.71	0.0138	0.0044	
Venus	114105-10-11 07:25 G	43397338.63	43397338.81	43397339.01	0.0138	0.0061	
Venus	114106-05-25 14:51 G	43397564.95	43397565.12	43397565.31	0.0138	0.0077	
Venus	114107-01-06 22:03 G	43397791.27	43397791.42	43397791.59	0.0137	0.0092	
Earth	114107-02-12 14:08 G	43397827.99	43397828.09	43397828.19	0.0137	0.0126	

Moon	114107-02-12 17:01 G	43397828.17	43397828.21	43397828.28	0.0137	0.0134	*
Venus	114107-08-21 05:15 G	43398017.59	43398017.72	43398017.86	0.0137	0.0108	
Moon	114108-02-16 22:46 G	43398197.20	43398197.45	43398197.71	0.0137	0.0019	
Earth	114108-02-17 01:53 G	43398197.34	43398197.58	43398197.83	0.0137	0.0027	*
Venus	114108-04-03 11:44 G	43398243.92	43398243.99	43398244.10	0.0137	0.0123	
Earth	114109-02-20 12:56 G	43398566.83	43398567.04	43398567.26	0.0137	0.0072	
Moon	114109-02-20 15:34 G	43398566.95	43398567.15	43398567.38	0.0137	0.0066	*
Mars	114120-04-20 15:49 G	43402644.01	43402644.16	43402644.31	0.0135	0.0114	
Venus	114142-04-27 18:56 G	43410686.21	43410686.29	43410686.39	0.0138	0.0125	
Venus	114142-12-10 02:37 G	43410912.48	43410912.61	43410912.74	0.0138	0.0110	
Venus	114143-07-24 10:17 G	43411138.77	43411138.93	43411139.08	0.0139	0.0094	
Venus	114144-03-06 17:44 G	43411365.07	43411365.24	43411365.43	0.0139	0.0078	
Mercury	114144-08-05 22:03 G	43411517.38	43411517.42	43411517.48	0.0139	0.0128	
Venus	114144-10-19 01:39 G	43411591.39	43411591.57	43411591.78	0.0139	0.0062	
Mercury	114144-11-02 01:53 G	43411605.50	43411605.58	43411605.67	0.0139	0.0108	
Mercury	114145-01-29 05:29 G	43411693.64	43411693.73	43411693.85	0.0139	0.0089	
Mercury	114145-04-27 09:20 G	43411781.78	43411781.89	43411782.02	0.0139	0.0069	
Venus	114145-06-02 10:03 G	43411817.73	43411817.92	43411818.14	0.0139	0.0046	
Mercury	114145-07-24 13:10 G	43411869.93	43411870.05	43411870.18	0.0139	0.0049	
Mercury	114145-10-20 17:01 G	43411958.07	43411958.21	43411958.35	0.0139	0.0029	
Venus	114146-01-14 18:41 G	43412044.07	43412044.28	43412044.50	0.0139	0.0028	
Mercury	114146-01-16 20:37 G	43412046.23	43412046.36	43412046.50	0.0139	0.0010	
Mercury	114146-04-15 00:27 G	43412134.38	43412134.52	43412134.66	0.0139	0.0010	
Mercury	114146-07-12 04:03 G	43412222.54	43412222.67	43412222.81	0.0140	0.0030	
Venus	114146-08-29 03:20 G	43412270.42	43412270.64	43412270.86	0.0140	0.0011	
Mercury	114146-10-08 07:39 G	43412310.70	43412310.82	43412310.95	0.0140	0.0049	
Mercury	114147-01-04 11:15 G	43412398.86	43412398.97	43412399.10	0.0140	0.0069	
Mercury	114147-04-02 15:05 G	43412487.02	43412487.13	43412487.23	0.0140	0.0088	
Venus	114147-04-12 12:13 G	43412496.80	43412497.01	43412497.23	0.0140	0.0007	
Mercury	114147-06-29 18:41 G	43412575.19	43412575.28	43412575.37	0.0140	0.0107	

Mercury	114147-09-25 22:03 G	43412663.38	43412663.42	43412663.49	0.0140	0.0127
Venus	114147-11-24 21:20 G	43412723.18	43412723.39	43412723.61	0.0140	0.0024
Venus	114148-07-08 06:27 G	43412949.57	43412949.77	43412949.99	0.0140	0.0042
Venus	114149-02-19 16:03 G	43413175.98	43413176.17	43413176.37	0.0140	0.0059
Venus	114149-10-04 01:53 G	43413402.40	43413402.58	43413402.76	0.0140	0.0077
Venus	114150-05-18 11:44 G	43413628.84	43413628.99	43413629.16	0.0141	0.0095
Earth	114150-08-10 19:39 G	43413713.22	43413713.32	43413713.45	0.0141	0.0125
Moon	114150-08-10 20:22 G	43413713.27	43413713.35	43413713.45	0.0141	0.0132 *
Venus	114150-12-30 22:03 G	43413855.30	43413855.42	43413855.56	0.0141	0.0112
Venus	114151-08-14 08:37 G	43414081.78	43414081.86	43414081.95	0.0141	0.0129
Moon	114151-08-15 14:37 G	43414082.87	43414083.11	43414083.36	0.0141	0.0011
Earth	114151-08-15 16:03 G	43414082.92	43414083.17	43414083.43	0.0141	0.0017 *
Earth	114152-08-19 12:41 G	43414452.85	43414453.03	43414453.23	0.0141	0.0093
Moon	114152-08-19 14:37 G	43414452.90	43414453.11	43414453.31	0.0141	0.0089 *
Venus	114182-08-16 17:58 G	43425407.19	43425407.25	43425407.33	0.0140	0.0131
Venus	114183-03-31 03:49 G	43425633.54	43425633.66	43425633.79	0.0140	0.0114
Venus	114183-11-12 13:39 G	43425859.92	43425860.07	43425860.23	0.0140	0.0097
Venus	114184-06-25 23:01 G	43426086.28	43426086.46	43426086.64	0.0139	0.0080
Venus	114185-02-07 08:08 G	43426312.65	43426312.84	43426313.04	0.0139	0.0062
Mercury	114185-05-25 11:44 G	43426419.91	43426419.99	43426420.09	0.0139	0.0119
Mercury	114185-08-21 18:27 G	43426508.14	43426508.27	43426508.41	0.0139	0.0094
Venus	114185-09-21 17:01 G	43426539.01	43426539.21	43426539.42	0.0139	0.0045
Mercury	114185-11-18 01:10 G	43426596.40	43426596.55	43426596.71	0.0139	0.0069
Mercury	114186-02-14 08:08 G	43426684.67	43426684.84	43426685.01	0.0139	0.0043
Venus	114186-05-06 01:39 G	43426765.36	43426765.57	43426765.79	0.0139	0.0028
Mercury	114186-05-13 14:51 G	43426772.94	43426773.12	43426773.30	0.0139	0.0018
Mercury	114186-08-09 21:49 G	43426861.22	43426861.41	43426861.59	0.0139	0.0008
Mercury	114186-11-06 04:32 G	43426949.52	43426949.69	43426949.87	0.0139	0.0034
Venus	114186-12-18 10:17 G	43426991.71	43426991.93	43426992.15	0.0139	0.0011
Mercury	114187-02-02 11:15 G	43427037.82	43427037.97	43427038.15	0.0139	0.0060

Mercury	114187-05-01 18:13 G	43427126.13	43427126.26	43427126.41	0.0139	0.0085
Mercury	114187-07-29 01:10 G	43427214.45	43427214.55	43427214.67	0.0138	0.0111
Venus	114187-08-01 18:41 G	43427218.06	43427218.28	43427218.49	0.0138	0.0006
Mercury	114187-10-25 08:08 G	43427302.83	43427302.84	43427302.88	0.0138	0.0137
Venus	114188-03-15 02:37 G	43427444.40	43427444.61	43427444.83	0.0138	0.0023
Venus	114188-10-27 10:32 G	43427670.74	43427670.94	43427671.15	0.0138	0.0040
Venus	114189-06-10 18:13 G	43427897.07	43427897.26	43427897.47	0.0138	0.0056
Venus	114190-01-23 01:53 G	43428123.40	43428123.58	43428123.76	0.0138	0.0072
Venus	114190-09-06 08:51 G	43428349.72	43428349.87	43428350.05	0.0138	0.0089
Moon	114191-02-13 01:39 G	43428509.46	43428509.57	43428509.67	0.0137	0.0125
Earth	114191-02-13 03:34 G	43428509.54	43428509.65	43428509.79	0.0137	0.0118 *
Venus	114191-04-20 16:17 G	43428576.04	43428576.18	43428576.33	0.0137	0.0104
Venus	114191-12-02 23:15 G	43428802.38	43428802.47	43428802.59	0.0137	0.0119
Earth	114192-02-17 15:34 G	43428878.90	43428879.15	43428879.40	0.0137	0.0018
Moon	114192-02-17 17:29 G	43428878.99	43428879.23	43428879.48	0.0137	0.0013 *
Venus	114192-07-16 05:58 G	43429028.73	43429028.75	43429028.81	0.0137	0.0134
Moon	114193-02-21 00:56 G	43429248.34	43429248.54	43429248.77	0.0137	0.0077
Earth	114193-02-21 02:51 G	43429248.42	43429248.62	43429248.83	0.0137	0.0080 *
Mars	114204-12-15 06:41 G	43433562.50	43433562.78	43433563.07	0.0135	0.0029
Venus	114225-12-27 05:15 G	43441244.67	43441244.72	43441244.80	0.0138	0.0131
Venus	114226-08-10 12:27 G	43441470.92	43441471.02	43441471.16	0.0138	0.0115
Venus	114227-03-24 20:08 G	43441697.20	43441697.34	43441697.50	0.0138	0.0099
Venus	114227-11-06 04:03 G	43441923.50	43441923.67	43441923.85	0.0139	0.0083
Venus	114228-06-19 11:44 G	43442149.81	43442149.99	43442150.19	0.0139	0.0067
Mercury	114228-08-27 05:58 G	43442218.68	43442218.75	43442218.81	0.0139	0.0121
Mercury	114228-11-23 09:34 G	43442306.81	43442306.90	43442307.00	0.0139	0.0102
Venus	114229-01-31 19:53 G	43442376.14	43442376.33	43442376.54	0.0139	0.0050
Mercury	114229-02-19 13:10 G	43442394.95	43442395.05	43442395.17	0.0139	0.0082
Mercury	114229-05-18 17:01 G	43442483.09	43442483.21	43442483.34	0.0139	0.0062
Mercury	114229-08-14 20:51 G	43442571.24	43442571.37	43442571.51	0.0139	0.0042

Venus	114229-09-15 04:17 G	43442602.47	43442602.68	43442602.90	0.0139	0.0033
Mercury	114229-11-11 00:41 G	43442659.39	43442659.53	43442659.67	0.0139	0.0023
Mercury	114230-02-07 04:17 G	43442747.55	43442747.68	43442747.82	0.0139	0.0004
Venus	114230-04-29 12:56 G	43442828.83	43442829.04	43442829.26	0.0139	0.0016
Mercury	114230-05-06 08:08 G	43442835.70	43442835.84	43442835.97	0.0139	0.0017
Mercury	114230-08-02 11:44 G	43442923.86	43442923.99	43442924.12	0.0139	0.0036
Mercury	114230-10-29 15:20 G	43443012.02	43443012.14	43443012.27	0.0140	0.0056
Venus	114230-12-11 21:49 G	43443055.19	43443055.41	43443055.63	0.0140	0.0001
Mercury	114231-01-25 18:56 G	43443100.18	43443100.29	43443100.41	0.0140	0.0076
Mercury	114231-04-23 22:32 G	43443188.35	43443188.44	43443188.55	0.0140	0.0095
Mercury	114231-07-21 02:22 G	43443276.52	43443276.60	43443276.68	0.0140	0.0114
Venus	114231-07-26 06:41 G	43443281.57	43443281.78	43443282.00	0.0140	0.0019
Mercury	114231-10-17 05:58 G	43443364.71	43443364.75	43443364.79	0.0140	0.0133
Venus	114232-03-08 15:49 G	43443507.95	43443508.16	43443508.37	0.0140	0.0036
Venus	114232-10-21 01:10 G	43443734.35	43443734.55	43443734.76	0.0140	0.0054
Venus	114233-06-04 11:01 G	43443960.78	43443960.96	43443961.15	0.0140	0.0072
Venus	114234-01-16 20:37 G	43444187.21	43444187.36	43444187.54	0.0141	0.0090
Moon	114234-08-12 06:27 G	43444394.68	43444394.77	43444394.91	0.0141	0.0125
Earth	114234-08-12 08:22 G	43444394.73	43444394.85	43444395.01	0.0141	0.0118 *
Venus	114234-08-31 06:56 G	43444413.65	43444413.79	43444413.94	0.0141	0.0107
Venus	114235-04-14 17:15 G	43444640.12	43444640.22	43444640.32	0.0141	0.0124
Earth	114235-08-17 04:46 G	43444764.45	43444764.70	43444764.96	0.0141	0.0009
Moon	114235-08-17 07:39 G	43444764.56	43444764.82	43444765.08	0.0141	0.0006 *
Moon	114236-08-20 22:32 G	43445134.28	43445134.44	43445134.63	0.0141	0.0100
Earth	114236-08-21 01:10 G	43445134.39	43445134.55	43445134.74	0.0141	0.0101 *
Mars	114247-02-28 04:03 G	43448977.35	43448977.67	43448977.99	0.0143	0.0025
Venus	114266-04-17 03:34 G	43455965.60	43455965.65	43455965.70	0.0140	0.0137
Venus	114266-11-29 13:39 G	43456191.95	43456192.07	43456192.18	0.0140	0.0119
Venus	114267-07-13 23:15 G	43456418.32	43456418.47	43456418.62	0.0140	0.0102
Venus	114268-02-25 08:37 G	43456644.69	43456644.86	43456645.04	0.0140	0.0085

Venus	114268-10-08 17:58 G	43456871.06	43456871.25	43456871.44	0.0139	0.0068
Mercury	114269-03-19 13:10 G	43457033.01	43457033.05	43457033.10	0.0139	0.0135
Venus	114269-05-23 03:05 G	43457097.43	43457097.63	43457097.83	0.0139	0.0050
Mercury	114269-06-15 19:53 G	43457121.22	43457121.33	43457121.44	0.0139	0.0110
Mercury	114269-09-12 02:37 G	43457209.47	43457209.61	43457209.76	0.0139	0.0084
Mercury	114269-12-09 09:20 G	43457297.73	43457297.89	43457298.06	0.0139	0.0059
Venus	114270-01-04 11:44 G	43457323.79	43457323.99	43457324.21	0.0139	0.0033
Mercury	114270-03-07 16:03 G	43457386.00	43457386.17	43457386.35	0.0139	0.0034
Mercury	114270-06-03 23:01 G	43457474.28	43457474.46	43457474.64	0.0139	0.0008
Venus	114270-08-18 20:37 G	43457550.14	43457550.36	43457550.57	0.0139	0.0016
Mercury	114270-08-31 05:44 G	43457562.56	43457562.74	43457562.93	0.0139	0.0018
Mercury	114270-11-27 12:27 G	43457650.86	43457651.02	43457651.21	0.0139	0.0044
Mercury	114271-02-23 19:39 G	43457739.16	43457739.32	43457739.48	0.0139	0.0069
Venus	114271-04-02 05:01 G	43457776.49	43457776.71	43457776.93	0.0139	0.0002
Mercury	114271-05-23 02:37 G	43457827.48	43457827.61	43457827.74	0.0139	0.0095
Mercury	114271-08-19 09:34 G	43457915.81	43457915.90	43457915.99	0.0138	0.0121
Venus	114271-11-14 13:10 G	43458002.84	43458003.05	43458003.27	0.0138	0.0018
Venus	114272-06-27 21:05 G	43458229.18	43458229.38	43458229.60	0.0138	0.0036
Venus	114273-02-09 05:15 G	43458455.52	43458455.72	43458455.92	0.0138	0.0051
Venus	114273-09-23 12:41 G	43458681.85	43458682.03	43458682.22	0.0138	0.0068
Venus	114274-05-07 20:08 G	43458908.18	43458908.34	43458908.52	0.0138	0.0084
Venus	114274-12-20 03:34 G	43459134.51	43459134.65	43459134.81	0.0137	0.0100
Earth	114275-02-14 17:15 G	43459191.09	43459191.22	43459191.39	0.0137	0.0110
Moon	114275-02-14 18:41 G	43459191.17	43459191.28	43459191.43	0.0137	0.0117 *
Venus	114275-08-03 10:32 G	43459360.84	43459360.94	43459361.07	0.0137	0.0116
Moon	114276-02-19 04:32 G	43459560.43	43459560.69	43459560.96	0.0137	0.0007
Earth	114276-02-19 05:44 G	43459560.49	43459560.74	43459560.99	0.0137	0.0010 *
Venus	114276-03-16 17:44 G	43459587.18	43459587.24	43459587.31	0.0137	0.0130
Earth	114277-02-22 16:46 G	43459930.02	43459930.20	43459930.41	0.0137	0.0089
Moon	114277-02-22 17:58 G	43459930.06	43459930.25	43459930.43	0.0137	0.0088 *

Venus	114309-08-27 15:34 G	43471803.12	43471803.15	43471803.20	0.0138	0.0135
Venus	114310-04-10 22:46 G	43472029.36	43472029.45	43472029.57	0.0138	0.0120
Venus	114310-11-23 06:13 G	43472255.63	43472255.76	43472255.91	0.0138	0.0104
Venus	114311-07-07 13:39 G	43472481.92	43472482.07	43472482.25	0.0138	0.0089
Venus	114312-02-18 21:34 G	43472708.22	43472708.40	43472708.59	0.0139	0.0072
Mercury	114312-06-21 09:34 G	43472831.87	43472831.90	43472831.94	0.0139	0.0135
Mercury	114312-09-17 13:25 G	43472919.99	43472920.06	43472920.14	0.0139	0.0115
Venus	114312-10-02 05:29 G	43472934.54	43472934.73	43472934.93	0.0139	0.0056
Mercury	114312-12-14 17:15 G	43473008.12	43473008.22	43473008.32	0.0139	0.0095
Mercury	114313-03-12 21:05 G	43473096.26	43473096.38	43473096.49	0.0139	0.0075
Venus	114313-05-16 13:39 G	43473160.87	43473161.07	43473161.29	0.0139	0.0039
Mercury	114313-06-09 00:41 G	43473184.41	43473184.53	43473184.66	0.0139	0.0056
Mercury	114313-09-05 04:32 G	43473272.55	43473272.69	43473272.82	0.0139	0.0036
Mercury	114313-12-02 08:08 G	43473360.71	43473360.84	43473360.98	0.0139	0.0017
Venus	114313-12-28 22:17 G	43473387.22	43473387.43	43473387.65	0.0139	0.0022
Mercury	114314-02-28 11:58 G	43473448.86	43473449.00	43473449.14	0.0139	0.0004
Mercury	114314-05-27 15:34 G	43473537.02	43473537.15	43473537.29	0.0139	0.0023
Venus	114314-08-12 06:56 G	43473613.57	43473613.79	43473614.01	0.0139	0.0004
Mercury	114314-08-23 19:10 G	43473625.17	43473625.30	43473625.44	0.0139	0.0043
Mercury	114314-11-19 22:46 G	43473713.33	43473713.45	43473713.58	0.0139	0.0062
Mercury	114315-02-16 02:37 G	43473801.50	43473801.61	43473801.72	0.0140	0.0081
Venus	114315-03-26 15:34 G	43473839.94	43473840.15	43473840.37	0.0140	0.0014
Mercury	114315-05-15 06:13 G	43473889.67	43473889.76	43473889.85	0.0140	0.0101
Mercury	114315-08-11 09:49 G	43473977.85	43473977.91	43473977.98	0.0140	0.0120
Mercury	114315-11-07 13:25 G	43474066.06	43474066.06	43474066.07	0.0140	0.0139
Venus	114315-11-08 00:41 G	43474066.32	43474066.53	43474066.75	0.0140	0.0031
Venus	114316-06-21 10:03 G	43474292.72	43474292.92	43474293.13	0.0140	0.0048
Venus	114317-02-02 19:25 G	43474519.12	43474519.31	43474519.51	0.0140	0.0066
Jupiter	114317-07-15 16:17 G	43474681.69	43474682.18	43474682.69	0.0140	0.0024
Venus	114317-09-17 05:15 G	43474745.55	43474745.72	43474745.90	0.0140	0.0084

Venus	114318-05-01 14:51 G	43474971.99	43474972.12	43474972.29	0.0141	0.0102
Earth	114318-08-13 19:53 G	43475076.19	43475076.33	43475076.50	0.0141	0.0111
Moon	114318-08-13 22:03 G	43475076.29	43475076.42	43475076.58	0.0141	0.0117 *
Venus	114318-12-14 01:10 G	43475198.44	43475198.55	43475198.67	0.0141	0.0119
Venus	114319-07-28 11:44 G	43475424.94	43475424.99	43475425.04	0.0141	0.0136
Moon	114319-08-18 13:25 G	43475445.81	43475446.06	43475446.31	0.0141	0.0001
Earth	114319-08-18 16:17 G	43475445.92	43475446.18	43475446.43	0.0141	0.0003 *
Earth	114320-08-22 12:13 G	43475815.87	43475816.01	43475816.20	0.0141	0.0108
Moon	114320-08-22 15:05 G	43475815.98	43475816.13	43475816.31	0.0141	0.0107 *
Venus	114350-07-30 21:20 G	43486750.30	43486750.39	43486750.49	0.0140	0.0126
Venus	114351-03-14 07:10 G	43486976.67	43486976.80	43486976.94	0.0140	0.0108
Venus	114351-10-26 17:00 G	43487203.05	43487203.21	43487203.38	0.0140	0.0091
Venus	114352-06-09 02:22 G	43487429.42	43487429.60	43487429.79	0.0140	0.0074
Venus	114353-01-21 11:29 G	43487655.79	43487655.98	43487656.19	0.0139	0.0056
Mercury	114353-04-09 20:36 G	43487734.30	43487734.36	43487734.44	0.0139	0.0127
Mercury	114353-07-07 03:20 G	43487822.53	43487822.64	43487822.77	0.0139	0.0102
Venus	114353-09-04 20:22 G	43487882.15	43487882.35	43487882.57	0.0139	0.0039
Mercury	114353-10-03 10:03 G	43487910.78	43487910.92	43487911.08	0.0139	0.0077
Mercury	114353-12-30 17:00 G	43487999.04	43487999.21	43487999.37	0.0139	0.0051
Mercury	114354-03-28 23:44 G	43488087.31	43488087.49	43488087.67	0.0139	0.0026
Venus	114354-04-19 05:15 G	43488108.51	43488108.72	43488108.94	0.0139	0.0022
Mercury	114354-06-25 06:27 G	43488175.59	43488175.77	43488175.96	0.0139	0.0003
Mercury	114354-09-21 13:24 G	43488263.88	43488264.06	43488264.24	0.0139	0.0025
Venus	114354-12-01 14:08 G	43488334.88	43488335.09	43488335.31	0.0139	0.0005
Mercury	114354-12-18 20:22 G	43488352.18	43488352.35	43488352.52	0.0139	0.0051
Mercury	114355-03-17 03:20 G	43488440.49	43488440.64	43488440.79	0.0139	0.0077
Mercury	114355-06-13 10:17 G	43488528.81	43488528.93	43488529.05	0.0139	0.0103
Venus	114355-07-15 22:32 G	43488561.23	43488561.44	43488561.66	0.0139	0.0013
Mercury	114355-09-09 17:15 G	43488617.16	43488617.22	43488617.28	0.0139	0.0129
Venus	114356-02-27 06:56 G	43488787.57	43488787.79	43488788.00	0.0138	0.0030

Venus	114356-10-10 14:51 G	43489013.92	43489014.12	43489014.33	0.0138	0.0047
Venus	114357-05-24 22:32 G	43489240.26	43489240.44	43489240.64	0.0138	0.0063
Venus	114358-01-06 06:12 G	43489466.60	43489466.76	43489466.95	0.0138	0.0080
Venus	114358-08-20 13:39 G	43489692.93	43489693.07	43489693.24	0.0138	0.0096
Moon	114359-02-16 04:17 G	43489872.54	43489872.68	43489872.86	0.0137	0.0109
Earth	114359-02-16 05:58 G	43489872.60	43489872.75	43489872.94	0.0137	0.0102 *
Venus	114359-04-03 20:51 G	43489919.26	43489919.37	43489919.51	0.0137	0.0112
Venus	114359-11-16 04:17 G	43490145.61	43490145.68	43490145.77	0.0137	0.0127
Earth	114360-02-20 18:27 G	43490242.02	43490242.27	43490242.52	0.0137	0.0003
Moon	114360-02-20 19:39 G	43490242.07	43490242.32	43490242.56	0.0137	0.0001 *
Moon	114361-02-24 04:32 G	43490611.52	43490611.69	43490611.89	0.0137	0.0096
Earth	114361-02-24 05:44 G	43490611.57	43490611.74	43490611.93	0.0137	0.0096 *
Mars	114372-05-05 12:56 G	43494699.78	43494700.04	43494700.32	0.0135	0.0049
Venus	114393-12-09 09:05 G	43502587.81	43502587.88	43502587.99	0.0138	0.0125
Venus	114394-07-23 16:32 G	43502814.07	43502814.19	43502814.33	0.0138	0.0109
Venus	114395-03-06 23:58 G	43503040.35	43503040.50	43503040.67	0.0138	0.0093
Venus	114395-10-19 07:53 G	43503266.65	43503266.83	43503267.01	0.0138	0.0077
Venus	114396-06-01 15:34 G	43503492.96	43503493.15	43503493.35	0.0139	0.0060
Mercury	114396-07-11 17:15 G	43503533.17	43503533.22	43503533.28	0.0139	0.0128
Mercury	114396-10-07 21:05 G	43503621.30	43503621.38	43503621.47	0.0139	0.0108
Mercury	114397-01-04 00:56 G	43503709.43	43503709.54	43503709.65	0.0139	0.0088
Venus	114397-01-13 23:29 G	43503719.29	43503719.48	43503719.70	0.0139	0.0044
Mercury	114397-04-02 04:46 G	43503797.58	43503797.70	43503797.82	0.0139	0.0068
Mercury	114397-06-29 08:22 G	43503885.72	43503885.85	43503885.98	0.0139	0.0049
Venus	114397-08-28 07:53 G	43503945.62	43503945.83	43503946.05	0.0139	0.0027
Mercury	114397-09-25 12:12 G	43503973.87	43503974.01	43503974.15	0.0139	0.0029
Mercury	114397-12-22 15:48 G	43504062.03	43504062.16	43504062.30	0.0139	0.0010
Mercury	114398-03-20 19:39 G	43504150.18	43504150.32	43504150.46	0.0139	0.0011
Venus	114398-04-11 16:32 G	43504171.97	43504172.19	43504172.41	0.0139	0.0009
Mercury	114398-06-16 23:15 G	43504238.34	43504238.47	43504238.61	0.0139	0.0030

Mercury	114398-09-13 03:05 G	43504326.50	43504326.63	43504326.75	0.0139	0.0050
Venus	114398-11-24 01:10 G	43504398.34	43504398.55	43504398.77	0.0139	0.0009
Mercury	114398-12-10 06:27 G	43504414.66	43504414.77	43504414.90	0.0139	0.0069
Mercury	114399-03-08 10:03 G	43504502.82	43504502.92	43504503.03	0.0139	0.0089
Mercury	114399-06-04 13:53 G	43504591.00	43504591.08	43504591.17	0.0140	0.0108
Venus	114399-07-08 10:17 G	43504624.71	43504624.93	43504625.14	0.0140	0.0026
Mercury	114399-08-31 17:29 G	43504679.18	43504679.23	43504679.29	0.0140	0.0127
Venus	114400-02-19 19:10 G	43504851.10	43504851.30	43504851.51	0.0140	0.0044
Venus	114400-10-03 04:32 G	43505077.50	43505077.69	43505077.89	0.0140	0.0061
Venus	114401-05-17 14:08 G	43505303.92	43505304.09	43505304.28	0.0140	0.0079
Venus	114401-12-29 23:58 G	43505530.35	43505530.50	43505530.67	0.0140	0.0097
Venus	114402-08-13 10:03 G	43505756.79	43505756.92	43505757.05	0.0141	0.0114
Moon	114402-08-14 06:41 G	43505757.65	43505757.78	43505757.95	0.0141	0.0111
Earth	114402-08-14 08:36 G	43505757.70	43505757.86	43505758.04	0.0141	0.0104 *
Venus	114403-03-27 19:39 G	43505983.27	43505983.32	43505983.42	0.0141	0.0132
Earth	114403-08-19 04:32 G	43506127.44	43506127.69	43506127.95	0.0141	0.0005
Moon	114403-08-19 07:24 G	43506127.55	43506127.81	43506128.07	0.0141	0.0007 *
Moon	114404-08-22 22:03 G	43506497.29	43506497.42	43506497.59	0.0141	0.0115
Earth	114404-08-23 00:27 G	43506497.39	43506497.52	43506497.69	0.0141	0.0114 *
Mars	114414-07-17 00:56 G	43510112.33	43510112.54	43510112.79	0.0143	0.0101
Venus	114434-03-30 05:15 G	43517308.66	43517308.72	43517308.81	0.0140	0.0132
Venus	114434-11-11 15:34 G	43517535.03	43517535.15	43517535.29	0.0140	0.0114
Venus	114435-06-26 01:10 G	43517761.41	43517761.55	43517761.72	0.0140	0.0097
Venus	114436-02-07 10:46 G	43517987.78	43517987.95	43517988.14	0.0140	0.0080
Venus	114436-09-20 20:22 G	43518214.16	43518214.35	43518214.55	0.0139	0.0062
Mercury	114437-04-30 04:03 G	43518435.60	43518435.67	43518435.78	0.0139	0.0120
Venus	114437-05-05 05:29 G	43518440.53	43518440.73	43518440.94	0.0139	0.0045
Mercury	114437-07-27 10:46 G	43518523.84	43518523.95	43518524.10	0.0139	0.0095
Mercury	114437-10-23 17:58 G	43518612.09	43518612.25	43518612.40	0.0139	0.0068
Venus	114437-12-17 14:36 G	43518666.90	43518667.11	43518667.33	0.0139	0.0027

Mercury	114438-01-20 00:27 G	43518700.36	43518700.52	43518700.70	0.0139	0.0043
Mercury	114438-04-18 07:24 G	43518788.63	43518788.81	43518788.99	0.0139	0.0018
Mercury	114438-07-15 14:22 G	43518876.92	43518877.10	43518877.28	0.0139	0.0008
Venus	114438-07-31 23:29 G	43518893.26	43518893.48	43518893.70	0.0139	0.0010
Mercury	114438-10-11 21:05 G	43518965.21	43518965.38	43518965.56	0.0139	0.0034
Mercury	114439-01-08 04:03 G	43519053.51	43519053.67	43519053.84	0.0139	0.0060
Venus	114439-03-15 07:53 G	43519119.62	43519119.83	43519120.05	0.0139	0.0008
Mercury	114439-04-06 10:46 G	43519141.82	43519141.95	43519142.10	0.0139	0.0086
Mercury	114439-07-03 17:44 G	43519230.14	43519230.24	43519230.36	0.0139	0.0112
Mercury	114439-09-30 00:56 G	43519318.53	43519318.54	43519318.56	0.0138	0.0138
Venus	114439-10-27 16:17 G	43519345.97	43519346.18	43519346.40	0.0138	0.0025
Venus	114440-06-10 00:27 G	43519572.32	43519572.52	43519572.74	0.0138	0.0042
Venus	114441-01-22 08:22 G	43519798.67	43519798.85	43519799.06	0.0138	0.0059
Venus	114441-09-05 16:17 G	43520025.01	43520025.18	43520025.37	0.0138	0.0075
Venus	114442-04-19 23:44 G	43520251.35	43520251.49	43520251.67	0.0138	0.0092
Venus	114442-12-02 07:24 G	43520477.69	43520477.81	43520477.96	0.0138	0.0108
Earth	114443-02-16 18:41 G	43520554.11	43520554.28	43520554.47	0.0137	0.0096
Moon	114443-02-16 20:36 G	43520554.21	43520554.36	43520554.54	0.0137	0.0103 *
Venus	114443-07-16 14:51 G	43520704.03	43520704.12	43520704.22	0.0137	0.0123
Moon	114444-02-21 05:29 G	43520923.47	43520923.73	43520923.99	0.0137	0.0008
Earth	114444-02-21 07:10 G	43520923.55	43520923.80	43520924.05	0.0137	0.0004 *
Earth	114445-02-24 18:27 G	43521293.11	43521293.27	43521293.45	0.0137	0.0102
Moon	114445-02-24 20:08 G	43521293.18	43521293.34	43521293.50	0.0137	0.0102 *
Mars	114456-12-29 04:32 G	43525618.51	43525618.69	43525618.93	0.0135	0.0095
Venus	114477-08-08 20:08 G	43533146.28	43533146.34	43533146.42	0.0138	0.0129
Venus	114478-03-23 03:05 G	43533372.52	43533372.63	43533372.77	0.0138	0.0114
Venus	114478-11-04 10:17 G	43533598.80	43533598.93	43533599.10	0.0138	0.0099
Venus	114479-06-18 18:12 G	43533825.09	43533825.26	43533825.44	0.0138	0.0082
Venus	114480-01-31 01:39 G	43534051.39	43534051.57	43534051.77	0.0138	0.0066
Mercury	114480-08-01 00:56 G	43534234.48	43534234.54	43534234.61	0.0139	0.0120

Venus	114480-09-13 09:34 G	43534277.71	43534277.90	43534278.11	0.0139	0.0049
Mercury	114480-10-28 04:46 G	43534322.61	43534322.70	43534322.80	0.0139	0.0101
Mercury	114481-01-24 08:36 G	43534410.75	43534410.86	43534410.98	0.0139	0.0081
Mercury	114481-04-22 12:27 G	43534498.89	43534499.02	43534499.14	0.0139	0.0061
Venus	114481-04-27 17:58 G	43534504.04	43534504.25	43534504.47	0.0139	0.0032
Mercury	114481-07-19 16:03 G	43534587.04	43534587.17	43534587.31	0.0139	0.0042
Mercury	114481-10-15 19:53 G	43534675.19	43534675.33	43534675.47	0.0139	0.0022
Venus	114481-12-10 02:22 G	43534730.39	43534730.60	43534730.82	0.0139	0.0014
Mercury	114482-01-11 23:44 G	43534763.35	43534763.49	43534763.62	0.0139	0.0004
Mercury	114482-04-10 03:20 G	43534851.50	43534851.64	43534851.78	0.0139	0.0018
Mercury	114482-07-07 06:56 G	43534939.66	43534939.79	43534939.93	0.0139	0.0037
Venus	114482-07-24 11:00 G	43534956.74	43534956.96	43534957.18	0.0139	0.0003
Mercury	114482-10-03 10:46 G	43535027.82	43535027.95	43535028.07	0.0139	0.0057
Mercury	114482-12-30 14:08 G	43535115.99	43535116.09	43535116.21	0.0139	0.0077
Venus	114483-03-07 19:39 G	43535183.11	43535183.32	43535183.54	0.0139	0.0021
Mercury	114483-03-28 17:58 G	43535204.15	43535204.25	43535204.35	0.0139	0.0095
Mercury	114483-06-24 21:34 G	43535292.33	43535292.40	43535292.48	0.0139	0.0115
Mercury	114483-09-21 01:10 G	43535380.52	43535380.55	43535380.59	0.0140	0.0134
Venus	114483-10-20 04:32 G	43535409.49	43535409.69	43535409.91	0.0140	0.0038
Venus	114484-06-02 13:53 G	43535635.88	43535636.08	43535636.28	0.0140	0.0056
Venus	114485-01-14 23:00 G	43535862.29	43535862.46	43535862.66	0.0140	0.0074
Venus	114485-08-29 08:36 G	43536088.71	43536088.86	43536089.04	0.0140	0.0092
Venus	114486-04-12 18:12 G	43536315.14	43536315.26	43536315.42	0.0140	0.0110
Earth	114486-08-14 20:51 G	43536439.19	43536439.37	43536439.56	0.0140	0.0097
Moon	114486-08-14 21:34 G	43536439.24	43536439.40	43536439.60	0.0140	0.0104 *
Venus	114486-11-25 04:17 G	43536541.60	43536541.68	43536541.79	0.0141	0.0127
Moon	114487-08-19 14:36 G	43536808.87	43536809.11	43536809.36	0.0141	0.0015
Earth	114487-08-19 16:32 G	43536808.93	43536809.19	43536809.45	0.0141	0.0011 *
Earth	114488-08-23 12:12 G	43537178.90	43537179.01	43537179.16	0.0141	0.0121
Moon	114488-08-23 14:08 G	43537178.96	43537179.09	43537179.24	0.0141	0.0119 *

Mars	114499-03-13 01:39 G	43541032.34	43541032.57	43541032.86	0.0143	0.0085
Venus	114517-11-28 12:41 G	43547867.00	43547867.03	43547867.08	0.0140	0.0138
Venus	114518-07-12 22:46 G	43548093.35	43548093.45	43548093.57	0.0140	0.0121
Venus	114519-02-24 08:36 G	43548319.72	43548319.86	43548320.02	0.0140	0.0103
Venus	114519-10-08 18:12 G	43548546.11	43548546.26	43548546.45	0.0140	0.0086
Venus	114520-05-22 04:03 G	43548772.49	43548772.67	43548772.87	0.0140	0.0068
Venus	114521-01-03 13:24 G	43548998.86	43548999.06	43548999.27	0.0139	0.0050
Mercury	114521-02-22 04:46 G	43549048.69	43549048.70	43549048.74	0.0139	0.0138
Mercury	114521-05-21 11:29 G	43549136.89	43549136.98	43549137.10	0.0139	0.0112
Mercury	114521-08-17 18:12 G	43549225.13	43549225.26	43549225.41	0.0139	0.0087
Venus	114521-08-17 22:32 G	43549225.23	43549225.44	43549225.66	0.0139	0.0033 *
Mercury	114521-11-14 01:10 G	43549313.39	43549313.55	43549313.71	0.0139	0.0062
Mercury	114522-02-10 07:53 G	43549401.66	43549401.83	43549402.01	0.0139	0.0036
Venus	114522-04-01 07:39 G	43549451.60	43549451.82	43549452.04	0.0139	0.0015
Mercury	114522-05-09 14:36 G	43549489.93	43549490.11	43549490.30	0.0139	0.0011
Mercury	114522-08-05 21:34 G	43549578.22	43549578.40	43549578.58	0.0139	0.0015
Mercury	114522-11-02 04:32 G	43549666.51	43549666.69	43549666.86	0.0139	0.0041
Venus	114522-11-13 16:32 G	43549677.97	43549678.19	43549678.41	0.0139	0.0002
Mercury	114523-01-29 11:15 G	43549754.82	43549754.97	43549755.14	0.0139	0.0067
Mercury	114523-04-27 18:12 G	43549843.13	43549843.26	43549843.40	0.0139	0.0093
Venus	114523-06-28 01:10 G	43549904.33	43549904.55	43549904.76	0.0139	0.0020
Mercury	114523-07-25 01:10 G	43549931.46	43549931.55	43549931.65	0.0139	0.0119
Venus	114524-02-09 09:20 G	43550130.69	43550130.89	43550131.10	0.0138	0.0037
Venus	114524-09-22 17:29 G	43550357.03	43550357.23	43550357.44	0.0138	0.0054
Venus	114525-05-07 01:24 G	43550583.38	43550583.56	43550583.76	0.0138	0.0070
Venus	114525-12-19 09:20 G	43550809.73	43550809.89	43550810.07	0.0138	0.0087
Venus	114526-08-02 17:00 G	43551036.07	43551036.21	43551036.36	0.0138	0.0103
Moon	114527-02-18 03:05 G	43551235.46	43551235.63	43551235.82	0.0138	0.0098
Earth	114527-02-18 05:44 G	43551235.57	43551235.74	43551235.96	0.0138	0.0091 *
Venus	114527-03-17 00:12 G	43551262.42	43551262.51	43551262.63	0.0138	0.0119

Venus	114527-10-29 07:10 G	43551488.78	43551488.80	43551488.87	0.0137	0.0135
Earth	114528-02-22 18:27 G	43551605.02	43551605.27	43551605.52	0.0137	0.0010
Moon	114528-02-22 20:51 G	43551605.13	43551605.37	43551605.62	0.0137	0.0015 *
Moon	114529-02-26 03:20 G	43551974.49	43551974.64	43551974.81	0.0137	0.0106
Earth	114529-02-26 05:44 G	43551974.60	43551974.74	43551974.91	0.0137	0.0108 *
Mars	114539-09-24 17:00 G	43555837.17	43555837.21	43555837.25	0.0135	0.0134
Venus	114561-04-09 06:56 G	43563704.75	43563704.79	43563704.85	0.0138	0.0134
Venus	114561-11-21 14:08 G	43563930.98	43563931.09	43563931.20	0.0138	0.0118
Venus	114562-07-05 21:20 G	43564157.25	43564157.39	43564157.53	0.0138	0.0102
Venus	114563-02-17 04:32 G	43564383.53	43564383.69	43564383.86	0.0138	0.0087
Venus	114563-10-01 11:58 G	43564609.83	43564610.00	43564610.20	0.0138	0.0071
Venus	114564-05-14 20:08 G	43564836.15	43564836.34	43564836.55	0.0139	0.0053
Mercury	114564-05-26 04:46 G	43564847.67	43564847.70	43564847.75	0.0139	0.0133
Mercury	114564-08-22 08:36 G	43564935.79	43564935.86	43564935.95	0.0139	0.0113
Mercury	114564-11-18 12:41 G	43565023.93	43565024.03	43565024.13	0.0139	0.0093
Venus	114564-12-27 04:03 G	43565062.47	43565062.67	43565062.89	0.0139	0.0037
Mercury	114565-02-14 16:17 G	43565112.07	43565112.18	43565112.30	0.0139	0.0073
Mercury	114565-05-13 20:08 G	43565200.21	43565200.34	43565200.47	0.0139	0.0053
Mercury	114565-08-09 23:58 G	43565288.36	43565288.50	43565288.63	0.0139	0.0034
Venus	114565-08-10 12:27 G	43565288.81	43565289.02	43565289.24	0.0139	0.0019
Mercury	114565-11-06 03:34 G	43565376.52	43565376.65	43565376.79	0.0139	0.0015
Mercury	114566-02-02 07:24 G	43565464.67	43565464.81	43565464.95	0.0139	0.0006
Venus	114566-03-24 20:51 G	43565515.16	43565515.37	43565515.59	0.0139	0.0003
Mercury	114566-05-01 11:00 G	43565552.83	43565552.96	43565553.10	0.0139	0.0025
Mercury	114566-07-28 14:51 G	43565640.99	43565641.12	43565641.25	0.0139	0.0045
Mercury	114566-10-24 18:27 G	43565729.15	43565729.27	43565729.39	0.0139	0.0064
Venus	114566-11-06 05:29 G	43565741.52	43565741.73	43565741.95	0.0139	0.0016
Mercury	114567-01-20 22:03 G	43565817.31	43565817.42	43565817.53	0.0139	0.0083
Mercury	114567-04-19 01:39 G	43565905.48	43565905.57	43565905.67	0.0139	0.0103
Venus	114567-06-20 14:22 G	43565967.89	43565968.10	43565968.32	0.0139	0.0034

Mercury	114567-07-16 05:29 G	43565993.66	43565993.73	43565993.79	0.0139	0.0122
Venus	114568-02-01 23:29 G	43566194.28	43566194.48	43566194.68	0.0140	0.0051
Venus	114568-09-15 08:36 G	43566420.68	43566420.86	43566421.06	0.0140	0.0069
Venus	114569-04-29 17:58 G	43566647.09	43566647.25	43566647.43	0.0140	0.0087
Venus	114569-12-12 03:34 G	43566873.52	43566873.65	43566873.81	0.0140	0.0105
Venus	114570-07-26 13:39 G	43567099.97	43567100.07	43567100.18	0.0140	0.0122
Earth	114570-08-16 09:34 G	43567120.71	43567120.90	43567121.11	0.0140	0.0089
Moon	114570-08-16 09:48 G	43567120.74	43567120.91	43567121.09	0.0140	0.0097 *
Venus	114571-03-09 23:15 G	43567326.46	43567326.47	43567326.52	0.0141	0.0140
Earth	114571-08-21 05:15 G	43567490.47	43567490.72	43567490.98	0.0141	0.0018
Moon	114571-08-21 06:12 G	43567490.50	43567490.76	43567491.02	0.0141	0.0023 *
Moon	114572-08-25 00:12 G	43567860.41	43567860.51	43567860.64	0.0141	0.0125
Earth	114572-08-25 00:56 G	43567860.45	43567860.54	43567860.66	0.0141	0.0128 *
Venus	114602-03-13 06:56 G	43578651.71	43578651.79	43578651.90	0.0140	0.0127
Venus	114602-10-25 17:00 G	43578878.09	43578878.21	43578878.37	0.0140	0.0110
Venus	114603-06-09 03:20 G	43579104.48	43579104.64	43579104.81	0.0140	0.0091
Venus	114604-01-21 12:41 G	43579330.86	43579331.03	43579331.23	0.0140	0.0074
Venus	114604-09-03 22:17 G	43579557.24	43579557.43	43579557.64	0.0140	0.0056
Mercury	114605-03-15 12:41 G	43579749.97	43579750.03	43579750.10	0.0139	0.0129
Venus	114605-04-18 07:39 G	43579783.61	43579783.82	43579784.03	0.0139	0.0038
Mercury	114605-06-11 19:24 G	43579838.20	43579838.31	43579838.43	0.0139	0.0104
Mercury	114605-09-08 02:08 G	43579926.45	43579926.59	43579926.74	0.0139	0.0078
Venus	114605-11-30 17:00 G	43580009.99	43580010.21	43580010.42	0.0139	0.0021
Mercury	114605-12-05 08:51 G	43580014.71	43580014.87	43580015.04	0.0139	0.0053
Mercury	114606-03-03 15:48 G	43580102.98	43580103.16	43580103.33	0.0139	0.0028
Mercury	114606-05-30 22:32 G	43580191.26	43580191.44	43580191.62	0.0139	0.0002
Venus	114606-07-15 01:53 G	43580236.36	43580236.58	43580236.80	0.0139	0.0003
Mercury	114606-08-27 05:15 G	43580279.55	43580279.72	43580279.91	0.0139	0.0024
Mercury	114606-11-23 12:12 G	43580367.84	43580368.01	43580368.18	0.0139	0.0050
Mercury	114607-02-19 18:56 G	43580456.15	43580456.29	43580456.45	0.0139	0.0076

Venus	114607-02-26 10:32 G	43580462.72	43580462.94	43580463.15	0.0139	0.0014
Mercury	114607-05-19 01:53 G	43580544.47	43580544.58	43580544.72	0.0139	0.0102
Mercury	114607-08-15 08:51 G	43580632.81	43580632.87	43580632.95	0.0139	0.0128
Venus	114607-10-10 18:56 G	43580689.08	43580689.29	43580689.50	0.0139	0.0032
Venus	114608-05-24 03:20 G	43580915.44	43580915.64	43580915.84	0.0138	0.0049
Venus	114609-01-05 11:15 G	43581141.79	43581141.97	43581142.17	0.0138	0.0066
Venus	114609-08-19 19:10 G	43581368.14	43581368.30	43581368.48	0.0138	0.0083
Venus	114610-04-03 02:51 G	43581594.48	43581594.62	43581594.78	0.0138	0.0099
Venus	114610-11-15 10:17 G	43581820.83	43581820.93	43581821.07	0.0138	0.0115
Earth	114611-02-19 18:12 G	43581917.07	43581917.26	43581917.47	0.0138	0.0084
Moon	114611-02-19 21:34 G	43581917.23	43581917.40	43581917.60	0.0138	0.0092 *
Venus	114611-06-29 17:29 G	43582047.19	43582047.23	43582047.32	0.0138	0.0131
Moon	114612-02-24 03:20 G	43582286.40	43582286.64	43582286.90	0.0137	0.0023
Earth	114612-02-24 06:41 G	43582286.53	43582286.78	43582287.04	0.0137	0.0016 *
Earth	114613-02-27 17:58 G	43582656.12	43582656.25	43582656.40	0.0137	0.0114
Moon	114613-02-27 20:36 G	43582656.24	43582656.36	43582656.53	0.0137	0.0112 *
Mars	114624-05-20 08:22 G	43586755.55	43586755.85	43586756.14	0.0135	0.0009
Venus	114645-07-23 00:56 G	43594489.45	43594489.54	43594489.64	0.0138	0.0123
Venus	114646-03-06 07:39 G	43594715.70	43594715.82	43594715.97	0.0138	0.0108
Venus	114646-10-18 15:20 G	43594941.98	43594942.14	43594942.30	0.0138	0.0091
Venus	114647-06-01 22:46 G	43595168.28	43595168.45	43595168.64	0.0138	0.0075
Venus	114648-01-14 06:27 G	43595394.58	43595394.77	43595394.97	0.0138	0.0059
Mercury	114648-06-16 12:27 G	43595548.98	43595549.02	43595549.09	0.0139	0.0126
Venus	114648-08-27 14:22 G	43595620.90	43595621.10	43595621.31	0.0139	0.0042
Mercury	114648-09-12 16:17 G	43595637.10	43595637.18	43595637.28	0.0139	0.0106
Mercury	114648-12-09 20:08 G	43595725.24	43595725.34	43595725.46	0.0139	0.0086
Mercury	114649-03-08 00:12 G	43595813.39	43595813.51	43595813.63	0.0139	0.0066
Venus	114649-04-10 22:32 G	43595847.23	43595847.44	43595847.66	0.0139	0.0025
Mercury	114649-06-04 04:03 G	43595901.53	43595901.67	43595901.80	0.0139	0.0046
Mercury	114649-08-31 07:39 G	43595989.69	43595989.82	43595989.96	0.0139	0.0027

Venus	114649-11-23 06:56 G	43596073.58	43596073.79	43596074.01	0.0139	0.0007
Mercury	114649-11-27 11:29 G	43596077.84	43596077.98	43596078.12	0.0139	0.0007
Mercury	114650-02-23 15:05 G	43596165.99	43596166.13	43596166.27	0.0139	0.0013
Mercury	114650-05-22 18:56 G	43596254.15	43596254.29	43596254.42	0.0139	0.0032
Venus	114650-07-07 15:20 G	43596299.93	43596300.14	43596300.36	0.0139	0.0012
Mercury	114650-08-18 22:32 G	43596342.31	43596342.44	43596342.57	0.0139	0.0052
Mercury	114650-11-15 02:08 G	43596430.48	43596430.59	43596430.71	0.0139	0.0071
Mercury	114651-02-11 05:44 G	43596518.64	43596518.74	43596518.85	0.0139	0.0091
Venus	114651-02-18 23:58 G	43596526.29	43596526.50	43596526.72	0.0139	0.0029
Mercury	114651-05-10 09:34 G	43596606.81	43596606.90	43596606.98	0.0139	0.0110
Mercury	114651-08-06 13:10 G	43596695.00	43596695.05	43596695.10	0.0139	0.0129
Venus	114651-10-03 09:05 G	43596752.67	43596752.88	43596753.08	0.0140	0.0046
Venus	114652-05-16 17:58 G	43596979.07	43596979.25	43596979.46	0.0140	0.0064
Venus	114652-12-29 03:34 G	43597205.47	43597205.65	43597205.82	0.0140	0.0081
Venus	114653-08-12 12:41 G	43597431.89	43597432.03	43597432.19	0.0140	0.0099
Venus	114654-03-26 22:17 G	43597658.32	43597658.43	43597658.56	0.0140	0.0117
Moon	114654-08-17 20:51 G	43597802.18	43597802.37	43597802.59	0.0140	0.0089
Earth	114654-08-17 22:17 G	43597802.23	43597802.43	43597802.64	0.0140	0.0082 *
Venus	114654-11-08 08:22 G	43597884.79	43597884.85	43597884.91	0.0141	0.0134
Earth	114655-08-22 17:29 G	43598171.98	43598172.23	43598172.48	0.0141	0.0026
Moon	114655-08-22 17:44 G	43598172.00	43598172.24	43598172.48	0.0141	0.0031 *
Moon	114656-08-26 13:10 G	43598541.96	43598542.05	43598542.16	0.0141	0.0130
Earth	114656-08-26 13:24 G	43598541.99	43598542.06	43598542.14	0.0141	0.0134 *
Mars	114666-07-31 04:17 G	43602167.38	43602167.68	43602168.00	0.0143	0.0039
Venus	114685-11-10 15:05 G	43609210.06	43609210.13	43609210.20	0.0140	0.0133
Venus	114686-06-25 01:10 G	43609436.43	43609436.55	43609436.68	0.0140	0.0115
Venus	114687-02-06 11:00 G	43609662.82	43609662.96	43609663.13	0.0140	0.0098
Venus	114687-09-20 20:51 G	43609889.20	43609889.37	43609889.56	0.0140	0.0080
Venus	114688-05-04 06:41 G	43610115.59	43610115.78	43610115.98	0.0140	0.0062
Venus	114688-12-16 16:03 G	43610341.97	43610342.17	43610342.39	0.0139	0.0045

Mercury	114689-04-04 20:08 G	43610451.26	43610451.34	43610451.44	0.0139	0.0121
Mercury	114689-07-02 02:51 G	43610539.50	43610539.62	43610539.76	0.0139	0.0096
Venus	114689-07-31 01:24 G	43610568.35	43610568.56	43610568.78	0.0139	0.0027
Mercury	114689-09-28 09:34 G	43610627.75	43610627.90	43610628.06	0.0139	0.0071
Mercury	114689-12-25 16:32 G	43610716.02	43610716.19	43610716.36	0.0139	0.0045
Venus	114690-03-14 10:32 G	43610794.72	43610794.94	43610795.16	0.0139	0.0009
Mercury	114690-03-23 23:15 G	43610804.29	43610804.47	43610804.65	0.0139	0.0020
Mercury	114690-06-20 05:58 G	43610892.57	43610892.75	43610892.94	0.0139	0.0007
Mercury	114690-09-16 12:56 G	43610980.86	43610981.04	43610981.22	0.0139	0.0032
Venus	114690-10-26 19:24 G	43611021.09	43611021.31	43611021.53	0.0139	0.0009
Mercury	114690-12-13 19:39 G	43611069.16	43611069.32	43611069.49	0.0139	0.0058
Mercury	114691-03-12 02:22 G	43611157.47	43611157.60	43611157.76	0.0139	0.0084
Mercury	114691-06-08 09:20 G	43611245.80	43611245.89	43611246.02	0.0139	0.0110
Venus	114691-06-10 03:48 G	43611247.46	43611247.66	43611247.88	0.0139	0.0027
Mercury	114691-09-04 16:17 G	43611334.16	43611334.18	43611334.23	0.0139	0.0136
Venus	114692-01-22 12:12 G	43611473.81	43611474.01	43611474.23	0.0139	0.0044
Venus	114692-09-04 20:36 G	43611700.17	43611700.36	43611700.56	0.0138	0.0061
Venus	114693-04-19 04:32 G	43611926.52	43611926.69	43611926.88	0.0138	0.0077
Venus	114693-12-01 12:12 G	43612152.87	43612153.01	43612153.19	0.0138	0.0094
Venus	114694-07-15 19:53 G	43612379.22	43612379.33	43612379.47	0.0138	0.0110
Moon	114695-02-20 01:53 G	43612598.40	43612598.58	43612598.80	0.0138	0.0086
Earth	114695-02-20 05:44 G	43612598.54	43612598.74	43612598.96	0.0138	0.0078 *
Venus	114695-02-27 03:20 G	43612605.57	43612605.64	43612605.74	0.0138	0.0126
Earth	114696-02-24 18:12 G	43612968.01	43612968.26	43612968.51	0.0137	0.0022
Moon	114696-02-24 21:34 G	43612968.15	43612968.40	43612968.65	0.0137	0.0029 *
Moon	114697-02-28 01:39 G	43613337.46	43613337.57	43613337.72	0.0137	0.0116
Earth	114697-02-28 05:15 G	43613337.62	43613337.72	43613337.85	0.0137	0.0121 *
Venus	114729-03-23 11:00 G	43625047.91	43625047.96	43625048.06	0.0138	0.0129
Venus	114729-11-04 18:12 G	43625274.15	43625274.26	43625274.40	0.0138	0.0113
Venus	114730-06-19 01:24 G	43625500.42	43625500.56	43625500.73	0.0138	0.0097

Venus	114731-01-31 08:51 G	43625726.71	43625726.87	43625727.06	0.0138	0.0081
Venus	114731-09-14 16:46 G	43625953.01	43625953.20	43625953.39	0.0138	0.0064
Mercury	114732-04-10 16:32 G	43626162.19	43626162.19	43626162.20	0.0138	0.0138
Venus	114732-04-28 00:27 G	43626179.32	43626179.52	43626179.73	0.0138	0.0047
Mercury	114732-07-07 20:08 G	43626250.28	43626250.34	43626250.43	0.0139	0.0119
Mercury	114732-10-04 00:12 G	43626338.42	43626338.51	43626338.61	0.0139	0.0098
Venus	114732-12-10 08:36 G	43626405.65	43626405.86	43626406.07	0.0139	0.0030
Mercury	114732-12-31 04:03 G	43626426.56	43626426.67	43626426.79	0.0139	0.0079
Mercury	114733-03-29 07:53 G	43626514.70	43626514.83	43626514.95	0.0139	0.0059
Mercury	114733-06-25 11:29 G	43626602.85	43626602.98	43626603.12	0.0139	0.0039
Venus	114733-07-24 16:46 G	43626631.98	43626632.20	43626632.42	0.0139	0.0012
Mercury	114733-09-21 15:20 G	43626691.00	43626691.14	43626691.28	0.0139	0.0020
Mercury	114733-12-18 19:10 G	43626779.16	43626779.30	43626779.44	0.0139	0.0003
Venus	114734-03-08 00:56 G	43626858.33	43626858.54	43626858.76	0.0139	0.0006
Mercury	114734-03-16 22:46 G	43626867.31	43626867.45	43626867.59	0.0139	0.0020
Mercury	114734-06-13 02:22 G	43626955.47	43626955.60	43626955.74	0.0139	0.0039
Mercury	114734-09-09 06:12 G	43627043.63	43627043.76	43627043.88	0.0139	0.0059
Venus	114734-10-20 09:34 G	43627084.69	43627084.90	43627085.12	0.0139	0.0023
Mercury	114734-12-06 09:34 G	43627131.80	43627131.90	43627132.02	0.0139	0.0079
Mercury	114735-03-04 13:24 G	43627219.97	43627220.06	43627220.16	0.0139	0.0097
Mercury	114735-05-31 17:00 G	43627308.14	43627308.21	43627308.29	0.0139	0.0116
Venus	114735-06-03 18:27 G	43627311.06	43627311.27	43627311.48	0.0139	0.0040
Mercury	114735-08-27 20:36 G	43627396.34	43627396.36	43627396.39	0.0140	0.0136
Venus	114736-01-16 03:05 G	43627537.45	43627537.63	43627537.84	0.0140	0.0059
Venus	114736-08-29 12:12 G	43627763.84	43627764.01	43627764.20	0.0140	0.0076
Venus	114737-04-12 21:20 G	43627990.25	43627990.39	43627990.57	0.0140	0.0094
Venus	114737-11-25 06:56 G	43628216.67	43628216.79	43628216.94	0.0140	0.0112
Venus	114738-07-09 17:00 G	43628443.13	43628443.21	43628443.30	0.0140	0.0129
Earth	114738-08-19 10:17 G	43628483.72	43628483.93	43628484.15	0.0140	0.0075
Moon	114738-08-19 11:58 G	43628483.81	43628484.00	43628484.21	0.0140	0.0083 *

Moon	114739-08-24 04:17 G	43628853.44	43628853.68	43628853.95	0.0141	0.0039
Earth	114739-08-24 05:29 G	43628853.49	43628853.73	43628853.98	0.0141	0.0033 *
Moon	114740-08-28 02:22 G	43629223.56	43629223.60	43629223.66	0.0141	0.0137
Venus	114769-07-11 23:29 G	43639768.46	43639768.48	43639768.52	0.0141	0.0139
Venus	114770-02-23 09:48 G	43639994.81	43639994.91	43639995.02	0.0140	0.0121
Venus	114770-10-07 20:08 G	43640221.20	43640221.34	43640221.49	0.0140	0.0104
Venus	114771-05-22 05:58 G	43640447.59	43640447.75	43640447.93	0.0140	0.0086
Venus	114772-01-03 15:48 G	43640673.97	43640674.16	43640674.36	0.0140	0.0068
Venus	114772-08-17 01:24 G	43640900.36	43640900.56	43640900.77	0.0140	0.0050
Mercury	114773-01-27 21:20 G	43641064.38	43641064.39	43641064.43	0.0139	0.0138
Venus	114773-03-31 10:46 G	43641126.74	43641126.95	43641127.17	0.0139	0.0032
Mercury	114773-04-26 04:03 G	43641152.58	43641152.67	43641152.79	0.0139	0.0112
Mercury	114773-07-23 10:46 G	43641240.82	43641240.95	43641241.10	0.0139	0.0087
Mercury	114773-10-19 17:44 G	43641329.08	43641329.24	43641329.40	0.0139	0.0062
Venus	114773-11-12 20:08 G	43641353.12	43641353.34	43641353.56	0.0139	0.0014
Mercury	114774-01-16 00:27 G	43641417.35	43641417.52	43641417.69	0.0139	0.0036
Mercury	114774-04-14 07:10 G	43641505.62	43641505.80	43641505.98	0.0139	0.0011
Venus	114774-06-27 05:00 G	43641579.50	43641579.71	43641579.93	0.0139	0.0005
Mercury	114774-07-11 14:08 G	43641593.91	43641594.09	43641594.27	0.0139	0.0015
Mercury	114774-10-07 20:51 G	43641682.20	43641682.37	43641682.55	0.0139	0.0041
Mercury	114775-01-04 03:34 G	43641770.50	43641770.65	43641770.82	0.0139	0.0067
Venus	114775-02-08 13:53 G	43641805.86	43641806.08	43641806.29	0.0139	0.0021
Mercury	114775-04-02 10:32 G	43641858.81	43641858.94	43641859.09	0.0139	0.0093
Mercury	114775-06-29 17:29 G	43641947.15	43641947.23	43641947.33	0.0139	0.0119
Venus	114775-09-22 22:17 G	43642032.22	43642032.43	43642032.64	0.0139	0.0038
Venus	114776-05-06 06:27 G	43642258.58	43642258.77	43642258.98	0.0138	0.0056
Venus	114776-12-18 14:51 G	43642484.94	43642485.12	43642485.31	0.0138	0.0073
Venus	114777-08-01 22:32 G	43642711.29	43642711.44	43642711.62	0.0138	0.0089
Venus	114778-03-16 06:27 G	43642937.63	43642937.77	43642937.91	0.0138	0.0105
Venus	114778-10-28 13:39 G	43643163.99	43643164.07	43643164.19	0.0138	0.0122

Earth	114779-02-21 18:41 G	43643280.06	43643280.28	43643280.50	0.0138	0.0070
Moon	114779-02-21 22:32 G	43643280.23	43643280.44	43643280.65	0.0138	0.0078 *
Venus	114779-06-11 21:05 G	43643390.37	43643390.38	43643390.41	0.0138	0.0137
Moon	114780-02-26 03:20 G	43643649.40	43643649.64	43643649.89	0.0137	0.0036
Earth	114780-02-26 06:41 G	43643649.54	43643649.78	43643650.04	0.0137	0.0030 *
Earth	114781-03-01 17:58 G	43644019.17	43644019.25	43644019.35	0.0137	0.0128
Moon	114781-03-01 21:20 G	43644019.30	43644019.39	43644019.52	0.0137	0.0124 *
Mars	114791-10-09 08:08 G	43647892.61	43647892.84	43647893.10	0.0135	0.0077
Venus	114812-11-20 21:48 G	43655606.37	43655606.41	43655606.47	0.0137	0.0134
Venus	114813-07-05 04:46 G	43655832.60	43655832.70	43655832.82	0.0138	0.0118
Venus	114814-02-16 11:44 G	43656058.86	43656058.99	43656059.15	0.0138	0.0102
Venus	114814-09-30 18:56 G	43656285.14	43656285.29	43656285.48	0.0138	0.0086
Venus	114815-05-15 02:51 G	43656511.44	43656511.62	43656511.81	0.0138	0.0069
Venus	114815-12-27 10:32 G	43656737.75	43656737.94	43656738.15	0.0138	0.0052
Mercury	114816-04-30 23:58 G	43656863.47	43656863.50	43656863.56	0.0138	0.0132
Mercury	114816-07-28 04:03 G	43656951.59	43656951.67	43656951.76	0.0139	0.0111
Venus	114816-08-09 18:12 G	43656964.06	43656964.26	43656964.48	0.0139	0.0036
Mercury	114816-10-24 07:53 G	43657039.73	43657039.83	43657039.94	0.0139	0.0092
Mercury	114817-01-20 11:44 G	43657127.87	43657127.99	43657128.11	0.0139	0.0072
Venus	114817-03-24 02:22 G	43657190.39	43657190.60	43657190.82	0.0139	0.0018
Mercury	114817-04-18 15:34 G	43657216.02	43657216.15	43657216.28	0.0139	0.0052
Mercury	114817-07-15 19:10 G	43657304.17	43657304.30	43657304.44	0.0139	0.0033
Mercury	114817-10-11 23:00 G	43657392.32	43657392.46	43657392.60	0.0139	0.0013
Venus	114817-11-05 10:46 G	43657416.73	43657416.95	43657417.16	0.0139	0.0002
Mercury	114818-01-08 02:36 G	43657480.48	43657480.61	43657480.75	0.0139	0.0008
Mercury	114818-04-06 06:27 G	43657568.63	43657568.77	43657568.90	0.0139	0.0026
Venus	114818-06-19 19:10 G	43657643.08	43657643.30	43657643.51	0.0139	0.0017
Mercury	114818-07-03 10:03 G	43657656.79	43657656.92	43657657.05	0.0139	0.0046
Mercury	114818-09-29 13:39 G	43657744.95	43657745.07	43657745.20	0.0139	0.0065
Mercury	114818-12-26 17:15 G	43657833.12	43657833.22	43657833.34	0.0139	0.0085

Venus	114819-02-01 03:34 G	43657869.44	43657869.65	43657869.87	0.0139	0.0035
Mercury	114819-03-24 21:05 G	43657921.29	43657921.38	43657921.47	0.0139	0.0103
Mercury	114819-06-21 00:41 G	43658009.47	43658009.53	43658009.59	0.0139	0.0123
Venus	114819-09-15 12:12 G	43658095.82	43658096.01	43658096.22	0.0140	0.0053
Venus	114820-04-28 21:05 G	43658322.21	43658322.38	43658322.58	0.0140	0.0071
Venus	114820-12-11 06:27 G	43658548.61	43658548.77	43658548.95	0.0140	0.0088
Venus	114821-07-25 15:34 G	43658775.02	43658775.15	43658775.31	0.0140	0.0106
Venus	114822-03-09 01:10 G	43659001.46	43659001.55	43659001.67	0.0140	0.0123
Moon	114822-08-19 18:56 G	43659165.09	43659165.29	43659165.53	0.0140	0.0076
Earth	114822-08-19 21:34 G	43659165.20	43659165.40	43659165.64	0.0140	0.0069 *
Earth	114823-08-24 16:46 G	43659534.97	43659535.20	43659535.46	0.0141	0.0040
Moon	114823-08-24 18:27 G	43659535.05	43659535.27	43659535.52	0.0141	0.0047 *
Venus	114853-10-23 16:46 G	43670553.13	43670553.20	43670553.31	0.0140	0.0129
Venus	114854-06-07 03:20 G	43670779.52	43670779.64	43670779.78	0.0140	0.0110
Venus	114855-01-19 13:24 G	43671005.91	43671006.06	43671006.23	0.0140	0.0093
Venus	114855-09-02 23:15 G	43671232.30	43671232.47	43671232.67	0.0140	0.0075
Venus	114856-04-16 09:05 G	43671458.69	43671458.88	43671459.09	0.0140	0.0057
Venus	114856-11-28 18:41 G	43671685.08	43671685.28	43671685.50	0.0140	0.0039
Mercury	114857-02-17 04:46 G	43671765.65	43671765.70	43671765.77	0.0139	0.0131
Mercury	114857-05-16 11:29 G	43671853.87	43671853.98	43671854.10	0.0139	0.0105
Venus	114857-07-13 04:17 G	43671911.46	43671911.68	43671911.90	0.0139	0.0020
Mercury	114857-08-12 18:12 G	43671942.12	43671942.26	43671942.41	0.0139	0.0080
Mercury	114857-11-09 00:56 G	43672030.38	43672030.54	43672030.71	0.0139	0.0055
Mercury	114858-02-05 07:39 G	43672118.65	43672118.82	43672119.00	0.0139	0.0030
Venus	114858-02-24 13:24 G	43672137.84	43672138.06	43672138.28	0.0139	0.0003
Mercury	114858-05-04 14:36 G	43672206.93	43672207.11	43672207.29	0.0139	0.0004
Mercury	114858-07-31 21:20 G	43672295.21	43672295.39	43672295.57	0.0139	0.0022
Venus	114858-10-08 22:17 G	43672364.21	43672364.43	43672364.65	0.0139	0.0015
Mercury	114858-10-28 04:03 G	43672383.51	43672383.67	43672383.85	0.0139	0.0048
Mercury	114859-01-24 11:00 G	43672471.81	43672471.96	43672472.12	0.0139	0.0074

Mercury	114859-04-22 17:58 G	43672560.13	43672560.25	43672560.38	0.0139	0.0100
Venus	114859-05-23 06:56 G	43672590.58	43672590.79	43672591.00	0.0139	0.0033
Mercury	114859-07-20 00:56 G	43672648.47	43672648.54	43672648.62	0.0139	0.0126
Venus	114860-01-04 15:34 G	43672816.94	43672817.15	43672817.35	0.0139	0.0050
Venus	114860-08-17 23:29 G	43673043.30	43673043.48	43673043.68	0.0138	0.0067
Venus	114861-04-01 07:24 G	43673269.65	43673269.81	43673270.00	0.0138	0.0084
Venus	114861-11-13 15:34 G	43673496.01	43673496.15	43673496.30	0.0138	0.0100
Venus	114862-06-27 22:46 G	43673722.36	43673722.45	43673722.59	0.0138	0.0117
Venus	114863-02-09 06:41 G	43673948.72	43673948.78	43673948.84	0.0138	0.0132
Moon	114863-02-22 01:53 G	43673961.38	43673961.58	43673961.81	0.0138	0.0073
Earth	114863-02-22 05:29 G	43673961.52	43673961.73	43673961.97	0.0138	0.0065 *
Earth	114864-02-26 17:58 G	43674331.01	43674331.25	43674331.49	0.0137	0.0035
Moon	114864-02-26 21:05 G	43674331.15	43674331.38	43674331.63	0.0137	0.0043 *
Moon	114865-03-02 01:24 G	43674700.49	43674700.56	43674700.67	0.0137	0.0128
Earth	114865-03-02 05:15 G	43674700.67	43674700.72	43674700.79	0.0137	0.0133 *
Mars	114876-06-02 21:20 G	43678811.15	43678811.39	43678811.66	0.0135	0.0067
Venus	114897-03-04 15:05 G	43686391.04	43686391.13	43686391.23	0.0137	0.0123
Venus	114897-10-16 22:03 G	43686617.29	43686617.42	43686617.56	0.0138	0.0107
Venus	114898-05-31 05:15 G	43686843.57	43686843.72	43686843.89	0.0138	0.0091
Venus	114899-01-12 12:41 G	43687069.85	43687070.03	43687070.22	0.0138	0.0074
Venus	114899-08-26 20:22 G	43687296.15	43687296.35	43687296.54	0.0138	0.0058
Venus	114900-04-10 04:03 G	43687522.46	43687522.67	43687522.88	0.0138	0.0040
Mercury	114900-05-22 07:53 G	43687564.77	43687564.83	43687564.89	0.0138	0.0125
Mercury	114900-08-18 11:44 G	43687652.90	43687652.99	43687653.08	0.0138	0.0105
Mercury	114900-11-14 15:20 G	43687741.04	43687741.14	43687741.26	0.0139	0.0085
Venus	114900-11-22 11:44 G	43687748.78	43687748.99	43687749.21	0.0139	0.0024
Mercury	114901-02-10 19:10 G	43687829.18	43687829.30	43687829.43	0.0139	0.0066
Mercury	114901-05-09 23:00 G	43687917.33	43687917.46	43687917.59	0.0139	0.0046
Venus	114901-07-06 19:53 G	43687975.12	43687975.33	43687975.55	0.0139	0.0006
Mercury	114901-08-06 02:36 G	43688005.48	43688005.61	43688005.75	0.0139	0.0027

Mercury	114901-11-02 06:27 G	43688093.63	43688093.77	43688093.91	0.0139	0.0007
Mercury	114902-01-29 10:17 G	43688181.79	43688181.93	43688182.06	0.0139	0.0013
Venus	114902-02-18 04:03 G	43688201.46	43688201.67	43688201.89	0.0139	0.0012
Mercury	114902-04-27 13:53 G	43688269.95	43688270.08	43688270.21	0.0139	0.0032
Mercury	114902-07-24 17:29 G	43688358.11	43688358.23	43688358.36	0.0139	0.0052
Venus	114902-10-02 12:27 G	43688427.81	43688428.02	43688428.24	0.0139	0.0030
Mercury	114902-10-20 21:05 G	43688446.27	43688446.38	43688446.50	0.0139	0.0071
Mercury	114903-01-17 00:41 G	43688534.43	43688534.53	43688534.64	0.0139	0.0091
Mercury	114903-04-15 04:17 G	43688622.61	43688622.68	43688622.77	0.0139	0.0110
Venus	114903-05-16 21:05 G	43688654.19	43688654.38	43688654.60	0.0139	0.0048
Mercury	114903-07-12 08:08 G	43688710.79	43688710.84	43688710.89	0.0139	0.0129
Venus	114903-12-29 05:58 G	43688880.57	43688880.75	43688880.95	0.0140	0.0065
Venus	114904-08-11 14:51 G	43689106.96	43689107.12	43689107.31	0.0140	0.0083
Venus	114905-03-26 00:12 G	43689333.36	43689333.51	43689333.66	0.0140	0.0100
Venus	114905-11-07 09:20 G	43689559.79	43689559.89	43689560.02	0.0140	0.0118
Venus	114906-06-21 19:10 G	43689786.26	43689786.30	43689786.37	0.0140	0.0135
Earth	114906-08-21 08:51 G	43689846.65	43689846.87	43689847.11	0.0140	0.0062
Moon	114906-08-21 11:58 G	43689846.79	43689847.00	43689847.23	0.0140	0.0070 *
Moon	114907-08-26 01:24 G	43690216.33	43690216.56	43690216.82	0.0141	0.0053
Earth	114907-08-26 04:03 G	43690216.44	43690216.67	43690216.93	0.0141	0.0046 *
Mars	114918-08-14 05:15 G	43694222.41	43694222.72	43694223.04	0.0143	0.0022
Venus	114937-06-24 00:27 G	43701111.47	43701111.52	43701111.59	0.0141	0.0135
Venus	114938-02-05 11:00 G	43701337.84	43701337.96	43701338.09	0.0140	0.0117
Venus	114938-09-19 21:20 G	43701564.24	43701564.39	43701564.55	0.0140	0.0099
Venus	114939-05-04 07:10 G	43701790.63	43701790.80	43701790.99	0.0140	0.0081
Venus	114939-12-16 17:15 G	43702017.03	43702017.22	43702017.42	0.0140	0.0063
Venus	114940-07-30 02:51 G	43702243.42	43702243.62	43702243.84	0.0140	0.0045
Mercury	114941-03-10 12:27 G	43702466.94	43702467.02	43702467.11	0.0139	0.0123
Venus	114941-03-13 12:27 G	43702469.81	43702470.02	43702470.24	0.0139	0.0026
Mercury	114941-06-06 19:10 G	43702555.17	43702555.30	43702555.43	0.0139	0.0098

Mercury	114941-09-03 01:39 G	43702643.43	43702643.57	43702643.73	0.0139	0.0073
Venus	114941-10-25 21:48 G	43702696.19	43702696.41	43702696.63	0.0139	0.0008
Mercury	114941-11-30 08:22 G	43702731.69	43702731.85	43702732.03	0.0139	0.0047
Mercury	114942-02-26 15:20 G	43702819.96	43702820.14	43702820.32	0.0139	0.0022
Mercury	114942-05-25 22:03 G	43702908.24	43702908.42	43702908.60	0.0139	0.0004
Venus	114942-06-09 06:56 G	43702922.57	43702922.79	43702923.01	0.0139	0.0010
Mercury	114942-08-22 04:46 G	43702996.53	43702996.70	43702996.88	0.0139	0.0030
Mercury	114942-11-18 11:29 G	43703084.82	43703084.98	43703085.16	0.0139	0.0056
Venus	114943-01-21 15:48 G	43703148.94	43703149.16	43703149.37	0.0139	0.0027
Mercury	114943-02-14 18:27 G	43703173.13	43703173.27	43703173.43	0.0139	0.0082
Mercury	114943-05-14 01:10 G	43703261.45	43703261.55	43703261.68	0.0139	0.0108
Mercury	114943-08-10 08:08 G	43703349.81	43703349.84	43703349.90	0.0139	0.0134
Venus	114943-09-05 00:12 G	43703375.31	43703375.51	43703375.72	0.0139	0.0045
Venus	114944-04-18 08:36 G	43703601.67	43703601.86	43703602.06	0.0139	0.0062
Venus	114944-11-30 16:32 G	43703828.03	43703828.19	43703828.39	0.0138	0.0080
Venus	114945-07-15 00:41 G	43704054.38	43704054.53	43704054.70	0.0138	0.0096
Venus	114946-02-26 08:08 G	43704280.74	43704280.84	43704280.99	0.0138	0.0113
Venus	114946-10-10 15:48 G	43704507.10	43704507.16	43704507.25	0.0138	0.0128
Earth	114947-02-23 17:00 G	43704642.99	43704643.21	43704643.45	0.0138	0.0059
Moon	114947-02-23 20:08 G	43704643.13	43704643.34	43704643.58	0.0138	0.0067 *
Moon	114948-02-28 02:08 G	43705012.37	43705012.59	43705012.84	0.0137	0.0049
Earth	114948-02-28 05:15 G	43705012.49	43705012.72	43705012.97	0.0137	0.0041 *
Moon	114949-03-03 20:08 G	43705382.30	43705382.34	43705382.41	0.0137	0.0133
Venus	114980-11-03 01:39 G	43716949.50	43716949.57	43716949.65	0.0137	0.0128
Venus	114981-06-17 08:36 G	43717175.74	43717175.86	43717175.99	0.0138	0.0112
Venus	114982-01-29 15:34 G	43717402.00	43717402.15	43717402.31	0.0138	0.0096
Venus	114982-09-12 22:32 G	43717628.28	43717628.44	43717628.63	0.0138	0.0080
Venus	114983-04-27 06:12 G	43717854.58	43717854.76	43717854.96	0.0138	0.0063
Venus	114983-12-09 13:53 G	43718080.88	43718081.08	43718081.29	0.0138	0.0046
Mercury	114984-03-15 11:29 G	43718177.98	43718177.98	43718177.99	0.0138	0.0138

Mercury	114984-06-11 15:05 G	43718266.07	43718266.13	43718266.21	0.0138	0.0119
Venus	114984-07-22 21:34 G	43718307.19	43718307.40	43718307.61	0.0138	0.0029
Mercury	114984-09-07 19:10 G	43718354.21	43718354.30	43718354.40	0.0138	0.0098
Mercury	114984-12-04 23:00 G	43718442.35	43718442.46	43718442.58	0.0139	0.0079
Mercury	114985-03-03 02:51 G	43718530.49	43718530.62	43718530.74	0.0139	0.0059
Venus	114985-03-06 05:29 G	43718533.51	43718533.73	43718533.95	0.0139	0.0011
Mercury	114985-05-30 06:27 G	43718618.64	43718618.77	43718618.91	0.0139	0.0040
Mercury	114985-08-26 10:17 G	43718706.79	43718706.93	43718707.07	0.0139	0.0020
Venus	114985-10-18 13:39 G	43718759.85	43718760.07	43718760.28	0.0139	0.0007
Mercury	114985-11-22 14:08 G	43718794.95	43718795.09	43718795.23	0.0139	0.0004
Mercury	114986-02-18 17:44 G	43718883.10	43718883.24	43718883.38	0.0139	0.0019
Mercury	114986-05-17 21:20 G	43718971.26	43718971.39	43718971.53	0.0139	0.0039
Venus	114986-06-01 21:48 G	43718986.20	43718986.41	43718986.63	0.0139	0.0024
Mercury	114986-08-14 00:56 G	43719059.42	43719059.54	43719059.67	0.0139	0.0058
Mercury	114986-11-10 04:46 G	43719147.59	43719147.70	43719147.81	0.0139	0.0077
Venus	114987-01-14 06:27 G	43719212.56	43719212.77	43719212.98	0.0139	0.0042
Mercury	114987-02-06 08:22 G	43719235.75	43719235.85	43719235.95	0.0139	0.0096
Mercury	114987-05-05 11:58 G	43719323.93	43719324.00	43719324.08	0.0139	0.0116
Mercury	114987-08-01 15:34 G	43719412.12	43719412.15	43719412.19	0.0139	0.0135
Venus	114987-08-28 14:51 G	43719438.93	43719439.12	43719439.33	0.0139	0.0059
Venus	114988-04-10 23:58 G	43719665.32	43719665.50	43719665.68	0.0140	0.0077
Venus	114988-11-23 08:36 G	43719891.72	43719891.86	43719892.03	0.0140	0.0095
Venus	114989-07-07 18:12 G	43720118.14	43720118.26	43720118.39	0.0140	0.0112
Venus	114990-02-19 03:20 G	43720344.58	43720344.64	43720344.74	0.0140	0.0130
Moon	114990-08-21 17:15 G	43720527.99	43720528.22	43720528.45	0.0140	0.0063
Earth	114990-08-21 20:22 G	43720528.13	43720528.35	43720528.60	0.0140	0.0056 *
Earth	114991-08-26 15:34 G	43720897.92	43720898.15	43720898.40	0.0141	0.0051
Moon	114991-08-26 18:41 G	43720898.05	43720898.28	43720898.51	0.0141	0.0059 *

116TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 116th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	115021-10-06 17:00	G	43731896.13	43731896.21	43731896.33	0.0140	0.0124	
Venus	115022-05-21 03:34	G	43732122.52	43732122.65	43732122.81	0.0140	0.0106	
Venus	115023-01-02 13:53	G	43732348.92	43732349.08	43732349.26	0.0140	0.0087	
Venus	115023-08-16 23:58	G	43732575.31	43732575.50	43732575.69	0.0140	0.0069	
Venus	115024-03-30 09:48	G	43732801.71	43732801.91	43732802.12	0.0140	0.0051	
Venus	115024-11-11 19:24	G	43733028.10	43733028.31	43733028.53	0.0140	0.0033	
Mercury	115025-03-31 19:10	G	43733168.22	43733168.30	43733168.40	0.0139	0.0117	
Venus	115025-06-26 05:00	G	43733254.49	43733254.71	43733254.93	0.0139	0.0015	
Mercury	115025-06-28 01:53	G	43733256.45	43733256.58	43733256.72	0.0139	0.0092	
Mercury	115025-09-24 08:22	G	43733344.71	43733344.85	43733345.02	0.0139	0.0068	
Mercury	115025-12-21 15:20	G	43733432.97	43733433.14	43733433.31	0.0139	0.0042	
Venus	115026-02-07 14:08	G	43733480.87	43733481.09	43733481.31	0.0139	0.0004	
Mercury	115026-03-19 22:03	G	43733521.24	43733521.42	43733521.60	0.0139	0.0016	
Mercury	115026-06-16 05:00	G	43733609.53	43733609.71	43733609.89	0.0139	0.0010	
Mercury	115026-09-12 11:44	G	43733697.82	43733697.99	43733698.17	0.0139	0.0035	
Venus	115026-09-21 23:00	G	43733707.24	43733707.46	43733707.67	0.0139	0.0021	
Mercury	115026-12-09 18:27	G	43733786.11	43733786.27	43733786.44	0.0139	0.0061	
Mercury	115027-03-08 01:10	G	43733874.42	43733874.55	43733874.70	0.0139	0.0087	
Venus	115027-05-06 07:39	G	43733933.61	43733933.82	43733934.03	0.0139	0.0039	

Mercury	115027-06-04 08:08 G	43733962.75	43733962.84	43733962.96	0.0139	0.0113
Mercury	115027-08-31 15:20 G	43734051.14	43734051.14	43734051.14	0.0139	0.0139
Venus	115027-12-18 16:17 G	43734159.98	43734160.18	43734160.38	0.0139	0.0056
Venus	115028-08-01 00:12 G	43734386.34	43734386.51	43734386.71	0.0139	0.0074
Venus	115029-03-15 08:22 G	43734612.70	43734612.85	43734613.03	0.0138	0.0090
Venus	115029-10-27 16:32 G	43734839.06	43734839.19	43734839.33	0.0138	0.0107
Venus	115030-06-10 23:58 G	43735065.42	43735065.50	43735065.61	0.0138	0.0123
Moon	115031-02-24 23:29 G	43735324.27	43735324.48	43735324.71	0.0138	0.0063
Earth	115031-02-25 02:08 G	43735324.38	43735324.59	43735324.84	0.0138	0.0056 *
Earth	115032-02-29 14:36 G	43735693.88	43735694.11	43735694.36	0.0138	0.0045
Moon	115032-02-29 17:15 G	43735693.99	43735694.22	43735694.47	0.0138	0.0052 *
Moon	115033-03-04 23:29 G	43736063.47	43736063.48	43736063.51	0.0137	0.0137
Mars	115043-10-23 18:41 G	43739947.99	43739948.28	43739948.58	0.0135	0.0024
Venus	115064-07-04 11:58 G	43747507.95	43747508.00	43747508.06	0.0137	0.0133
Venus	115065-02-15 18:56 G	43747734.18	43747734.29	43747734.40	0.0137	0.0117
Venus	115065-09-30 01:39 G	43747960.43	43747960.57	43747960.72	0.0138	0.0101
Venus	115066-05-14 08:36 G	43748186.71	43748186.86	43748187.05	0.0138	0.0085
Venus	115066-12-26 16:03 G	43748412.99	43748413.17	43748413.37	0.0138	0.0068
Venus	115067-08-09 23:29 G	43748639.29	43748639.48	43748639.69	0.0138	0.0051
Venus	115068-03-23 06:56 G	43748865.59	43748865.79	43748866.01	0.0138	0.0035
Mercury	115068-04-05 18:56 G	43748879.26	43748879.29	43748879.34	0.0138	0.0131
Mercury	115068-07-02 22:46 G	43748967.37	43748967.45	43748967.54	0.0138	0.0112
Mercury	115068-09-29 02:22 G	43749055.51	43749055.60	43749055.72	0.0138	0.0093
Venus	115068-11-04 14:51 G	43749091.91	43749092.12	43749092.34	0.0139	0.0017
Mercury	115068-12-26 06:27 G	43749143.65	43749143.77	43749143.89	0.0139	0.0072
Mercury	115069-03-24 10:17 G	43749231.80	43749231.93	43749232.06	0.0139	0.0053
Venus	115069-06-18 23:00 G	43749318.24	43749318.46	43749318.68	0.0139	0.0001
Mercury	115069-06-20 13:53 G	43749319.95	43749320.08	43749320.22	0.0139	0.0034
Mercury	115069-09-16 17:44 G	43749408.10	43749408.24	43749408.38	0.0139	0.0014
Mercury	115069-12-13 21:34 G	43749496.26	43749496.40	43749496.54	0.0139	0.0006

Venus	115070-01-31 06:56 G	43749544.58	43749544.79	43749545.01	0.0139	0.0019
Mercury	115070-03-12 01:10 G	43749584.42	43749584.55	43749584.69	0.0139	0.0026
Mercury	115070-06-08 04:46 G	43749672.58	43749672.70	43749672.84	0.0139	0.0045
Mercury	115070-09-04 08:36 G	43749760.74	43749760.86	43749760.98	0.0139	0.0064
Venus	115070-09-14 15:20 G	43749770.93	43749771.14	43749771.35	0.0139	0.0036
Mercury	115070-12-01 12:12 G	43749848.90	43749849.01	43749849.12	0.0139	0.0083
Mercury	115071-02-27 15:48 G	43749937.07	43749937.16	43749937.26	0.0139	0.0103
Venus	115071-04-28 23:44 G	43749997.30	43749997.49	43749997.70	0.0139	0.0055
Mercury	115071-05-26 19:24 G	43750025.25	43750025.31	43750025.38	0.0139	0.0122
Venus	115071-12-11 08:36 G	43750223.68	43750223.86	43750224.05	0.0139	0.0072
Venus	115072-07-24 17:29 G	43750450.07	43750450.23	43750450.40	0.0140	0.0090
Venus	115073-03-08 02:51 G	43750676.48	43750676.62	43750676.76	0.0140	0.0107
Venus	115073-10-20 11:44 G	43750902.91	43750902.99	43750903.10	0.0140	0.0125
Earth	115074-08-23 07:39 G	43751209.60	43751209.82	43751210.07	0.0140	0.0051
Moon	115074-08-23 11:15 G	43751209.76	43751209.97	43751210.22	0.0140	0.0058 *
Moon	115075-08-27 23:44 G	43751579.27	43751579.49	43751579.73	0.0140	0.0065
Earth	115075-08-28 03:05 G	43751579.41	43751579.63	43751579.87	0.0140	0.0057 *
Mars	115085-12-31 03:34 G	43755357.46	43755357.65	43755357.89	0.0143	0.0107
Venus	115105-06-07 00:27 G	43762454.44	43762454.52	43762454.60	0.0141	0.0130
Venus	115106-01-19 11:00 G	43762680.83	43762680.96	43762681.09	0.0140	0.0112
Venus	115106-09-02 21:20 G	43762907.23	43762907.39	43762907.55	0.0140	0.0094
Venus	115107-04-17 07:24 G	43763133.63	43763133.81	43763133.99	0.0140	0.0075
Venus	115107-11-29 17:29 G	43763360.03	43763360.23	43763360.43	0.0140	0.0057
Venus	115108-07-13 03:05 G	43763586.42	43763586.63	43763586.84	0.0140	0.0039
Mercury	115109-01-23 19:39 G	43763781.30	43763781.32	43763781.37	0.0140	0.0136
Venus	115109-02-24 12:27 G	43763812.81	43763813.02	43763813.24	0.0140	0.0021
Mercury	115109-04-22 02:22 G	43763869.50	43763869.60	43763869.72	0.0140	0.0111
Mercury	115109-07-19 09:05 G	43763957.75	43763957.88	43763958.03	0.0139	0.0086
Venus	115109-10-08 21:48 G	43764039.19	43764039.41	43764039.63	0.0139	0.0003
Mercury	115109-10-15 15:48 G	43764046.00	43764046.16	43764046.32	0.0139	0.0060

Mercury	115110-01-11 22:32 G	43764134.27	43764134.44	43764134.62	0.0139	0.0035
Mercury	115110-04-10 05:15 G	43764222.54	43764222.72	43764222.90	0.0139	0.0010
Venus	115110-05-23 06:56 G	43764265.57	43764265.79	43764266.01	0.0139	0.0015
Mercury	115110-07-07 11:58 G	43764310.82	43764311.00	43764311.18	0.0139	0.0017
Mercury	115110-10-03 18:41 G	43764399.12	43764399.28	43764399.46	0.0139	0.0042
Mercury	115110-12-31 01:24 G	43764487.42	43764487.56	43764487.73	0.0139	0.0068
Venus	115111-01-04 15:48 G	43764491.95	43764492.16	43764492.37	0.0139	0.0033
Mercury	115111-03-29 08:36 G	43764575.73	43764575.86	43764575.99	0.0139	0.0093
Mercury	115111-06-25 15:34 G	43764664.06	43764664.15	43764664.24	0.0139	0.0119
Venus	115111-08-19 00:12 G	43764718.32	43764718.51	43764718.72	0.0139	0.0051
Venus	115112-04-01 08:36 G	43764944.68	43764944.86	43764945.06	0.0139	0.0068
Venus	115112-11-13 16:46 G	43765171.04	43765171.20	43765171.39	0.0139	0.0085
Venus	115113-06-28 01:10 G	43765397.40	43765397.55	43765397.70	0.0138	0.0102
Venus	115114-02-09 08:36 G	43765623.77	43765623.86	43765623.99	0.0138	0.0118
Venus	115114-09-23 16:17 G	43765850.15	43765850.18	43765850.24	0.0138	0.0134
Earth	115115-02-26 12:41 G	43766005.80	43766006.03	43766006.27	0.0138	0.0051
Moon	115115-02-26 15:34 G	43766005.91	43766006.15	43766006.38	0.0138	0.0058 *
Moon	115116-03-01 23:00 G	43766375.24	43766375.46	43766375.69	0.0138	0.0056
Earth	115116-03-02 01:10 G	43766375.32	43766375.55	43766375.79	0.0138	0.0049 *
Mars	115128-06-18 07:10 G	43770866.69	43770866.80	43770866.98	0.0135	0.0118
Venus	115148-10-17 04:46 G	43778292.63	43778292.70	43778292.82	0.0137	0.0123
Venus	115149-05-31 12:12 G	43778518.87	43778519.01	43778519.14	0.0138	0.0106
Venus	115150-01-12 18:56 G	43778745.14	43778745.29	43778745.46	0.0138	0.0090
Venus	115150-08-27 02:08 G	43778971.41	43778971.59	43778971.78	0.0138	0.0073
Venus	115151-04-10 09:34 G	43779197.70	43779197.90	43779198.10	0.0138	0.0056
Venus	115151-11-22 17:00 G	43779424.01	43779424.21	43779424.42	0.0138	0.0039
Mercury	115152-04-27 02:22 G	43779580.55	43779580.60	43779580.67	0.0138	0.0125
Venus	115152-07-06 00:41 G	43779650.32	43779650.53	43779650.75	0.0138	0.0022
Mercury	115152-07-24 06:12 G	43779668.68	43779668.76	43779668.86	0.0138	0.0106
Mercury	115152-10-20 10:03 G	43779756.82	43779756.92	43779757.04	0.0139	0.0086

Mercury	115153-01-16 14:08 G	43779844.96	43779845.09	43779845.21	0.0139	0.0066
Venus	115153-02-17 08:22 G	43779876.64	43779876.85	43779877.07	0.0139	0.0006
Mercury	115153-04-14 17:44 G	43779933.11	43779933.24	43779933.38	0.0139	0.0046
Mercury	115153-07-11 21:34 G	43780021.26	43780021.40	43780021.54	0.0139	0.0027
Venus	115153-10-01 16:32 G	43780102.97	43780103.19	43780103.41	0.0139	0.0013
Mercury	115153-10-08 01:24 G	43780109.42	43780109.56	43780109.70	0.0139	0.0008
Mercury	115154-01-04 05:00 G	43780197.57	43780197.71	43780197.85	0.0139	0.0012
Mercury	115154-04-02 08:36 G	43780285.73	43780285.86	43780286.00	0.0139	0.0032
Venus	115154-05-16 00:41 G	43780329.33	43780329.53	43780329.75	0.0139	0.0031
Mercury	115154-06-29 12:27 G	43780373.89	43780374.02	43780374.15	0.0139	0.0051
Mercury	115154-09-25 16:03 G	43780462.06	43780462.17	43780462.29	0.0139	0.0070
Mercury	115154-12-22 19:53 G	43780550.22	43780550.33	43780550.43	0.0139	0.0090
Venus	115154-12-28 09:20 G	43780555.68	43780555.89	43780556.09	0.0139	0.0049
Mercury	115155-03-20 23:15 G	43780638.39	43780638.47	43780638.56	0.0139	0.0109
Mercury	115155-06-17 02:51 G	43780726.58	43780726.62	43780726.68	0.0139	0.0128
Venus	115155-08-11 17:44 G	43780782.05	43780782.24	43780782.44	0.0139	0.0066
Venus	115156-03-25 02:22 G	43781008.44	43781008.60	43781008.78	0.0139	0.0084
Venus	115156-11-06 11:29 G	43781234.84	43781234.98	43781235.14	0.0140	0.0102
Venus	115157-06-20 20:36 G	43781461.27	43781461.36	43781461.49	0.0140	0.0120
Venus	115158-02-02 06:27 G	43781687.74	43781687.77	43781687.82	0.0140	0.0137
Moon	115158-08-24 16:17 G	43781890.95	43781891.18	43781891.43	0.0140	0.0051
Earth	115158-08-24 20:08 G	43781891.10	43781891.34	43781891.59	0.0140	0.0043 *
Earth	115159-08-29 15:05 G	43782260.92	43782261.13	43782261.37	0.0140	0.0064
Moon	115159-08-29 18:12 G	43782261.06	43782261.26	43782261.49	0.0140	0.0072 *
Mars	115170-08-28 01:39 G	43786277.32	43786277.57	43786277.86	0.0143	0.0077
Venus	115189-02-04 06:41 G	43793012.75	43793012.78	43793012.84	0.0141	0.0137
Venus	115189-09-18 17:29 G	43793239.12	43793239.23	43793239.35	0.0141	0.0119
Venus	115190-05-03 03:48 G	43793465.52	43793465.66	43793465.82	0.0140	0.0101
Venus	115190-12-15 14:08 G	43793691.92	43793692.09	43793692.28	0.0140	0.0082
Venus	115191-07-29 23:58 G	43793918.32	43793918.50	43793918.71	0.0140	0.0064

Venus	115192-03-12 09:48 G	43794144.71	43794144.91	43794145.13	0.0140	0.0046
Venus	115192-10-24 19:24 G	43794371.11	43794371.31	43794371.54	0.0140	0.0028
Mercury	115193-02-13 02:51 G	43794482.56	43794482.62	43794482.68	0.0140	0.0130
Mercury	115193-05-12 09:05 G	43794570.78	43794570.88	43794571.01	0.0140	0.0106
Venus	115193-06-08 05:00 G	43794597.49	43794597.71	43794597.93	0.0140	0.0009
Mercury	115193-08-08 15:48 G	43794659.03	43794659.16	43794659.32	0.0139	0.0081
Mercury	115193-11-04 22:46 G	43794747.28	43794747.45	43794747.61	0.0139	0.0055
Venus	115194-01-20 14:08 G	43794823.87	43794824.09	43794824.31	0.0139	0.0009
Mercury	115194-02-01 05:29 G	43794835.55	43794835.73	43794835.90	0.0139	0.0030
Mercury	115194-04-30 12:12 G	43794923.83	43794924.01	43794924.19	0.0139	0.0004
Mercury	115194-07-27 18:56 G	43795012.11	43795012.29	43795012.47	0.0139	0.0021
Venus	115194-09-03 22:46 G	43795050.25	43795050.45	43795050.67	0.0139	0.0028
Mercury	115194-10-24 01:39 G	43795100.40	43795100.57	43795100.74	0.0139	0.0047
Mercury	115195-01-20 08:22 G	43795188.70	43795188.85	43795189.01	0.0139	0.0073
Venus	115195-04-18 07:24 G	43795276.62	43795276.81	43795277.03	0.0139	0.0045
Mercury	115195-04-18 15:05 G	43795277.02	43795277.13	43795277.27	0.0139	0.0099 *
Mercury	115195-07-15 22:03 G	43795365.35	43795365.42	43795365.51	0.0139	0.0125
Venus	115195-11-30 16:17 G	43795502.99	43795503.18	43795503.38	0.0139	0.0062
Venus	115196-07-14 00:27 G	43795729.36	43795729.52	43795729.71	0.0139	0.0080
Venus	115197-02-25 08:22 G	43795955.72	43795955.85	43795956.03	0.0138	0.0097
Venus	115197-10-09 16:46 G	43796182.08	43796182.20	43796182.33	0.0138	0.0113
Venus	115198-05-24 00:12 G	43796408.45	43796408.51	43796408.60	0.0138	0.0129
Moon	115199-02-26 19:24 G	43796687.09	43796687.31	43796687.54	0.0138	0.0055
Earth	115199-02-26 21:48 G	43796687.18	43796687.41	43796687.66	0.0138	0.0048 *
Earth	115200-03-02 10:17 G	43797056.71	43797056.93	43797057.18	0.0138	0.0053
Moon	115200-03-02 12:41 G	43797056.80	43797057.03	43797057.27	0.0138	0.0060 *
Mars	115211-03-13 08:51 G	43801084.78	43801084.87	43801085.02	0.0135	0.0124
Venus	115232-06-16 15:05 G	43808851.07	43808851.13	43808851.22	0.0137	0.0128
Venus	115233-01-28 21:48 G	43809077.30	43809077.41	43809077.55	0.0138	0.0112
Venus	115233-09-12 04:32 G	43809303.55	43809303.69	43809303.86	0.0138	0.0096

Venus	115234-04-26 11:44 G	43809529.83	43809529.99	43809530.18	0.0138	0.0079
Venus	115234-12-08 19:10 G	43809756.11	43809756.30	43809756.50	0.0138	0.0062
Venus	115235-07-23 02:22 G	43809982.40	43809982.60	43809982.81	0.0138	0.0045
Venus	115236-03-05 10:03 G	43810208.71	43810208.92	43810209.13	0.0138	0.0028
Mercury	115236-05-17 09:48 G	43810281.85	43810281.91	43810281.99	0.0138	0.0119
Mercury	115236-08-13 13:39 G	43810369.98	43810370.07	43810370.18	0.0139	0.0100
Venus	115236-10-17 17:44 G	43810435.03	43810435.24	43810435.46	0.0139	0.0010
Mercury	115236-11-09 17:29 G	43810458.12	43810458.23	43810458.35	0.0139	0.0080
Mercury	115237-02-05 21:34 G	43810546.27	43810546.40	43810546.52	0.0139	0.0060
Mercury	115237-05-05 01:10 G	43810634.42	43810634.55	43810634.69	0.0139	0.0040
Venus	115237-06-01 01:53 G	43810661.36	43810661.58	43810661.79	0.0139	0.0008
Mercury	115237-08-01 05:00 G	43810722.57	43810722.71	43810722.85	0.0139	0.0021
Mercury	115237-10-28 08:51 G	43810810.73	43810810.87	43810811.00	0.0139	0.0004
Venus	115238-01-13 09:48 G	43810887.70	43810887.91	43810888.13	0.0139	0.0025
Mercury	115238-01-24 12:27 G	43810898.88	43810899.02	43810899.16	0.0139	0.0018
Mercury	115238-04-22 16:03 G	43810987.04	43810987.17	43810987.31	0.0139	0.0038
Mercury	115238-07-19 19:53 G	43811075.20	43811075.33	43811075.46	0.0139	0.0057
Venus	115238-08-27 17:58 G	43811114.05	43811114.25	43811114.46	0.0139	0.0043
Mercury	115238-10-15 23:29 G	43811163.37	43811163.48	43811163.60	0.0139	0.0076
Mercury	115239-01-12 03:05 G	43811251.54	43811251.63	43811251.73	0.0139	0.0096
Mercury	115239-04-10 06:56 G	43811339.71	43811339.79	43811339.86	0.0139	0.0115
Venus	115239-04-11 02:36 G	43811340.42	43811340.61	43811340.81	0.0139	0.0061
Mercury	115239-07-07 10:32 G	43811427.90	43811427.94	43811427.97	0.0139	0.0134
Venus	115239-11-23 11:15 G	43811566.80	43811566.97	43811567.16	0.0139	0.0079
Venus	115240-07-06 20:08 G	43811793.20	43811793.34	43811793.51	0.0140	0.0097
Venus	115241-02-18 05:29 G	43812019.61	43812019.73	43812019.86	0.0140	0.0114
Moon	115241-08-20 09:20 G	43812202.86	43812202.89	43812202.95	0.0140	0.0137
Venus	115241-10-02 14:36 G	43812246.05	43812246.11	43812246.19	0.0140	0.0132
Earth	115242-08-25 07:24 G	43812572.57	43812572.81	43812573.06	0.0140	0.0037
Moon	115242-08-25 11:15 G	43812572.73	43812572.97	43812573.21	0.0140	0.0045 *

Moon	115243-08-29 23:44 G	43812942.27	43812942.49	43812942.70	0.0140	0.0077
Earth	115243-08-30 02:51 G	43812942.40	43812942.62	43812942.85	0.0140	0.0070 *
Venus	115273-05-19 00:56 G	43823797.46	43823797.54	43823797.65	0.0141	0.0126
Venus	115273-12-31 11:29 G	43824023.85	43824023.98	43824024.13	0.0140	0.0107
Venus	115274-08-14 21:34 G	43824250.25	43824250.40	43824250.59	0.0140	0.0090
Venus	115275-03-29 08:08 G	43824476.65	43824476.84	43824477.03	0.0140	0.0070
Venus	115275-11-10 17:58 G	43824703.05	43824703.25	43824703.46	0.0140	0.0052
Venus	115276-06-24 03:34 G	43824929.44	43824929.65	43824929.87	0.0140	0.0034
Venus	115277-02-05 13:10 G	43825155.83	43825156.05	43825156.27	0.0140	0.0015
Mercury	115277-03-05 10:17 G	43825183.85	43825183.93	43825184.01	0.0140	0.0123
Mercury	115277-06-01 16:32 G	43825272.08	43825272.19	43825272.33	0.0140	0.0099
Mercury	115277-08-28 23:15 G	43825360.33	43825360.47	43825360.63	0.0139	0.0073
Venus	115277-09-19 22:17 G	43825382.21	43825382.43	43825382.65	0.0139	0.0003
Mercury	115277-11-25 05:58 G	43825448.59	43825448.75	43825448.92	0.0139	0.0048
Mercury	115278-02-21 12:41 G	43825536.86	43825537.03	43825537.21	0.0139	0.0023
Venus	115278-05-04 07:24 G	43825608.59	43825608.81	43825609.02	0.0139	0.0021
Mercury	115278-05-20 19:24 G	43825625.13	43825625.31	43825625.49	0.0139	0.0004
Mercury	115278-08-17 02:08 G	43825713.42	43825713.59	43825713.77	0.0139	0.0029
Mercury	115278-11-13 08:51 G	43825801.71	43825801.87	43825802.05	0.0139	0.0055
Venus	115278-12-16 16:17 G	43825834.97	43825835.18	43825835.39	0.0139	0.0039
Mercury	115279-02-09 15:34 G	43825890.02	43825890.15	43825890.31	0.0139	0.0081
Mercury	115279-05-08 22:32 G	43825978.33	43825978.44	43825978.57	0.0139	0.0106
Venus	115279-07-31 00:56 G	43826061.34	43826061.54	43826061.74	0.0139	0.0056
Mercury	115279-08-05 05:15 G	43826066.68	43826066.72	43826066.79	0.0139	0.0132
Venus	115280-03-13 09:05 G	43826287.71	43826287.88	43826288.08	0.0139	0.0074
Venus	115280-10-25 17:29 G	43826514.07	43826514.23	43826514.40	0.0139	0.0091
Venus	115281-06-09 01:39 G	43826740.44	43826740.57	43826740.71	0.0138	0.0108
Venus	115282-01-21 09:20 G	43826966.82	43826966.89	43826967.00	0.0138	0.0125
Moon	115282-02-22 17:44 G	43826999.22	43826999.24	43826999.26	0.0138	0.0137
Earth	115283-02-27 08:51 G	43827368.64	43827368.87	43827369.12	0.0138	0.0042

Moon	115283-02-27 11:15 G	43827368.74	43827368.97	43827369.22	0.0138	0.0050 *
Moon	115284-03-02 19:24 G	43827738.10	43827738.31	43827738.53	0.0138	0.0065
Earth	115284-03-02 21:20 G	43827738.17	43827738.39	43827738.63	0.0138	0.0058 *
Mars	115295-11-05 23:00 G	43832003.17	43832003.46	43832003.76	0.0135	0.0021
Venus	115316-02-16 00:56 G	43839409.51	43839409.54	43839409.61	0.0137	0.0133
Venus	115316-09-29 07:24 G	43839635.72	43839635.81	43839635.94	0.0137	0.0118
Venus	115317-05-13 14:51 G	43839861.97	43839862.12	43839862.26	0.0138	0.0101
Venus	115317-12-25 21:20 G	43840088.24	43840088.39	43840088.58	0.0138	0.0085
Venus	115318-08-09 04:32 G	43840314.51	43840314.69	43840314.89	0.0138	0.0068
Venus	115319-03-23 11:44 G	43840540.80	43840540.99	43840541.20	0.0138	0.0051
Venus	115319-11-04 19:24 G	43840767.10	43840767.31	43840767.52	0.0138	0.0034
Mercury	115320-03-11 13:24 G	43840895.03	43840895.06	43840895.10	0.0138	0.0133
Mercury	115320-06-07 17:15 G	43840983.15	43840983.22	43840983.31	0.0138	0.0114
Venus	115320-06-18 03:05 G	43840993.41	43840993.63	43840993.84	0.0138	0.0016
Mercury	115320-09-03 21:05 G	43841071.29	43841071.38	43841071.49	0.0139	0.0094
Mercury	115320-12-01 01:10 G	43841159.43	43841159.55	43841159.67	0.0139	0.0074
Venus	115321-01-30 10:46 G	43841219.74	43841219.95	43841220.17	0.0139	0.0003
Mercury	115321-02-27 04:46 G	43841247.58	43841247.70	43841247.83	0.0139	0.0054
Mercury	115321-05-26 08:36 G	43841335.73	43841335.86	43841336.00	0.0139	0.0035
Mercury	115321-08-22 12:27 G	43841423.88	43841424.02	43841424.16	0.0139	0.0015
Venus	115321-09-13 18:56 G	43841446.07	43841446.29	43841446.50	0.0139	0.0019
Mercury	115321-11-18 16:03 G	43841512.04	43841512.17	43841512.31	0.0139	0.0006
Mercury	115322-02-14 19:53 G	43841600.19	43841600.33	43841600.47	0.0139	0.0024
Venus	115322-04-28 03:05 G	43841672.42	43841672.63	43841672.84	0.0139	0.0037
Mercury	115322-05-13 23:29 G	43841688.35	43841688.48	43841688.62	0.0139	0.0044
Mercury	115322-08-10 03:05 G	43841776.52	43841776.63	43841776.76	0.0139	0.0063
Mercury	115322-11-06 06:56 G	43841864.68	43841864.79	43841864.90	0.0139	0.0082
Venus	115322-12-10 11:15 G	43841898.78	43841898.97	43841899.18	0.0139	0.0055
Mercury	115323-02-02 10:32 G	43841952.85	43841952.94	43841953.04	0.0139	0.0101
Mercury	115323-05-01 14:08 G	43842041.03	43842041.09	43842041.16	0.0139	0.0121

Venus	115323-07-24 20:08 G	43842125.16	43842125.34	43842125.53	0.0139	0.0073
Venus	115324-03-07 04:46 G	43842351.55	43842351.70	43842351.87	0.0139	0.0091
Venus	115324-10-19 13:39 G	43842577.95	43842578.07	43842578.22	0.0140	0.0109
Venus	115325-06-02 23:29 G	43842804.39	43842804.48	43842804.57	0.0140	0.0126
Earth	115325-08-21 23:58 G	43842884.47	43842884.50	43842884.57	0.0140	0.0137
Moon	115325-08-22 03:48 G	43842884.58	43842884.66	43842884.76	0.0140	0.0130
Jupiter	115325-11-10 19:39 G	43842964.82	43842965.32	43842965.83	0.0140	0.0014
Moon	115326-08-26 15:20 G	43843253.89	43843254.14	43843254.39	0.0140	0.0039
Earth	115326-08-26 18:56 G	43843254.05	43843254.29	43843254.54	0.0140	0.0031 *
Earth	115327-08-31 14:08 G	43843623.88	43843624.09	43843624.31	0.0140	0.0076
Moon	115327-08-31 17:00 G	43843624.03	43843624.21	43843624.43	0.0140	0.0084 *
Mars	115338-01-14 03:48 G	43847412.37	43847412.66	43847412.97	0.0143	0.0049
Venus	115357-01-17 07:39 G	43854355.76	43854355.82	43854355.91	0.0141	0.0133
Venus	115357-08-31 18:12 G	43854582.15	43854582.26	43854582.40	0.0141	0.0115
Venus	115358-04-15 04:32 G	43854808.55	43854808.69	43854808.87	0.0140	0.0097
Venus	115358-11-27 15:05 G	43855034.95	43855035.13	43855035.32	0.0140	0.0078
Venus	115359-07-12 00:56 G	43855261.35	43855261.54	43855261.75	0.0140	0.0059
Venus	115360-02-23 10:46 G	43855487.74	43855487.95	43855488.16	0.0140	0.0041
Venus	115360-10-06 20:22 G	43855714.14	43855714.35	43855714.57	0.0140	0.0022
Mercury	115361-03-26 17:00 G	43855885.13	43855885.21	43855885.32	0.0140	0.0117
Venus	115361-05-21 05:44 G	43855940.52	43855940.74	43855940.96	0.0140	0.0004
Mercury	115361-06-22 23:29 G	43855973.36	43855973.48	43855973.63	0.0139	0.0093
Mercury	115361-09-19 06:12 G	43856061.61	43856061.76	43856061.93	0.0139	0.0068
Mercury	115361-12-16 12:56 G	43856149.88	43856150.04	43856150.22	0.0139	0.0042
Venus	115362-01-02 14:51 G	43856166.91	43856167.12	43856167.34	0.0139	0.0015
Mercury	115362-03-14 19:39 G	43856238.15	43856238.32	43856238.50	0.0139	0.0017
Mercury	115362-06-11 02:22 G	43856326.43	43856326.60	43856326.79	0.0139	0.0010
Venus	115362-08-16 23:58 G	43856393.29	43856393.50	43856393.71	0.0139	0.0032
Mercury	115362-09-07 09:20 G	43856414.71	43856414.89	43856415.06	0.0139	0.0034
Mercury	115362-12-04 15:48 G	43856503.01	43856503.16	43856503.33	0.0139	0.0061

Mercury	115363-03-02 22:46 G	43856591.31	43856591.45	43856591.60	0.0139	0.0086
Venus	115363-03-31 08:36 G	43856619.66	43856619.86	43856620.07	0.0139	0.0050
Mercury	115363-05-30 05:29 G	43856679.64	43856679.73	43856679.85	0.0139	0.0112
Mercury	115363-08-26 12:12 G	43856768.01	43856768.01	43856768.05	0.0139	0.0138
Venus	115363-11-12 17:15 G	43856846.04	43856846.22	43856846.42	0.0139	0.0068
Venus	115364-06-26 01:39 G	43857072.41	43857072.57	43857072.75	0.0139	0.0085
Venus	115365-02-07 09:34 G	43857298.77	43857298.90	43857299.06	0.0138	0.0103
Venus	115365-09-21 17:58 G	43857525.14	43857525.25	43857525.36	0.0138	0.0119
Earth	115366-02-24 05:29 G	43857680.73	43857680.73	43857680.75	0.0138	0.0138
Moon	115366-02-24 07:24 G	43857680.76	43857680.81	43857680.91	0.0138	0.0132
Venus	115366-05-06 01:24 G	43857751.54	43857751.56	43857751.62	0.0138	0.0136
Moon	115367-02-28 16:32 G	43858049.97	43858050.19	43858050.43	0.0138	0.0045
Earth	115367-02-28 18:41 G	43858050.05	43858050.28	43858050.54	0.0138	0.0038 *
Earth	115368-03-04 07:24 G	43858419.60	43858419.81	43858420.05	0.0138	0.0063
Moon	115368-03-04 09:20 G	43858419.69	43858419.89	43858420.14	0.0138	0.0070 *
Venus	115400-05-30 17:00 G	43870194.14	43870194.21	43870194.32	0.0137	0.0124
Venus	115401-01-12 00:12 G	43870420.37	43870420.51	43870420.64	0.0138	0.0107
Venus	115401-08-26 06:41 G	43870646.63	43870646.78	43870646.95	0.0138	0.0091
Venus	115402-04-09 13:39 G	43870872.90	43870873.07	43870873.26	0.0138	0.0074
Venus	115402-11-21 20:51 G	43871099.18	43871099.37	43871099.58	0.0138	0.0057
Venus	115403-07-06 04:17 G	43871325.48	43871325.68	43871325.89	0.0138	0.0040
Venus	115404-02-17 11:44 G	43871551.78	43871551.99	43871552.21	0.0138	0.0023
Mercury	115404-04-01 20:51 G	43871596.32	43871596.37	43871596.42	0.0138	0.0128
Mercury	115404-06-29 00:27 G	43871684.45	43871684.52	43871684.62	0.0138	0.0109
Mercury	115404-09-25 04:32 G	43871772.58	43871772.69	43871772.80	0.0139	0.0088
Venus	115404-09-30 19:39 G	43871778.10	43871778.32	43871778.53	0.0139	0.0005
Mercury	115404-12-22 08:22 G	43871860.73	43871860.85	43871860.97	0.0139	0.0069
Mercury	115405-03-20 12:12 G	43871948.88	43871949.01	43871949.14	0.0139	0.0049
Venus	115405-05-15 03:34 G	43872004.44	43872004.65	43872004.87	0.0139	0.0013
Mercury	115405-06-16 15:48 G	43872037.03	43872037.16	43872037.30	0.0139	0.0030

Mercury	115405-09-12 19:39 G	43872125.18	43872125.32	43872125.46	0.0139	0.0010
Mercury	115405-12-09 23:29 G	43872213.34	43872213.48	43872213.62	0.0139	0.0010
Venus	115405-12-27 11:44 G	43872230.78	43872230.99	43872231.20	0.0139	0.0031
Mercury	115406-03-08 03:05 G	43872301.50	43872301.63	43872301.77	0.0139	0.0030
Mercury	115406-06-04 06:56 G	43872389.66	43872389.79	43872389.92	0.0139	0.0049
Venus	115406-08-10 19:53 G	43872457.13	43872457.33	43872457.54	0.0139	0.0049
Mercury	115406-08-31 10:32 G	43872477.82	43872477.94	43872478.06	0.0139	0.0068
Mercury	115406-11-27 14:08 G	43872565.99	43872566.09	43872566.20	0.0139	0.0087
Mercury	115407-02-23 17:58 G	43872654.16	43872654.25	43872654.34	0.0139	0.0106
Venus	115407-03-25 04:17 G	43872683.50	43872683.68	43872683.88	0.0139	0.0067
Mercury	115407-05-22 21:34 G	43872742.35	43872742.40	43872742.46	0.0139	0.0126
Venus	115407-11-06 13:10 G	43872909.88	43872910.05	43872910.23	0.0139	0.0085
Venus	115408-06-19 22:03 G	43873136.29	43873136.42	43873136.58	0.0140	0.0103
Venus	115409-02-01 07:10 G	43873362.71	43873362.80	43873362.92	0.0140	0.0121
Moon	115409-08-23 07:10 G	43873565.70	43873565.80	43873565.93	0.0140	0.0125
Earth	115409-08-23 11:15 G	43873565.88	43873565.97	43873566.05	0.0140	0.0131 *
Venus	115409-09-15 16:46 G	43873589.17	43873589.20	43873589.23	0.0140	0.0138
Earth	115410-08-28 05:29 G	43873935.48	43873935.73	43873935.98	0.0140	0.0026
Moon	115410-08-28 09:05 G	43873935.64	43873935.88	43873936.13	0.0140	0.0034 *
Moon	115411-09-01 20:51 G	43874305.19	43874305.37	43874305.59	0.0140	0.0089
Earth	115411-09-02 00:12 G	43874305.32	43874305.51	43874305.74	0.0140	0.0082 *
Mars	115422-09-10 23:44 G	43878332.39	43878332.49	43878332.62	0.0143	0.0133
Venus	115440-09-17 14:22 G	43884914.09	43884914.10	43884914.14	0.0141	0.0140
Venus	115441-05-02 01:10 G	43885140.45	43885140.55	43885140.67	0.0141	0.0122
Venus	115441-12-14 11:58 G	43885366.85	43885367.00	43885367.15	0.0140	0.0103
Venus	115442-07-28 22:03 G	43885593.25	43885593.42	43885593.60	0.0140	0.0085
Venus	115443-03-12 08:08 G	43885819.65	43885819.84	43885820.04	0.0140	0.0066
Venus	115443-10-24 18:12 G	43886046.06	43886046.26	43886046.47	0.0140	0.0047
Venus	115444-06-07 03:48 G	43886272.45	43886272.66	43886272.88	0.0140	0.0029
Mercury	115445-01-18 17:44 G	43886498.21	43886498.24	43886498.29	0.0140	0.0136

Venus	115445-01-19 13:24 G	43886498.84	43886499.06	43886499.28	0.0140	0.0010
Mercury	115445-04-17 00:27 G	43886586.41	43886586.52	43886586.63	0.0140	0.0111
Mercury	115445-07-14 06:56 G	43886674.65	43886674.79	43886674.93	0.0139	0.0086
Venus	115445-09-02 22:46 G	43886725.23	43886725.45	43886725.67	0.0139	0.0008
Mercury	115445-10-10 13:39 G	43886762.91	43886763.07	43886763.23	0.0139	0.0061
Mercury	115446-01-06 20:22 G	43886851.17	43886851.35	43886851.52	0.0139	0.0036
Mercury	115446-04-05 02:51 G	43886939.45	43886939.62	43886939.80	0.0139	0.0011
Venus	115446-04-17 07:39 G	43886951.61	43886951.82	43886952.04	0.0139	0.0026
Mercury	115446-07-02 09:34 G	43887027.73	43887027.90	43887028.08	0.0139	0.0016
Mercury	115446-09-28 16:17 G	43887116.01	43887116.18	43887116.36	0.0139	0.0041
Venus	115446-11-29 16:46 G	43887178.00	43887178.20	43887178.41	0.0139	0.0044
Mercury	115446-12-25 23:15 G	43887204.31	43887204.47	43887204.63	0.0139	0.0067
Mercury	115447-03-24 05:58 G	43887292.62	43887292.75	43887292.89	0.0139	0.0092
Mercury	115447-06-20 12:56 G	43887380.95	43887381.04	43887381.14	0.0139	0.0118
Venus	115447-07-14 01:24 G	43887404.37	43887404.56	43887404.76	0.0139	0.0062
Venus	115448-02-25 09:48 G	43887630.75	43887630.91	43887631.10	0.0139	0.0080
Venus	115448-10-08 18:12 G	43887857.12	43887857.26	43887857.43	0.0139	0.0097
Venus	115449-05-23 02:22 G	43888083.49	43888083.60	43888083.74	0.0138	0.0114
Venus	115450-01-04 10:32 G	43888309.88	43888309.94	43888310.02	0.0138	0.0130
Moon	115450-02-25 14:22 G	43888362.02	43888362.10	43888362.20	0.0138	0.0127
Earth	115450-02-25 15:48 G	43888362.12	43888362.16	43888362.25	0.0138	0.0134 *
Jupiter	115450-11-15 12:56 G	43888624.64	43888625.04	43888625.53	0.0138	0.0076
Earth	115451-03-02 05:44 G	43888731.50	43888731.74	43888731.99	0.0138	0.0032
Moon	115451-03-02 08:08 G	43888731.59	43888731.84	43888732.09	0.0138	0.0040 *
Moon	115452-03-05 16:17 G	43889100.99	43889101.18	43889101.40	0.0138	0.0075
Earth	115452-03-05 18:12 G	43889101.06	43889101.26	43889101.50	0.0138	0.0068 *
Mars	115463-03-27 11:15 G	43893139.75	43893139.97	43893140.24	0.0135	0.0077
Venus	115484-01-29 02:51 G	43900752.55	43900752.62	43900752.69	0.0137	0.0129
Venus	115484-09-11 09:20 G	43900978.77	43900978.89	43900979.02	0.0137	0.0113
Venus	115485-04-25 16:03 G	43901205.03	43901205.17	43901205.33	0.0138	0.0097

Venus	115485-12-07 23:00 G	43901431.29	43901431.46	43901431.64	0.0138	0.0080
Venus	115486-07-22 05:58 G	43901657.57	43901657.75	43901657.95	0.0138	0.0063
Venus	115487-03-05 13:10 G	43901883.85	43901884.05	43901884.26	0.0138	0.0046
Venus	115487-10-17 20:51 G	43902110.16	43902110.37	43902110.58	0.0138	0.0028
Mercury	115488-04-22 04:03 G	43902297.61	43902297.67	43902297.74	0.0138	0.0123
Venus	115488-05-31 04:32 G	43902336.47	43902336.69	43902336.91	0.0138	0.0011
Mercury	115488-07-19 07:53 G	43902385.74	43902385.83	43902385.93	0.0138	0.0103
Mercury	115488-10-15 11:44 G	43902473.88	43902473.99	43902474.11	0.0138	0.0083
Mercury	115489-01-11 15:34 G	43902562.03	43902562.15	43902562.28	0.0139	0.0063
Venus	115489-01-12 12:12 G	43902562.80	43902563.01	43902563.23	0.0139	0.0008
Mercury	115489-04-09 19:24 G	43902650.18	43902650.31	43902650.45	0.0139	0.0044
Mercury	115489-07-06 23:15 G	43902738.33	43902738.47	43902738.61	0.0139	0.0024
Venus	115489-08-26 20:22 G	43902789.14	43902789.35	43902789.56	0.0139	0.0025
Mercury	115489-10-03 03:05 G	43902826.49	43902826.63	43902826.77	0.0139	0.0004
Mercury	115489-12-30 06:41 G	43902914.65	43902914.78	43902914.92	0.0139	0.0016
Mercury	115490-03-28 10:32 G	43903002.81	43903002.94	43903003.07	0.0139	0.0035
Venus	115490-04-10 04:32 G	43903015.48	43903015.69	43903015.90	0.0139	0.0043
Mercury	115490-06-24 14:08 G	43903090.97	43903091.09	43903091.22	0.0139	0.0054
Mercury	115490-09-20 17:58 G	43903179.13	43903179.25	43903179.37	0.0139	0.0073
Venus	115490-11-22 12:41 G	43903241.85	43903242.03	43903242.24	0.0139	0.0061
Mercury	115490-12-17 21:20 G	43903267.30	43903267.39	43903267.50	0.0139	0.0093
Mercury	115491-03-16 01:10 G	43903355.48	43903355.55	43903355.64	0.0139	0.0112
Mercury	115491-06-12 04:46 G	43903443.66	43903443.70	43903443.75	0.0139	0.0131
Venus	115491-07-06 21:20 G	43903468.23	43903468.39	43903468.58	0.0139	0.0080
Venus	115492-02-18 06:12 G	43903694.62	43903694.76	43903694.93	0.0139	0.0097
Venus	115492-10-01 15:20 G	43903921.03	43903921.14	43903921.27	0.0140	0.0115
Venus	115493-05-16 00:27 G	43904147.47	43904147.52	43904147.60	0.0140	0.0133
Earth	115493-08-23 21:34 G	43904247.30	43904247.40	43904247.51	0.0140	0.0126
Moon	115493-08-24 00:56 G	43904247.43	43904247.54	43904247.69	0.0140	0.0119 *
Moon	115494-08-28 12:27 G	43904616.77	43904617.02	43904617.27	0.0140	0.0028

Earth	115494-08-28 16:03 G	43904616.92	43904617.17	43904617.43	0.0140	0.0021	*
Earth	115495-09-02 10:32 G	43904986.76	43904986.94	43904987.16	0.0140	0.0087	
Moon	115495-09-02 14:22 G	43904986.91	43904987.10	43904987.29	0.0140	0.0093	*
Venus	115524-12-31 06:56 G	43915698.72	43915698.79	43915698.90	0.0141	0.0129	
Venus	115525-08-14 17:29 G	43915925.11	43915925.23	43915925.38	0.0141	0.0111	
Venus	115526-03-29 04:03 G	43916151.51	43916151.67	43916151.84	0.0140	0.0092	
Venus	115526-11-10 14:22 G	43916377.92	43916378.10	43916378.30	0.0140	0.0073	
Venus	115527-06-25 00:12 G	43916604.32	43916604.51	43916604.73	0.0140	0.0055	
Venus	115528-02-06 10:17 G	43916830.72	43916830.93	43916831.14	0.0140	0.0036	
Venus	115528-09-19 19:53 G	43917057.11	43917057.33	43917057.55	0.0140	0.0017	
Mercury	115529-02-09 00:27 G	43917199.47	43917199.52	43917199.59	0.0140	0.0131	
Venus	115529-05-04 05:15 G	43917283.51	43917283.72	43917283.94	0.0139	0.0003	
Mercury	115529-05-08 07:10 G	43917287.69	43917287.80	43917287.91	0.0139	0.0106	
Mercury	115529-08-04 13:24 G	43917375.93	43917376.06	43917376.22	0.0139	0.0082	
Mercury	115529-10-31 20:08 G	43917464.19	43917464.34	43917464.51	0.0139	0.0056	
Venus	115529-12-16 14:36 G	43917509.90	43917510.11	43917510.33	0.0139	0.0020	
Mercury	115530-01-28 02:51 G	43917552.45	43917552.62	43917552.80	0.0139	0.0031	
Mercury	115530-04-26 09:34 G	43917640.72	43917640.90	43917641.08	0.0139	0.0006	
Mercury	115530-07-23 16:17 G	43917729.01	43917729.18	43917729.36	0.0139	0.0021	
Venus	115530-07-30 23:44 G	43917736.28	43917736.49	43917736.70	0.0139	0.0038	
Mercury	115530-10-19 23:00 G	43917817.30	43917817.46	43917817.64	0.0139	0.0046	
Mercury	115531-01-16 05:44 G	43917905.59	43917905.74	43917905.90	0.0139	0.0072	
Venus	115531-03-14 08:22 G	43917962.66	43917962.85	43917963.06	0.0139	0.0056	
Mercury	115531-04-14 12:41 G	43917993.91	43917994.03	43917994.16	0.0139	0.0097	
Mercury	115531-07-11 19:39 G	43918082.24	43918082.32	43918082.40	0.0139	0.0123	
Venus	115531-10-26 17:00 G	43918189.04	43918189.21	43918189.41	0.0139	0.0074	
Venus	115532-06-09 01:39 G	43918415.42	43918415.57	43918415.75	0.0139	0.0091	
Venus	115533-01-21 10:17 G	43918641.80	43918641.93	43918642.07	0.0138	0.0108	
Venus	115533-09-04 18:27 G	43918868.18	43918868.27	43918868.36	0.0138	0.0125	
Earth	115534-02-27 00:56 G	43919043.48	43919043.54	43919043.64	0.0138	0.0130	

Moon	115534-02-27 03:05 G	43919043.52	43919043.63	43919043.75	0.0138	0.0123	*
Moon	115535-03-03 12:41 G	43919412.80	43919413.03	43919413.27	0.0138	0.0037	
Earth	115535-03-03 14:51 G	43919412.87	43919413.12	43919413.37	0.0138	0.0029	*
Earth	115536-03-07 03:05 G	43919782.43	43919782.63	43919782.87	0.0138	0.0071	
Moon	115536-03-07 05:15 G	43919782.51	43919782.72	43919782.95	0.0138	0.0077	*
Mars	115547-11-20 23:58 G	43924058.25	43924058.50	43924058.77	0.0135	0.0066	
Venus	115567-09-29 12:12 G	43931310.98	43931311.01	43931311.06	0.0137	0.0134	
Venus	115568-05-12 18:41 G	43931537.19	43931537.28	43931537.40	0.0137	0.0119	
Venus	115568-12-25 01:10 G	43931763.43	43931763.55	43931763.71	0.0137	0.0103	
Venus	115569-08-08 08:08 G	43931989.68	43931989.84	43931990.02	0.0138	0.0086	
Venus	115570-03-22 15:05 G	43932215.95	43932216.13	43932216.32	0.0138	0.0069	
Venus	115570-11-03 22:17 G	43932442.24	43932442.43	43932442.64	0.0138	0.0052	
Venus	115571-06-18 05:44 G	43932668.53	43932668.74	43932668.95	0.0138	0.0034	
Venus	115572-01-30 13:10 G	43932894.84	43932895.05	43932895.27	0.0138	0.0017	
Mercury	115572-02-15 07:10 G	43932910.80	43932910.80	43932910.83	0.0138	0.0138	
Mercury	115572-05-13 11:15 G	43932998.90	43932998.97	43932999.05	0.0138	0.0117	
Mercury	115572-08-09 15:05 G	43933087.04	43933087.13	43933087.24	0.0138	0.0097	
Venus	115572-09-12 21:05 G	43933121.16	43933121.38	43933121.59	0.0138	0.0002	
Mercury	115572-11-05 18:56 G	43933175.18	43933175.29	43933175.41	0.0138	0.0078	
Mercury	115573-02-01 23:00 G	43933263.33	43933263.46	43933263.59	0.0138	0.0058	
Venus	115573-04-27 05:00 G	43933347.50	43933347.71	43933347.93	0.0139	0.0019	
Mercury	115573-05-01 02:36 G	43933351.48	43933351.61	43933351.75	0.0139	0.0039	
Mercury	115573-07-28 06:27 G	43933439.64	43933439.77	43933439.91	0.0139	0.0019	
Mercury	115573-10-24 10:17 G	43933527.79	43933527.93	43933528.07	0.0139	0.0003	
Venus	115573-12-09 13:10 G	43933573.84	43933574.05	43933574.26	0.0139	0.0037	
Mercury	115574-01-20 14:08 G	43933615.95	43933616.09	43933616.23	0.0139	0.0021	
Mercury	115574-04-18 17:44 G	43933704.11	43933704.24	43933704.38	0.0139	0.0040	
Mercury	115574-07-15 21:20 G	43933792.27	43933792.39	43933792.52	0.0139	0.0060	
Venus	115574-07-23 21:20 G	43933800.20	43933800.39	43933800.60	0.0139	0.0055	
Mercury	115574-10-12 01:10 G	43933880.44	43933880.55	43933880.67	0.0139	0.0079	

Mercury	115575-01-08 04:46 G	43933968.61	43933968.70	43933968.80	0.0139	0.0098
Venus	115575-03-07 05:44 G	43934026.57	43934026.74	43934026.93	0.0139	0.0073
Mercury	115575-04-06 08:36 G	43934056.79	43934056.86	43934056.93	0.0139	0.0117
Mercury	115575-07-03 12:12 G	43934144.99	43934145.01	43934145.04	0.0139	0.0136
Venus	115575-10-19 14:22 G	43934252.95	43934253.10	43934253.28	0.0139	0.0092
Venus	115576-06-01 23:15 G	43934479.36	43934479.47	43934479.62	0.0139	0.0110
Venus	115577-01-14 08:22 G	43934705.78	43934705.85	43934705.95	0.0140	0.0128
Moon	115577-08-25 03:48 G	43934928.54	43934928.66	43934928.82	0.0140	0.0115
Earth	115577-08-25 07:24 G	43934928.71	43934928.81	43934928.96	0.0140	0.0122 *
Earth	115578-08-30 02:08 G	43935298.34	43935298.59	43935298.85	0.0140	0.0016
Moon	115578-08-30 05:44 G	43935298.49	43935298.74	43935299.00	0.0140	0.0024 *
Moon	115579-09-03 17:00 G	43935668.05	43935668.21	43935668.42	0.0140	0.0098
Earth	115579-09-03 20:36 G	43935668.18	43935668.36	43935668.57	0.0140	0.0091 *
Mars	115590-01-27 21:34 G	43939467.08	43939467.40	43939467.72	0.0142	0.0002
Venus	115608-08-30 12:56 G	43946257.00	43946257.04	43946257.11	0.0141	0.0136
Venus	115609-04-13 23:29 G	43946483.38	43946483.48	43946483.62	0.0141	0.0118
Venus	115609-11-26 10:32 G	43946709.79	43946709.94	43946710.10	0.0140	0.0099
Venus	115610-07-10 20:36 G	43946936.19	43946936.36	43946936.55	0.0140	0.0081
Venus	115611-02-22 06:56 G	43947162.59	43947162.79	43947162.99	0.0140	0.0062
Venus	115611-10-06 16:46 G	43947389.00	43947389.20	43947389.42	0.0140	0.0043
Venus	115612-05-20 02:36 G	43947615.40	43947615.61	43947615.83	0.0140	0.0024
Venus	115613-01-01 12:12 G	43947841.80	43947842.01	43947842.23	0.0140	0.0006
Mercury	115613-03-01 07:10 G	43947900.74	43947900.80	43947900.89	0.0140	0.0126
Mercury	115613-05-28 13:53 G	43947988.96	43947989.08	43947989.21	0.0139	0.0101
Venus	115613-08-15 21:34 G	43948068.19	43948068.40	43948068.62	0.0139	0.0013
Mercury	115613-08-24 20:22 G	43948077.21	43948077.35	43948077.51	0.0139	0.0076
Mercury	115613-11-21 03:05 G	43948165.47	43948165.63	43948165.80	0.0139	0.0050
Mercury	115614-02-17 09:48 G	43948253.74	43948253.91	43948254.09	0.0139	0.0025
Venus	115614-03-30 06:56 G	43948294.58	43948294.79	43948295.00	0.0139	0.0031
Mercury	115614-05-16 16:32 G	43948342.01	43948342.19	43948342.37	0.0139	0.0001

Mercury	115614-08-12 23:15 G	43948430.29	43948430.47	43948430.65	0.0139	0.0026
Mercury	115614-11-09 05:58 G	43948518.59	43948518.75	43948518.92	0.0139	0.0051
Venus	115614-11-11 15:48 G	43948520.97	43948521.16	43948521.37	0.0139	0.0050
Mercury	115615-02-05 12:41 G	43948606.89	43948607.03	43948607.19	0.0139	0.0077
Mercury	115615-05-04 19:24 G	43948695.20	43948695.31	43948695.44	0.0139	0.0103
Venus	115615-06-26 00:41 G	43948747.35	43948747.53	43948747.73	0.0139	0.0068
Mercury	115615-08-01 02:22 G	43948783.54	43948783.60	43948783.67	0.0139	0.0129
Venus	115616-02-07 09:34 G	43948973.73	43948973.90	43948974.07	0.0139	0.0085
Venus	115616-09-20 17:44 G	43949200.10	43949200.24	43949200.39	0.0139	0.0103
Venus	115617-05-05 01:53 G	43949426.49	43949426.58	43949426.70	0.0138	0.0120
Venus	115617-12-17 10:03 G	43949652.90	43949652.92	43949652.97	0.0138	0.0136
Moon	115618-02-27 08:36 G	43949724.76	43949724.86	43949725.00	0.0138	0.0121
Earth	115618-02-27 10:32 G	43949724.85	43949724.94	43949725.05	0.0138	0.0127 *
Earth	115619-03-03 23:58 G	43950094.26	43950094.50	43950094.76	0.0138	0.0026
Moon	115619-03-04 01:53 G	43950094.34	43950094.58	43950094.84	0.0138	0.0034 *
Moon	115620-03-07 11:00 G	43950463.77	43950463.96	43950464.17	0.0138	0.0081
Earth	115620-03-07 12:41 G	43950463.83	43950464.03	43950464.25	0.0138	0.0074 *
Venus	115652-01-11 04:03 G	43962095.60	43962095.67	43962095.77	0.0137	0.0125
Venus	115652-08-24 10:32 G	43962321.83	43962321.94	43962322.09	0.0137	0.0109
Venus	115653-04-07 17:29 G	43962548.08	43962548.23	43962548.40	0.0138	0.0092
Venus	115653-11-20 00:27 G	43962774.35	43962774.52	43962774.71	0.0138	0.0075
Venus	115654-07-04 07:24 G	43963000.62	43963000.81	43963001.02	0.0138	0.0058
Venus	115655-02-15 14:51 G	43963226.91	43963227.12	43963227.33	0.0138	0.0040
Venus	115655-09-29 22:17 G	43963453.22	43963453.43	43963453.64	0.0138	0.0023
Mercury	115656-03-06 14:36 G	43963612.08	43963612.11	43963612.16	0.0138	0.0132
Venus	115656-05-13 06:12 G	43963679.54	43963679.76	43963679.97	0.0138	0.0005
Mercury	115656-06-02 18:41 G	43963700.20	43963700.28	43963700.36	0.0138	0.0111
Mercury	115656-08-29 22:32 G	43963788.34	43963788.44	43963788.55	0.0138	0.0092
Mercury	115656-11-26 02:22 G	43963876.48	43963876.60	43963876.72	0.0138	0.0072
Venus	115656-12-25 13:53 G	43963905.87	43963906.08	43963906.30	0.0138	0.0013

Mercury	115657-02-22 06:12 G	43963964.63	43963964.76	43963964.89	0.0139	0.0052
Mercury	115657-05-21 10:03 G	43964052.79	43964052.92	43964053.06	0.0139	0.0032
Venus	115657-08-08 21:48 G	43964132.20	43964132.41	43964132.63	0.0139	0.0031
Mercury	115657-08-17 13:53 G	43964140.94	43964141.08	43964141.22	0.0139	0.0013
Mercury	115657-11-13 17:44 G	43964229.10	43964229.24	43964229.38	0.0139	0.0007
Mercury	115658-02-09 21:20 G	43964317.26	43964317.39	43964317.53	0.0139	0.0027
Venus	115658-03-23 05:58 G	43964358.55	43964358.75	43964358.96	0.0139	0.0049
Mercury	115658-05-09 01:10 G	43964405.42	43964405.55	43964405.68	0.0139	0.0046
Mercury	115658-08-05 04:46 G	43964493.58	43964493.70	43964493.83	0.0139	0.0065
Mercury	115658-11-01 08:36 G	43964581.75	43964581.86	43964581.97	0.0139	0.0084
Venus	115658-11-04 14:08 G	43964584.92	43964585.09	43964585.30	0.0139	0.0068
Mercury	115659-01-28 11:58 G	43964669.92	43964670.00	43964670.10	0.0139	0.0104
Mercury	115659-04-26 15:48 G	43964758.11	43964758.16	43964758.23	0.0139	0.0123
Venus	115659-06-18 23:15 G	43964811.30	43964811.47	43964811.64	0.0139	0.0086
Venus	115660-01-31 07:53 G	43965037.69	43965037.83	43965037.98	0.0139	0.0104
Venus	115660-09-13 16:32 G	43965264.10	43965264.19	43965264.31	0.0140	0.0122
Venus	115661-04-28 01:53 G	43965490.58	43965490.58	43965490.59	0.0140	0.0140
Earth	115661-08-25 17:58 G	43965610.13	43965610.25	43965610.41	0.0140	0.0117
Moon	115661-08-25 21:48 G	43965610.27	43965610.41	43965610.58	0.0140	0.0109 *
Moon	115662-08-30 08:51 G	43965979.62	43965979.87	43965980.13	0.0140	0.0019
Earth	115662-08-30 12:41 G	43965979.77	43965980.03	43965980.28	0.0140	0.0011 *
Earth	115663-09-04 06:56 G	43966349.62	43966349.79	43966350.00	0.0140	0.0096
Moon	115663-09-04 10:32 G	43966349.78	43966349.94	43966350.13	0.0140	0.0101 *
Venus	115692-12-12 05:29 G	43977041.65	43977041.73	43977041.85	0.0141	0.0125
Venus	115693-07-26 16:03 G	43977268.04	43977268.17	43977268.33	0.0141	0.0107
Venus	115694-03-10 02:36 G	43977494.45	43977494.61	43977494.79	0.0140	0.0088
Venus	115694-10-22 12:41 G	43977720.86	43977721.03	43977721.24	0.0140	0.0070
Venus	115695-06-05 23:00 G	43977947.26	43977947.46	43977947.67	0.0140	0.0050
Venus	115696-01-18 09:05 G	43978173.66	43978173.88	43978174.09	0.0140	0.0031
Venus	115696-08-31 18:41 G	43978400.06	43978400.28	43978400.50	0.0140	0.0012

Mercury	115697-03-21 13:53 G	43978602.00	43978602.08	43978602.18	0.0139	0.0121
Venus	115697-04-15 04:17 G	43978626.46	43978626.68	43978626.90	0.0139	0.0007
Mercury	115697-06-17 20:36 G	43978690.24	43978690.36	43978690.49	0.0139	0.0096
Mercury	115697-09-14 03:05 G	43978778.48	43978778.63	43978778.79	0.0139	0.0071
Venus	115697-11-27 13:39 G	43978852.86	43978853.07	43978853.29	0.0139	0.0025
Mercury	115697-12-11 09:48 G	43978866.74	43978866.91	43978867.08	0.0139	0.0046
Mercury	115698-03-09 16:32 G	43978955.01	43978955.19	43978955.37	0.0139	0.0020
Mercury	115698-06-05 23:15 G	43979043.29	43979043.47	43979043.65	0.0139	0.0005
Venus	115698-07-11 22:46 G	43979079.24	43979079.45	43979079.66	0.0139	0.0043
Mercury	115698-09-02 05:44 G	43979131.57	43979131.74	43979131.92	0.0139	0.0031
Mercury	115698-11-29 12:41 G	43979219.87	43979220.03	43979220.20	0.0139	0.0056
Venus	115699-02-23 07:39 G	43979305.63	43979305.82	43979306.02	0.0139	0.0061
Mercury	115699-02-25 19:24 G	43979308.17	43979308.31	43979308.46	0.0139	0.0082
Mercury	115699-05-25 02:08 G	43979396.49	43979396.59	43979396.71	0.0139	0.0108
Mercury	115699-08-21 08:51 G	43979484.84	43979484.87	43979484.93	0.0139	0.0134
Venus	115699-10-07 16:17 G	43979532.01	43979532.18	43979532.37	0.0139	0.0079
Venus	115700-05-22 00:41 G	43979758.39	43979758.53	43979758.70	0.0139	0.0097
Venus	115701-01-03 09:20 G	43979984.78	43979984.89	43979985.02	0.0138	0.0114
Venus	115701-08-17 17:29 G	43980211.17	43980211.23	43980211.31	0.0138	0.0131
Earth	115702-02-28 18:41 G	43980406.19	43980406.28	43980406.40	0.0138	0.0124
Moon	115702-02-28 20:22 G	43980406.22	43980406.35	43980406.50	0.0138	0.0118 *
Moon	115703-03-05 06:41 G	43980775.54	43980775.78	43980776.02	0.0138	0.0031
Earth	115703-03-05 08:22 G	43980775.60	43980775.85	43980776.10	0.0138	0.0024 *
Earth	115704-03-08 20:51 G	43981145.17	43981145.37	43981145.59	0.0138	0.0076
Moon	115704-03-08 22:03 G	43981145.23	43981145.42	43981145.65	0.0138	0.0083 *
Mars	115715-04-10 09:20 G	43985194.61	43985194.89	43985195.18	0.0136	0.0039
Venus	115735-09-11 13:24 G	43992654.01	43992654.06	43992654.14	0.0137	0.0130
Venus	115736-04-24 19:53 G	43992880.23	43992880.33	43992880.47	0.0137	0.0115
Venus	115736-12-07 02:51 G	43993106.48	43993106.62	43993106.78	0.0138	0.0098
Venus	115737-07-21 09:34 G	43993332.74	43993332.90	43993333.08	0.0138	0.0081

Venus	115738-03-04 16:32 G	43993559.01	43993559.19	43993559.39	0.0138	0.0064
Venus	115738-10-16 23:58 G	43993785.30	43993785.50	43993785.70	0.0138	0.0046
Venus	115739-05-31 07:24 G	43994011.60	43994011.81	43994012.02	0.0138	0.0029
Venus	115740-01-12 14:51 G	43994237.91	43994238.12	43994238.34	0.0138	0.0012
Mercury	115740-03-27 21:48 G	43994313.37	43994313.41	43994313.48	0.0138	0.0127
Mercury	115740-06-24 01:53 G	43994401.50	43994401.58	43994401.68	0.0138	0.0106
Venus	115740-08-25 22:46 G	43994464.23	43994464.45	43994464.66	0.0138	0.0007
Mercury	115740-09-20 05:44 G	43994489.64	43994489.74	43994489.86	0.0138	0.0086
Mercury	115740-12-17 09:34 G	43994577.78	43994577.90	43994578.03	0.0139	0.0067
Mercury	115741-03-15 13:39 G	43994665.94	43994666.07	43994666.20	0.0139	0.0047
Venus	115741-04-09 06:27 G	43994690.57	43994690.77	43994690.99	0.0139	0.0026
Mercury	115741-06-11 17:15 G	43994754.09	43994754.22	43994754.36	0.0139	0.0028
Mercury	115741-09-07 21:05 G	43994842.24	43994842.38	43994842.52	0.0139	0.0008
Venus	115741-11-21 14:36 G	43994916.91	43994917.11	43994917.32	0.0139	0.0044
Mercury	115741-12-05 00:56 G	43994930.40	43994930.54	43994930.68	0.0139	0.0012
Mercury	115742-03-03 04:46 G	43995018.56	43995018.70	43995018.83	0.0139	0.0032
Mercury	115742-05-30 08:22 G	43995106.73	43995106.85	43995106.98	0.0139	0.0051
Venus	115742-07-05 22:46 G	43995143.27	43995143.45	43995143.66	0.0139	0.0062
Mercury	115742-08-26 11:58 G	43995194.89	43995195.00	43995195.13	0.0139	0.0071
Mercury	115742-11-22 15:48 G	43995283.06	43995283.16	43995283.27	0.0139	0.0090
Venus	115743-02-17 07:10 G	43995369.64	43995369.80	43995369.99	0.0139	0.0080
Mercury	115743-02-18 19:24 G	43995371.23	43995371.31	43995371.40	0.0139	0.0109
Mercury	115743-05-17 23:00 G	43995459.42	43995459.46	43995459.52	0.0139	0.0129
Venus	115743-10-01 15:48 G	43995596.02	43995596.16	43995596.33	0.0139	0.0098
Venus	115744-05-15 00:27 G	43995822.43	43995822.52	43995822.66	0.0139	0.0117
Venus	115744-12-27 09:48 G	43996048.86	43996048.91	43996048.98	0.0140	0.0134
Moon	115745-08-27 00:56 G	43996291.38	43996291.54	43996291.72	0.0140	0.0104
Earth	115745-08-27 04:32 G	43996291.55	43996291.69	43996291.86	0.0140	0.0112 *
Earth	115746-08-31 23:00 G	43996661.20	43996661.46	43996661.71	0.0140	0.0006
Moon	115746-09-01 02:36 G	43996661.36	43996661.61	43996661.87	0.0140	0.0014 *

Moon	115747-09-05 14:08 G	43997030.93	43997031.09	43997031.26	0.0140	0.0106
Earth	115747-09-05 17:44 G	43997031.06	43997031.24	43997031.42	0.0140	0.0100 *
Mars	115757-06-16 00:27 G	44000602.40	44000602.52	44000602.67	0.0142	0.0128
Venus	115776-08-12 12:12 G	44007599.94	44007600.01	44007600.09	0.0141	0.0132
Venus	115777-03-26 22:32 G	44007826.33	44007826.44	44007826.59	0.0141	0.0114
Venus	115777-11-08 09:34 G	44008052.74	44008052.90	44008053.06	0.0140	0.0095
Venus	115778-06-22 19:39 G	44008279.15	44008279.32	44008279.52	0.0140	0.0076
Venus	115779-02-04 05:58 G	44008505.55	44008505.75	44008505.95	0.0140	0.0057
Venus	115779-09-18 16:03 G	44008731.96	44008732.17	44008732.38	0.0140	0.0038
Venus	115780-05-02 01:39 G	44008958.36	44008958.57	44008958.79	0.0140	0.0020
Venus	115780-12-14 11:29 G	44009184.76	44009184.98	44009185.20	0.0140	0.0002
Mercury	115781-01-13 14:22 G	44009215.10	44009215.10	44009215.12	0.0140	0.0139
Mercury	115781-04-11 20:51 G	44009303.29	44009303.37	44009303.48	0.0139	0.0115
Mercury	115781-07-09 03:34 G	44009391.52	44009391.65	44009391.79	0.0139	0.0090
Venus	115781-07-28 20:51 G	44009411.16	44009411.37	44009411.59	0.0139	0.0018
Mercury	115781-10-05 10:17 G	44009479.77	44009479.93	44009480.09	0.0139	0.0065
Mercury	115782-01-01 16:46 G	44009568.03	44009568.20	44009568.38	0.0139	0.0040
Venus	115782-03-12 06:12 G	44009637.55	44009637.76	44009637.97	0.0139	0.0037
Mercury	115782-03-30 23:29 G	44009656.30	44009656.48	44009656.66	0.0139	0.0014
Mercury	115782-06-27 06:12 G	44009744.58	44009744.76	44009744.94	0.0139	0.0011
Mercury	115782-09-23 12:41 G	44009832.87	44009833.03	44009833.21	0.0139	0.0037
Venus	115782-10-24 15:05 G	44009863.94	44009864.13	44009864.34	0.0139	0.0055
Mercury	115782-12-20 19:39 G	44009921.16	44009921.32	44009921.48	0.0139	0.0062
Mercury	115783-03-19 02:22 G	44010009.47	44010009.60	44010009.74	0.0139	0.0088
Venus	115783-06-07 23:58 G	44010090.32	44010090.50	44010090.69	0.0139	0.0073
Mercury	115783-06-15 09:05 G	44010097.79	44010097.88	44010097.99	0.0139	0.0114
Venus	115784-01-20 08:36 G	44010316.71	44010316.86	44010317.04	0.0139	0.0091
Venus	115784-09-02 16:46 G	44010543.09	44010543.20	44010543.36	0.0139	0.0109
Venus	115785-04-17 01:10 G	44010769.48	44010769.55	44010769.66	0.0138	0.0126
Moon	115786-03-01 02:51 G	44011087.50	44011087.62	44011087.77	0.0138	0.0114

Earth	115786-03-01 04:03 G	44011087.56	44011087.67	44011087.81	0.0138	0.0121 *
Earth	115787-03-05 17:44 G	44011456.99	44011457.24	44011457.49	0.0138	0.0020
Moon	115787-03-05 19:10 G	44011457.05	44011457.30	44011457.56	0.0138	0.0028 *
Moon	115788-03-09 04:46 G	44011826.52	44011826.70	44011826.90	0.0138	0.0086
Earth	115788-03-09 05:58 G	44011826.56	44011826.75	44011826.97	0.0138	0.0080 *
Mars	115799-12-03 21:34 G	44016113.21	44016113.40	44016113.59	0.0136	0.0104
Venus	115819-05-12 23:00 G	44023212.45	44023212.46	44023212.49	0.0137	0.0136
Venus	115819-12-25 05:15 G	44023438.64	44023438.72	44023438.84	0.0137	0.0121
Venus	115820-08-07 11:58 G	44023664.87	44023665.00	44023665.15	0.0137	0.0104
Venus	115821-03-21 18:56 G	44023891.12	44023891.29	44023891.46	0.0138	0.0087
Venus	115821-11-03 01:39 G	44024117.39	44024117.57	44024117.76	0.0138	0.0070
Venus	115822-06-17 08:51 G	44024343.68	44024343.87	44024344.08	0.0138	0.0053
Venus	115823-01-29 16:17 G	44024569.97	44024570.18	44024570.39	0.0138	0.0035
Venus	115823-09-12 23:44 G	44024796.28	44024796.49	44024796.71	0.0138	0.0017
Mercury	115824-04-18 05:15 G	44025014.66	44025014.72	44025014.80	0.0138	0.0121
Venus	115824-04-26 07:24 G	44025022.60	44025022.81	44025023.03	0.0138	0.0003
Mercury	115824-07-15 09:20 G	44025102.79	44025102.89	44025102.99	0.0138	0.0101
Mercury	115824-10-11 13:10 G	44025190.94	44025191.05	44025191.17	0.0139	0.0081
Venus	115824-12-08 15:20 G	44025248.93	44025249.14	44025249.35	0.0139	0.0019
Mercury	115825-01-07 17:00 G	44025279.09	44025279.21	44025279.34	0.0139	0.0061
Mercury	115825-04-05 20:51 G	44025367.24	44025367.37	44025367.50	0.0139	0.0041
Mercury	115825-07-03 00:41 G	44025455.39	44025455.53	44025455.67	0.0139	0.0022
Venus	115825-07-22 23:00 G	44025475.26	44025475.46	44025475.68	0.0139	0.0038
Mercury	115825-09-29 04:32 G	44025543.55	44025543.69	44025543.83	0.0139	0.0003
Mercury	115825-12-26 08:08 G	44025631.71	44025631.84	44025631.98	0.0139	0.0018
Venus	115826-03-06 07:10 G	44025701.61	44025701.80	44025702.01	0.0139	0.0056
Mercury	115826-03-24 11:58 G	44025719.87	44025720.00	44025720.13	0.0139	0.0037
Mercury	115826-06-20 15:48 G	44025808.03	44025808.16	44025808.28	0.0139	0.0056
Mercury	115826-09-16 19:10 G	44025896.20	44025896.30	44025896.43	0.0139	0.0076
Venus	115826-10-18 15:20 G	44025927.97	44025928.14	44025928.34	0.0139	0.0074

Mercury	115826-12-13 23:00 G	44025984.37	44025984.46	44025984.57	0.0139	0.0095
Mercury	115827-03-12 02:36 G	44026072.54	44026072.61	44026072.70	0.0139	0.0114
Venus	115827-06-01 23:58 G	44026154.36	44026154.50	44026154.68	0.0139	0.0092
Mercury	115827-06-08 06:12 G	44026160.74	44026160.76	44026160.81	0.0139	0.0134
Venus	115828-01-14 09:05 G	44026380.75	44026380.88	44026381.01	0.0139	0.0110
Venus	115828-08-27 17:44 G	44026607.16	44026607.24	44026607.33	0.0140	0.0128
Earth	115829-08-28 14:36 G	44026972.96	44026973.11	44026973.28	0.0140	0.0107
Moon	115829-08-28 18:12 G	44026973.10	44026973.26	44026973.46	0.0140	0.0099 *
Moon	115830-09-02 05:15 G	44027342.47	44027342.72	44027342.98	0.0140	0.0010
Earth	115830-09-02 08:51 G	44027342.62	44027342.87	44027343.13	0.0140	0.0003 *
Earth	115831-09-07 03:34 G	44027712.49	44027712.65	44027712.82	0.0140	0.0105
Moon	115831-09-07 06:41 G	44027712.65	44027712.78	44027712.96	0.0140	0.0111 *
Mars	115842-02-10 17:29 G	44031521.96	44031522.23	44031522.55	0.0142	0.0054
Venus	115860-04-12 18:27 G	44038158.26	44038158.27	44038158.31	0.0141	0.0140
Venus	115860-11-25 05:44 G	44038384.63	44038384.74	44038384.85	0.0141	0.0121
Venus	115861-07-09 16:03 G	44038611.03	44038611.17	44038611.33	0.0140	0.0102
Venus	115862-02-21 02:36 G	44038837.44	44038837.61	44038837.79	0.0140	0.0083
Venus	115862-10-05 12:56 G	44039063.85	44039064.04	44039064.24	0.0140	0.0064
Venus	115863-05-19 23:00 G	44039290.26	44039290.46	44039290.67	0.0140	0.0045
Venus	115864-01-01 08:51 G	44039516.66	44039516.87	44039517.09	0.0140	0.0027
Venus	115864-08-14 18:41 G	44039743.06	44039743.28	44039743.50	0.0140	0.0008
Mercury	115865-02-03 21:20 G	44039916.36	44039916.39	44039916.46	0.0139	0.0134
Venus	115865-03-29 04:17 G	44039969.46	44039969.68	44039969.90	0.0139	0.0011
Mercury	115865-05-03 04:03 G	44040004.57	44040004.67	44040004.79	0.0139	0.0109
Mercury	115865-07-30 10:46 G	44040092.81	44040092.95	44040093.09	0.0139	0.0084
Mercury	115865-10-26 17:15 G	44040181.06	44040181.22	44040181.38	0.0139	0.0059
Venus	115865-11-10 13:39 G	44040195.86	44040196.07	44040196.29	0.0139	0.0030
Mercury	115866-01-22 23:58 G	44040269.32	44040269.50	44040269.67	0.0139	0.0034
Mercury	115866-04-21 06:27 G	44040357.59	44040357.77	44040357.95	0.0139	0.0009
Venus	115866-06-24 22:46 G	44040422.25	44040422.45	44040422.66	0.0139	0.0048

Mercury	115866-07-18 13:10 G	44040445.87	44040446.05	44040446.23	0.0139	0.0017
Mercury	115866-10-14 19:53 G	44040534.16	44040534.33	44040534.50	0.0139	0.0042
Mercury	115867-01-11 02:36 G	44040622.45	44040622.61	44040622.77	0.0139	0.0068
Venus	115867-02-06 07:24 G	44040648.63	44040648.81	44040649.02	0.0139	0.0067
Mercury	115867-04-09 09:05 G	44040710.76	44040710.88	44040711.03	0.0139	0.0094
Mercury	115867-07-06 16:17 G	44040799.09	44040799.18	44040799.27	0.0139	0.0119
Venus	115867-09-20 16:03 G	44040875.02	44040875.17	44040875.36	0.0139	0.0085
Venus	115868-05-04 00:56 G	44041101.40	44041101.54	44041101.69	0.0139	0.0102
Venus	115868-12-16 09:05 G	44041327.79	44041327.88	44041328.00	0.0138	0.0120
Venus	115869-07-30 17:15 G	44041554.20	44041554.22	44041554.27	0.0138	0.0136
Earth	115870-03-02 13:24 G	44041768.93	44041769.06	44041769.20	0.0138	0.0117
Moon	115870-03-02 14:08 G	44041768.96	44041769.09	44041769.27	0.0138	0.0111 *
Moon	115871-03-07 01:24 G	44042138.32	44042138.56	44042138.80	0.0138	0.0024
Earth	115871-03-07 02:51 G	44042138.37	44042138.62	44042138.87	0.0138	0.0016 *
Earth	115872-03-10 14:51 G	44042507.93	44042508.12	44042508.34	0.0138	0.0083
Moon	115872-03-10 16:03 G	44042507.99	44042508.17	44042508.38	0.0138	0.0089 *
Venus	115903-08-25 14:22 G	44053997.03	44053997.10	44053997.19	0.0137	0.0127
Venus	115904-04-07 20:51 G	44054223.26	44054223.37	44054223.51	0.0137	0.0110
Venus	115904-11-20 03:34 G	44054449.51	44054449.65	44054449.82	0.0138	0.0094
Venus	115905-07-04 10:32 G	44054675.77	44054675.94	44054676.13	0.0138	0.0077
Venus	115906-02-15 17:44 G	44054902.05	44054902.24	44054902.44	0.0138	0.0059
Venus	115906-09-30 00:56 G	44055128.34	44055128.54	44055128.75	0.0138	0.0041
Venus	115907-05-14 08:22 G	44055354.64	44055354.85	44055355.07	0.0138	0.0024
Venus	115907-12-26 16:03 G	44055580.95	44055581.17	44055581.39	0.0138	0.0006
Mercury	115908-02-11 08:36 G	44055627.84	44055627.86	44055627.89	0.0138	0.0136
Mercury	115908-05-09 12:41 G	44055715.95	44055716.03	44055716.10	0.0138	0.0116
Mercury	115908-08-05 16:32 G	44055804.09	44055804.19	44055804.29	0.0139	0.0096
Venus	115908-08-08 23:44 G	44055807.27	44055807.49	44055807.71	0.0139	0.0012
Mercury	115908-11-01 20:08 G	44055892.23	44055892.34	44055892.47	0.0139	0.0077
Mercury	115909-01-29 00:12 G	44055980.38	44055980.51	44055980.64	0.0139	0.0056

Venus	115909-03-23 07:24 G	44056033.60	44056033.81	44056034.03	0.0139	0.0031
Mercury	115909-04-27 04:03 G	44056068.54	44056068.67	44056068.81	0.0139	0.0037
Mercury	115909-07-24 07:53 G	44056156.69	44056156.83	44056156.97	0.0139	0.0017
Mercury	115909-10-20 11:44 G	44056244.85	44056244.99	44056245.13	0.0139	0.0004
Venus	115909-11-04 15:20 G	44056259.95	44056260.14	44056260.35	0.0139	0.0049
Mercury	115910-01-16 15:20 G	44056333.01	44056333.14	44056333.28	0.0139	0.0022
Mercury	115910-04-14 19:10 G	44056421.17	44056421.30	44056421.43	0.0139	0.0042
Venus	115910-06-18 23:44 G	44056486.31	44056486.49	44056486.69	0.0139	0.0067
Mercury	115910-07-11 22:46 G	44056509.33	44056509.45	44056509.58	0.0139	0.0061
Mercury	115910-10-08 02:36 G	44056597.50	44056597.61	44056597.72	0.0139	0.0080
Mercury	115911-01-04 06:12 G	44056685.67	44056685.76	44056685.86	0.0139	0.0100
Venus	115911-01-31 08:08 G	44056712.68	44056712.84	44056713.02	0.0139	0.0086
Mercury	115911-04-02 10:03 G	44056773.85	44056773.92	44056773.99	0.0139	0.0119
Mercury	115911-06-29 13:39 G	44056862.05	44056862.07	44056862.09	0.0139	0.0138
Venus	115911-09-14 16:32 G	44056939.06	44056939.19	44056939.35	0.0139	0.0104
Venus	115912-04-28 01:24 G	44057165.46	44057165.56	44057165.67	0.0140	0.0122
Venus	115912-12-10 10:17 G	44057391.93	44057391.93	44057391.95	0.0140	0.0140
Moon	115913-08-29 20:51 G	44057654.19	44057654.37	44057654.56	0.0140	0.0094
Earth	115913-08-30 00:27 G	44057654.35	44057654.52	44057654.70	0.0140	0.0102 *
Earth	115914-09-03 18:41 G	44058024.02	44058024.28	44058024.53	0.0140	0.0004
Moon	115914-09-03 22:17 G	44058024.17	44058024.43	44058024.68	0.0140	0.0005 *
Moon	115915-09-08 09:48 G	44058393.77	44058393.91	44058394.06	0.0140	0.0115
Earth	115915-09-08 13:10 G	44058393.90	44058394.05	44058394.22	0.0140	0.0110 *
Venus	115944-07-26 11:58 G	44068942.93	44068943.00	44068943.10	0.0141	0.0129
Venus	115945-03-09 22:46 G	44069169.32	44069169.45	44069169.60	0.0140	0.0110
Venus	115945-10-22 09:34 G	44069395.74	44069395.90	44069396.07	0.0140	0.0091
Venus	115946-06-05 20:08 G	44069622.15	44069622.34	44069622.53	0.0140	0.0072
Venus	115947-01-18 06:12 G	44069848.56	44069848.76	44069848.97	0.0140	0.0052
Venus	115947-09-01 16:03 G	44070074.97	44070075.17	44070075.39	0.0140	0.0034
Venus	115948-04-15 02:08 G	44070301.37	44070301.59	44070301.81	0.0140	0.0014

Venus	115948-11-27 11:58 G	44070527.78	44070528.00	44070528.22	0.0140	0.0005
Mercury	115949-02-25 04:46 G	44070617.64	44070617.70	44070617.78	0.0139	0.0127
Mercury	115949-05-24 11:15 G	44070705.86	44070705.97	44070706.10	0.0139	0.0102
Venus	115949-07-11 21:20 G	44070754.18	44070754.39	44070754.61	0.0139	0.0023
Mercury	115949-08-20 17:44 G	44070794.10	44070794.24	44070794.40	0.0139	0.0078
Mercury	115949-11-17 00:27 G	44070882.36	44070882.52	44070882.69	0.0139	0.0052
Mercury	115950-02-13 06:56 G	44070970.62	44070970.79	44070970.97	0.0139	0.0028
Venus	115950-02-23 06:27 G	44070980.57	44070980.77	44070980.98	0.0139	0.0042
Mercury	115950-05-12 13:39 G	44071058.89	44071059.07	44071059.25	0.0139	0.0002
Mercury	115950-08-08 20:22 G	44071147.17	44071147.35	44071147.53	0.0139	0.0023
Venus	115950-10-07 15:34 G	44071206.95	44071207.15	44071207.35	0.0139	0.0060
Mercury	115950-11-05 02:51 G	44071235.46	44071235.62	44071235.80	0.0139	0.0049
Mercury	115951-02-01 09:48 G	44071323.76	44071323.91	44071324.06	0.0139	0.0074
Mercury	115951-04-30 16:17 G	44071412.07	44071412.18	44071412.32	0.0139	0.0100
Venus	115951-05-22 00:27 G	44071433.34	44071433.52	44071433.70	0.0139	0.0078
Mercury	115951-07-27 23:00 G	44071500.40	44071500.46	44071500.55	0.0139	0.0126
Venus	115952-01-03 09:05 G	44071659.73	44071659.88	44071660.04	0.0139	0.0096
Venus	115952-08-16 17:15 G	44071886.11	44071886.22	44071886.36	0.0139	0.0114
Venus	115953-03-31 01:24 G	44072112.50	44072112.56	44072112.64	0.0138	0.0131
Moon	115954-03-03 22:03 G	44072450.29	44072450.42	44072450.60	0.0138	0.0106
Earth	115954-03-03 23:00 G	44072450.34	44072450.46	44072450.63	0.0138	0.0113 *
Earth	115955-03-08 12:41 G	44072819.78	44072820.03	44072820.28	0.0138	0.0012
Moon	115955-03-08 13:53 G	44072819.82	44072820.08	44072820.34	0.0138	0.0019 *
Moon	115956-03-11 23:44 G	44073189.33	44073189.49	44073189.69	0.0138	0.0094
Earth	115956-03-12 01:10 G	44073189.36	44073189.55	44073189.75	0.0138	0.0087 *
Mars	115967-04-24 04:17 G	44077249.38	44077249.68	44077249.98	0.0136	0.0001
Venus	115987-04-24 23:15 G	44084555.44	44084555.47	44084555.54	0.0137	0.0133
Venus	115987-12-07 05:58 G	44084781.65	44084781.75	44084781.87	0.0137	0.0117
Venus	115988-07-20 12:41 G	44085007.89	44085008.03	44085008.18	0.0137	0.0100
Venus	115989-03-03 19:24 G	44085234.14	44085234.31	44085234.48	0.0138	0.0083

Venus	115989-10-16 02:08 G	44085460.41	44085460.59	44085460.79	0.0138	0.0066
Venus	115990-05-30 09:34 G	44085686.70	44085686.90	44085687.11	0.0138	0.0048
Venus	115991-01-11 17:00 G	44085913.00	44085913.21	44085913.42	0.0138	0.0030
Venus	115991-08-26 00:12 G	44086139.30	44086139.51	44086139.73	0.0138	0.0013
Mercury	115992-03-02 15:34 G	44086329.12	44086329.15	44086329.20	0.0138	0.0131
Venus	115992-04-08 07:53 G	44086365.61	44086365.83	44086366.05	0.0138	0.0006
Mercury	115992-05-29 19:24 G	44086417.24	44086417.31	44086417.40	0.0138	0.0112
Mercury	115992-08-25 23:29 G	44086505.38	44086505.48	44086505.59	0.0139	0.0092
Venus	115992-11-20 15:34 G	44086591.94	44086592.15	44086592.37	0.0139	0.0024
Mercury	115992-11-22 03:20 G	44086593.52	44086593.64	44086593.77	0.0139	0.0072
Mercury	115993-02-18 07:10 G	44086681.68	44086681.80	44086681.94	0.0139	0.0052
Mercury	115993-05-17 11:00 G	44086769.83	44086769.96	44086770.10	0.0139	0.0033
Venus	115993-07-04 23:29 G	44086818.28	44086818.48	44086818.69	0.0139	0.0043
Mercury	115993-08-13 14:51 G	44086857.98	44086858.12	44086858.26	0.0139	0.0013
Mercury	115993-11-09 18:41 G	44086946.14	44086946.28	44086946.42	0.0139	0.0007
Mercury	115994-02-05 22:32 G	44087034.30	44087034.44	44087034.58	0.0139	0.0027
Venus	115994-02-16 07:24 G	44087044.63	44087044.81	44087045.02	0.0139	0.0061
Mercury	115994-05-05 02:08 G	44087122.46	44087122.59	44087122.73	0.0139	0.0046
Mercury	115994-08-01 05:58 G	44087210.63	44087210.75	44087210.87	0.0139	0.0065
Venus	115994-09-30 15:34 G	44087270.99	44087271.15	44087271.34	0.0139	0.0080
Mercury	115994-10-28 09:34 G	44087298.80	44087298.90	44087299.02	0.0139	0.0085
Mercury	115995-01-24 13:10 G	44087386.97	44087387.05	44087387.15	0.0139	0.0104
Mercury	115995-04-22 16:46 G	44087475.15	44087475.20	44087475.28	0.0139	0.0124
Venus	115995-05-15 00:12 G	44087497.37	44087497.51	44087497.68	0.0139	0.0098
Venus	115995-12-27 08:51 G	44087723.76	44087723.87	44087724.00	0.0139	0.0116
Venus	115996-08-09 17:29 G	44087950.19	44087950.23	44087950.31	0.0140	0.0134
Earth	115997-08-30 09:34 G	44088335.73	44088335.90	44088336.09	0.0140	0.0098
Moon	115997-08-30 13:10 G	44088335.87	44088336.05	44088336.26	0.0140	0.0090 *
Moon	115998-09-04 00:27 G	44088705.26	44088705.52	44088705.77	0.0140	0.0002
Earth	115998-09-04 03:48 G	44088705.41	44088705.66	44088705.92	0.0140	0.0008 *

Earth 115999-09-08 22:32 G 44089075.30 44089075.44 44089075.60 0.0140 0.0114
Moon 115999-09-09 01:53 G 44089075.46 44089075.58 44089075.74 0.0140 0.0119 *

117TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 117th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	116009-06-29 19:53 G		44092657.09	44092657.33	44092657.62	0.0142	0.0078	
Venus	116028-03-25 18:12 G		44099501.22	44099501.26	44099501.32	0.0141	0.0136	
Venus	116028-11-07 05:00 G		44099727.61	44099727.71	44099727.85	0.0141	0.0118	
Venus	116029-06-21 15:48 G		44099954.02	44099954.16	44099954.33	0.0140	0.0098	
Venus	116030-02-03 02:22 G		44100180.43	44100180.60	44100180.79	0.0140	0.0079	
Venus	116030-09-17 12:41 G		44100406.84	44100407.03	44100407.24	0.0140	0.0060	
Venus	116031-05-01 22:46 G		44100633.25	44100633.45	44100633.67	0.0140	0.0041	
Venus	116031-12-14 09:05 G		44100859.66	44100859.88	44100860.10	0.0140	0.0022	
Venus	116032-07-27 18:41 G		44101086.07	44101086.28	44101086.50	0.0140	0.0004	
Venus	116033-03-11 04:17 G		44101312.46	44101312.68	44101312.90	0.0139	0.0016	
Mercury	116033-03-17 11:44 G		44101318.91	44101318.99	44101319.08	0.0139	0.0121	
Mercury	116033-06-13 18:12 G		44101407.14	44101407.26	44101407.39	0.0139	0.0097	
Mercury	116033-09-10 00:41 G		44101495.39	44101495.53	44101495.69	0.0139	0.0072	
Venus	116033-10-23 13:39 G		44101538.86	44101539.07	44101539.28	0.0139	0.0035	
Mercury	116033-12-07 07:10 G		44101583.64	44101583.80	44101583.98	0.0139	0.0047	
Mercury	116034-03-05 13:53 G		44101671.91	44101672.08	44101672.26	0.0139	0.0022	

Mercury	116034-06-01 20:36 G	44101760.18	44101760.36	44101760.54	0.0139	0.0004
Venus	116034-06-06 22:32 G	44101765.25	44101765.44	44101765.65	0.0139	0.0054
Mercury	116034-08-29 03:05 G	44101848.46	44101848.63	44101848.81	0.0139	0.0029
Mercury	116034-11-25 09:48 G	44101936.75	44101936.91	44101937.08	0.0139	0.0054
Venus	116035-01-19 07:39 G	44101991.64	44101991.82	44101992.01	0.0139	0.0072
Mercury	116035-02-21 16:17 G	44102025.05	44102025.18	44102025.34	0.0139	0.0080
Mercury	116035-05-20 23:15 G	44102113.36	44102113.47	44102113.59	0.0139	0.0105
Mercury	116035-08-17 05:58 G	44102201.70	44102201.75	44102201.82	0.0139	0.0131
Venus	116035-09-02 16:17 G	44102218.02	44102218.18	44102218.35	0.0139	0.0090
Venus	116036-04-16 00:41 G	44102444.41	44102444.53	44102444.68	0.0139	0.0108
Venus	116036-11-28 09:20 G	44102670.80	44102670.89	44102670.98	0.0138	0.0125
Earth	116038-03-04 08:22 G	44103131.70	44103131.85	44103132.01	0.0138	0.0109
Moon	116038-03-04 09:20 G	44103131.72	44103131.89	44103132.07	0.0138	0.0102 *
Moon	116039-03-08 20:51 G	44103501.13	44103501.37	44103501.61	0.0138	0.0016
Earth	116039-03-08 21:48 G	44103501.16	44103501.41	44103501.66	0.0138	0.0009 *
Earth	116040-03-12 09:48 G	44103870.74	44103870.91	44103871.12	0.0138	0.0091
Moon	116040-03-12 10:46 G	44103870.77	44103870.95	44103871.15	0.0138	0.0096 *
Venus	116071-08-06 14:36 G	44115340.03	44115340.11	44115340.22	0.0137	0.0123
Venus	116072-03-19 21:05 G	44115566.26	44115566.38	44115566.53	0.0137	0.0107
Venus	116072-11-01 03:48 G	44115792.51	44115792.66	44115792.84	0.0137	0.0090
Venus	116073-06-15 11:00 G	44116018.78	44116018.96	44116019.15	0.0138	0.0072
Venus	116074-01-27 17:44 G	44116245.06	44116245.24	44116245.45	0.0138	0.0055
Venus	116074-09-11 01:10 G	44116471.34	44116471.55	44116471.76	0.0138	0.0037
Venus	116075-04-25 08:36 G	44116697.65	44116697.86	44116698.07	0.0138	0.0019
Venus	116075-12-07 16:03 G	44116923.96	44116924.17	44116924.39	0.0138	0.0001
Mercury	116076-03-22 22:46 G	44117030.40	44117030.45	44117030.50	0.0138	0.0127
Mercury	116076-06-19 02:22 G	44117118.53	44117118.60	44117118.70	0.0138	0.0108
Venus	116076-07-20 23:44 G	44117150.27	44117150.49	44117150.70	0.0139	0.0018
Mercury	116076-09-15 06:27 G	44117206.67	44117206.77	44117206.89	0.0139	0.0087
Mercury	116076-12-12 10:17 G	44117294.81	44117294.93	44117295.06	0.0139	0.0068

Venus	116077-03-04 07:24 G	44117376.60	44117376.81	44117377.02	0.0139	0.0036
Mercury	116077-03-10 14:08 G	44117382.97	44117383.09	44117383.23	0.0139	0.0048
Mercury	116077-06-06 18:12 G	44117471.12	44117471.26	44117471.40	0.0139	0.0028
Mercury	116077-09-02 22:03 G	44117559.28	44117559.42	44117559.56	0.0139	0.0009
Venus	116077-10-16 15:20 G	44117602.94	44117603.14	44117603.34	0.0139	0.0054
Mercury	116077-11-30 01:53 G	44117647.44	44117647.58	44117647.71	0.0139	0.0012
Mercury	116078-02-26 05:29 G	44117735.60	44117735.73	44117735.87	0.0139	0.0031
Mercury	116078-05-25 09:20 G	44117823.76	44117823.89	44117824.02	0.0139	0.0050
Venus	116078-05-30 23:44 G	44117829.31	44117829.49	44117829.67	0.0139	0.0072
Mercury	116078-08-21 12:56 G	44117911.93	44117912.04	44117912.16	0.0139	0.0070
Mercury	116078-11-17 16:32 G	44118000.09	44118000.19	44118000.31	0.0139	0.0089
Venus	116079-01-12 07:39 G	44118055.67	44118055.82	44118056.00	0.0139	0.0091
Mercury	116079-02-13 20:22 G	44118088.27	44118088.35	44118088.44	0.0139	0.0108
Mercury	116079-05-12 23:58 G	44118176.45	44118176.50	44118176.56	0.0139	0.0127
Venus	116079-08-26 16:03 G	44118282.06	44118282.17	44118282.33	0.0139	0.0110
Venus	116080-04-09 00:41 G	44118508.47	44118508.53	44118508.64	0.0140	0.0128
Moon	116081-08-30 14:51 G	44119016.94	44119017.12	44119017.34	0.0140	0.0087
Earth	116081-08-30 18:27 G	44119017.10	44119017.27	44119017.48	0.0140	0.0095 *
Earth	116082-09-04 12:56 G	44119386.79	44119387.04	44119387.30	0.0140	0.0011
Moon	116082-09-04 16:32 G	44119386.93	44119387.19	44119387.45	0.0140	0.0004 *
Moon	116083-09-09 04:03 G	44119756.57	44119756.67	44119756.82	0.0140	0.0123
Earth	116083-09-09 07:39 G	44119756.70	44119756.82	44119756.98	0.0140	0.0118 *
Mars	116094-02-23 09:48 G	44123576.69	44123576.91	44123577.14	0.0142	0.0100
Venus	116112-07-08 11:00 G	44130285.88	44130285.96	44130286.08	0.0141	0.0125
Venus	116113-02-19 22:03 G	44130512.28	44130512.42	44130512.57	0.0140	0.0106
Venus	116113-10-04 08:36 G	44130738.70	44130738.86	44130739.04	0.0140	0.0087
Venus	116114-05-18 19:10 G	44130965.11	44130965.30	44130965.50	0.0140	0.0067
Venus	116114-12-31 05:29 G	44131191.53	44131191.73	44131191.94	0.0140	0.0048
Venus	116115-08-14 15:34 G	44131417.94	44131418.15	44131418.37	0.0140	0.0029
Venus	116116-03-28 01:24 G	44131644.34	44131644.56	44131644.78	0.0140	0.0009

Venus	116116-11-09 11:15 G	44131870.75	44131870.97	44131871.19	0.0139	0.0010
Mercury	116117-04-07 18:41 G	44132020.19	44132020.28	44132020.38	0.0139	0.0116
Venus	116117-06-23 20:36 G	44132097.15	44132097.36	44132097.58	0.0139	0.0029
Mercury	116117-07-05 00:56 G	44132108.42	44132108.54	44132108.68	0.0139	0.0092
Mercury	116117-10-01 07:39 G	44132196.67	44132196.82	44132196.98	0.0139	0.0066
Mercury	116117-12-28 14:08 G	44132284.92	44132285.09	44132285.26	0.0139	0.0042
Venus	116118-02-05 05:44 G	44132323.54	44132323.74	44132323.95	0.0139	0.0047
Mercury	116118-03-26 20:36 G	44132373.19	44132373.36	44132373.54	0.0139	0.0017
Mercury	116118-06-23 03:20 G	44132461.46	44132461.64	44132461.82	0.0139	0.0009
Mercury	116118-09-19 10:03 G	44132549.74	44132549.92	44132550.09	0.0139	0.0034
Venus	116118-09-19 14:36 G	44132549.93	44132550.11	44132550.31	0.0139	0.0066 *
Mercury	116118-12-16 16:46 G	44132638.03	44132638.20	44132638.36	0.0139	0.0059
Mercury	116119-03-14 23:15 G	44132726.33	44132726.47	44132726.62	0.0139	0.0085
Venus	116119-05-03 23:29 G	44132776.31	44132776.48	44132776.66	0.0139	0.0084
Mercury	116119-06-11 06:12 G	44132814.65	44132814.76	44132814.87	0.0139	0.0110
Mercury	116119-09-07 12:41 G	44132903.01	44132903.03	44132903.07	0.0139	0.0136
Venus	116119-12-16 08:08 G	44133002.71	44133002.84	44133003.00	0.0139	0.0102
Venus	116120-07-29 16:46 G	44133229.09	44133229.20	44133229.31	0.0139	0.0119
Venus	116121-03-13 00:27 G	44133455.51	44133455.52	44133455.58	0.0138	0.0137
Moon	116122-03-05 16:46 G	44133813.04	44133813.20	44133813.38	0.0138	0.0099
Earth	116122-03-05 17:29 G	44133813.07	44133813.23	44133813.39	0.0138	0.0106 *
Earth	116123-03-10 06:41 G	44134182.53	44134182.78	44134183.03	0.0138	0.0005
Moon	116123-03-10 07:24 G	44134182.55	44134182.81	44134183.07	0.0138	0.0013 *
Moon	116124-03-13 18:27 G	44134552.12	44134552.27	44134552.45	0.0138	0.0100
Earth	116124-03-13 18:56 G	44134552.12	44134552.29	44134552.49	0.0138	0.0094 *
Mars	116134-09-11 10:03 G	44138385.76	44138385.92	44138386.13	0.0136	0.0107
Venus	116155-04-06 23:44 G	44145898.44	44145898.49	44145898.58	0.0137	0.0129
Venus	116155-11-19 06:12 G	44146124.65	44146124.76	44146124.90	0.0137	0.0113
Venus	116156-07-02 12:56 G	44146350.90	44146351.04	44146351.20	0.0137	0.0096
Venus	116157-02-13 19:24 G	44146577.15	44146577.31	44146577.50	0.0138	0.0079

Venus	116157-09-28 02:36 G	44146803.42	44146803.61	44146803.81	0.0138	0.0061
Venus	116158-05-12 09:48 G	44147029.71	44147029.91	44147030.12	0.0138	0.0043
Venus	116158-12-24 17:00 G	44147256.00	44147256.21	44147256.43	0.0138	0.0025
Venus	116159-08-08 00:27 G	44147482.30	44147482.52	44147482.73	0.0138	0.0007
Venus	116160-03-21 07:53 G	44147708.61	44147708.83	44147709.04	0.0138	0.0011
Mercury	116160-04-13 05:44 G	44147731.68	44147731.74	44147731.81	0.0138	0.0122
Mercury	116160-07-10 09:34 G	44147819.81	44147819.90	44147820.00	0.0138	0.0103
Mercury	116160-10-06 13:39 G	44147907.96	44147908.07	44147908.18	0.0139	0.0083
Venus	116160-11-02 15:20 G	44147934.94	44147935.14	44147935.36	0.0139	0.0030
Mercury	116161-01-02 17:29 G	44147996.11	44147996.23	44147996.36	0.0139	0.0063
Mercury	116161-03-31 21:20 G	44148084.26	44148084.39	44148084.53	0.0139	0.0043
Venus	116161-06-16 23:15 G	44148161.28	44148161.47	44148161.68	0.0139	0.0048
Mercury	116161-06-28 01:10 G	44148172.41	44148172.55	44148172.69	0.0139	0.0023
Mercury	116161-09-24 05:00 G	44148260.57	44148260.71	44148260.85	0.0139	0.0004
Mercury	116161-12-21 08:51 G	44148348.73	44148348.87	44148349.01	0.0139	0.0016
Venus	116162-01-29 07:24 G	44148387.62	44148387.81	44148388.01	0.0139	0.0066
Mercury	116162-03-19 12:41 G	44148436.89	44148437.03	44148437.16	0.0139	0.0035
Mercury	116162-06-15 16:17 G	44148525.06	44148525.18	44148525.31	0.0139	0.0055
Mercury	116162-09-11 19:53 G	44148613.22	44148613.33	44148613.46	0.0139	0.0074
Venus	116162-09-12 15:34 G	44148613.98	44148614.15	44148614.33	0.0139	0.0084
Mercury	116162-12-08 23:44 G	44148701.39	44148701.49	44148701.60	0.0139	0.0093
Mercury	116163-03-07 03:34 G	44148789.57	44148789.65	44148789.73	0.0139	0.0112
Venus	116163-04-26 23:44 G	44148840.36	44148840.49	44148840.65	0.0139	0.0103
Mercury	116163-06-03 07:10 G	44148877.76	44148877.80	44148877.85	0.0139	0.0132
Venus	116163-12-09 08:22 G	44149066.76	44149066.85	44149066.97	0.0139	0.0121
Venus	116164-07-22 17:15 G	44149293.22	44149293.22	44149293.25	0.0140	0.0139
Earth	116165-09-01 03:48 G	44149698.48	44149698.66	44149698.86	0.0140	0.0091
Moon	116165-09-01 07:24 G	44149698.61	44149698.81	44149699.03	0.0140	0.0083 *
Moon	116166-09-05 18:56 G	44150068.04	44150068.29	44150068.55	0.0140	0.0007
Earth	116166-09-05 22:17 G	44150068.18	44150068.43	44150068.69	0.0140	0.0015 *

Earth	116167-09-10 17:15 G	44150438.10	44150438.22	44150438.36	0.0140	0.0121
Moon	116167-09-10 20:36 G	44150438.26	44150438.36	44150438.49	0.0140	0.0125 *
Venus	116196-03-07 16:46 G	44160844.15	44160844.20	44160844.29	0.0141	0.0133
Venus	116196-10-20 03:48 G	44161070.55	44161070.66	44161070.80	0.0141	0.0113
Venus	116197-06-03 14:36 G	44161296.96	44161297.11	44161297.29	0.0140	0.0094
Venus	116198-01-16 01:24 G	44161523.37	44161523.56	44161523.75	0.0140	0.0075
Venus	116198-08-30 11:29 G	44161749.79	44161749.98	44161750.19	0.0140	0.0056
Venus	116199-04-13 21:48 G	44161976.20	44161976.41	44161976.63	0.0140	0.0036
Venus	116199-11-26 07:53 G	44162202.61	44162202.83	44162203.05	0.0140	0.0017
Venus	116200-07-10 17:44 G	44162429.02	44162429.24	44162429.46	0.0140	0.0003
Mercury	116201-01-30 18:41 G	44162633.26	44162633.28	44162633.33	0.0139	0.0136
Venus	116201-02-22 03:05 G	44162655.42	44162655.63	44162655.85	0.0139	0.0022
Mercury	116201-04-29 01:10 G	44162721.46	44162721.55	44162721.66	0.0139	0.0111
Mercury	116201-07-26 07:39 G	44162809.69	44162809.82	44162809.97	0.0139	0.0087
Venus	116201-10-06 12:27 G	44162881.81	44162882.02	44162882.23	0.0139	0.0040
Mercury	116201-10-22 14:22 G	44162897.94	44162898.10	44162898.26	0.0139	0.0062
Mercury	116202-01-18 20:36 G	44162986.20	44162986.36	44162986.54	0.0139	0.0038
Mercury	116202-04-17 03:20 G	44163074.47	44163074.64	44163074.82	0.0139	0.0012
Venus	116202-05-20 21:20 G	44163108.20	44163108.39	44163108.60	0.0139	0.0059
Mercury	116202-07-14 10:03 G	44163162.74	44163162.92	44163163.10	0.0139	0.0013
Mercury	116202-10-10 16:32 G	44163251.02	44163251.19	44163251.37	0.0139	0.0039
Venus	116203-01-02 06:27 G	44163334.59	44163334.77	44163334.96	0.0139	0.0077
Mercury	116203-01-06 23:15 G	44163339.31	44163339.47	44163339.63	0.0139	0.0064
Mercury	116203-04-05 05:58 G	44163427.61	44163427.75	44163427.89	0.0139	0.0089
Mercury	116203-07-02 12:27 G	44163515.93	44163516.02	44163516.13	0.0139	0.0115
Venus	116203-08-16 15:20 G	44163560.98	44163561.14	44163561.30	0.0139	0.0095
Venus	116204-03-29 23:44 G	44163787.37	44163787.49	44163787.62	0.0139	0.0113
Venus	116204-11-11 07:53 G	44164013.77	44164013.83	44164013.91	0.0138	0.0130
Moon	116206-03-07 01:39 G	44164494.40	44164494.57	44164494.78	0.0138	0.0097
Earth	116206-03-07 01:24 G	44164494.41	44164494.56	44164494.74	0.0138	0.0103 *

Moon	116207-03-11 14:36 G	44164863.86	44164864.11	44164864.35	0.0138	0.0010
Earth	116207-03-11 15:05 G	44164863.88	44164864.13	44164864.38	0.0138	0.0003 *
Earth	116208-03-15 03:34 G	44165233.47	44165233.65	44165233.84	0.0138	0.0096
Moon	116208-03-15 03:34 G	44165233.50	44165233.65	44165233.85	0.0138	0.0102 *
Mars	116219-05-07 23:15 G	44169304.19	44169304.47	44169304.77	0.0136	0.0036
Venus	116238-12-06 08:51 G	44176456.85	44176456.87	44176456.91	0.0137	0.0135
Venus	116239-07-20 15:20 G	44176683.04	44176683.14	44176683.25	0.0137	0.0119
Venus	116240-03-02 21:48 G	44176909.27	44176909.41	44176909.56	0.0137	0.0102
Venus	116240-10-15 04:17 G	44177135.52	44177135.68	44177135.86	0.0138	0.0085
Venus	116241-05-29 11:15 G	44177361.79	44177361.97	44177362.17	0.0138	0.0068
Venus	116242-01-10 18:12 G	44177588.07	44177588.26	44177588.47	0.0138	0.0050
Venus	116242-08-25 01:24 G	44177814.35	44177814.56	44177814.77	0.0138	0.0032
Venus	116243-04-08 08:36 G	44178040.65	44178040.86	44178041.08	0.0138	0.0014
Venus	116243-11-20 16:03 G	44178266.96	44178267.17	44178267.39	0.0138	0.0005
Mercury	116244-02-06 09:05 G	44178344.87	44178344.88	44178344.88	0.0138	0.0138
Mercury	116244-05-04 12:56 G	44178432.97	44178433.04	44178433.11	0.0138	0.0118
Venus	116244-07-03 23:44 G	44178493.28	44178493.49	44178493.70	0.0139	0.0023
Mercury	116244-07-31 16:32 G	44178521.10	44178521.19	44178521.30	0.0139	0.0099
Mercury	116244-10-27 20:36 G	44178609.25	44178609.36	44178609.48	0.0139	0.0078
Mercury	116245-01-24 00:27 G	44178697.40	44178697.52	44178697.65	0.0139	0.0059
Venus	116245-02-15 07:10 G	44178719.61	44178719.80	44178720.02	0.0139	0.0042
Mercury	116245-04-22 04:17 G	44178785.55	44178785.68	44178785.82	0.0139	0.0039
Mercury	116245-07-19 08:22 G	44178873.71	44178873.85	44178873.99	0.0139	0.0019
Venus	116245-09-29 15:05 G	44178945.95	44178946.13	44178946.34	0.0139	0.0060
Mercury	116245-10-15 11:58 G	44178961.86	44178962.00	44178962.15	0.0139	0.0005
Mercury	116246-01-11 15:48 G	44179050.02	44179050.16	44179050.30	0.0139	0.0020
Mercury	116246-04-09 19:39 G	44179138.19	44179138.32	44179138.45	0.0139	0.0040
Venus	116246-05-13 23:29 G	44179172.31	44179172.48	44179172.66	0.0139	0.0078
Mercury	116246-07-06 23:29 G	44179226.35	44179226.48	44179226.60	0.0139	0.0059
Mercury	116246-10-03 03:05 G	44179314.52	44179314.63	44179314.75	0.0139	0.0079

Venus	116246-12-26 07:53 G	44179398.68	44179398.83	44179398.99	0.0139	0.0097
Mercury	116246-12-30 06:41 G	44179402.69	44179402.78	44179402.89	0.0139	0.0098
Mercury	116247-03-28 10:32 G	44179490.87	44179490.94	44179491.02	0.0139	0.0117
Mercury	116247-06-24 14:08 G	44179579.07	44179579.09	44179579.13	0.0139	0.0136
Venus	116247-08-09 16:03 G	44179625.07	44179625.17	44179625.31	0.0139	0.0115
Venus	116248-03-23 00:41 G	44179851.49	44179851.53	44179851.61	0.0139	0.0134
Moon	116249-09-02 09:48 G	44180379.72	44180379.91	44180380.13	0.0140	0.0079
Earth	116249-09-02 13:24 G	44180379.87	44180380.06	44180380.27	0.0140	0.0087 *
Earth	116250-09-07 07:53 G	44180749.59	44180749.83	44180750.09	0.0140	0.0019
Moon	116250-09-07 11:29 G	44180749.72	44180749.98	44180750.24	0.0140	0.0011 *
Moon	116251-09-11 23:15 G	44181119.40	44181119.47	44181119.59	0.0140	0.0130
Earth	116251-09-12 03:20 G	44181119.53	44181119.64	44181119.76	0.0140	0.0125 *
Mars	116261-07-13 11:58 G	44184711.71	44184712.00	44184712.32	0.0142	0.0034
Venus	116279-11-06 23:00 G	44191402.45	44191402.46	44191402.50	0.0141	0.0140
Venus	116280-06-20 10:03 G	44191628.82	44191628.92	44191629.05	0.0141	0.0121
Venus	116281-02-01 20:51 G	44191855.23	44191855.37	44191855.53	0.0140	0.0102
Venus	116281-09-16 07:24 G	44192081.64	44192081.81	44192082.00	0.0140	0.0082
Venus	116282-04-30 17:44 G	44192308.06	44192308.24	44192308.45	0.0140	0.0064
Venus	116282-12-13 04:17 G	44192534.48	44192534.68	44192534.90	0.0140	0.0043
Venus	116283-07-27 14:22 G	44192760.89	44192761.10	44192761.32	0.0140	0.0024
Venus	116284-03-10 00:12 G	44192987.29	44192987.51	44192987.73	0.0140	0.0005
Venus	116284-10-22 09:48 G	44193213.69	44193213.91	44193214.13	0.0140	0.0015
Mercury	116285-02-20 01:24 G	44193334.52	44193334.56	44193334.64	0.0139	0.0131
Mercury	116285-05-19 07:53 G	44193422.73	44193422.83	44193422.96	0.0139	0.0106
Venus	116285-06-05 19:10 G	44193440.09	44193440.30	44193440.52	0.0139	0.0034
Mercury	116285-08-15 14:22 G	44193510.97	44193511.10	44193511.25	0.0139	0.0082
Mercury	116285-11-11 21:05 G	44193599.22	44193599.38	44193599.54	0.0139	0.0057
Venus	116286-01-18 04:17 G	44193666.49	44193666.68	44193666.89	0.0139	0.0053
Mercury	116286-02-08 03:34 G	44193687.48	44193687.65	44193687.82	0.0139	0.0032
Mercury	116286-05-07 10:03 G	44193775.75	44193775.92	44193776.10	0.0139	0.0007

Mercury	116286-08-03 16:46 G	44193864.02	44193864.20	44193864.37	0.0139	0.0018
Venus	116286-09-01 13:10 G	44193892.88	44193893.05	44193893.25	0.0139	0.0071
Mercury	116286-10-30 23:15 G	44193952.30	44193952.47	44193952.64	0.0139	0.0044
Mercury	116287-01-27 05:44 G	44194040.60	44194040.74	44194040.91	0.0139	0.0069
Venus	116287-04-15 22:03 G	44194119.27	44194119.42	44194119.60	0.0139	0.0089
Mercury	116287-04-25 12:41 G	44194128.90	44194129.03	44194129.16	0.0139	0.0094
Mercury	116287-07-22 19:10 G	44194217.22	44194217.30	44194217.40	0.0139	0.0120
Venus	116287-11-28 06:56 G	44194345.66	44194345.79	44194345.94	0.0139	0.0107
Venus	116288-07-11 15:20 G	44194572.06	44194572.14	44194572.24	0.0139	0.0125
Moon	116290-03-07 10:17 G	44195175.76	44195175.93	44195176.12	0.0138	0.0094
Earth	116290-03-07 10:17 G	44195175.77	44195175.93	44195176.12	0.0138	0.0100 *
Earth	116291-03-11 23:58 G	44195545.25	44195545.50	44195545.75	0.0138	0.0001
Moon	116291-03-12 00:12 G	44195545.25	44195545.51	44195545.77	0.0138	0.0007 *
Earth	116292-03-15 12:27 G	44195914.86	44195915.02	44195915.21	0.0138	0.0099
Moon	116292-03-15 12:12 G	44195914.87	44195915.01	44195915.18	0.0138	0.0105 *
Venus	116323-03-21 00:12 G	44207241.44	44207241.51	44207241.61	0.0137	0.0125
Venus	116323-11-02 06:41 G	44207467.66	44207467.78	44207467.92	0.0137	0.0109
Venus	116324-06-15 13:10 G	44207693.91	44207694.05	44207694.23	0.0138	0.0092
Venus	116325-01-27 20:08 G	44207920.16	44207920.34	44207920.52	0.0138	0.0074
Venus	116325-09-11 02:51 G	44208146.43	44208146.62	44208146.82	0.0138	0.0057
Venus	116326-04-25 10:03 G	44208372.71	44208372.92	44208373.13	0.0138	0.0038
Venus	116326-12-07 17:15 G	44208599.01	44208599.22	44208599.43	0.0138	0.0020
Venus	116327-07-22 00:27 G	44208825.31	44208825.52	44208825.74	0.0138	0.0003
Mercury	116328-02-27 15:48 G	44209046.14	44209046.16	44209046.21	0.0138	0.0134
Venus	116328-03-04 07:53 G	44209051.62	44209051.83	44209052.05	0.0138	0.0016
Mercury	116328-05-25 19:53 G	44209134.26	44209134.33	44209134.41	0.0139	0.0114
Mercury	116328-08-21 23:44 G	44209222.39	44209222.49	44209222.60	0.0139	0.0094
Venus	116328-10-16 15:20 G	44209277.94	44209278.14	44209278.36	0.0139	0.0035
Mercury	116328-11-18 03:48 G	44209310.54	44209310.66	44209310.78	0.0139	0.0074
Mercury	116329-02-14 07:39 G	44209398.69	44209398.82	44209398.95	0.0139	0.0054

Mercury	116329-05-13 11:29 G	44209486.85	44209486.98	44209487.12	0.0139	0.0034
Venus	116329-05-30 23:29 G	44209504.28	44209504.48	44209504.68	0.0139	0.0053
Mercury	116329-08-09 15:20 G	44209575.00	44209575.14	44209575.28	0.0139	0.0015
Mercury	116329-11-05 19:10 G	44209663.16	44209663.30	44209663.44	0.0139	0.0005
Venus	116330-01-12 07:10 G	44209730.63	44209730.80	44209731.00	0.0139	0.0072
Mercury	116330-02-01 23:00 G	44209751.32	44209751.46	44209751.60	0.0139	0.0025
Mercury	116330-05-01 02:51 G	44209839.49	44209839.62	44209839.75	0.0139	0.0044
Mercury	116330-07-28 06:27 G	44209927.65	44209927.77	44209927.90	0.0139	0.0064
Venus	116330-08-26 15:34 G	44209957.00	44209957.15	44209957.32	0.0139	0.0090
Mercury	116330-10-24 10:17 G	44210015.82	44210015.93	44210016.04	0.0139	0.0083
Mercury	116331-01-20 13:53 G	44210103.99	44210104.08	44210104.18	0.0139	0.0103
Venus	116331-04-09 23:58 G	44210183.38	44210183.50	44210183.64	0.0139	0.0109
Mercury	116331-04-18 17:44 G	44210192.18	44210192.24	44210192.31	0.0139	0.0122
Venus	116331-11-22 08:51 G	44210409.78	44210409.87	44210409.96	0.0139	0.0127
Earth	116333-09-03 23:00 G	44211061.27	44211061.46	44211061.68	0.0140	0.0083
Moon	116333-09-04 02:51 G	44211061.40	44211061.62	44211061.84	0.0140	0.0074 *
Jupiter	116334-02-21 18:12 G	44211231.96	44211232.26	44211232.58	0.0140	0.0110
Moon	116334-09-08 14:36 G	44211430.86	44211431.11	44211431.36	0.0140	0.0015
Earth	116334-09-08 17:44 G	44211430.99	44211431.24	44211431.50	0.0140	0.0023 *
Earth	116335-09-13 12:27 G	44211800.94	44211801.02	44211801.14	0.0140	0.0129
Moon	116335-09-13 16:03 G	44211801.11	44211801.17	44211801.27	0.0140	0.0133 *
Venus	116364-02-19 16:32 G	44222187.12	44222187.19	44222187.29	0.0141	0.0129
Venus	116364-10-03 03:20 G	44222413.52	44222413.64	44222413.80	0.0141	0.0110
Venus	116365-05-17 14:22 G	44222639.94	44222640.10	44222640.27	0.0140	0.0090
Venus	116365-12-30 00:41 G	44222866.35	44222866.53	44222866.73	0.0140	0.0071
Venus	116366-08-13 11:00 G	44223092.76	44223092.96	44223093.17	0.0140	0.0051
Venus	116367-03-27 21:20 G	44223319.17	44223319.39	44223319.60	0.0140	0.0031
Venus	116367-11-09 07:10 G	44223545.58	44223545.80	44223546.02	0.0140	0.0012
Venus	116368-06-22 17:00 G	44223771.99	44223772.21	44223772.43	0.0140	0.0008
Venus	116369-02-04 02:22 G	44223998.38	44223998.60	44223998.82	0.0139	0.0026

Mercury	116369-03-13 08:22 G	44224035.79	44224035.85	44224035.94	0.0139	0.0125
Mercury	116369-06-09 14:51 G	44224124.01	44224124.12	44224124.25	0.0139	0.0101
Mercury	116369-09-05 21:20 G	44224212.25	44224212.39	44224212.55	0.0139	0.0076
Venus	116369-09-18 11:29 G	44224224.78	44224224.98	44224225.19	0.0139	0.0045
Mercury	116369-12-03 03:48 G	44224300.50	44224300.66	44224300.83	0.0139	0.0052
Mercury	116370-03-01 10:32 G	44224388.76	44224388.94	44224389.11	0.0139	0.0027
Venus	116370-05-02 20:22 G	44224451.17	44224451.35	44224451.56	0.0139	0.0065
Mercury	116370-05-28 17:00 G	44224477.03	44224477.21	44224477.39	0.0139	0.0002
Mercury	116370-08-24 23:29 G	44224565.31	44224565.48	44224565.66	0.0139	0.0024
Mercury	116370-11-21 05:58 G	44224653.59	44224653.75	44224653.93	0.0139	0.0049
Venus	116370-12-15 05:44 G	44224677.57	44224677.74	44224677.92	0.0139	0.0082
Mercury	116371-02-17 12:41 G	44224741.88	44224742.03	44224742.19	0.0139	0.0074
Mercury	116371-05-16 19:10 G	44224830.19	44224830.30	44224830.44	0.0139	0.0100
Venus	116371-07-29 14:08 G	44224903.96	44224904.09	44224904.26	0.0139	0.0101
Mercury	116371-08-13 02:08 G	44224918.52	44224918.59	44224918.67	0.0139	0.0125
Venus	116372-03-11 22:32 G	44225130.35	44225130.44	44225130.57	0.0139	0.0119
Venus	116372-10-24 07:10 G	44225356.77	44225356.80	44225356.85	0.0138	0.0136
Moon	116374-03-08 19:24 G	44225857.12	44225857.31	44225857.52	0.0138	0.0089
Earth	116374-03-08 19:24 G	44225857.14	44225857.31	44225857.50	0.0138	0.0096 *
Earth	116375-03-13 09:05 G	44226226.62	44226226.88	44226227.13	0.0138	0.0004
Moon	116375-03-13 08:51 G	44226226.63	44226226.87	44226227.12	0.0138	0.0004 *
Earth	116376-03-16 21:48 G	44226596.24	44226596.41	44226596.58	0.0138	0.0102
Moon	116376-03-16 21:34 G	44226596.25	44226596.40	44226596.57	0.0138	0.0107 *
Mars	116386-09-25 02:51 G	44230440.37	44230440.62	44230440.88	0.0136	0.0075
Venus	116406-11-18 08:51 G	44237799.84	44237799.87	44237799.94	0.0137	0.0133
Venus	116407-07-02 15:20 G	44238026.04	44238026.14	44238026.27	0.0137	0.0116
Venus	116408-02-13 21:48 G	44238252.27	44238252.41	44238252.57	0.0138	0.0098
Venus	116408-09-27 04:32 G	44238478.52	44238478.69	44238478.87	0.0138	0.0081
Venus	116409-05-11 11:15 G	44238704.79	44238704.97	44238705.17	0.0138	0.0064
Venus	116409-12-23 18:12 G	44238931.07	44238931.26	44238931.47	0.0138	0.0046

Venus	116410-08-07 01:24 G	44239157.35	44239157.56	44239157.77	0.0138	0.0028
Venus	116411-03-21 08:36 G	44239383.64	44239383.86	44239384.07	0.0138	0.0009
Venus	116411-11-02 16:03 G	44239609.95	44239610.17	44239610.38	0.0138	0.0009
Mercury	116412-03-18 22:46 G	44239747.41	44239747.45	44239747.51	0.0139	0.0130
Mercury	116412-06-15 02:51 G	44239835.54	44239835.62	44239835.71	0.0139	0.0110
Venus	116412-06-15 23:29 G	44239836.28	44239836.48	44239836.70	0.0139	0.0028
Mercury	116412-09-11 06:41 G	44239923.68	44239923.78	44239923.90	0.0139	0.0090
Mercury	116412-12-08 10:46 G	44240011.83	44240011.95	44240012.08	0.0139	0.0070
Venus	116413-01-28 07:24 G	44240062.61	44240062.81	44240063.02	0.0139	0.0046
Mercury	116413-03-06 14:36 G	44240099.98	44240100.11	44240100.25	0.0139	0.0050
Mercury	116413-06-02 18:41 G	44240188.14	44240188.28	44240188.41	0.0139	0.0030
Mercury	116413-08-29 22:32 G	44240276.30	44240276.44	44240276.58	0.0139	0.0011
Venus	116413-09-11 15:05 G	44240288.95	44240289.13	44240289.33	0.0139	0.0065
Mercury	116413-11-26 02:22 G	44240364.46	44240364.60	44240364.74	0.0139	0.0010
Mercury	116414-02-22 05:58 G	44240452.62	44240452.75	44240452.89	0.0139	0.0029
Venus	116414-04-25 23:29 G	44240515.31	44240515.48	44240515.66	0.0139	0.0083
Mercury	116414-05-21 09:48 G	44240540.78	44240540.91	44240541.04	0.0139	0.0049
Mercury	116414-08-17 13:39 G	44240628.95	44240629.07	44240629.19	0.0139	0.0068
Mercury	116414-11-13 17:15 G	44240717.12	44240717.22	44240717.33	0.0139	0.0088
Venus	116414-12-08 07:39 G	44240741.69	44240741.82	44240741.98	0.0139	0.0102
Mercury	116415-02-09 20:51 G	44240805.30	44240805.37	44240805.47	0.0139	0.0107
Mercury	116415-05-09 00:41 G	44240893.48	44240893.53	44240893.59	0.0139	0.0126
Venus	116415-07-22 16:17 G	44240968.09	44240968.18	44240968.30	0.0139	0.0121
Venus	116416-03-05 01:10 G	44241194.54	44241194.55	44241194.58	0.0140	0.0139
Moon	116417-09-04 05:29 G	44241742.52	44241742.73	44241742.95	0.0140	0.0070
Earth	116417-09-04 08:36 G	44241742.66	44241742.86	44241743.08	0.0140	0.0078 *
Earth	116418-09-09 03:20 G	44242112.39	44242112.64	44242112.89	0.0140	0.0027
Moon	116418-09-09 06:27 G	44242112.52	44242112.77	44242113.03	0.0140	0.0021 *
Moon	116419-09-13 18:56 G	44242482.24	44242482.29	44242482.35	0.0140	0.0137
Earth	116419-09-13 22:03 G	44242482.37	44242482.42	44242482.52	0.0140	0.0134

Venus	116447-10-19 23:29 G	44252745.43	44252745.48	44252745.54	0.0141	0.0136
Venus	116448-06-02 10:32 G	44252971.82	44252971.94	44252972.06	0.0141	0.0117
Venus	116449-01-14 21:05 G	44253198.23	44253198.38	44253198.55	0.0140	0.0098
Venus	116449-08-29 07:24 G	44253424.65	44253424.81	44253425.01	0.0140	0.0079
Venus	116450-04-12 17:58 G	44253651.06	44253651.25	44253651.46	0.0140	0.0059
Venus	116450-11-25 04:17 G	44253877.48	44253877.68	44253877.90	0.0140	0.0039
Venus	116451-07-09 14:22 G	44254103.89	44254104.10	44254104.32	0.0140	0.0019
Venus	116452-02-21 00:12 G	44254330.29	44254330.51	44254330.73	0.0140	0.0001
Venus	116452-10-04 09:34 G	44254556.69	44254556.90	44254557.12	0.0140	0.0020
Mercury	116453-04-02 15:34 G	44254737.07	44254737.15	44254737.25	0.0139	0.0119
Venus	116453-05-18 18:56 G	44254783.09	44254783.29	44254783.51	0.0139	0.0039
Mercury	116453-06-29 22:03 G	44254825.30	44254825.42	44254825.55	0.0139	0.0095
Mercury	116453-09-26 04:17 G	44254913.54	44254913.68	44254913.85	0.0139	0.0071
Mercury	116453-12-23 11:00 G	44255001.80	44255001.96	44255002.13	0.0139	0.0045
Venus	116453-12-31 04:17 G	44255009.49	44255009.68	44255009.89	0.0139	0.0057
Mercury	116454-03-21 17:29 G	44255090.06	44255090.23	44255090.41	0.0139	0.0021
Mercury	116454-06-17 23:58 G	44255178.33	44255178.50	44255178.68	0.0139	0.0006
Venus	116454-08-14 13:10 G	44255235.88	44255236.05	44255236.25	0.0139	0.0076
Mercury	116454-09-14 06:27 G	44255266.60	44255266.77	44255266.95	0.0139	0.0030
Mercury	116454-12-11 13:10 G	44255354.89	44255355.05	44255355.22	0.0139	0.0055
Mercury	116455-03-09 19:53 G	44255443.19	44255443.33	44255443.48	0.0139	0.0080
Venus	116455-03-28 22:17 G	44255462.27	44255462.43	44255462.59	0.0139	0.0094
Mercury	116455-06-06 02:22 G	44255531.49	44255531.60	44255531.73	0.0139	0.0106
Mercury	116455-09-02 09:05 G	44255619.83	44255619.88	44255619.95	0.0139	0.0131
Venus	116455-11-10 07:10 G	44255688.67	44255688.80	44255688.92	0.0139	0.0112
Venus	116456-06-23 15:20 G	44255915.08	44255915.14	44255915.22	0.0138	0.0130
Earth	116458-03-09 05:15 G	44256538.55	44256538.72	44256538.93	0.0138	0.0092
Moon	116458-03-09 05:44 G	44256538.56	44256538.74	44256538.94	0.0138	0.0085 *
Jupiter	116459-02-19 10:17 G	44256885.48	44256885.93	44256886.45	0.0138	0.0056
Moon	116459-03-13 18:56 G	44256908.03	44256908.29	44256908.55	0.0138	0.0001

Earth	116459-03-13 18:56 G	44256908.04	44256908.29	44256908.55	0.0138	0.0008 *
Earth	116460-03-17 07:24 G	44257277.67	44257277.81	44257277.98	0.0138	0.0107
Moon	116460-03-17 07:39 G	44257277.69	44257277.82	44257277.97	0.0138	0.0112 *
Mars	116471-05-20 16:46 G	44261358.96	44261359.20	44261359.47	0.0136	0.0072
Venus	116491-03-01 23:58 G	44268584.42	44268584.50	44268584.61	0.0137	0.0123
Venus	116491-10-14 06:27 G	44268810.65	44268810.77	44268810.92	0.0137	0.0105
Venus	116492-05-27 13:24 G	44269036.89	44269037.06	44269037.22	0.0138	0.0088
Venus	116493-01-08 19:39 G	44269263.15	44269263.32	44269263.52	0.0138	0.0071
Venus	116493-08-23 02:36 G	44269489.42	44269489.61	44269489.82	0.0138	0.0053
Venus	116494-04-06 09:34 G	44269715.70	44269715.90	44269716.11	0.0138	0.0035
Venus	116494-11-18 16:46 G	44269941.99	44269942.20	44269942.42	0.0138	0.0017
Venus	116495-07-03 00:12 G	44270168.30	44270168.51	44270168.73	0.0138	0.0002
Venus	116496-02-14 07:39 G	44270394.61	44270394.82	44270395.04	0.0139	0.0020
Mercury	116496-04-08 05:44 G	44270448.70	44270448.74	44270448.81	0.0139	0.0126
Mercury	116496-07-05 09:48 G	44270536.83	44270536.91	44270537.01	0.0139	0.0106
Venus	116496-09-27 15:20 G	44270620.93	44270621.14	44270621.35	0.0139	0.0039
Mercury	116496-10-01 13:39 G	44270624.97	44270625.07	44270625.19	0.0139	0.0086
Mercury	116496-12-28 17:44 G	44270713.12	44270713.24	44270713.37	0.0139	0.0066
Mercury	116497-03-26 21:48 G	44270801.28	44270801.41	44270801.54	0.0139	0.0045
Venus	116497-05-11 23:15 G	44270847.28	44270847.47	44270847.67	0.0139	0.0058
Mercury	116497-06-23 01:39 G	44270889.43	44270889.57	44270889.71	0.0139	0.0026
Mercury	116497-09-19 05:29 G	44270977.59	44270977.73	44270977.87	0.0139	0.0006
Mercury	116497-12-16 09:20 G	44271065.75	44271065.89	44271066.03	0.0139	0.0014
Venus	116497-12-24 07:24 G	44271073.63	44271073.81	44271073.99	0.0139	0.0076
Mercury	116498-03-14 13:10 G	44271153.91	44271154.05	44271154.19	0.0139	0.0033
Mercury	116498-06-10 17:00 G	44271242.08	44271242.21	44271242.34	0.0139	0.0053
Venus	116498-08-07 15:34 G	44271300.00	44271300.15	44271300.31	0.0139	0.0095
Mercury	116498-09-06 20:51 G	44271330.25	44271330.37	44271330.48	0.0139	0.0073
Mercury	116498-12-04 00:12 G	44271418.42	44271418.51	44271418.63	0.0139	0.0093
Mercury	116499-03-02 04:03 G	44271506.60	44271506.67	44271506.76	0.0139	0.0111

Venus	116499-03-22 00:12 G	44271526.39	44271526.51	44271526.63	0.0139	0.0114
Mercury	116499-05-29 07:53 G	44271594.79	44271594.83	44271594.88	0.0139	0.0130
Venus	116499-11-03 08:22 G	44271752.81	44271752.85	44271752.94	0.0139	0.0133
Earth	116501-09-05 17:44 G	44272424.04	44272424.24	44272424.47	0.0140	0.0074
Moon	116501-09-05 21:20 G	44272424.17	44272424.39	44272424.63	0.0140	0.0066 *
Moon	116502-09-10 09:34 G	44272793.65	44272793.90	44272794.15	0.0140	0.0024
Earth	116502-09-10 12:41 G	44272793.78	44272794.03	44272794.28	0.0140	0.0031 *
Earth	116503-09-15 07:10 G	44273163.77	44273163.80	44273163.87	0.0141	0.0138
Moon	116503-09-15 11:00 G	44273163.94	44273163.96	44273163.98	0.0141	0.0140
Mars	116513-07-27 08:51 G	44276766.56	44276766.87	44276767.19	0.0142	0.0015
Venus	116532-02-01 16:46 G	44283530.12	44283530.20	44283530.32	0.0141	0.0125
Venus	116532-09-15 03:34 G	44283756.52	44283756.65	44283756.81	0.0140	0.0106
Venus	116533-04-29 14:36 G	44283982.94	44283983.11	44283983.28	0.0140	0.0086
Venus	116533-12-12 00:56 G	44284209.36	44284209.54	44284209.74	0.0140	0.0066
Venus	116534-07-26 11:29 G	44284435.77	44284435.98	44284436.18	0.0140	0.0046
Venus	116535-03-09 21:20 G	44284662.18	44284662.39	44284662.61	0.0140	0.0027
Venus	116535-10-22 07:24 G	44284888.59	44284888.81	44284889.03	0.0140	0.0007
Venus	116536-06-04 17:00 G	44285114.99	44285115.21	44285115.43	0.0140	0.0012
Venus	116537-01-17 02:36 G	44285341.40	44285341.61	44285341.82	0.0139	0.0031
Mercury	116537-01-25 16:17 G	44285350.17	44285350.18	44285350.22	0.0139	0.0138
Mercury	116537-04-23 22:32 G	44285438.36	44285438.44	44285438.56	0.0139	0.0114
Mercury	116537-07-21 05:15 G	44285526.59	44285526.72	44285526.86	0.0139	0.0089
Venus	116537-08-31 11:44 G	44285567.79	44285567.99	44285568.20	0.0139	0.0051
Mercury	116537-10-17 11:29 G	44285614.83	44285614.98	44285615.14	0.0139	0.0064
Mercury	116538-01-13 18:12 G	44285703.09	44285703.26	44285703.43	0.0139	0.0039
Mercury	116538-04-12 00:41 G	44285791.35	44285791.53	44285791.71	0.0139	0.0014
Venus	116538-04-14 20:51 G	44285794.19	44285794.37	44285794.57	0.0139	0.0069
Mercury	116538-07-09 07:10 G	44285879.62	44285879.80	44285879.98	0.0139	0.0011
Mercury	116538-10-05 13:39 G	44285967.90	44285968.07	44285968.25	0.0139	0.0036
Venus	116538-11-27 05:58 G	44286020.59	44286020.75	44286020.93	0.0139	0.0088

Mercury	116539-01-01 20:08 G	44286056.19	44286056.34	44286056.51	0.0139	0.0061
Mercury	116539-03-31 03:05 G	44286144.49	44286144.63	44286144.77	0.0139	0.0086
Mercury	116539-06-27 09:20 G	44286232.80	44286232.89	44286233.01	0.0139	0.0112
Venus	116539-07-11 14:51 G	44286246.99	44286247.12	44286247.27	0.0139	0.0106
Mercury	116539-09-23 16:17 G	44286321.16	44286321.18	44286321.21	0.0139	0.0137
Venus	116540-02-22 23:29 G	44286473.39	44286473.48	44286473.58	0.0139	0.0124
Moon	116542-03-10 15:20 G	44287219.94	44287220.14	44287220.36	0.0138	0.0080
Earth	116542-03-10 15:34 G	44287219.96	44287220.15	44287220.35	0.0138	0.0087 *
Earth	116543-03-15 05:00 G	44287589.46	44287589.71	44287589.96	0.0138	0.0012
Moon	116543-03-15 05:00 G	44287589.47	44287589.71	44287589.96	0.0138	0.0006 *
Moon	116544-03-18 17:15 G	44287959.09	44287959.22	44287959.38	0.0137	0.0115
Earth	116544-03-18 17:29 G	44287959.09	44287959.23	44287959.39	0.0137	0.0111 *
Venus	116574-10-31 08:22 G	44299142.80	44299142.85	44299142.94	0.0137	0.0130
Venus	116575-06-14 14:51 G	44299369.01	44299369.12	44299369.25	0.0137	0.0112
Venus	116576-01-26 21:05 G	44299595.24	44299595.38	44299595.55	0.0137	0.0096
Venus	116576-09-09 03:48 G	44299821.49	44299821.66	44299821.85	0.0138	0.0078
Venus	116577-04-23 10:46 G	44300047.76	44300047.95	44300048.15	0.0138	0.0060
Venus	116577-12-05 17:44 G	44300274.04	44300274.24	44300274.45	0.0138	0.0042
Venus	116578-07-20 00:41 G	44300500.32	44300500.53	44300500.75	0.0138	0.0024
Venus	116579-03-03 07:53 G	44300726.62	44300726.83	44300727.05	0.0138	0.0006
Venus	116579-10-15 15:20 G	44300952.93	44300953.14	44300953.36	0.0138	0.0013
Mercury	116580-04-29 12:41 G	44301149.98	44301150.03	44301150.11	0.0139	0.0122
Venus	116580-05-28 23:15 G	44301179.26	44301179.47	44301179.68	0.0139	0.0032
Mercury	116580-07-26 16:46 G	44301238.11	44301238.20	44301238.30	0.0139	0.0102
Mercury	116580-10-22 20:36 G	44301326.26	44301326.36	44301326.49	0.0139	0.0082
Venus	116581-01-10 06:56 G	44301405.59	44301405.79	44301406.00	0.0139	0.0051
Mercury	116581-01-19 00:41 G	44301414.41	44301414.53	44301414.66	0.0139	0.0062
Mercury	116581-04-17 04:32 G	44301502.56	44301502.69	44301502.83	0.0139	0.0042
Mercury	116581-07-14 08:36 G	44301590.72	44301590.86	44301591.00	0.0139	0.0022
Venus	116581-08-24 14:36 G	44301631.94	44301632.11	44301632.31	0.0139	0.0070

Mercury	116581-10-10 12:27 G	44301678.88	44301679.02	44301679.16	0.0139	0.0002
Mercury	116582-01-06 16:17 G	44301767.04	44301767.18	44301767.32	0.0139	0.0018
Mercury	116582-04-04 20:08 G	44301855.21	44301855.34	44301855.48	0.0139	0.0038
Venus	116582-04-07 23:00 G	44301858.30	44301858.46	44301858.63	0.0139	0.0088
Mercury	116582-07-01 23:58 G	44301943.37	44301943.50	44301943.63	0.0139	0.0057
Mercury	116582-09-28 03:48 G	44302031.54	44302031.66	44302031.77	0.0139	0.0077
Venus	116582-11-20 07:10 G	44302084.68	44302084.80	44302084.96	0.0139	0.0108
Mercury	116582-12-25 07:24 G	44302119.72	44302119.81	44302119.91	0.0139	0.0096
Mercury	116583-03-23 11:15 G	44302207.90	44302207.97	44302208.05	0.0139	0.0115
Mercury	116583-06-19 14:51 G	44302296.09	44302296.12	44302296.16	0.0139	0.0135
Venus	116583-07-04 16:03 G	44302311.09	44302311.17	44302311.27	0.0139	0.0126
Moon	116585-09-05 23:15 G	44303105.27	44303105.47	44303105.71	0.0140	0.0063
Earth	116585-09-06 02:51 G	44303105.41	44303105.62	44303105.85	0.0140	0.0070 *
Earth	116586-09-10 21:05 G	44303475.14	44303475.38	44303475.64	0.0140	0.0036
Moon	116586-09-11 00:12 G	44303475.27	44303475.51	44303475.78	0.0140	0.0030 *
Venus	116615-10-02 23:00 G	44314088.41	44314088.46	44314088.55	0.0141	0.0133
Venus	116616-05-16 10:17 G	44314314.80	44314314.93	44314315.06	0.0141	0.0113
Venus	116616-12-28 20:51 G	44314541.22	44314541.37	44314541.55	0.0140	0.0094
Venus	116617-08-12 07:39 G	44314767.63	44314767.82	44314768.01	0.0140	0.0074
Venus	116618-03-26 17:44 G	44314994.05	44314994.24	44314994.46	0.0140	0.0055
Venus	116618-11-08 04:17 G	44315220.47	44315220.68	44315220.90	0.0140	0.0034
Venus	116619-06-22 14:22 G	44315446.88	44315447.10	44315447.32	0.0140	0.0015
Venus	116620-02-04 00:12 G	44315673.29	44315673.51	44315673.73	0.0140	0.0005
Venus	116620-09-17 09:34 G	44315899.69	44315899.90	44315900.12	0.0139	0.0025
Mercury	116621-02-15 23:29 G	44316051.43	44316051.48	44316051.54	0.0139	0.0131
Venus	116621-05-01 19:10 G	44316126.10	44316126.30	44316126.51	0.0139	0.0044
Mercury	116621-05-15 05:44 G	44316139.64	44316139.74	44316139.86	0.0139	0.0107
Mercury	116621-08-11 12:12 G	44316227.88	44316228.01	44316228.16	0.0139	0.0083
Mercury	116621-11-07 18:41 G	44316316.12	44316316.28	44316316.44	0.0139	0.0058
Venus	116621-12-14 04:46 G	44316352.50	44316352.70	44316352.89	0.0139	0.0063

Mercury	116622-02-04 01:10 G	44316404.38	44316404.55	44316404.72	0.0139	0.0033
Mercury	116622-05-03 07:39 G	44316492.65	44316492.82	44316493.00	0.0139	0.0009
Venus	116622-07-28 13:39 G	44316578.90	44316579.07	44316579.25	0.0139	0.0081
Mercury	116622-07-30 14:08 G	44316580.92	44316581.09	44316581.27	0.0139	0.0017
Mercury	116622-10-26 20:36 G	44316669.20	44316669.36	44316669.54	0.0139	0.0042
Mercury	116623-01-23 03:20 G	44316757.49	44316757.64	44316757.80	0.0139	0.0067
Venus	116623-03-11 22:32 G	44316805.30	44316805.44	44316805.60	0.0139	0.0100
Mercury	116623-04-21 10:03 G	44316845.79	44316845.92	44316846.05	0.0139	0.0092
Mercury	116623-07-18 16:32 G	44316934.11	44316934.19	44316934.29	0.0139	0.0118
Venus	116623-10-24 07:10 G	44317031.70	44317031.80	44317031.93	0.0139	0.0118
Venus	116624-06-06 15:48 G	44317258.13	44317258.16	44317258.21	0.0138	0.0136
Moon	116626-03-12 01:53 G	44317901.37	44317901.58	44317901.78	0.0138	0.0076
Earth	116626-03-12 01:24 G	44317901.37	44317901.56	44317901.78	0.0138	0.0083 *
Moon	116627-03-16 14:51 G	44318270.87	44318271.12	44318271.39	0.0138	0.0011
Earth	116627-03-16 14:51 G	44318270.88	44318271.12	44318271.38	0.0138	0.0017 *
Earth	116628-03-20 03:20 G	44318640.52	44318640.64	44318640.79	0.0137	0.0115
Moon	116628-03-20 03:20 G	44318640.53	44318640.64	44318640.78	0.0137	0.0119 *
Mars	116638-10-08 22:46 G	44322495.16	44322495.45	44322495.75	0.0136	0.0034
Venus	116658-07-01 17:44 G	44329701.21	44329701.24	44329701.27	0.0137	0.0136
Venus	116659-02-12 23:29 G	44329927.39	44329927.48	44329927.60	0.0137	0.0119
Venus	116659-09-27 06:12 G	44330153.62	44330153.76	44330153.90	0.0137	0.0102
Venus	116660-05-10 12:27 G	44330379.87	44330380.02	44330380.20	0.0138	0.0085
Venus	116660-12-22 19:10 G	44330606.12	44330606.30	44330606.50	0.0138	0.0067
Venus	116661-08-06 01:53 G	44330832.39	44330832.58	44330832.79	0.0138	0.0049
Venus	116662-03-20 08:51 G	44331058.67	44331058.87	44331059.09	0.0138	0.0031
Venus	116662-11-01 16:17 G	44331284.96	44331285.18	44331285.39	0.0138	0.0012
Venus	116663-06-15 23:44 G	44331511.27	44331511.49	44331511.70	0.0138	0.0006
Venus	116664-01-28 07:10 G	44331737.59	44331737.80	44331738.01	0.0138	0.0025
Mercury	116664-02-22 16:03 G	44331763.15	44331763.17	44331763.19	0.0138	0.0137
Mercury	116664-05-20 19:53 G	44331851.26	44331851.33	44331851.41	0.0139	0.0117

Mercury	116664-08-16 23:58 G	44331939.40	44331939.50	44331939.60	0.0139	0.0097
Venus	116664-09-10 14:51 G	44331963.92	44331964.12	44331964.33	0.0139	0.0044
Mercury	116664-11-13 03:48 G	44332027.55	44332027.66	44332027.78	0.0139	0.0077
Mercury	116665-02-09 07:53 G	44332115.70	44332115.83	44332115.96	0.0139	0.0057
Venus	116665-04-24 22:46 G	44332190.26	44332190.45	44332190.65	0.0139	0.0063
Mercury	116665-05-08 11:44 G	44332203.85	44332203.99	44332204.13	0.0139	0.0037
Mercury	116665-08-04 15:34 G	44332292.01	44332292.15	44332292.29	0.0139	0.0017
Mercury	116665-10-31 19:24 G	44332380.17	44332380.31	44332380.46	0.0139	0.0005
Venus	116665-12-07 06:41 G	44332416.62	44332416.78	44332416.97	0.0139	0.0082
Mercury	116666-01-27 23:15 G	44332468.34	44332468.47	44332468.61	0.0139	0.0023
Mercury	116666-04-26 03:05 G	44332556.50	44332556.63	44332556.77	0.0139	0.0042
Venus	116666-07-21 15:20 G	44332642.99	44332643.14	44332643.29	0.0139	0.0100
Mercury	116666-07-23 06:56 G	44332644.67	44332644.79	44332644.92	0.0139	0.0062
Mercury	116666-10-19 10:46 G	44332732.84	44332732.95	44332733.06	0.0139	0.0081
Mercury	116667-01-15 14:36 G	44332821.02	44332821.11	44332821.20	0.0139	0.0100
Venus	116667-03-04 23:29 G	44332869.38	44332869.48	44332869.60	0.0139	0.0119
Mercury	116667-04-13 18:27 G	44332909.20	44332909.27	44332909.34	0.0139	0.0120
Mercury	116667-07-10 22:03 G	44332997.42	44332997.42	44332997.43	0.0139	0.0139
Venus	116667-10-17 08:08 G	44333095.82	44333095.84	44333095.88	0.0139	0.0138
Earth	116669-09-07 11:29 G	44333786.77	44333786.98	44333787.22	0.0140	0.0067
Moon	116669-09-07 15:05 G	44333786.90	44333787.13	44333787.37	0.0140	0.0059 *
Moon	116670-09-12 02:51 G	44334156.39	44334156.62	44334156.88	0.0140	0.0033
Earth	116670-09-12 06:12 G	44334156.52	44334156.76	44334157.01	0.0140	0.0038 *
Mars	116680-12-13 13:24 G	44337901.91	44337902.06	44337902.26	0.0142	0.0117
Venus	116699-06-02 05:29 G	44344646.72	44344646.73	44344646.75	0.0141	0.0140
Venus	116700-01-14 16:17 G	44344873.08	44344873.18	44344873.30	0.0141	0.0121
Venus	116700-08-29 02:51 G	44345099.49	44345099.62	44345099.79	0.0141	0.0102
Venus	116701-04-12 13:39 G	44345325.90	44345326.07	44345326.26	0.0140	0.0082
Venus	116701-11-25 00:27 G	44345552.33	44345552.52	44345552.72	0.0140	0.0062
Venus	116702-07-09 10:46 G	44345778.74	44345778.95	44345779.17	0.0140	0.0042

Venus	116703-02-20 21:05 G	44346005.16	44346005.38	44346005.59	0.0140	0.0022
Venus	116703-10-05 06:56 G	44346231.57	44346231.79	44346232.01	0.0140	0.0002
Venus	116704-05-18 16:32 G	44346457.98	44346458.19	44346458.42	0.0140	0.0018
Venus	116704-12-31 02:22 G	44346684.39	44346684.60	44346684.82	0.0139	0.0037
Mercury	116705-03-09 06:27 G	44346752.70	44346752.77	44346752.85	0.0139	0.0126
Mercury	116705-06-05 12:41 G	44346840.92	44346841.03	44346841.16	0.0139	0.0102
Venus	116705-08-14 11:29 G	44346910.79	44346910.98	44346911.20	0.0139	0.0057
Mercury	116705-09-01 19:10 G	44346929.16	44346929.30	44346929.45	0.0139	0.0077
Mercury	116705-11-29 01:39 G	44347017.41	44347017.57	44347017.74	0.0139	0.0052
Mercury	116706-02-25 08:08 G	44347105.67	44347105.84	44347106.02	0.0139	0.0028
Venus	116706-03-28 20:51 G	44347137.20	44347137.37	44347137.56	0.0139	0.0075
Mercury	116706-05-24 14:36 G	44347193.94	44347194.11	44347194.29	0.0139	0.0003
Mercury	116706-08-20 21:05 G	44347282.21	44347282.38	44347282.56	0.0139	0.0023
Venus	116706-11-10 05:44 G	44347363.60	44347363.74	44347363.92	0.0139	0.0094
Mercury	116706-11-17 03:34 G	44347370.49	44347370.65	44347370.83	0.0139	0.0048
Mercury	116707-02-13 10:17 G	44347458.78	44347458.93	44347459.09	0.0139	0.0073
Mercury	116707-05-12 17:00 G	44347547.09	44347547.21	44347547.34	0.0139	0.0098
Venus	116707-06-24 14:51 G	44347590.00	44347590.12	44347590.26	0.0139	0.0112
Mercury	116707-08-08 23:29 G	44347635.41	44347635.48	44347635.57	0.0139	0.0124
Venus	116708-02-05 23:29 G	44347816.42	44347816.48	44347816.57	0.0138	0.0130
Moon	116710-03-13 10:46 G	44348582.74	44348582.95	44348583.19	0.0138	0.0073
Earth	116710-03-13 11:00 G	44348582.76	44348582.96	44348583.17	0.0138	0.0079 *
Earth	116711-03-18 00:27 G	44348952.27	44348952.52	44348952.77	0.0138	0.0020
Moon	116711-03-18 00:27 G	44348952.28	44348952.52	44348952.76	0.0138	0.0014 *
Earth	116712-03-21 12:41 G	44349321.91	44349322.03	44349322.17	0.0137	0.0118
Moon	116712-03-21 12:27 G	44349321.92	44349322.02	44349322.16	0.0137	0.0121 *
Mars	116723-06-04 13:39 G	44353413.93	44353414.07	44353414.26	0.0136	0.0113
Venus	116742-10-14 07:53 G	44360485.77	44360485.83	44360485.94	0.0137	0.0127
Venus	116743-05-28 14:36 G	44360711.99	44360712.11	44360712.25	0.0137	0.0109
Venus	116744-01-09 20:51 G	44360938.23	44360938.37	44360938.54	0.0137	0.0092

Venus	116744-08-23 03:34 G	44361164.48	44361164.65	44361164.84	0.0138	0.0074
Venus	116745-04-06 10:17 G	44361390.74	44361390.93	44361391.13	0.0138	0.0056
Venus	116745-11-18 17:15 G	44361617.02	44361617.22	44361617.43	0.0138	0.0038
Venus	116746-07-03 00:27 G	44361843.31	44361843.52	44361843.73	0.0138	0.0019
Venus	116747-02-14 07:39 G	44362069.61	44362069.82	44362070.04	0.0138	0.0002
Venus	116747-09-28 15:05 G	44362295.92	44362296.13	44362296.35	0.0138	0.0018
Mercury	116748-03-14 23:00 G	44362464.42	44362464.46	44362464.50	0.0138	0.0133
Venus	116748-05-11 22:46 G	44362522.25	44362522.45	44362522.66	0.0139	0.0037
Mercury	116748-06-11 02:51 G	44362552.55	44362552.62	44362552.71	0.0139	0.0113
Mercury	116748-09-07 06:56 G	44362640.69	44362640.79	44362640.90	0.0139	0.0093
Mercury	116748-12-04 10:46 G	44362728.84	44362728.95	44362729.08	0.0139	0.0073
Venus	116748-12-24 06:41 G	44362748.59	44362748.78	44362748.98	0.0139	0.0056
Mercury	116749-03-02 14:51 G	44362816.99	44362817.12	44362817.25	0.0139	0.0053
Mercury	116749-05-29 18:41 G	44362905.15	44362905.28	44362905.42	0.0139	0.0033
Venus	116749-08-07 14:36 G	44362974.93	44362975.11	44362975.30	0.0139	0.0075
Mercury	116749-08-25 22:32 G	44362993.31	44362993.44	44362993.59	0.0139	0.0014
Mercury	116749-11-22 02:36 G	44363081.47	44363081.61	44363081.75	0.0139	0.0008
Mercury	116750-02-18 06:27 G	44363169.63	44363169.77	44363169.91	0.0139	0.0027
Venus	116750-03-21 22:32 G	44363201.30	44363201.44	44363201.61	0.0139	0.0094
Mercury	116750-05-17 10:17 G	44363257.80	44363257.93	44363258.06	0.0139	0.0046
Mercury	116750-08-13 13:53 G	44363345.96	44363346.08	44363346.21	0.0139	0.0066
Venus	116750-11-03 07:10 G	44363427.68	44363427.80	44363427.93	0.0139	0.0113
Mercury	116750-11-09 17:44 G	44363434.14	44363434.24	44363434.35	0.0139	0.0085
Mercury	116751-02-05 21:34 G	44363522.31	44363522.40	44363522.49	0.0139	0.0105
Mercury	116751-05-05 01:10 G	44363610.50	44363610.55	44363610.62	0.0139	0.0124
Venus	116751-06-17 15:34 G	44363654.09	44363654.15	44363654.23	0.0139	0.0132
Moon	116753-09-08 17:15 G	44364468.00	44364468.22	44364468.45	0.0140	0.0056
Earth	116753-09-08 20:22 G	44364468.14	44364468.35	44364468.59	0.0140	0.0064 *
Earth	116754-09-13 14:36 G	44364837.88	44364838.11	44364838.36	0.0140	0.0042
Moon	116754-09-13 17:44 G	44364838.00	44364838.24	44364838.50	0.0140	0.0037 *

Mars	116765-08-10 01:39 G	44368821.30	44368821.57	44368821.87	0.0142	0.0060
Venus	116783-09-14 22:17 G	44375431.36	44375431.43	44375431.53	0.0141	0.0129
Venus	116784-04-28 09:20 G	44375657.76	44375657.89	44375658.04	0.0141	0.0109
Venus	116784-12-10 20:08 G	44375884.18	44375884.34	44375884.52	0.0140	0.0089
Venus	116785-07-25 06:41 G	44376110.60	44376110.78	44376110.98	0.0140	0.0070
Venus	116786-03-08 17:15 G	44376337.02	44376337.22	44376337.43	0.0140	0.0050
Venus	116786-10-21 03:34 G	44376563.44	44376563.65	44376563.87	0.0140	0.0030
Venus	116787-06-04 13:53 G	44376789.86	44376790.08	44376790.30	0.0140	0.0010
Venus	116788-01-16 23:44 G	44377016.27	44377016.49	44377016.71	0.0140	0.0010
Venus	116788-08-30 09:34 G	44377242.68	44377242.90	44377243.11	0.0139	0.0030
Mercury	116789-03-29 13:39 G	44377453.98	44377454.07	44377454.16	0.0139	0.0120
Venus	116789-04-13 18:56 G	44377469.09	44377469.29	44377469.50	0.0139	0.0049
Mercury	116789-06-25 19:53 G	44377542.21	44377542.33	44377542.46	0.0139	0.0095
Mercury	116789-09-22 02:08 G	44377630.45	44377630.59	44377630.75	0.0139	0.0071
Venus	116789-11-26 04:17 G	44377695.50	44377695.68	44377695.88	0.0139	0.0069
Mercury	116789-12-19 08:36 G	44377718.70	44377718.86	44377719.03	0.0139	0.0046
Mercury	116790-03-17 15:05 G	44377806.96	44377807.13	44377807.31	0.0139	0.0022
Mercury	116790-06-13 21:34 G	44377895.23	44377895.40	44377895.58	0.0139	0.0005
Venus	116790-07-10 13:39 G	44377921.90	44377922.07	44377922.24	0.0139	0.0087
Mercury	116790-09-10 04:03 G	44377983.50	44377983.67	44377983.85	0.0139	0.0029
Mercury	116790-12-07 10:32 G	44378071.79	44378071.94	44378072.12	0.0139	0.0054
Venus	116791-02-21 22:17 G	44378148.31	44378148.43	44378148.59	0.0139	0.0106
Mercury	116791-03-05 17:15 G	44378160.08	44378160.22	44378160.37	0.0139	0.0079
Mercury	116791-06-01 23:58 G	44378248.39	44378248.50	44378248.62	0.0139	0.0104
Mercury	116791-08-29 06:27 G	44378336.72	44378336.77	44378336.84	0.0139	0.0130
Venus	116791-10-06 07:24 G	44378374.72	44378374.81	44378374.91	0.0139	0.0124
Earth	116794-03-13 20:22 G	44379264.15	44379264.35	44379264.58	0.0138	0.0076
Moon	116794-03-13 20:22 G	44379264.16	44379264.35	44379264.58	0.0138	0.0070 *
Moon	116795-03-18 09:48 G	44379633.65	44379633.91	44379634.17	0.0138	0.0018
Earth	116795-03-18 09:48 G	44379633.66	44379633.91	44379634.16	0.0138	0.0023 *

Earth	116796-03-21 21:48 G	44380003.31	44380003.41	44380003.55	0.0137	0.0122
Moon	116796-03-21 22:03 G	44380003.33	44380003.42	44380003.53	0.0137	0.0124 *
Venus	116826-06-13 17:29 G	44391044.19	44391044.23	44391044.29	0.0137	0.0133
Venus	116827-01-25 23:44 G	44391270.38	44391270.49	44391270.61	0.0137	0.0115
Venus	116827-09-09 05:44 G	44391496.61	44391496.74	44391496.91	0.0137	0.0099
Venus	116828-04-22 12:27 G	44391722.86	44391723.02	44391723.21	0.0138	0.0081
Venus	116828-12-04 19:10 G	44391949.12	44391949.30	44391949.50	0.0138	0.0063
Venus	116829-07-19 02:08 G	44392175.39	44392175.59	44392175.80	0.0138	0.0044
Venus	116830-03-02 09:05 G	44392401.67	44392401.88	44392402.10	0.0138	0.0026
Venus	116830-10-14 16:17 G	44392627.97	44392628.18	44392628.40	0.0138	0.0008
Venus	116831-05-28 23:58 G	44392854.28	44392854.50	44392854.71	0.0138	0.0012
Venus	116832-01-10 07:24 G	44393080.60	44393080.81	44393081.02	0.0138	0.0030
Mercury	116832-04-04 06:12 G	44393165.71	44393165.76	44393165.81	0.0139	0.0128
Mercury	116832-07-01 10:03 G	44393253.84	44393253.92	44393254.02	0.0139	0.0108
Venus	116832-08-23 14:51 G	44393306.93	44393307.12	44393307.33	0.0139	0.0050
Mercury	116832-09-27 14:08 G	44393341.98	44393342.09	44393342.20	0.0139	0.0088
Mercury	116832-12-24 17:58 G	44393430.13	44393430.25	44393430.38	0.0139	0.0068
Mercury	116833-03-22 22:03 G	44393518.29	44393518.42	44393518.55	0.0139	0.0048
Venus	116833-04-06 22:32 G	44393533.27	44393533.44	44393533.64	0.0139	0.0069
Mercury	116833-06-19 01:53 G	44393606.44	44393606.58	44393606.72	0.0139	0.0028
Mercury	116833-09-15 05:44 G	44393694.60	44393694.74	44393694.89	0.0139	0.0009
Venus	116833-11-19 06:56 G	44393759.62	44393759.79	44393759.96	0.0139	0.0087
Mercury	116833-12-12 09:34 G	44393782.77	44393782.90	44393783.05	0.0139	0.0013
Mercury	116834-03-10 13:24 G	44393870.93	44393871.06	44393871.20	0.0139	0.0032
Mercury	116834-06-06 17:15 G	44393959.10	44393959.22	44393959.36	0.0139	0.0051
Venus	116834-07-03 15:05 G	44393986.00	44393986.13	44393986.28	0.0139	0.0106
Mercury	116834-09-02 21:05 G	44394047.26	44394047.38	44394047.50	0.0139	0.0071
Mercury	116834-11-30 00:56 G	44394135.44	44394135.54	44394135.65	0.0139	0.0090
Venus	116835-02-14 23:15 G	44394212.40	44394212.47	44394212.58	0.0139	0.0126
Mercury	116835-02-26 04:46 G	44394223.61	44394223.70	44394223.78	0.0139	0.0109

Mercury	116835-05-25 08:22 G	44394311.81	44394311.85	44394311.91	0.0139	0.0129
Earth	116837-09-09 05:44 G	44395149.52	44395149.74	44395149.98	0.0140	0.0060
Moon	116837-09-09 09:05 G	44395149.65	44395149.88	44395150.13	0.0140	0.0053 *
Moon	116838-09-13 21:05 G	44395519.15	44395519.38	44395519.63	0.0140	0.0040
Earth	116838-09-14 00:12 G	44395519.27	44395519.51	44395519.76	0.0140	0.0045 *
Venus	116867-05-15 04:32 G	44405989.66	44405989.69	44405989.76	0.0141	0.0137
Venus	116867-12-27 15:48 G	44406216.05	44406216.16	44406216.29	0.0141	0.0117
Venus	116868-08-10 02:51 G	44406442.47	44406442.62	44406442.78	0.0141	0.0097
Venus	116869-03-24 13:24 G	44406668.89	44406669.06	44406669.25	0.0140	0.0077
Venus	116869-11-05 23:58 G	44406895.31	44406895.50	44406895.72	0.0140	0.0058
Venus	116870-06-20 10:32 G	44407121.73	44407121.94	44407122.16	0.0140	0.0037
Venus	116871-02-01 20:51 G	44407348.15	44407348.37	44407348.59	0.0140	0.0017
Venus	116871-09-16 06:56 G	44407574.57	44407574.79	44407575.01	0.0140	0.0004
Venus	116872-04-29 16:46 G	44407800.98	44407801.20	44407801.41	0.0140	0.0023
Venus	116872-12-12 02:22 G	44408027.40	44408027.60	44408027.82	0.0139	0.0042
Mercury	116873-01-20 14:22 G	44408067.08	44408067.10	44408067.12	0.0139	0.0138
Mercury	116873-04-18 20:36 G	44408155.27	44408155.36	44408155.46	0.0139	0.0114
Mercury	116873-07-16 02:51 G	44408243.49	44408243.62	44408243.76	0.0139	0.0089
Venus	116873-07-26 11:58 G	44408253.80	44408254.00	44408254.20	0.0139	0.0061
Mercury	116873-10-12 09:05 G	44408331.74	44408331.88	44408332.05	0.0139	0.0065
Mercury	116874-01-08 15:48 G	44408419.99	44408420.16	44408420.33	0.0139	0.0040
Venus	116874-03-09 20:51 G	44408480.21	44408480.37	44408480.56	0.0139	0.0081
Mercury	116874-04-06 22:17 G	44408508.25	44408508.43	44408508.60	0.0139	0.0015
Mercury	116874-07-04 04:46 G	44408596.52	44408596.70	44408596.88	0.0139	0.0010
Mercury	116874-09-30 11:15 G	44408684.80	44408684.97	44408685.14	0.0139	0.0035
Venus	116874-10-22 06:12 G	44408706.61	44408706.76	44408706.92	0.0139	0.0099
Mercury	116874-12-27 17:44 G	44408773.08	44408773.24	44408773.41	0.0139	0.0060
Mercury	116875-03-26 00:12 G	44408861.38	44408861.51	44408861.66	0.0139	0.0085
Venus	116875-06-05 14:51 G	44408933.02	44408933.12	44408933.25	0.0139	0.0118
Mercury	116875-06-22 06:56 G	44408949.69	44408949.79	44408949.90	0.0139	0.0110

Mercury	116875-09-18 13:24 G	44409038.04	44409038.06	44409038.11	0.0139	0.0136
Venus	116876-01-17 23:44 G	44409159.46	44409159.49	44409159.54	0.0139	0.0136
Earth	116878-03-14 05:58 G	44409945.54	44409945.75	44409945.98	0.0138	0.0072
Moon	116878-03-14 06:12 G	44409945.54	44409945.76	44409946.00	0.0138	0.0066 *
Moon	116879-03-18 19:10 G	44410315.06	44410315.30	44410315.54	0.0138	0.0023
Earth	116879-03-18 19:10 G	44410315.06	44410315.30	44410315.55	0.0138	0.0027 *
Earth	116880-03-22 07:24 G	44410684.72	44410684.81	44410684.93	0.0137	0.0125
Moon	116880-03-22 07:24 G	44410684.73	44410684.81	44410684.94	0.0137	0.0126 *
Mars	116890-10-21 18:12 G	44414549.96	44414550.26	44414550.57	0.0136	0.0005
Venus	116910-09-26 08:22 G	44421828.77	44421828.85	44421828.96	0.0137	0.0123
Venus	116911-05-10 14:36 G	44422054.99	44422055.11	44422055.26	0.0137	0.0106
Venus	116911-12-22 21:20 G	44422281.23	44422281.39	44422281.56	0.0137	0.0088
Venus	116912-08-05 03:48 G	44422507.48	44422507.66	44422507.85	0.0138	0.0070
Venus	116913-03-19 10:32 G	44422733.75	44422733.94	44422734.15	0.0138	0.0052
Venus	116913-10-31 17:29 G	44422960.03	44422960.23	44422960.45	0.0138	0.0033
Venus	116914-06-15 00:56 G	44423186.32	44423186.54	44423186.75	0.0138	0.0015
Venus	116915-01-27 08:08 G	44423412.63	44423412.84	44423413.06	0.0138	0.0004
Venus	116915-09-10 15:20 G	44423638.94	44423639.14	44423639.36	0.0138	0.0024
Venus	116916-04-23 23:00 G	44423865.26	44423865.46	44423865.67	0.0139	0.0042
Mercury	116916-04-25 12:56 G	44423866.99	44423867.04	44423867.12	0.0139	0.0124
Mercury	116916-07-22 17:00 G	44423955.13	44423955.21	44423955.31	0.0139	0.0104
Mercury	116916-10-18 21:05 G	44424043.27	44424043.38	44424043.50	0.0139	0.0083
Venus	116916-12-06 06:56 G	44424091.60	44424091.79	44424091.98	0.0139	0.0061
Mercury	116917-01-15 01:10 G	44424131.42	44424131.55	44424131.68	0.0139	0.0063
Mercury	116917-04-13 05:00 G	44424219.58	44424219.71	44424219.85	0.0139	0.0043
Mercury	116917-07-10 08:51 G	44424307.74	44424307.87	44424308.02	0.0139	0.0024
Venus	116917-07-20 14:51 G	44424317.95	44424318.12	44424318.30	0.0139	0.0080
Mercury	116917-10-06 12:56 G	44424395.90	44424396.04	44424396.18	0.0139	0.0004
Mercury	116918-01-02 16:46 G	44424484.06	44424484.20	44424484.34	0.0139	0.0016
Venus	116918-03-03 22:46 G	44424544.31	44424544.45	44424544.61	0.0139	0.0099

Mercury	116918-03-31 20:36 G	44424572.22	44424572.36	44424572.50	0.0139	0.0036
Mercury	116918-06-28 00:27 G	44424660.39	44424660.52	44424660.65	0.0139	0.0055
Mercury	116918-09-24 04:03 G	44424748.56	44424748.67	44424748.79	0.0139	0.0075
Venus	116918-10-16 06:56 G	44424770.69	44424770.79	44424770.92	0.0139	0.0119
Mercury	116918-12-21 07:53 G	44424836.73	44424836.83	44424836.94	0.0139	0.0095
Mercury	116919-03-19 11:44 G	44424924.91	44424924.99	44424925.07	0.0139	0.0114
Venus	116919-05-30 15:20 G	44424997.12	44424997.14	44424997.20	0.0139	0.0138
Mercury	116919-06-15 15:20 G	44425013.11	44425013.14	44425013.19	0.0139	0.0133
Moon	116921-09-10 11:15 G	44425830.75	44425830.97	44425831.22	0.0140	0.0050
Earth	116921-09-10 14:51 G	44425830.90	44425831.12	44425831.36	0.0140	0.0056 *
Earth	116922-09-15 08:51 G	44426200.65	44426200.87	44426201.12	0.0140	0.0050
Moon	116922-09-15 12:12 G	44426200.78	44426201.01	44426201.27	0.0140	0.0047 *
Mars	116932-12-27 09:48 G	44429956.65	44429956.91	44429957.18	0.0142	0.0071
Venus	116951-08-27 22:46 G	44436774.36	44436774.45	44436774.56	0.0141	0.0125
Venus	116952-04-10 09:48 G	44437000.78	44437000.91	44437001.07	0.0141	0.0105
Venus	116952-11-22 20:51 G	44437227.20	44437227.37	44437227.55	0.0140	0.0085
Venus	116953-07-07 07:39 G	44437453.63	44437453.82	44437454.02	0.0140	0.0065
Venus	116954-02-18 18:12 G	44437680.05	44437680.26	44437680.47	0.0140	0.0045
Venus	116954-10-03 04:17 G	44437906.47	44437906.68	44437906.90	0.0140	0.0025
Venus	116955-05-17 14:36 G	44438132.89	44438133.11	44438133.33	0.0140	0.0004
Venus	116955-12-30 00:41 G	44438359.31	44438359.53	44438359.75	0.0140	0.0016
Venus	116956-08-12 10:17 G	44438585.72	44438585.93	44438586.15	0.0139	0.0035
Mercury	116957-02-10 21:48 G	44438768.35	44438768.41	44438768.47	0.0139	0.0131
Venus	116957-03-26 19:39 G	44438812.13	44438812.32	44438812.53	0.0139	0.0055
Mercury	116957-05-10 04:03 G	44438856.56	44438856.67	44438856.78	0.0139	0.0107
Mercury	116957-08-06 10:17 G	44438944.79	44438944.93	44438945.08	0.0139	0.0082
Mercury	116957-11-02 16:32 G	44439033.04	44439033.19	44439033.36	0.0139	0.0058
Venus	116957-11-08 05:00 G	44439038.54	44439038.71	44439038.91	0.0139	0.0075
Mercury	116958-01-29 23:00 G	44439121.30	44439121.46	44439121.64	0.0139	0.0033
Mercury	116958-04-28 05:29 G	44439209.56	44439209.73	44439209.91	0.0139	0.0009

Venus	116958-06-22 14:22 G	44439264.95	44439265.10	44439265.27	0.0139	0.0093
Mercury	116958-07-25 11:58 G	44439297.83	44439298.00	44439298.18	0.0139	0.0017
Mercury	116958-10-21 18:27 G	44439386.11	44439386.27	44439386.45	0.0139	0.0042
Mercury	116959-01-18 00:56 G	44439474.39	44439474.54	44439474.71	0.0139	0.0067
Venus	116959-02-03 23:15 G	44439491.35	44439491.47	44439491.61	0.0139	0.0112
Mercury	116959-04-16 07:24 G	44439562.69	44439562.81	44439562.96	0.0139	0.0092
Mercury	116959-07-13 14:08 G	44439651.00	44439651.09	44439651.19	0.0139	0.0117
Venus	116959-09-18 08:08 G	44439717.77	44439717.84	44439717.92	0.0139	0.0130
Moon	116962-03-15 15:34 G	44440626.94	44440627.15	44440627.38	0.0138	0.0063
Earth	116962-03-15 16:32 G	44440626.97	44440627.19	44440627.41	0.0138	0.0067 *
Earth	116963-03-20 05:29 G	44440996.49	44440996.73	44440996.98	0.0138	0.0032
Moon	116963-03-20 05:58 G	44440996.50	44440996.75	44440997.01	0.0138	0.0029 *
Moon	116964-03-23 16:46 G	44441366.13	44441366.20	44441366.30	0.0137	0.0129
Earth	116964-03-23 17:15 G	44441366.16	44441366.22	44441366.33	0.0137	0.0130 *
Venus	116994-05-26 17:58 G	44452387.19	44452387.25	44452387.33	0.0137	0.0129
Venus	116995-01-07 23:58 G	44452613.39	44452613.50	44452613.64	0.0137	0.0113
Venus	116995-08-22 06:27 G	44452839.62	44452839.77	44452839.93	0.0137	0.0095
Venus	116996-04-04 12:56 G	44453065.87	44453066.04	44453066.23	0.0138	0.0077
Venus	116996-11-16 19:39 G	44453292.14	44453292.32	44453292.52	0.0138	0.0059
Venus	116997-07-01 02:36 G	44453518.41	44453518.61	44453518.82	0.0138	0.0040
Venus	116998-02-12 09:48 G	44453744.70	44453744.91	44453745.12	0.0138	0.0021
Venus	116998-09-26 16:46 G	44453970.99	44453971.20	44453971.42	0.0138	0.0004
Venus	116999-05-11 00:12 G	44454197.30	44454197.51	44454197.73	0.0138	0.0017
Venus	116999-12-23 07:39 G	44454423.62	44454423.82	44454424.03	0.0139	0.0036
Mercury	117000-05-16 20:08 G	44454568.28	44454568.34	44454568.42	0.0139	0.0119
Venus	117000-08-06 15:05 G	44454649.94	44454650.13	44454650.34	0.0139	0.0055
Mercury	117000-08-13 00:12 G	44454656.42	44454656.51	44454656.62	0.0139	0.0099
Mercury	117000-11-09 04:17 G	44454744.57	44454744.68	44454744.80	0.0139	0.0078

118TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 118th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	117001-02-05 08:22	G	44454832.72	44454832.85	44454832.98	0.0139	0.0058	
Venus	117001-03-20 22:46	G	44454876.28	44454876.45	44454876.65	0.0139	0.0074	
Mercury	117001-05-04 12:12	G	44454920.88	44454921.01	44454921.15	0.0139	0.0039	
Mercury	117001-07-31 16:03	G	44455009.04	44455009.17	44455009.32	0.0139	0.0019	
Mercury	117001-10-27 20:08	G	44455097.20	44455097.34	44455097.48	0.0139	0.0003	
Venus	117001-11-02 07:10	G	44455102.64	44455102.80	44455102.96	0.0139	0.0093	
Mercury	117002-01-23 23:58	G	44455185.36	44455185.50	44455185.64	0.0139	0.0021	
Mercury	117002-04-22 03:48	G	44455273.53	44455273.66	44455273.79	0.0139	0.0041	
Venus	117002-06-16 15:20	G	44455329.02	44455329.14	44455329.27	0.0139	0.0112	
Mercury	117002-07-19 07:24	G	44455361.69	44455361.81	44455361.94	0.0139	0.0061	
Mercury	117002-10-15 11:29	G	44455449.86	44455449.98	44455450.09	0.0139	0.0080	
Mercury	117003-01-11 15:05	G	44455538.04	44455538.13	44455538.23	0.0139	0.0099	
Venus	117003-01-28 23:29	G	44455555.42	44455555.48	44455555.57	0.0139	0.0131	
Mercury	117003-04-09 18:41	G	44455626.22	44455626.28	44455626.36	0.0139	0.0119	
Mercury	117003-07-06 22:32	G	44455714.43	44455714.44	44455714.47	0.0140	0.0138	
Earth	117005-09-12 00:27	G	44456512.29	44456512.52	44456512.76	0.0140	0.0052	
Moon	117005-09-12 04:17	G	44456512.43	44456512.68	44456512.92	0.0140	0.0047	*
Moon	117006-09-16 15:20	G	44456881.92	44456882.14	44456882.39	0.0140	0.0052	
Earth	117006-09-16 18:56	G	44456882.06	44456882.29	44456882.53	0.0140	0.0053	*

Mars	117017-08-23 22:32 G	44460876.26	44460876.44	44460876.66	0.0142	0.0109
Venus	117035-04-28 05:44 G	44467332.68	44467332.74	44467332.83	0.0141	0.0133
Venus	117035-12-10 17:00 G	44467559.09	44467559.21	44467559.35	0.0141	0.0113
Venus	117036-07-24 04:03 G	44467785.51	44467785.67	44467785.84	0.0141	0.0093
Venus	117037-03-07 14:51 G	44468011.94	44468012.12	44468012.32	0.0140	0.0073
Venus	117037-10-20 01:24 G	44468238.37	44468238.56	44468238.78	0.0140	0.0053
Venus	117038-06-03 11:58 G	44468464.79	44468465.00	44468465.22	0.0140	0.0032
Venus	117039-01-15 22:17 G	44468691.22	44468691.43	44468691.66	0.0140	0.0012
Venus	117039-08-30 08:22 G	44468917.63	44468917.85	44468918.07	0.0140	0.0009
Venus	117040-04-12 18:12 G	44469144.05	44469144.26	44469144.48	0.0140	0.0028
Venus	117040-11-25 03:48 G	44469370.47	44469370.66	44469370.88	0.0139	0.0049
Mercury	117041-03-04 05:15 G	44469469.64	44469469.72	44469469.80	0.0139	0.0124
Mercury	117041-05-31 11:29 G	44469557.86	44469557.98	44469558.10	0.0139	0.0099
Venus	117041-07-09 13:24 G	44469596.88	44469597.06	44469597.26	0.0139	0.0068
Mercury	117041-08-27 17:44 G	44469646.10	44469646.24	44469646.39	0.0139	0.0075
Mercury	117041-11-24 00:12 G	44469734.35	44469734.51	44469734.67	0.0139	0.0051
Mercury	117042-02-20 06:27 G	44469822.60	44469822.77	44469822.95	0.0139	0.0026
Venus	117042-02-20 22:32 G	44469823.28	44469823.44	44469823.62	0.0139	0.0087
Mercury	117042-05-19 12:56 G	44469910.87	44469911.04	44469911.22	0.0139	0.0003
Mercury	117042-08-15 19:24 G	44469999.14	44469999.31	44469999.49	0.0139	0.0024
Venus	117042-10-05 07:24 G	44470049.69	44470049.81	44470049.97	0.0139	0.0106
Mercury	117042-11-12 01:53 G	44470087.42	44470087.58	44470087.75	0.0139	0.0049
Mercury	117043-02-08 08:22 G	44470175.71	44470175.85	44470176.01	0.0139	0.0074
Mercury	117043-05-07 14:51 G	44470264.01	44470264.12	44470264.26	0.0139	0.0099
Venus	117043-05-19 16:32 G	44470276.10	44470276.19	44470276.29	0.0139	0.0124
Mercury	117043-08-03 21:34 G	44470352.33	44470352.40	44470352.49	0.0139	0.0124
Earth	117046-03-17 03:05 G	44471308.42	44471308.63	44471308.87	0.0138	0.0062
Moon	117046-03-17 04:17 G	44471308.45	44471308.68	44471308.92	0.0138	0.0058 *
Moon	117047-03-21 15:34 G	44471677.91	44471678.15	44471678.39	0.0138	0.0035
Earth	117047-03-21 16:03 G	44471677.93	44471678.17	44471678.42	0.0138	0.0037 *

Earth	117048-03-25 04:03 G	44472047.64	44472047.67	44472047.74	0.0137	0.0135
Moon	117048-03-25 05:29 G	44472047.67	44472047.73	44472047.81	0.0137	0.0132 *
Mars	117058-03-11 20:51 G	44475686.19	44475686.37	44475686.59	0.0136	0.0103
Venus	117078-01-25 02:51 G	44482945.60	44482945.62	44482945.63	0.0137	0.0136
Venus	117078-09-08 08:51 G	44483171.77	44483171.87	44483171.98	0.0137	0.0119
Venus	117079-04-22 15:20 G	44483398.00	44483398.14	44483398.28	0.0137	0.0102
Venus	117079-12-04 21:48 G	44483624.24	44483624.41	44483624.58	0.0137	0.0084
Venus	117080-07-18 04:17 G	44483850.50	44483850.68	44483850.87	0.0138	0.0066
Venus	117081-03-01 10:46 G	44484076.76	44484076.95	44484077.16	0.0138	0.0048
Venus	117081-10-13 17:58 G	44484303.04	44484303.25	44484303.46	0.0138	0.0029
Venus	117082-05-28 01:10 G	44484529.34	44484529.55	44484529.77	0.0138	0.0010
Venus	117083-01-09 08:22 G	44484755.64	44484755.85	44484756.07	0.0138	0.0009
Venus	117083-08-23 15:34 G	44484981.94	44484982.15	44484982.37	0.0138	0.0028
Mercury	117084-03-09 23:15 G	44485181.44	44485181.47	44485181.50	0.0139	0.0135
Venus	117084-04-05 23:15 G	44485208.26	44485208.47	44485208.67	0.0139	0.0047
Mercury	117084-06-06 03:05 G	44485269.56	44485269.63	44485269.72	0.0139	0.0115
Mercury	117084-09-02 07:10 G	44485357.70	44485357.80	44485357.91	0.0139	0.0095
Venus	117084-11-18 06:41 G	44485434.60	44485434.78	44485434.98	0.0139	0.0066
Mercury	117084-11-29 11:15 G	44485445.85	44485445.97	44485446.09	0.0139	0.0074
Mercury	117085-02-25 15:05 G	44485534.01	44485534.13	44485534.27	0.0139	0.0055
Mercury	117085-05-24 19:10 G	44485622.16	44485622.30	44485622.44	0.0139	0.0035
Venus	117085-07-02 14:51 G	44485660.95	44485661.12	44485661.29	0.0139	0.0085
Mercury	117085-08-20 23:00 G	44485710.32	44485710.46	44485710.61	0.0139	0.0015
Mercury	117085-11-17 03:05 G	44485798.49	44485798.63	44485798.77	0.0139	0.0006
Mercury	117086-02-13 06:56 G	44485886.65	44485886.79	44485886.93	0.0139	0.0025
Venus	117086-02-13 22:46 G	44485887.31	44485887.45	44485887.60	0.0139	0.0104
Mercury	117086-05-12 10:46 G	44485974.82	44485974.95	44485975.08	0.0139	0.0045
Mercury	117086-08-08 14:22 G	44486062.99	44486063.10	44486063.23	0.0139	0.0065
Venus	117086-09-28 06:41 G	44486113.70	44486113.78	44486113.90	0.0139	0.0124
Mercury	117086-11-04 18:27 G	44486151.16	44486151.27	44486151.38	0.0139	0.0084

Mercury	117087-01-31 22:03 G	44486239.33	44486239.42	44486239.52	0.0139	0.0103
Mercury	117087-04-30 01:39 G	44486327.52	44486327.57	44486327.65	0.0140	0.0123
Moon	117089-09-12 05:44 G	44487193.50	44487193.74	44487193.98	0.0140	0.0043
Earth	117089-09-12 09:05 G	44487193.66	44487193.88	44487194.14	0.0140	0.0048 *
Earth	117090-09-17 03:34 G	44487563.42	44487563.65	44487563.89	0.0140	0.0058
Moon	117090-09-17 07:10 G	44487563.57	44487563.80	44487564.04	0.0140	0.0057 *
Venus	117118-12-27 12:56 G	44497891.04	44497891.04	44497891.07	0.0141	0.0141
Venus	117119-08-11 00:12 G	44498117.41	44498117.51	44498117.63	0.0141	0.0121
Venus	117120-03-24 11:15 G	44498343.83	44498343.97	44498344.14	0.0141	0.0101
Venus	117120-11-05 22:17 G	44498570.26	44498570.43	44498570.62	0.0140	0.0080
Venus	117121-06-20 09:20 G	44498796.69	44498796.89	44498797.09	0.0140	0.0060
Venus	117122-02-01 19:53 G	44499023.12	44499023.33	44499023.54	0.0140	0.0039
Venus	117122-09-16 06:12 G	44499249.54	44499249.76	44499249.98	0.0140	0.0019
Venus	117123-04-30 16:17 G	44499475.96	44499476.18	44499476.41	0.0140	0.0003
Venus	117123-12-13 02:22 G	44499702.39	44499702.60	44499702.82	0.0140	0.0022
Venus	117124-07-26 12:12 G	44499928.80	44499929.01	44499929.22	0.0139	0.0041
Venus	117125-03-09 21:34 G	44500155.21	44500155.40	44500155.61	0.0139	0.0061
Mercury	117125-03-25 12:27 G	44500170.94	44500171.02	44500171.13	0.0139	0.0117
Mercury	117125-06-21 18:41 G	44500259.16	44500259.28	44500259.42	0.0139	0.0093
Mercury	117125-09-18 01:10 G	44500347.40	44500347.55	44500347.71	0.0139	0.0068
Venus	117125-10-22 06:56 G	44500381.62	44500381.79	44500381.98	0.0139	0.0080
Mercury	117125-12-15 07:39 G	44500435.65	44500435.82	44500435.99	0.0139	0.0043
Mercury	117126-03-13 14:08 G	44500523.91	44500524.09	44500524.26	0.0139	0.0019
Venus	117126-06-05 16:17 G	44500608.03	44500608.18	44500608.33	0.0139	0.0099
Mercury	117126-06-09 20:36 G	44500612.18	44500612.36	44500612.53	0.0139	0.0007
Mercury	117126-09-06 02:51 G	44500700.45	44500700.62	44500700.80	0.0139	0.0031
Mercury	117126-12-03 09:20 G	44500788.73	44500788.89	44500789.06	0.0139	0.0056
Venus	117127-01-18 01:10 G	44500834.45	44500834.55	44500834.67	0.0139	0.0118
Mercury	117127-03-01 15:48 G	44500877.02	44500877.16	44500877.31	0.0139	0.0081
Mercury	117127-05-28 22:32 G	44500965.33	44500965.44	44500965.56	0.0139	0.0106

Mercury	117127-08-25 05:15 G	44501053.66	44501053.72	44501053.77	0.0139	0.0131
Venus	117127-09-01 10:03 G	44501060.88	44501060.92	44501060.96	0.0139	0.0136
Moon	117130-03-18 13:10 G	44501989.83	44501990.05	44501990.28	0.0138	0.0054
Earth	117130-03-18 14:36 G	44501989.88	44501990.11	44501990.34	0.0138	0.0056 *
Earth	117131-03-23 03:20 G	44502359.41	44502359.64	44502359.89	0.0138	0.0042
Moon	117131-03-23 04:17 G	44502359.44	44502359.68	44502359.94	0.0138	0.0042 *
Moon	117132-03-26 14:22 G	44502729.09	44502729.10	44502729.13	0.0137	0.0137
Mars	117142-11-05 15:34 G	44506604.88	44506605.15	44506605.45	0.0136	0.0050
Venus	117162-05-09 18:12 G	44513730.19	44513730.26	44513730.36	0.0137	0.0126
Venus	117162-12-22 00:41 G	44513956.40	44513956.53	44513956.66	0.0137	0.0108
Venus	117163-08-05 06:56 G	44514182.64	44514182.79	44514182.96	0.0137	0.0091
Venus	117164-03-18 13:24 G	44514408.88	44514409.06	44514409.25	0.0137	0.0073
Venus	117164-10-30 19:53 G	44514635.14	44514635.33	44514635.54	0.0138	0.0055
Venus	117165-06-14 02:51 G	44514861.42	44514861.62	44514861.84	0.0138	0.0036
Venus	117166-01-26 10:03 G	44515087.70	44515087.92	44515088.13	0.0138	0.0017
Venus	117166-09-09 17:00 G	44515314.00	44515314.21	44515314.43	0.0138	0.0002
Venus	117167-04-24 00:12 G	44515540.30	44515540.51	44515540.73	0.0138	0.0021
Venus	117167-12-06 07:24 G	44515766.62	44515766.81	44515767.03	0.0139	0.0041
Mercury	117168-03-31 06:27 G	44515882.72	44515882.77	44515882.82	0.0139	0.0130
Mercury	117168-06-27 10:17 G	44515970.85	44515970.93	44515971.02	0.0139	0.0110
Venus	117168-07-19 15:05 G	44515992.94	44515993.13	44515993.33	0.0139	0.0060
Mercury	117168-09-23 14:22 G	44516059.00	44516059.10	44516059.21	0.0139	0.0090
Mercury	117168-12-20 18:12 G	44516147.15	44516147.26	44516147.39	0.0139	0.0070
Venus	117169-03-02 22:46 G	44516219.28	44516219.45	44516219.64	0.0139	0.0079
Mercury	117169-03-18 22:17 G	44516235.30	44516235.43	44516235.57	0.0139	0.0050
Mercury	117169-06-15 02:22 G	44516323.46	44516323.60	44516323.74	0.0139	0.0030
Mercury	117169-09-11 06:12 G	44516411.62	44516411.76	44516411.90	0.0139	0.0010
Venus	117169-10-15 06:56 G	44516445.64	44516445.79	44516445.94	0.0139	0.0097
Mercury	117169-12-08 10:03 G	44516499.78	44516499.92	44516500.06	0.0139	0.0010
Mercury	117170-03-06 13:53 G	44516587.95	44516588.08	44516588.22	0.0139	0.0030

Venus	117170-05-29 15:05 G	44516672.02	44516672.13	44516672.25	0.0139	0.0117
Mercury	117170-06-02 17:44 G	44516676.11	44516676.24	44516676.38	0.0139	0.0049
Mercury	117170-08-29 21:34 G	44516764.28	44516764.40	44516764.53	0.0139	0.0069
Mercury	117170-11-26 01:24 G	44516852.46	44516852.56	44516852.67	0.0139	0.0088
Venus	117171-01-10 23:15 G	44516898.43	44516898.47	44516898.53	0.0139	0.0136
Mercury	117171-02-22 05:15 G	44516940.64	44516940.72	44516940.81	0.0139	0.0108
Mercury	117171-05-21 09:05 G	44517028.83	44517028.88	44517028.94	0.0140	0.0127
Earth	117173-09-13 18:41 G	44517875.04	44517875.28	44517875.53	0.0140	0.0044
Moon	117173-09-13 22:32 G	44517875.20	44517875.44	44517875.69	0.0140	0.0041 *
Moon	117174-09-18 09:48 G	44518244.69	44518244.91	44518245.15	0.0140	0.0062
Earth	117174-09-18 13:24 G	44518244.84	44518245.06	44518245.29	0.0140	0.0062 *
Mars	117185-01-10 06:12 G	44522011.46	44522011.76	44522012.07	0.0143	0.0022
Venus	117203-04-10 07:10 G	44528675.72	44528675.80	44528675.89	0.0141	0.0128
Venus	117203-11-22 18:27 G	44528902.14	44528902.27	44528902.42	0.0141	0.0108
Venus	117204-07-06 05:29 G	44529128.57	44529128.73	44529128.91	0.0141	0.0088
Venus	117205-02-17 16:17 G	44529355.00	44529355.18	44529355.38	0.0140	0.0067
Venus	117205-10-02 02:51 G	44529581.43	44529581.62	44529581.84	0.0140	0.0047
Venus	117206-05-16 13:39 G	44529807.85	44529808.07	44529808.29	0.0140	0.0026
Venus	117206-12-28 23:58 G	44530034.28	44530034.50	44530034.73	0.0140	0.0007
Venus	117207-08-12 10:03 G	44530260.71	44530260.92	44530261.14	0.0140	0.0015
Venus	117208-03-25 19:53 G	44530487.12	44530487.33	44530487.55	0.0140	0.0035
Venus	117208-11-07 05:29 G	44530713.54	44530713.73	44530713.94	0.0139	0.0055
Mercury	117209-01-16 13:39 G	44530784.03	44530784.07	44530784.13	0.0139	0.0133
Mercury	117209-04-14 19:53 G	44530872.23	44530872.33	44530872.44	0.0139	0.0109
Venus	117209-06-21 14:51 G	44530939.95	44530940.12	44530940.32	0.0139	0.0074
Mercury	117209-07-12 02:08 G	44530960.46	44530960.59	44530960.74	0.0139	0.0085
Mercury	117209-10-08 08:22 G	44531048.70	44531048.85	44531049.02	0.0139	0.0061
Mercury	117210-01-04 15:05 G	44531136.96	44531137.13	44531137.30	0.0139	0.0036
Venus	117210-02-03 00:12 G	44531166.36	44531166.51	44531166.68	0.0139	0.0093
Mercury	117210-04-02 21:20 G	44531225.22	44531225.39	44531225.57	0.0139	0.0012

Mercury	117210-06-30 03:48 G	44531313.48	44531313.66	44531313.84	0.0139	0.0013
Venus	117210-09-17 09:05 G	44531392.77	44531392.88	44531393.03	0.0139	0.0112
Mercury	117210-09-26 10:17 G	44531401.76	44531401.93	44531402.10	0.0139	0.0038
Mercury	117210-12-23 16:32 G	44531490.04	44531490.19	44531490.36	0.0139	0.0063
Mercury	117211-03-21 23:00 G	44531578.33	44531578.46	44531578.61	0.0139	0.0088
Venus	117211-05-01 17:44 G	44531619.19	44531619.24	44531619.34	0.0139	0.0131
Mercury	117211-06-18 05:44 G	44531666.64	44531666.74	44531666.85	0.0139	0.0113
Mercury	117211-09-14 12:27 G	44531755.01	44531755.02	44531755.03	0.0139	0.0138
Earth	117214-03-19 01:24 G	44532671.33	44532671.56	44532671.80	0.0138	0.0051
Moon	117214-03-19 02:51 G	44532671.38	44532671.62	44532671.87	0.0138	0.0050 *
Moon	117215-03-23 13:10 G	44533040.83	44533041.05	44533041.29	0.0138	0.0048
Earth	117215-03-23 14:08 G	44533040.86	44533041.09	44533041.34	0.0138	0.0048 *
Venus	117246-01-07 03:05 G	44544288.60	44544288.63	44544288.70	0.0137	0.0133
Venus	117246-08-21 09:34 G	44544514.79	44544514.90	44544515.02	0.0137	0.0115
Venus	117247-04-04 15:48 G	44544741.02	44544741.16	44544741.31	0.0137	0.0098
Venus	117247-11-16 22:17 G	44544967.26	44544967.43	44544967.60	0.0137	0.0080
Venus	117248-06-30 04:32 G	44545193.51	44545193.69	44545193.90	0.0138	0.0062
Venus	117249-02-11 11:29 G	44545419.78	44545419.98	44545420.18	0.0138	0.0043
Venus	117249-09-25 18:12 G	44545646.05	44545646.26	44545646.47	0.0138	0.0024
Venus	117250-05-10 01:10 G	44545872.34	44545872.55	44545872.77	0.0138	0.0006
Venus	117250-12-22 08:22 G	44546098.64	44546098.85	44546099.07	0.0138	0.0014
Venus	117251-08-05 15:34 G	44546324.94	44546325.15	44546325.36	0.0138	0.0033
Venus	117252-03-18 22:46 G	44546551.26	44546551.45	44546551.66	0.0139	0.0053
Mercury	117252-04-20 13:10 G	44546584.00	44546584.05	44546584.12	0.0139	0.0126
Mercury	117252-07-17 17:15 G	44546672.13	44546672.22	44546672.32	0.0139	0.0106
Mercury	117252-10-13 21:20 G	44546760.28	44546760.39	44546760.50	0.0139	0.0086
Venus	117252-10-31 06:41 G	44546777.59	44546777.78	44546777.96	0.0139	0.0071
Mercury	117253-01-10 01:10 G	44546848.43	44546848.55	44546848.68	0.0139	0.0066
Mercury	117253-04-08 05:15 G	44546936.59	44546936.72	44546936.86	0.0139	0.0046
Venus	117253-06-14 14:36 G	44547003.95	44547004.11	44547004.27	0.0139	0.0090

Mercury	117253-07-05 09:05 G	44547024.75	44547024.88	44547025.03	0.0139	0.0026
Mercury	117253-10-01 13:10 G	44547112.91	44547113.05	44547113.19	0.0139	0.0006
Mercury	117253-12-28 17:00 G	44547201.07	44547201.21	44547201.35	0.0139	0.0014
Venus	117254-01-26 22:32 G	44547230.31	44547230.44	44547230.58	0.0139	0.0110
Mercury	117254-03-26 20:51 G	44547289.24	44547289.37	44547289.51	0.0139	0.0034
Mercury	117254-06-23 00:41 G	44547377.40	44547377.53	44547377.66	0.0139	0.0053
Venus	117254-09-10 06:41 G	44547456.70	44547456.78	44547456.86	0.0139	0.0129
Mercury	117254-09-19 04:32 G	44547465.57	44547465.69	44547465.81	0.0139	0.0073
Mercury	117254-12-16 08:22 G	44547553.75	44547553.85	44547553.96	0.0139	0.0092
Mercury	117255-03-14 12:12 G	44547641.93	44547642.01	44547642.09	0.0139	0.0112
Mercury	117255-06-10 16:03 G	44547730.13	44547730.17	44547730.22	0.0139	0.0131
Moon	117257-09-13 23:44 G	44548556.26	44548556.49	44548556.75	0.0140	0.0039
Earth	117257-09-14 03:34 G	44548556.41	44548556.65	44548556.90	0.0140	0.0041 *
Earth	117258-09-18 22:17 G	44548926.21	44548926.43	44548926.66	0.0140	0.0065
Moon	117258-09-19 01:39 G	44548926.35	44548926.57	44548926.80	0.0140	0.0067 *
Jupiter	117259-07-15 15:05 G	44549225.79	44549226.13	44549226.53	0.0141	0.0095
Venus	117286-12-08 14:08 G	44559234.04	44559234.09	44559234.15	0.0141	0.0136
Venus	117287-07-23 01:24 G	44559460.45	44559460.56	44559460.69	0.0141	0.0116
Venus	117288-03-05 12:27 G	44559686.87	44559687.02	44559687.20	0.0141	0.0096
Venus	117288-10-17 23:44 G	44559913.31	44559913.49	44559913.68	0.0140	0.0075
Venus	117289-06-01 10:17 G	44560139.74	44560139.93	44560140.15	0.0140	0.0055
Venus	117290-01-13 21:20 G	44560366.17	44560366.39	44560366.60	0.0140	0.0033
Venus	117290-08-28 07:39 G	44560592.60	44560592.82	44560593.04	0.0140	0.0013
Venus	117291-04-11 17:44 G	44560819.02	44560819.24	44560819.46	0.0140	0.0008
Venus	117291-11-24 03:48 G	44561045.45	44561045.66	44561045.88	0.0140	0.0028
Venus	117292-07-07 13:39 G	44561271.87	44561272.07	44561272.28	0.0139	0.0048
Mercury	117293-02-05 20:51 G	44561485.31	44561485.37	44561485.46	0.0139	0.0127
Venus	117293-02-18 23:00 G	44561498.28	44561498.46	44561498.66	0.0139	0.0068
Mercury	117293-05-05 03:05 G	44561573.53	44561573.63	44561573.76	0.0139	0.0103
Mercury	117293-08-01 09:34 G	44561661.76	44561661.90	44561662.05	0.0139	0.0078

Venus	117293-10-03 08:08 G	44561724.69	44561724.84	44561725.03	0.0139	0.0087
Mercury	117293-10-28 15:48 G	44561750.01	44561750.16	44561750.33	0.0139	0.0054
Mercury	117294-01-24 22:17 G	44561838.26	44561838.43	44561838.60	0.0139	0.0029
Mercury	117294-04-23 04:46 G	44561926.52	44561926.70	44561926.87	0.0139	0.0005
Venus	117294-05-17 17:15 G	44561951.10	44561951.22	44561951.38	0.0139	0.0106
Mercury	117294-07-20 11:15 G	44562014.79	44562014.97	44562015.14	0.0139	0.0020
Mercury	117294-10-16 17:29 G	44562103.07	44562103.23	44562103.40	0.0139	0.0045
Venus	117294-12-30 02:22 G	44562177.53	44562177.60	44562177.71	0.0139	0.0125
Mercury	117295-01-12 23:58 G	44562191.35	44562191.50	44562191.66	0.0139	0.0070
Mercury	117295-04-11 06:27 G	44562279.65	44562279.77	44562279.91	0.0139	0.0095
Mercury	117295-07-08 13:10 G	44562367.96	44562368.05	44562368.14	0.0139	0.0120
Moon	117298-03-19 10:46 G	44563352.72	44563352.95	44563353.18	0.0138	0.0046
Earth	117298-03-19 12:27 G	44563352.79	44563353.02	44563353.26	0.0138	0.0046 *
Earth	117299-03-24 01:39 G	44563722.33	44563722.57	44563722.80	0.0138	0.0052
Moon	117299-03-24 02:36 G	44563722.39	44563722.61	44563722.87	0.0138	0.0055 *
Mars	117310-03-25 22:46 G	44567741.17	44567741.45	44567741.73	0.0136	0.0054
Venus	117330-04-21 19:24 G	44575073.23	44575073.31	44575073.42	0.0137	0.0122
Venus	117330-12-04 01:39 G	44575299.44	44575299.57	44575299.72	0.0137	0.0104
Venus	117331-07-18 07:53 G	44575525.67	44575525.83	44575526.00	0.0137	0.0086
Venus	117332-02-29 14:22 G	44575751.92	44575752.10	44575752.29	0.0137	0.0068
Venus	117332-10-12 20:51 G	44575978.18	44575978.37	44575978.58	0.0138	0.0050
Venus	117333-05-27 03:48 G	44576204.45	44576204.66	44576204.87	0.0138	0.0031
Venus	117334-01-08 10:32 G	44576430.73	44576430.94	44576431.16	0.0138	0.0012
Venus	117334-08-22 17:29 G	44576657.02	44576657.23	44576657.45	0.0138	0.0007
Venus	117335-04-06 00:27 G	44576883.32	44576883.52	44576883.74	0.0138	0.0027
Venus	117335-11-18 07:53 G	44577109.63	44577109.83	44577110.04	0.0138	0.0045
Mercury	117336-05-11 20:22 G	44577285.29	44577285.35	44577285.43	0.0139	0.0121
Venus	117336-07-01 15:20 G	44577335.96	44577336.14	44577336.34	0.0139	0.0065
Mercury	117336-08-08 00:27 G	44577373.43	44577373.52	44577373.63	0.0139	0.0101
Mercury	117336-11-04 04:32 G	44577461.58	44577461.69	44577461.81	0.0139	0.0080

Mercury	117337-01-31 08:36 G	44577549.73	44577549.86	44577549.99	0.0139	0.0060
Venus	117337-02-12 23:00 G	44577562.30	44577562.46	44577562.64	0.0139	0.0084
Mercury	117337-04-29 12:27 G	44577637.89	44577638.02	44577638.16	0.0139	0.0041
Mercury	117337-07-26 16:32 G	44577726.05	44577726.19	44577726.33	0.0139	0.0020
Venus	117337-09-27 06:56 G	44577788.66	44577788.79	44577788.94	0.0139	0.0103
Mercury	117337-10-22 20:22 G	44577814.21	44577814.35	44577814.49	0.0139	0.0003
Mercury	117338-01-19 00:12 G	44577902.37	44577902.51	44577902.65	0.0139	0.0020
Mercury	117338-04-17 04:03 G	44577990.54	44577990.67	44577990.81	0.0139	0.0039
Venus	117338-05-11 15:05 G	44578015.04	44578015.13	44578015.24	0.0139	0.0122
Mercury	117338-07-14 08:08 G	44578078.71	44578078.84	44578078.96	0.0139	0.0059
Mercury	117338-10-10 11:44 G	44578166.88	44578166.99	44578167.11	0.0139	0.0078
Mercury	117339-01-06 15:34 G	44578255.06	44578255.15	44578255.25	0.0139	0.0098
Mercury	117339-04-04 19:10 G	44578343.24	44578343.30	44578343.39	0.0139	0.0118
Mercury	117339-07-01 23:00 G	44578431.45	44578431.46	44578431.50	0.0139	0.0137
Earth	117340-09-10 20:08 G	44578868.33	44578868.34	44578868.37	0.0140	0.0139
Earth	117341-09-15 13:53 G	44579237.84	44579238.08	44579238.34	0.0140	0.0036
Moon	117341-09-15 17:58 G	44579238.00	44579238.25	44579238.49	0.0140	0.0035 *
Moon	117342-09-20 05:00 G	44579607.51	44579607.71	44579607.94	0.0140	0.0073
Earth	117342-09-20 08:36 G	44579607.65	44579607.86	44579608.09	0.0140	0.0069 *
Venus	117371-03-23 08:08 G	44590018.75	44590018.84	44590018.96	0.0141	0.0124
Venus	117371-11-04 19:39 G	44590245.18	44590245.32	44590245.48	0.0141	0.0103
Venus	117372-06-18 06:41 G	44590471.61	44590471.78	44590471.97	0.0141	0.0083
Venus	117373-01-30 17:44 G	44590698.05	44590698.24	44590698.44	0.0140	0.0062
Venus	117373-09-14 04:17 G	44590924.48	44590924.68	44590924.90	0.0140	0.0041
Venus	117374-04-28 15:05 G	44591150.91	44591151.13	44591151.35	0.0140	0.0020
Venus	117374-12-11 01:24 G	44591377.34	44591377.56	44591377.78	0.0140	0.0001
Venus	117375-07-25 11:29 G	44591603.76	44591603.98	44591604.20	0.0140	0.0021
Venus	117376-03-07 21:20 G	44591830.18	44591830.39	44591830.60	0.0140	0.0041
Venus	117376-10-20 06:56 G	44592056.60	44592056.79	44592056.99	0.0139	0.0061
Mercury	117377-02-27 04:17 G	44592186.60	44592186.68	44592186.78	0.0139	0.0120

Mercury	117377-05-26 10:32 G	44592274.82	44592274.94	44592275.07	0.0139	0.0096
Venus	117377-06-03 16:17 G	44592283.01	44592283.18	44592283.37	0.0139	0.0080
Mercury	117377-08-22 16:46 G	44592363.06	44592363.20	44592363.36	0.0139	0.0072
Mercury	117377-11-18 23:00 G	44592451.31	44592451.46	44592451.64	0.0139	0.0048
Venus	117378-01-16 01:53 G	44592509.43	44592509.58	44592509.73	0.0139	0.0099
Mercury	117378-02-15 05:29 G	44592539.56	44592539.73	44592539.91	0.0139	0.0023
Mercury	117378-05-14 11:58 G	44592627.83	44592628.00	44592628.18	0.0139	0.0003
Mercury	117378-08-10 18:27 G	44592716.10	44592716.27	44592716.44	0.0139	0.0027
Venus	117378-08-30 11:00 G	44592735.85	44592735.96	44592736.07	0.0139	0.0118
Mercury	117378-11-07 00:41 G	44592804.37	44592804.53	44592804.70	0.0139	0.0052
Mercury	117379-02-03 07:10 G	44592892.66	44592892.80	44592892.96	0.0139	0.0077
Venus	117379-04-13 19:39 G	44592962.30	44592962.32	44592962.36	0.0139	0.0137
Mercury	117379-05-02 13:39 G	44592980.96	44592981.07	44592981.20	0.0139	0.0102
Mercury	117379-07-29 20:22 G	44593069.29	44593069.35	44593069.43	0.0139	0.0127
Earth	117382-03-20 23:29 G	44594034.24	44594034.48	44594034.73	0.0138	0.0041
Moon	117382-03-21 01:39 G	44594034.33	44594034.57	44594034.83	0.0138	0.0043 *
Moon	117383-03-25 10:46 G	44594403.74	44594403.95	44594404.18	0.0138	0.0061
Earth	117383-03-25 12:41 G	44594403.80	44594404.03	44594404.26	0.0138	0.0057 *
Mars	117394-11-18 18:27 G	44598660.06	44598660.27	44598660.48	0.0135	0.0098
Venus	117413-12-21 04:46 G	44605631.65	44605631.70	44605631.79	0.0137	0.0129
Venus	117414-08-04 10:46 G	44605857.85	44605857.95	44605858.09	0.0137	0.0112
Venus	117415-03-18 17:00 G	44606084.07	44606084.21	44606084.38	0.0137	0.0093
Venus	117415-10-30 23:15 G	44606310.30	44606310.47	44606310.66	0.0137	0.0075
Venus	117416-06-13 05:58 G	44606536.56	44606536.75	44606536.95	0.0138	0.0057
Venus	117417-01-25 12:41 G	44606762.82	44606763.03	44606763.23	0.0138	0.0038
Venus	117417-09-08 19:24 G	44606989.09	44606989.31	44606989.52	0.0138	0.0019
Venus	117418-04-23 02:08 G	44607215.38	44607215.59	44607215.81	0.0138	0.0001
Venus	117418-12-05 09:05 G	44607441.67	44607441.88	44607442.10	0.0138	0.0019
Venus	117419-07-19 16:17 G	44607667.98	44607668.18	44607668.39	0.0138	0.0039
Venus	117420-03-01 23:44 G	44607894.30	44607894.49	44607894.69	0.0139	0.0058

Mercury	117420-03-05 23:44 G	44607898.46	44607898.49	44607898.51	0.0139	0.0136
Mercury	117420-06-02 03:34 G	44607986.58	44607986.65	44607986.73	0.0139	0.0116
Mercury	117420-08-29 07:39 G	44608074.72	44608074.82	44608074.93	0.0139	0.0096
Venus	117420-10-14 07:10 G	44608120.63	44608120.80	44608120.99	0.0139	0.0077
Mercury	117420-11-25 11:44 G	44608162.87	44608162.99	44608163.11	0.0139	0.0076
Mercury	117421-02-21 15:34 G	44608251.03	44608251.15	44608251.29	0.0139	0.0056
Mercury	117421-05-20 19:39 G	44608339.18	44608339.32	44608339.46	0.0139	0.0036
Venus	117421-05-28 15:05 G	44608346.98	44608347.13	44608347.29	0.0139	0.0096
Mercury	117421-08-16 23:44 G	44608427.34	44608427.49	44608427.63	0.0139	0.0016
Mercury	117421-11-13 03:34 G	44608515.51	44608515.65	44608515.79	0.0139	0.0004
Venus	117422-01-09 23:15 G	44608573.35	44608573.47	44608573.59	0.0139	0.0115
Mercury	117422-02-09 07:24 G	44608603.67	44608603.81	44608603.95	0.0139	0.0024
Mercury	117422-05-08 11:15 G	44608691.84	44608691.97	44608692.11	0.0139	0.0044
Mercury	117422-08-04 15:05 G	44608780.01	44608780.13	44608780.26	0.0139	0.0063
Venus	117422-08-24 07:24 G	44608799.76	44608799.81	44608799.86	0.0139	0.0135
Mercury	117422-10-31 18:41 G	44608868.18	44608868.28	44608868.41	0.0139	0.0084
Mercury	117423-01-27 22:46 G	44608956.36	44608956.45	44608956.55	0.0139	0.0102
Mercury	117423-04-26 02:36 G	44609044.55	44609044.61	44609044.68	0.0139	0.0122
Earth	117424-09-12 05:29 G	44609549.68	44609549.73	44609549.80	0.0140	0.0135
Moon	117424-09-12 08:51 G	44609549.84	44609549.87	44609549.94	0.0140	0.0137
Moon	117425-09-16 19:39 G	44609919.08	44609919.32	44609919.58	0.0140	0.0033
Earth	117425-09-16 23:29 G	44609919.24	44609919.48	44609919.74	0.0140	0.0032 *
Earth	117426-09-21 17:58 G	44610289.05	44610289.25	44610289.49	0.0140	0.0074
Moon	117426-09-21 21:20 G	44610289.20	44610289.39	44610289.62	0.0140	0.0079 *
Mars	117437-01-24 02:51 G	44614066.32	44614066.62	44614066.93	0.0143	0.0025
Venus	117454-11-21 15:48 G	44620577.10	44620577.16	44620577.25	0.0141	0.0132
Venus	117455-07-06 03:05 G	44620803.51	44620803.63	44620803.78	0.0141	0.0111
Venus	117456-02-17 14:22 G	44621029.94	44621030.10	44621030.28	0.0141	0.0090
Venus	117456-10-01 01:10 G	44621256.38	44621256.55	44621256.76	0.0141	0.0070
Venus	117457-05-15 12:12 G	44621482.81	44621483.01	44621483.23	0.0140	0.0049

Venus	117457-12-27 23:00 G	44621709.25	44621709.46	44621709.68	0.0140	0.0028
Venus	117458-08-11 09:20 G	44621935.67	44621935.89	44621936.12	0.0140	0.0008
Venus	117459-03-25 19:24 G	44622162.10	44622162.31	44622162.54	0.0140	0.0014
Venus	117459-11-07 05:29 G	44622388.52	44622388.73	44622388.95	0.0140	0.0034
Venus	117460-06-20 15:20 G	44622614.94	44622615.14	44622615.35	0.0140	0.0054
Mercury	117460-12-22 05:44 G	44622799.71	44622799.74	44622799.78	0.0139	0.0136
Venus	117461-02-02 00:56 G	44622841.36	44622841.54	44622841.73	0.0139	0.0074
Mercury	117461-03-20 11:58 G	44622887.90	44622888.00	44622888.11	0.0139	0.0112
Mercury	117461-06-16 18:12 G	44622976.13	44622976.26	44622976.40	0.0139	0.0088
Mercury	117461-09-13 00:27 G	44623064.37	44623064.52	44623064.68	0.0139	0.0064
Venus	117461-09-16 10:03 G	44623067.77	44623067.92	44623068.10	0.0139	0.0094
Mercury	117461-12-10 06:41 G	44623152.62	44623152.78	44623152.95	0.0139	0.0039
Mercury	117462-03-08 13:10 G	44623240.88	44623241.05	44623241.23	0.0139	0.0015
Venus	117462-04-30 19:24 G	44623294.19	44623294.31	44623294.45	0.0139	0.0112
Mercury	117462-06-04 19:39 G	44623329.14	44623329.32	44623329.49	0.0139	0.0010
Mercury	117462-09-01 01:53 G	44623417.41	44623417.58	44623417.76	0.0139	0.0035
Mercury	117462-11-28 08:22 G	44623505.69	44623505.85	44623506.01	0.0139	0.0060
Venus	117462-12-13 04:32 G	44623520.63	44623520.69	44623520.77	0.0139	0.0131
Mercury	117463-02-24 14:51 G	44623593.98	44623594.12	44623594.26	0.0139	0.0085
Mercury	117463-05-23 21:20 G	44623682.29	44623682.39	44623682.50	0.0139	0.0110
Mercury	117463-08-20 03:48 G	44623770.63	44623770.66	44623770.71	0.0139	0.0135
Earth	117465-03-17 21:20 G	44624346.35	44624346.39	44624346.45	0.0138	0.0135
Moon	117465-03-17 23:00 G	44624346.43	44624346.46	44624346.54	0.0138	0.0136 *
Moon	117466-03-22 08:36 G	44624715.63	44624715.86	44624716.11	0.0138	0.0039
Earth	117466-03-22 11:00 G	44624715.73	44624715.96	44624716.22	0.0138	0.0036 *
Earth	117467-03-27 00:12 G	44625085.30	44625085.51	44625085.75	0.0138	0.0063
Moon	117467-03-27 02:36 G	44625085.39	44625085.61	44625085.84	0.0138	0.0068 *
Jupiter	117467-06-06 17:44 G	44625157.11	44625157.24	44625157.47	0.0138	0.0130
Venus	117497-08-20 15:34 G	44636190.13	44636190.15	44636190.19	0.0137	0.0135
Venus	117498-04-03 21:05 G	44636416.29	44636416.38	44636416.51	0.0137	0.0118

Venus	117498-11-16 03:20 G	44636642.51	44636642.64	44636642.80	0.0137	0.0100
Venus	117499-06-30 09:48 G	44636868.74	44636868.91	44636869.08	0.0137	0.0082
Venus	117500-02-11 15:48 G	44637094.98	44637095.16	44637095.36	0.0137	0.0064
Venus	117500-09-25 22:32 G	44637321.24	44637321.44	44637321.64	0.0138	0.0045
Venus	117501-05-10 05:15 G	44637547.51	44637547.72	44637547.93	0.0138	0.0026
Venus	117501-12-22 11:58 G	44637773.79	44637774.00	44637774.22	0.0138	0.0007
Venus	117502-08-05 18:56 G	44638000.07	44638000.29	44638000.50	0.0138	0.0012
Venus	117503-03-20 01:53 G	44638226.37	44638226.58	44638226.79	0.0138	0.0031
Venus	117503-11-01 09:05 G	44638452.69	44638452.88	44638453.09	0.0138	0.0051
Mercury	117504-03-27 07:10 G	44638599.75	44638599.80	44638599.84	0.0139	0.0130
Venus	117504-06-14 16:46 G	44638679.02	44638679.20	44638679.39	0.0139	0.0070
Mercury	117504-06-23 11:00 G	44638687.88	44638687.96	44638688.05	0.0139	0.0110
Mercury	117504-09-19 15:05 G	44638776.02	44638776.13	44638776.24	0.0139	0.0090
Mercury	117504-12-16 18:56 G	44638864.18	44638864.29	44638864.42	0.0139	0.0070
Venus	117505-01-27 00:12 G	44638905.36	44638905.51	44638905.69	0.0139	0.0090
Mercury	117505-03-14 23:00 G	44638952.33	44638952.46	44638952.60	0.0139	0.0050
Mercury	117505-06-11 03:05 G	44639040.49	44639040.63	44639040.77	0.0139	0.0030
Mercury	117505-09-07 06:56 G	44639128.65	44639128.79	44639128.94	0.0139	0.0011
Venus	117505-09-10 08:08 G	44639131.72	44639131.84	44639131.98	0.0139	0.0109
Mercury	117505-12-04 11:00 G	44639216.82	44639216.96	44639217.10	0.0139	0.0010
Mercury	117506-03-02 14:51 G	44639304.98	44639305.12	44639305.26	0.0139	0.0030
Venus	117506-04-24 16:03 G	44639358.11	44639358.17	44639358.27	0.0139	0.0129
Mercury	117506-05-29 18:41 G	44639393.15	44639393.28	44639393.41	0.0139	0.0050
Mercury	117506-08-25 22:32 G	44639481.32	44639481.44	44639481.56	0.0139	0.0069
Mercury	117506-11-22 02:08 G	44639569.50	44639569.59	44639569.71	0.0139	0.0090
Mercury	117507-02-18 06:12 G	44639657.68	44639657.76	44639657.85	0.0139	0.0108
Mercury	117507-05-17 10:03 G	44639745.87	44639745.92	44639745.98	0.0139	0.0128
Moon	117508-09-13 13:10 G	44640230.97	44640231.05	44640231.16	0.0140	0.0130
Earth	117508-09-13 16:32 G	44640231.12	44640231.19	44640231.31	0.0140	0.0130 *
Earth	117509-09-18 10:46 G	44640600.71	44640600.95	44640601.21	0.0140	0.0026

Moon	117509-09-18 14:22 G	44640600.86	44640601.10	44640601.36	0.0140	0.0029	*
Moon	117510-09-23 01:53 G	44640970.39	44640970.58	44640970.80	0.0140	0.0085	
Earth	117510-09-23 05:29 G	44640970.52	44640970.73	44640970.95	0.0140	0.0079	*
Venus	117538-07-22 23:29 G	44651135.46	44651135.48	44651135.52	0.0141	0.0139	
Venus	117539-03-06 10:46 G	44651361.84	44651361.95	44651362.08	0.0141	0.0119	
Venus	117539-10-18 22:03 G	44651588.28	44651588.42	44651588.59	0.0141	0.0098	
Venus	117540-06-01 09:20 G	44651814.71	44651814.89	44651815.08	0.0141	0.0077	
Venus	117541-01-13 20:22 G	44652041.15	44652041.35	44652041.55	0.0141	0.0056	
Venus	117541-08-28 06:56 G	44652267.58	44652267.79	44652268.01	0.0140	0.0035	
Venus	117542-04-11 17:29 G	44652494.01	44652494.23	44652494.45	0.0140	0.0014	
Venus	117542-11-24 03:48 G	44652720.44	44652720.66	44652720.89	0.0140	0.0007	
Venus	117543-07-08 13:53 G	44652946.87	44652947.08	44652947.30	0.0140	0.0027	
Venus	117544-02-19 23:58 G	44653173.29	44653173.50	44653173.70	0.0140	0.0047	
Venus	117544-10-03 09:34 G	44653399.71	44653399.90	44653400.09	0.0140	0.0067	
Mercury	117545-01-12 13:39 G	44653501.00	44653501.07	44653501.13	0.0139	0.0128	
Mercury	117545-04-10 19:24 G	44653589.21	44653589.31	44653589.44	0.0139	0.0104	
Venus	117545-05-17 18:56 G	44653626.13	44653626.29	44653626.47	0.0139	0.0087	
Mercury	117545-07-08 01:39 G	44653677.44	44653677.57	44653677.73	0.0139	0.0080	
Mercury	117545-10-04 08:08 G	44653765.69	44653765.84	44653766.00	0.0139	0.0056	
Venus	117545-12-30 04:17 G	44653852.55	44653852.68	44653852.83	0.0139	0.0106	
Mercury	117545-12-31 14:36 G	44653853.94	44653854.11	44653854.28	0.0139	0.0031	
Mercury	117546-03-29 20:51 G	44653942.20	44653942.37	44653942.55	0.0139	0.0007	
Mercury	117546-06-26 03:20 G	44654030.46	44654030.64	44654030.81	0.0139	0.0018	
Venus	117546-08-13 13:24 G	44654078.98	44654079.06	44654079.17	0.0139	0.0125	
Mercury	117546-09-22 09:34 G	44654118.74	44654118.90	44654119.07	0.0139	0.0043	
Mercury	117546-12-19 16:03 G	44654207.02	44654207.17	44654207.33	0.0139	0.0068	
Mercury	117547-03-17 22:32 G	44654295.32	44654295.44	44654295.58	0.0139	0.0093	
Mercury	117547-06-14 05:00 G	44654383.63	44654383.71	44654383.81	0.0139	0.0118	
Moon	117549-03-19 06:56 G	44655027.72	44655027.79	44655027.91	0.0138	0.0129	
Earth	117549-03-19 09:20 G	44655027.81	44655027.89	44655028.00	0.0138	0.0128	*

Earth	117550-03-23 23:29 G	44655397.24	44655397.48	44655397.73	0.0138	0.0029
Moon	117550-03-24 02:08 G	44655397.35	44655397.59	44655397.85	0.0138	0.0034 *
Moon	117551-03-28 10:03 G	44655766.73	44655766.92	44655767.14	0.0138	0.0076
Earth	117551-03-28 12:41 G	44655766.82	44655767.03	44655767.25	0.0138	0.0069 *
Mars	117562-04-09 02:08 G	44659796.28	44659796.59	44659796.89	0.0135	0.0003
Venus	117581-12-03 06:56 G	44666974.72	44666974.79	44666974.89	0.0137	0.0125
Venus	117582-07-17 12:56 G	44667200.92	44667201.04	44667201.18	0.0137	0.0107
Venus	117583-02-28 18:56 G	44667427.14	44667427.29	44667427.46	0.0137	0.0089
Venus	117583-10-13 01:10 G	44667653.38	44667653.55	44667653.74	0.0137	0.0071
Venus	117584-05-26 07:53 G	44667879.63	44667879.83	44667880.03	0.0138	0.0052
Venus	117585-01-07 14:08 G	44668105.89	44668106.09	44668106.31	0.0138	0.0034
Venus	117585-08-21 20:51 G	44668332.16	44668332.37	44668332.59	0.0138	0.0014
Venus	117586-04-05 03:48 G	44668558.44	44668558.66	44668558.87	0.0138	0.0006
Venus	117586-11-17 10:32 G	44668784.74	44668784.94	44668785.16	0.0138	0.0024
Venus	117587-07-01 17:58 G	44669011.05	44669011.25	44669011.46	0.0138	0.0043
Venus	117588-02-13 01:24 G	44669237.37	44669237.56	44669237.75	0.0139	0.0063
Mercury	117588-04-16 13:53 G	44669301.03	44669301.08	44669301.15	0.0139	0.0126
Mercury	117588-07-13 18:12 G	44669389.17	44669389.26	44669389.35	0.0139	0.0105
Venus	117588-09-26 08:36 G	44669463.70	44669463.86	44669464.05	0.0139	0.0083
Mercury	117588-10-09 22:17 G	44669477.32	44669477.43	44669477.54	0.0139	0.0085
Mercury	117589-01-06 02:08 G	44669565.47	44669565.59	44669565.72	0.0139	0.0065
Mercury	117589-04-04 06:12 G	44669653.63	44669653.76	44669653.90	0.0139	0.0045
Venus	117589-05-10 16:32 G	44669690.05	44669690.19	44669690.35	0.0139	0.0102
Mercury	117589-07-01 10:17 G	44669741.79	44669741.93	44669742.07	0.0139	0.0025
Mercury	117589-09-27 14:08 G	44669829.95	44669830.09	44669830.24	0.0139	0.0006
Venus	117589-12-23 00:27 G	44669916.43	44669916.52	44669916.64	0.0139	0.0121
Mercury	117589-12-24 18:12 G	44669918.12	44669918.26	44669918.40	0.0139	0.0015
Mercury	117590-03-22 22:03 G	44670006.28	44670006.42	44670006.56	0.0139	0.0035
Mercury	117590-06-19 01:53 G	44670094.45	44670094.58	44670094.71	0.0139	0.0055
Mercury	117590-09-15 05:44 G	44670182.63	44670182.74	44670182.86	0.0139	0.0074

Mercury	117590-12-12 09:34 G	44670270.80	44670270.90	44670271.01	0.0139	0.0094
Mercury	117591-03-10 13:24 G	44670358.98	44670359.06	44670359.14	0.0139	0.0113
Mercury	117591-06-06 17:15 G	44670447.18	44670447.22	44670447.26	0.0139	0.0133
Earth	117592-09-14 02:22 G	44670912.50	44670912.60	44670912.73	0.0140	0.0125
Moon	117592-09-14 05:44 G	44670912.65	44670912.74	44670912.88	0.0140	0.0124 *
Moon	117593-09-18 16:46 G	44671281.96	44671282.20	44671282.46	0.0140	0.0025
Earth	117593-09-18 20:36 G	44671282.11	44671282.36	44671282.62	0.0140	0.0022 *
Earth	117594-09-23 14:51 G	44671651.93	44671652.12	44671652.34	0.0140	0.0084
Moon	117594-09-23 18:27 G	44671652.08	44671652.27	44671652.47	0.0140	0.0090 *
Mars	117604-06-12 18:12 G	44675202.07	44675202.26	44675202.50	0.0143	0.0102
Venus	117622-11-03 18:56 G	44681920.19	44681920.29	44681920.39	0.0141	0.0127
Venus	117623-06-18 05:58 G	44682146.62	44682146.75	44682146.91	0.0141	0.0106
Venus	117624-01-30 17:15 G	44682373.05	44682373.22	44682373.41	0.0141	0.0085
Venus	117624-09-13 04:17 G	44682599.49	44682599.68	44682599.88	0.0141	0.0064
Venus	117625-04-27 15:05 G	44682825.93	44682826.13	44682826.35	0.0141	0.0043
Venus	117625-12-10 01:53 G	44683052.37	44683052.58	44683052.80	0.0140	0.0022
Venus	117626-07-24 12:27 G	44683278.80	44683279.02	44683279.24	0.0140	0.0001
Venus	117627-03-07 22:32 G	44683505.23	44683505.44	44683505.66	0.0140	0.0020
Venus	117627-10-20 08:36 G	44683731.65	44683731.86	44683732.07	0.0140	0.0040
Venus	117628-06-02 18:12 G	44683958.08	44683958.26	44683958.47	0.0140	0.0061
Venus	117629-01-15 04:03 G	44684184.50	44684184.67	44684184.86	0.0139	0.0081
Mercury	117629-02-01 21:05 G	44684202.31	44684202.38	44684202.48	0.0139	0.0120
Mercury	117629-05-01 03:20 G	44684290.53	44684290.64	44684290.78	0.0139	0.0096
Mercury	117629-07-28 09:34 G	44684378.76	44684378.90	44684379.06	0.0139	0.0072
Venus	117629-08-29 13:24 G	44684410.93	44684411.06	44684411.23	0.0139	0.0100
Mercury	117629-10-24 16:03 G	44684467.01	44684467.17	44684467.34	0.0139	0.0047
Mercury	117630-01-20 22:32 G	44684555.26	44684555.44	44684555.61	0.0139	0.0022
Venus	117630-04-12 22:46 G	44684637.35	44684637.45	44684637.57	0.0139	0.0119
Mercury	117630-04-19 04:46 G	44684643.53	44684643.70	44684643.88	0.0139	0.0003
Mercury	117630-07-16 11:15 G	44684731.80	44684731.97	44684732.14	0.0139	0.0027

Mercury	117630-10-12 17:29 G	44684820.07	44684820.23	44684820.40	0.0139	0.0052
Venus	117630-11-25 08:08 G	44684863.83	44684863.84	44684863.86	0.0139	0.0138
Mercury	117631-01-08 23:58 G	44684908.36	44684908.50	44684908.65	0.0139	0.0077
Mercury	117631-04-07 06:27 G	44684996.66	44684996.77	44684996.90	0.0139	0.0102
Mercury	117631-07-04 13:10 G	44685084.98	44685085.05	44685085.12	0.0139	0.0127
Earth	117633-03-19 22:46 G	44685709.33	44685709.45	44685709.57	0.0138	0.0121
Moon	117633-03-20 00:56 G	44685709.43	44685709.54	44685709.69	0.0138	0.0119 *
Moon	117634-03-24 09:48 G	44686078.67	44686078.91	44686079.15	0.0138	0.0027
Earth	117634-03-24 12:27 G	44686078.78	44686079.02	44686079.28	0.0138	0.0022 *
Earth	117635-03-29 01:24 G	44686448.37	44686448.56	44686448.79	0.0138	0.0077
Moon	117635-03-29 04:17 G	44686448.48	44686448.68	44686448.89	0.0138	0.0083 *
Venus	117665-08-02 17:44 G	44697533.19	44697533.24	44697533.30	0.0137	0.0131
Venus	117666-03-16 23:15 G	44697759.37	44697759.47	44697759.60	0.0137	0.0114
Venus	117666-10-29 05:15 G	44697985.58	44697985.72	44697985.88	0.0137	0.0096
Venus	117667-06-12 11:29 G	44698211.81	44698211.98	44698212.17	0.0137	0.0078
Venus	117668-01-24 17:44 G	44698438.06	44698438.24	44698438.44	0.0137	0.0059
Venus	117668-09-07 00:12 G	44698664.31	44698664.51	44698664.72	0.0138	0.0040
Venus	117669-04-21 06:41 G	44698890.58	44698890.78	44698891.00	0.0138	0.0022
Venus	117669-12-03 13:39 G	44699116.85	44699117.07	44699117.28	0.0138	0.0002
Venus	117670-07-17 20:36 G	44699343.14	44699343.36	44699343.57	0.0138	0.0017
Venus	117671-03-01 03:34 G	44699569.45	44699569.65	44699569.86	0.0138	0.0037
Venus	117671-10-13 10:46 G	44699795.76	44699795.95	44699796.15	0.0138	0.0056
Mercury	117672-05-06 21:34 G	44700002.33	44700002.40	44700002.48	0.0139	0.0119
Venus	117672-05-26 18:27 G	44700022.09	44700022.27	44700022.45	0.0139	0.0076
Mercury	117672-08-03 01:39 G	44700090.47	44700090.57	44700090.67	0.0139	0.0099
Mercury	117672-10-30 05:44 G	44700178.62	44700178.74	44700178.86	0.0139	0.0078
Venus	117673-01-08 01:53 G	44700248.44	44700248.58	44700248.75	0.0139	0.0096
Mercury	117673-01-26 09:34 G	44700266.78	44700266.90	44700267.04	0.0139	0.0059
Mercury	117673-04-24 13:39 G	44700354.94	44700355.07	44700355.21	0.0139	0.0039
Mercury	117673-07-21 17:44 G	44700443.10	44700443.24	44700443.38	0.0139	0.0018

Venus	117673-08-22 09:48 G	44700474.80	44700474.91	44700475.04	0.0139	0.0115
Mercury	117673-10-17 21:34 G	44700531.26	44700531.40	44700531.55	0.0139	0.0005
Mercury	117674-01-14 01:39 G	44700619.43	44700619.57	44700619.71	0.0139	0.0021
Venus	117674-04-05 17:58 G	44700701.21	44700701.25	44700701.31	0.0139	0.0134
Mercury	117674-04-12 05:29 G	44700707.60	44700707.73	44700707.87	0.0139	0.0041
Mercury	117674-07-09 09:20 G	44700795.77	44700795.89	44700796.02	0.0139	0.0061
Mercury	117674-10-05 13:10 G	44700883.94	44700884.05	44700884.17	0.0139	0.0081
Mercury	117675-01-01 17:00 G	44700972.12	44700972.21	44700972.31	0.0139	0.0100
Mercury	117675-03-30 20:51 G	44701060.31	44701060.37	44701060.45	0.0139	0.0120
Mercury	117675-06-27 00:41 G	44701148.52	44701148.53	44701148.54	0.0139	0.0139
Moon	117676-09-14 10:17 G	44701593.81	44701593.93	44701594.09	0.0140	0.0117
Earth	117676-09-14 13:53 G	44701593.96	44701594.08	44701594.23	0.0140	0.0119 *
Earth	117677-09-19 07:53 G	44701963.58	44701963.83	44701964.09	0.0140	0.0015
Moon	117677-09-19 11:29 G	44701963.74	44701963.98	44701964.24	0.0140	0.0020 *
Moon	117678-09-23 23:00 G	44702333.28	44702333.46	44702333.65	0.0140	0.0096
Earth	117678-09-24 01:53 G	44702333.41	44702333.58	44702333.80	0.0140	0.0090 *
Mars	117689-02-06 06:56 G	44706121.55	44706121.79	44706122.06	0.0143	0.0081
Venus	117706-07-05 02:22 G	44712478.54	44712478.60	44712478.67	0.0141	0.0135
Venus	117707-02-16 13:24 G	44712704.95	44712705.06	44712705.21	0.0141	0.0114
Venus	117707-10-01 00:41 G	44712931.38	44712931.53	44712931.71	0.0141	0.0093
Venus	117708-05-14 11:58 G	44713157.82	44713158.00	44713158.20	0.0141	0.0072
Venus	117708-12-26 23:00 G	44713384.27	44713384.46	44713384.68	0.0141	0.0051
Venus	117709-08-10 09:48 G	44713610.70	44713610.91	44713611.14	0.0140	0.0030
Venus	117710-03-24 20:36 G	44713837.14	44713837.36	44713837.58	0.0140	0.0009
Venus	117710-11-06 06:56 G	44714063.57	44714063.79	44714064.01	0.0140	0.0013
Venus	117711-06-20 17:15 G	44714290.00	44714290.22	44714290.43	0.0140	0.0033
Venus	117712-02-02 03:05 G	44714516.43	44714516.63	44714516.84	0.0140	0.0054
Venus	117712-09-15 12:56 G	44714742.86	44714743.04	44714743.23	0.0140	0.0074
Mercury	117712-11-26 23:00 G	44714815.42	44714815.46	44714815.50	0.0139	0.0135
Mercury	117713-02-23 04:46 G	44714903.61	44714903.70	44714903.82	0.0139	0.0112

Venus	117713-04-29 22:46 G	44714969.29	44714969.45	44714969.61	0.0139	0.0094
Mercury	117713-05-22 11:00 G	44714991.84	44714991.96	44714992.11	0.0139	0.0088
Mercury	117713-08-18 17:44 G	44715080.08	44715080.24	44715080.39	0.0139	0.0063
Mercury	117713-11-14 23:58 G	44715168.33	44715168.50	44715168.67	0.0139	0.0038
Venus	117713-12-12 08:08 G	44715195.72	44715195.84	44715195.97	0.0139	0.0113
Mercury	117714-02-11 06:12 G	44715256.59	44715256.76	44715256.94	0.0139	0.0014
Mercury	117714-05-10 12:41 G	44715344.85	44715345.03	44715345.20	0.0139	0.0011
Venus	117714-07-26 17:29 G	44715422.17	44715422.23	44715422.30	0.0139	0.0132
Mercury	117714-08-06 18:56 G	44715433.13	44715433.29	44715433.47	0.0139	0.0036
Mercury	117714-11-03 01:24 G	44715521.41	44715521.56	44715521.72	0.0139	0.0061
Mercury	117715-01-30 07:53 G	44715609.70	44715609.83	44715609.97	0.0139	0.0086
Mercury	117715-04-28 14:22 G	44715698.00	44715698.10	44715698.21	0.0139	0.0111
Mercury	117715-07-25 20:51 G	44715786.35	44715786.37	44715786.41	0.0139	0.0136
Moon	117717-03-21 08:36 G	44716390.73	44716390.86	44716391.02	0.0138	0.0111
Earth	117717-03-21 11:00 G	44716390.84	44716390.96	44716391.13	0.0138	0.0115 *
Earth	117718-03-26 01:24 G	44716760.31	44716760.56	44716760.82	0.0138	0.0015
Moon	117718-03-26 04:32 G	44716760.44	44716760.69	44716760.95	0.0138	0.0021 *
Moon	117719-03-30 11:29 G	44717129.82	44717129.98	44717130.19	0.0138	0.0091
Earth	117719-03-30 14:36 G	44717129.91	44717130.11	44717130.32	0.0138	0.0083 *
Mars	117729-08-27 11:44 G	44720932.80	44720932.99	44720933.22	0.0135	0.0100
Venus	117749-11-15 09:05 G	44728317.80	44728317.88	44728318.00	0.0137	0.0121
Venus	117750-06-29 14:51 G	44728544.00	44728544.12	44728544.28	0.0137	0.0103
Venus	117751-02-10 21:05 G	44728770.22	44728770.38	44728770.56	0.0137	0.0085
Venus	117751-09-25 03:05 G	44728996.46	44728996.63	44728996.83	0.0137	0.0066
Venus	117752-05-08 09:34 G	44729222.71	44729222.90	44729223.11	0.0137	0.0047
Venus	117752-12-20 16:03 G	44729448.97	44729449.17	44729449.39	0.0138	0.0029
Venus	117753-08-03 22:46 G	44729675.24	44729675.45	44729675.67	0.0138	0.0009
Venus	117754-03-18 05:29 G	44729901.52	44729901.73	44729901.95	0.0138	0.0010
Venus	117754-10-30 12:27 G	44730127.81	44730128.02	44730128.23	0.0138	0.0030
Venus	117755-06-13 19:39 G	44730354.13	44730354.32	44730354.53	0.0138	0.0050

Venus	117756-01-26 03:05 G	44730580.45	44730580.63	44730580.83	0.0138	0.0069
Mercury	117756-03-01 00:41 G	44730615.50	44730615.53	44730615.57	0.0138	0.0134
Mercury	117756-05-28 04:46 G	44730703.62	44730703.70	44730703.79	0.0138	0.0114
Mercury	117756-08-24 08:51 G	44730791.77	44730791.87	44730791.98	0.0139	0.0093
Venus	117756-09-08 10:32 G	44730806.79	44730806.94	44730807.12	0.0139	0.0089
Mercury	117756-11-20 12:41 G	44730879.92	44730880.03	44730880.16	0.0139	0.0074
Mercury	117757-02-16 16:46 G	44730968.08	44730968.20	44730968.34	0.0139	0.0054
Venus	117757-04-22 18:12 G	44731033.14	44731033.26	44731033.41	0.0139	0.0108
Mercury	117757-05-15 20:51 G	44731056.24	44731056.37	44731056.51	0.0139	0.0033
Mercury	117757-08-12 00:56 G	44731144.40	44731144.54	44731144.68	0.0139	0.0013
Mercury	117757-11-08 04:46 G	44731232.56	44731232.70	44731232.85	0.0139	0.0008
Venus	117757-12-05 02:22 G	44731259.52	44731259.60	44731259.69	0.0139	0.0127
Mercury	117758-02-04 08:51 G	44731320.73	44731320.87	44731321.01	0.0139	0.0027
Mercury	117758-05-03 12:41 G	44731408.90	44731409.03	44731409.16	0.0139	0.0046
Mercury	117758-07-30 16:32 G	44731497.07	44731497.19	44731497.32	0.0139	0.0066
Mercury	117758-10-26 20:22 G	44731585.24	44731585.35	44731585.46	0.0139	0.0086
Mercury	117759-01-23 00:12 G	44731673.42	44731673.51	44731673.61	0.0139	0.0105
Mercury	117759-04-21 04:03 G	44731761.61	44731761.67	44731761.74	0.0139	0.0124
Earth	117760-09-15 23:15 G	44732275.35	44732275.47	44732275.63	0.0140	0.0115
Moon	117760-09-16 02:36 G	44732275.48	44732275.61	44732275.79	0.0140	0.0112 *
Moon	117761-09-20 13:53 G	44732644.82	44732645.08	44732645.33	0.0140	0.0017
Earth	117761-09-20 17:29 G	44732644.98	44732645.23	44732645.49	0.0140	0.0011 *
Earth	117762-09-25 11:43 G	44733014.80	44733014.99	44733015.18	0.0140	0.0093
Moon	117762-09-25 14:36 G	44733014.95	44733015.11	44733015.30	0.0140	0.0101 *
Venus	117790-10-16 21:05 G	44743263.27	44743263.38	44743263.50	0.0141	0.0122
Venus	117791-05-31 08:36 G	44743489.71	44743489.86	44743490.02	0.0141	0.0100
Venus	117792-01-12 19:53 G	44743716.15	44743716.33	44743716.52	0.0141	0.0079
Venus	117792-08-26 06:55 G	44743942.59	44743942.79	44743942.99	0.0141	0.0058
Venus	117793-04-09 17:58 G	44744169.03	44744169.25	44744169.46	0.0141	0.0037
Venus	117793-11-22 04:46 G	44744395.48	44744395.70	44744395.92	0.0140	0.0016

Venus	117794-07-06 15:19 G	44744621.92	44744622.14	44744622.36	0.0140	0.0005
Venus	117795-02-18 01:39 G	44744848.35	44744848.57	44744848.79	0.0140	0.0026
Venus	117795-10-02 11:43 G	44745074.78	44745074.99	44745075.20	0.0140	0.0047
Venus	117796-05-15 21:34 G	44745301.22	44745301.40	44745301.60	0.0140	0.0068
Mercury	117796-12-17 06:27 G	44745516.72	44745516.77	44745516.86	0.0139	0.0127
Venus	117796-12-28 07:39 G	44745527.65	44745527.82	44745527.99	0.0139	0.0088
Mercury	117797-03-15 12:41 G	44745604.93	44745605.03	44745605.16	0.0139	0.0103
Mercury	117797-06-11 18:55 G	44745693.16	44745693.29	44745693.45	0.0139	0.0079
Venus	117797-08-11 17:00 G	44745754.09	44745754.21	44745754.36	0.0139	0.0108
Mercury	117797-09-08 01:24 G	44745781.40	44745781.56	44745781.72	0.0139	0.0054
Mercury	117797-12-05 07:53 G	44745869.66	44745869.83	44745870.00	0.0139	0.0030
Mercury	117798-03-03 14:07 G	44745957.92	44745958.09	44745958.27	0.0139	0.0005
Venus	117798-03-26 02:22 G	44745980.53	44745980.60	44745980.70	0.0139	0.0127
Mercury	117798-05-30 20:22 G	44746046.18	44746046.35	44746046.53	0.0139	0.0020
Mercury	117798-08-27 02:51 G	44746134.46	44746134.62	44746134.79	0.0139	0.0045
Mercury	117798-11-23 09:05 G	44746222.74	44746222.88	44746223.05	0.0139	0.0070
Mercury	117799-02-19 15:34 G	44746311.03	44746311.15	44746311.29	0.0139	0.0095
Mercury	117799-05-18 22:17 G	44746399.35	44746399.43	44746399.52	0.0139	0.0120
Earth	117801-03-22 23:58 G	44747072.36	44747072.50	44747072.68	0.0138	0.0108
Moon	117801-03-23 02:36 G	44747072.46	44747072.61	44747072.81	0.0138	0.0104 *
Moon	117802-03-27 11:15 G	44747441.73	44747441.97	44747442.22	0.0138	0.0015
Earth	117802-03-27 14:22 G	44747441.85	44747442.10	44747442.35	0.0138	0.0008 *
Earth	117803-04-01 03:05 G	44747811.45	44747811.63	44747811.84	0.0138	0.0090
Moon	117803-04-01 05:58 G	44747811.58	44747811.75	44747811.94	0.0138	0.0097 *
Mars	117814-04-23 13:53 G	44751851.82	44751852.08	44751852.37	0.0135	0.0061
Venus	117833-07-16 20:07 G	44758876.28	44758876.34	44758876.43	0.0137	0.0127
Venus	117834-02-28 01:53 G	44759102.46	44759102.58	44759102.72	0.0137	0.0109
Venus	117834-10-12 07:39 G	44759328.68	44759328.82	44759328.99	0.0137	0.0091
Venus	117835-05-26 14:07 G	44759554.91	44759555.09	44759555.27	0.0137	0.0072
Venus	117836-01-07 20:22 G	44759781.15	44759781.35	44759781.55	0.0137	0.0054

Venus	117836-08-21 02:36 G	44760007.41	44760007.61	44760007.82	0.0137	0.0035
Venus	117837-04-04 09:05 G	44760233.67	44760233.88	44760234.10	0.0138	0.0016
Venus	117837-11-16 15:48 G	44760459.95	44760460.16	44760460.38	0.0138	0.0004
Venus	117838-06-30 22:46 G	44760686.24	44760686.45	44760686.67	0.0138	0.0023
Venus	117839-02-12 05:43 G	44760912.55	44760912.74	44760912.95	0.0138	0.0043
Venus	117839-09-26 12:55 G	44761138.86	44761139.04	44761139.24	0.0138	0.0063
Mercury	117840-03-22 08:22 G	44761316.80	44761316.85	44761316.91	0.0138	0.0127
Venus	117840-05-09 20:22 G	44761365.19	44761365.35	44761365.54	0.0138	0.0082
Mercury	117840-06-18 12:27 G	44761404.93	44761405.02	44761405.11	0.0138	0.0107
Mercury	117840-09-14 16:17 G	44761493.08	44761493.18	44761493.30	0.0139	0.0087
Mercury	117840-12-11 20:22 G	44761581.23	44761581.35	44761581.48	0.0139	0.0067
Venus	117840-12-22 04:03 G	44761591.54	44761591.67	44761591.83	0.0139	0.0102
Mercury	117841-03-10 00:27 G	44761669.39	44761669.52	44761669.66	0.0139	0.0047
Mercury	117841-06-06 04:31 G	44761757.55	44761757.69	44761757.83	0.0139	0.0026
Venus	117841-08-05 12:12 G	44761817.91	44761818.01	44761818.11	0.0139	0.0121
Mercury	117841-09-02 08:22 G	44761845.71	44761845.85	44761846.00	0.0139	0.0008
Mercury	117841-11-29 12:27 G	44761933.88	44761934.02	44761934.16	0.0139	0.0013
Mercury	117842-02-25 16:17 G	44762022.04	44762022.18	44762022.32	0.0139	0.0033
Mercury	117842-05-24 20:07 G	44762110.22	44762110.34	44762110.48	0.0139	0.0053
Mercury	117842-08-21 00:12 G	44762198.39	44762198.51	44762198.63	0.0139	0.0072
Mercury	117842-11-17 03:48 G	44762286.56	44762286.66	44762286.77	0.0139	0.0092
Mercury	117843-02-13 07:39 G	44762374.75	44762374.82	44762374.91	0.0139	0.0112
Mercury	117843-05-12 11:43 G	44762462.94	44762462.99	44762463.03	0.0139	0.0131
Moon	117844-09-17 07:53 G	44762956.66	44762956.83	44762957.00	0.0140	0.0105
Earth	117844-09-17 11:00 G	44762956.82	44762956.96	44762957.13	0.0140	0.0109 *
Earth	117845-09-22 05:00 G	44763326.45	44763326.71	44763326.96	0.0140	0.0006
Moon	117845-09-22 08:22 G	44763326.61	44763326.85	44763327.11	0.0140	0.0013 *
Moon	117846-09-26 19:39 G	44763696.16	44763696.32	44763696.50	0.0140	0.0106
Earth	117846-09-26 22:46 G	44763696.29	44763696.45	44763696.65	0.0140	0.0099 *
Mars	117856-06-26 22:46 G	44767257.17	44767257.45	44767257.75	0.0143	0.0046

Venus	117874-06-17 04:17 G	44773821.60	44773821.68	44773821.78	0.0141	0.0130
Venus	117875-01-29 15:48 G	44774048.03	44774048.16	44774048.31	0.0141	0.0108
Venus	117875-09-13 03:05 G	44774274.47	44774274.63	44774274.81	0.0141	0.0087
Venus	117876-04-26 14:22 G	44774500.91	44774501.10	44774501.30	0.0141	0.0066
Venus	117876-12-09 01:39 G	44774727.37	44774727.57	44774727.78	0.0141	0.0045
Venus	117877-07-23 12:27 G	44774953.81	44774954.02	44774954.25	0.0141	0.0024
Venus	117878-03-06 23:15 G	44775180.25	44775180.47	44775180.69	0.0140	0.0002
Venus	117878-10-19 09:48 G	44775406.69	44775406.91	44775407.13	0.0140	0.0019
Venus	117879-06-02 20:07 G	44775633.13	44775633.34	44775633.55	0.0140	0.0040
Venus	117880-01-15 06:12 G	44775859.57	44775859.76	44775859.97	0.0140	0.0061
Venus	117880-08-28 16:03 G	44776086.00	44776086.17	44776086.36	0.0140	0.0082
Mercury	117881-01-07 14:36 G	44776218.02	44776218.11	44776218.20	0.0139	0.0118
Mercury	117881-04-05 20:51 G	44776306.24	44776306.37	44776306.49	0.0139	0.0094
Venus	117881-04-12 01:53 G	44776312.44	44776312.58	44776312.74	0.0139	0.0101
Mercury	117881-07-03 02:51 G	44776394.48	44776394.62	44776394.78	0.0139	0.0070
Mercury	117881-09-29 09:05 G	44776482.72	44776482.88	44776483.05	0.0139	0.0046
Venus	117881-11-24 11:15 G	44776538.88	44776538.97	44776539.10	0.0139	0.0122
Mercury	117881-12-26 15:34 G	44776570.98	44776571.15	44776571.32	0.0139	0.0021
Mercury	117882-03-24 21:48 G	44776659.24	44776659.41	44776659.59	0.0139	0.0005
Mercury	117882-06-21 04:17 G	44776747.51	44776747.68	44776747.85	0.0139	0.0029
Mercury	117882-09-17 10:46 G	44776835.79	44776835.95	44776836.11	0.0139	0.0053
Mercury	117882-12-14 17:15 G	44776924.07	44776924.22	44776924.36	0.0139	0.0078
Mercury	117883-03-12 23:15 G	44777012.37	44777012.47	44777012.60	0.0139	0.0104
Mercury	117883-06-09 05:58 G	44777100.70	44777100.75	44777100.83	0.0139	0.0129
Moon	117885-03-23 10:17 G	44777753.75	44777753.93	44777754.11	0.0138	0.0097
Earth	117885-03-23 12:27 G	44777753.87	44777754.02	44777754.21	0.0138	0.0101 *
Earth	117886-03-28 02:36 G	44778123.36	44778123.61	44778123.87	0.0138	0.0003
Moon	117886-03-28 05:43 G	44778123.49	44778123.74	44778124.00	0.0138	0.0010 *
Moon	117887-04-01 13:10 G	44778492.89	44778493.05	44778493.22	0.0138	0.0103
Earth	117887-04-01 15:34 G	44778492.98	44778493.15	44778493.35	0.0138	0.0096 *

Venus	117917-03-17 06:27 G	44789434.75	44789434.77	44789434.84	0.0137	0.0134
Venus	117917-10-29 12:12 G	44789660.92	44789661.01	44789661.14	0.0137	0.0116
Venus	117918-06-12 18:12 G	44789887.12	44789887.26	44789887.42	0.0137	0.0098
Venus	117919-01-25 00:12 G	44790113.35	44790113.51	44790113.69	0.0137	0.0079
Venus	117919-09-08 06:27 G	44790339.58	44790339.77	44790339.96	0.0137	0.0060
Venus	117920-04-21 12:41 G	44790565.83	44790566.03	44790566.24	0.0137	0.0042
Venus	117920-12-03 19:10 G	44790792.09	44790792.30	44790792.51	0.0137	0.0022
Venus	117921-07-18 01:53 G	44791018.36	44791018.58	44791018.79	0.0138	0.0004
Venus	117922-03-01 08:22 G	44791244.64	44791244.85	44791245.07	0.0138	0.0017
Venus	117922-10-13 15:19 G	44791470.94	44791471.14	44791471.36	0.0138	0.0036
Venus	117923-05-27 22:31 G	44791697.25	44791697.44	44791697.65	0.0138	0.0056
Venus	117924-01-09 05:58 G	44791923.57	44791923.75	44791923.93	0.0138	0.0075
Mercury	117924-04-12 15:48 G	44792018.09	44792018.16	44792018.23	0.0138	0.0121
Mercury	117924-07-09 19:53 G	44792106.23	44792106.33	44792106.43	0.0138	0.0101
Venus	117924-08-22 13:10 G	44792149.91	44792150.05	44792150.22	0.0138	0.0095
Mercury	117924-10-05 23:43 G	44792194.38	44792194.49	44792194.61	0.0139	0.0081
Mercury	117925-01-02 03:48 G	44792282.54	44792282.66	44792282.79	0.0139	0.0061
Mercury	117925-03-31 07:53 G	44792370.69	44792370.83	44792370.97	0.0139	0.0041
Venus	117925-04-05 20:51 G	44792376.26	44792376.37	44792376.50	0.0139	0.0115
Mercury	117925-06-27 11:58 G	44792458.86	44792459.00	44792459.14	0.0139	0.0021
Mercury	117925-09-23 15:48 G	44792547.02	44792547.16	44792547.30	0.0139	0.0002
Venus	117925-11-18 04:46 G	44792602.65	44792602.70	44792602.76	0.0139	0.0134
Mercury	117925-12-20 19:39 G	44792635.18	44792635.32	44792635.47	0.0139	0.0020
Mercury	117926-03-18 23:43 G	44792723.35	44792723.49	44792723.62	0.0139	0.0039
Mercury	117926-06-15 03:34 G	44792811.52	44792811.65	44792811.78	0.0139	0.0058
Mercury	117926-09-11 07:24 G	44792899.70	44792899.81	44792899.93	0.0139	0.0078
Mercury	117926-12-08 11:15 G	44792987.87	44792987.97	44792988.07	0.0139	0.0097
Mercury	117927-03-06 14:51 G	44793076.06	44793076.12	44793076.21	0.0139	0.0117
Mercury	117927-06-02 18:41 G	44793164.27	44793164.28	44793164.32	0.0139	0.0137
Earth	117928-09-18 21:05 G	44793638.23	44793638.38	44793638.56	0.0140	0.0105

Moon	117928-09-19 00:55 G	44793638.37	44793638.54	44793638.72	0.0140	0.0100	*
Moon	117929-09-23 11:15 G	44794007.71	44794007.97	44794008.22	0.0140	0.0007	
Earth	117929-09-23 14:51 G	44794007.87	44794008.12	44794008.38	0.0140	0.0003	*
Earth	117930-09-28 08:36 G	44794377.71	44794377.86	44794378.05	0.0140	0.0103	
Moon	117930-09-28 11:43 G	44794377.86	44794377.99	44794378.17	0.0140	0.0111	*
Mars	117941-02-21 08:22 G	44798176.75	44798176.85	44798176.96	0.0143	0.0133	
Venus	117958-02-15 11:15 G	44804379.94	44804379.97	44804380.03	0.0142	0.0138	
Venus	117958-09-29 23:00 G	44804606.35	44804606.46	44804606.59	0.0141	0.0117	
Venus	117959-05-14 10:31 G	44804832.79	44804832.94	44804833.11	0.0141	0.0095	
Venus	117959-12-26 21:48 G	44805059.24	44805059.41	44805059.62	0.0141	0.0075	
Venus	117960-08-09 09:19 G	44805285.69	44805285.89	44805286.10	0.0141	0.0052	
Venus	117961-03-23 20:22 G	44805512.14	44805512.35	44805512.57	0.0141	0.0031	
Venus	117961-11-05 07:24 G	44805738.59	44805738.81	44805739.03	0.0141	0.0009	
Venus	117962-06-19 17:58 G	44805965.03	44805965.25	44805965.47	0.0140	0.0012	
Venus	117963-02-01 04:31 G	44806191.48	44806191.69	44806191.91	0.0140	0.0033	
Venus	117963-09-15 14:36 G	44806417.92	44806418.11	44806418.32	0.0140	0.0054	
Venus	117964-04-29 00:41 G	44806644.36	44806644.53	44806644.73	0.0140	0.0075	
Mercury	117964-11-01 16:03 G	44806831.13	44806831.17	44806831.23	0.0140	0.0134	
Venus	117964-12-11 11:00 G	44806870.80	44806870.96	44806871.12	0.0140	0.0095	
Mercury	117965-01-28 22:17 G	44806919.33	44806919.43	44806919.54	0.0140	0.0109	
Mercury	117965-04-27 04:17 G	44807007.56	44807007.68	44807007.83	0.0139	0.0086	
Mercury	117965-07-24 10:31 G	44807095.80	44807095.94	44807096.11	0.0139	0.0062	
Venus	117965-07-25 20:22 G	44807097.24	44807097.35	44807097.49	0.0139	0.0115	
Mercury	117965-10-20 17:00 G	44807184.05	44807184.21	44807184.38	0.0139	0.0037	
Mercury	117966-01-16 23:29 G	44807272.30	44807272.48	44807272.65	0.0139	0.0013	
Venus	117966-03-09 05:58 G	44807323.71	44807323.75	44807323.81	0.0139	0.0135	
Mercury	117966-04-15 05:43 G	44807360.57	44807360.74	44807360.91	0.0139	0.0013	
Mercury	117966-07-12 12:12 G	44807448.84	44807449.01	44807449.18	0.0139	0.0037	
Mercury	117966-10-08 18:27 G	44807537.12	44807537.27	44807537.43	0.0139	0.0062	
Mercury	117967-01-05 00:55 G	44807625.41	44807625.54	44807625.68	0.0139	0.0087	

Mercury	117967-04-03 07:24 G	44807713.71	44807713.81	44807713.92	0.0139	0.0112
Mercury	117967-06-30 14:07 G	44807802.06	44807802.09	44807802.11	0.0139	0.0137
Earth	117969-03-25 01:10 G	44808435.38	44808435.55	44808435.74	0.0138	0.0095
Moon	117969-03-25 03:48 G	44808435.47	44808435.66	44808435.87	0.0138	0.0089 *
Moon	117970-03-29 12:27 G	44808804.77	44808805.02	44808805.27	0.0138	0.0003
Earth	117970-03-29 15:19 G	44808804.89	44808805.14	44808805.40	0.0138	0.0005 *
Earth	117971-04-03 04:03 G	44809174.52	44809174.67	44809174.85	0.0138	0.0102
Moon	117971-04-03 06:55 G	44809174.64	44809174.79	44809174.95	0.0138	0.0109 *
Mars	117981-09-11 02:36 G	44812988.31	44812988.61	44812988.91	0.0135	0.0037

119TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 119th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	118001-06-28 23:58 G		44820219.42	44820219.50	44820219.60	0.0137	0.0122	
Venus	118002-02-10 05:29 G		44820445.61	44820445.73	44820445.88	0.0137	0.0104	
Venus	118002-09-24 11:15 G		44820671.82	44820671.97	44820672.15	0.0137	0.0086	
Venus	118003-05-08 17:29 G		44820898.06	44820898.23	44820898.43	0.0137	0.0067	
Venus	118003-12-20 23:43 G		44821124.30	44821124.49	44821124.70	0.0137	0.0048	
Venus	118004-08-03 06:12 G		44821350.55	44821350.76	44821350.97	0.0137	0.0029	
Venus	118005-03-17 12:41 G		44821576.82	44821577.03	44821577.25	0.0137	0.0009	
Venus	118005-10-29 19:24 G		44821803.10	44821803.31	44821803.52	0.0138	0.0010	
Venus	118006-06-13 02:22 G		44822029.39	44822029.60	44822029.81	0.0138	0.0030	

Venus	118007-01-25 09:19 G	44822255.69	44822255.89	44822256.09	0.0138	0.0049
Venus	118007-09-08 16:17 G	44822482.00	44822482.18	44822482.38	0.0138	0.0069
Mercury	118008-02-04 19:24 G	44822631.28	44822631.31	44822631.34	0.0138	0.0134
Venus	118008-04-21 23:43 G	44822708.33	44822708.49	44822708.66	0.0138	0.0089
Mercury	118008-05-02 23:15 G	44822719.40	44822719.47	44822719.56	0.0138	0.0114
Mercury	118008-07-30 03:19 G	44822807.54	44822807.64	44822807.75	0.0138	0.0094
Mercury	118008-10-26 07:24 G	44822895.70	44822895.81	44822895.94	0.0139	0.0074
Venus	118008-12-04 06:55 G	44822934.67	44822934.79	44822934.94	0.0139	0.0109
Mercury	118009-01-22 11:29 G	44822983.85	44822983.98	44822984.12	0.0139	0.0053
Mercury	118009-04-20 15:34 G	44823072.01	44823072.15	44823072.29	0.0139	0.0033
Mercury	118009-07-17 19:39 G	44823160.17	44823160.32	44823160.46	0.0139	0.0014
Venus	118009-07-18 15:05 G	44823161.05	44823161.13	44823161.21	0.0139	0.0128
Mercury	118009-10-13 23:29 G	44823248.34	44823248.48	44823248.62	0.0139	0.0007
Mercury	118010-01-10 03:19 G	44823336.51	44823336.64	44823336.79	0.0139	0.0027
Mercury	118010-04-08 07:24 G	44823424.67	44823424.81	44823424.94	0.0139	0.0046
Mercury	118010-07-05 11:15 G	44823512.85	44823512.97	44823513.09	0.0139	0.0065
Mercury	118010-10-01 14:51 G	44823601.02	44823601.12	44823601.24	0.0139	0.0086
Mercury	118010-12-28 18:55 G	44823689.20	44823689.29	44823689.38	0.0139	0.0104
Mercury	118011-03-26 22:46 G	44823777.39	44823777.45	44823777.51	0.0139	0.0124
Moon	118012-09-19 06:12 G	44824319.57	44824319.76	44824319.95	0.0140	0.0093
Earth	118012-09-19 09:19 G	44824319.73	44824319.89	44824320.09	0.0140	0.0098 *
Earth	118013-09-24 03:05 G	44824689.38	44824689.63	44824689.89	0.0140	0.0006
Moon	118013-09-24 06:55 G	44824689.54	44824689.79	44824690.04	0.0140	0.0001 *
Moon	118014-09-28 17:43 G	44825059.11	44825059.24	44825059.39	0.0140	0.0116
Earth	118014-09-28 20:51 G	44825059.23	44825059.37	44825059.55	0.0140	0.0110 *
Venus	118042-05-30 06:55 G	44835164.70	44835164.79	44835164.90	0.0142	0.0125
Venus	118043-01-11 18:27 G	44835391.13	44835391.27	44835391.43	0.0141	0.0104
Venus	118043-08-26 06:12 G	44835617.58	44835617.76	44835617.94	0.0141	0.0082
Venus	118044-04-08 17:29 G	44835844.03	44835844.23	44835844.43	0.0141	0.0060
Venus	118044-11-21 04:31 G	44836070.49	44836070.69	44836070.92	0.0141	0.0039

Venus	118045-07-05 15:48 G	44836296.94	44836297.16	44836297.38	0.0141	0.0017
Venus	118046-02-17 02:36 G	44836523.39	44836523.61	44836523.83	0.0140	0.0005
Venus	118046-10-01 13:10 G	44836749.83	44836750.05	44836750.27	0.0140	0.0026
Venus	118047-05-15 23:29 G	44836976.28	44836976.48	44836976.69	0.0140	0.0047
Venus	118047-12-28 09:48 G	44837202.73	44837202.91	44837203.11	0.0140	0.0068
Venus	118048-08-10 19:39 G	44837429.17	44837429.32	44837429.51	0.0140	0.0089
Mercury	118048-11-21 23:58 G	44837532.43	44837532.50	44837532.59	0.0140	0.0125
Mercury	118049-02-18 06:12 G	44837620.65	44837620.76	44837620.88	0.0140	0.0101
Venus	118049-03-25 05:43 G	44837655.61	44837655.74	44837655.88	0.0140	0.0109
Mercury	118049-05-17 12:27 G	44837708.88	44837709.02	44837709.17	0.0139	0.0076
Mercury	118049-08-13 18:41 G	44837797.12	44837797.28	44837797.44	0.0139	0.0052
Venus	118049-11-06 15:19 G	44837882.06	44837882.14	44837882.23	0.0139	0.0129
Mercury	118049-11-10 00:55 G	44837885.37	44837885.54	44837885.72	0.0139	0.0028
Mercury	118050-02-06 07:24 G	44837973.63	44837973.81	44837973.98	0.0139	0.0004
Mercury	118050-05-05 13:39 G	44838061.90	44838062.07	44838062.24	0.0139	0.0022
Mercury	118050-08-01 20:07 G	44838150.17	44838150.34	44838150.50	0.0139	0.0046
Mercury	118050-10-29 02:22 G	44838238.45	44838238.60	44838238.76	0.0139	0.0071
Mercury	118051-01-25 08:51 G	44838326.75	44838326.87	44838327.00	0.0139	0.0096
Mercury	118051-04-23 15:19 G	44838415.06	44838415.14	44838415.23	0.0139	0.0121
Moon	118053-03-25 11:43 G	44839116.80	44839116.99	44839117.19	0.0138	0.0083
Earth	118053-03-25 13:53 G	44839116.90	44839117.08	44839117.29	0.0138	0.0088 *
Earth	118054-03-30 04:03 G	44839486.42	44839486.67	44839486.92	0.0138	0.0011
Moon	118054-03-30 06:55 G	44839486.53	44839486.79	44839487.05	0.0138	0.0004 *
Moon	118055-04-03 14:36 G	44839855.99	44839856.11	44839856.25	0.0138	0.0116
Earth	118055-04-03 16:46 G	44839856.07	44839856.20	44839856.37	0.0138	0.0109 *
Mars	118066-05-07 03:05 G	44843907.51	44843907.63	44843907.76	0.0135	0.0123
Venus	118085-02-26 11:00 G	44850777.90	44850777.96	44850778.04	0.0136	0.0129
Venus	118085-10-10 16:31 G	44851004.08	44851004.19	44851004.33	0.0137	0.0111
Venus	118086-05-24 22:46 G	44851230.30	44851230.45	44851230.61	0.0137	0.0092
Venus	118087-01-06 04:31 G	44851456.52	44851456.69	44851456.88	0.0137	0.0074

Venus	118087-08-20 10:31 G	44851682.75	44851682.94	44851683.15	0.0137	0.0055
Venus	118088-04-02 16:46 G	44851909.00	44851909.20	44851909.41	0.0137	0.0036
Venus	118088-11-14 23:15 G	44852135.26	44852135.47	44852135.69	0.0137	0.0016
Venus	118089-06-29 05:58 G	44852361.54	44852361.75	44852361.96	0.0138	0.0003
Venus	118090-02-10 12:41 G	44852587.82	44852588.03	44852588.24	0.0138	0.0023
Venus	118090-09-24 19:10 G	44852814.11	44852814.30	44852814.52	0.0138	0.0043
Venus	118091-05-09 02:22 G	44853040.41	44853040.60	44853040.80	0.0138	0.0062
Venus	118091-12-21 09:19 G	44853266.73	44853266.89	44853267.08	0.0138	0.0082
Mercury	118092-02-25 02:36 G	44853332.57	44853332.61	44853332.68	0.0138	0.0128
Mercury	118092-05-23 06:41 G	44853420.70	44853420.78	44853420.88	0.0138	0.0108
Venus	118092-08-03 17:00 G	44853493.07	44853493.21	44853493.36	0.0138	0.0102
Mercury	118092-08-19 10:46 G	44853508.85	44853508.95	44853509.07	0.0138	0.0088
Mercury	118092-11-15 15:05 G	44853597.00	44853597.13	44853597.25	0.0139	0.0067
Mercury	118093-02-11 18:55 G	44853685.16	44853685.29	44853685.43	0.0139	0.0047
Venus	118093-03-18 00:12 G	44853719.42	44853719.51	44853719.63	0.0139	0.0122
Mercury	118093-05-10 23:00 G	44853773.32	44853773.46	44853773.60	0.0139	0.0027
Mercury	118093-08-07 03:05 G	44853861.48	44853861.63	44853861.77	0.0139	0.0008
Mercury	118093-11-03 06:55 G	44853949.65	44853949.79	44853949.93	0.0139	0.0013
Mercury	118094-01-30 10:46 G	44854037.82	44854037.95	44854038.09	0.0139	0.0033
Mercury	118094-04-28 14:36 G	44854125.99	44854126.11	44854126.25	0.0139	0.0052
Mercury	118094-07-25 18:41 G	44854214.16	44854214.28	44854214.40	0.0139	0.0071
Mercury	118094-10-21 22:17 G	44854302.34	44854302.43	44854302.55	0.0139	0.0091
Mercury	118095-01-18 02:07 G	44854390.52	44854390.59	44854390.68	0.0139	0.0111
Mercury	118095-04-16 06:12 G	44854478.71	44854478.76	44854478.81	0.0139	0.0130
Earth	118096-09-19 20:22 G	44855001.18	44855001.35	44855001.56	0.0140	0.0092
Moon	118096-09-20 00:12 G	44855001.32	44855001.51	44855001.72	0.0140	0.0087 *
Moon	118097-09-24 10:17 G	44855370.68	44855370.93	44855371.19	0.0140	0.0005
Earth	118097-09-24 14:07 G	44855370.83	44855371.09	44855371.34	0.0140	0.0011 *
Earth	118098-09-29 07:53 G	44855740.70	44855740.83	44855740.99	0.0140	0.0115
Moon	118098-09-29 11:00 G	44855740.86	44855740.96	44855741.11	0.0140	0.0123 *

Mars	118108-07-11 05:00 G	44859312.40	44859312.71	44859313.01	0.0143	0.0008
Venus	118126-01-28 14:07 G	44865723.04	44865723.09	44865723.18	0.0142	0.0134
Venus	118126-09-12 02:07 G	44865949.46	44865949.59	44865949.73	0.0141	0.0112
Venus	118127-04-26 13:39 G	44866175.91	44866176.07	44866176.25	0.0141	0.0091
Venus	118127-12-09 01:24 G	44866402.38	44866402.56	44866402.76	0.0141	0.0069
Venus	118128-07-22 12:55 G	44866628.83	44866629.04	44866629.25	0.0141	0.0046
Venus	118129-03-05 23:58 G	44866855.29	44866855.50	44866855.72	0.0141	0.0025
Venus	118129-10-18 11:00 G	44867081.74	44867081.96	44867082.18	0.0141	0.0003
Venus	118130-06-01 21:48 G	44867308.19	44867308.41	44867308.63	0.0140	0.0019
Venus	118131-01-14 08:22 G	44867534.64	44867534.85	44867535.07	0.0140	0.0040
Venus	118131-08-28 18:41 G	44867761.09	44867761.28	44867761.49	0.0140	0.0061
Venus	118132-04-11 04:46 G	44867987.53	44867987.70	44867987.89	0.0140	0.0082
Mercury	118132-09-16 01:53 G	44868145.58	44868145.58	44868145.59	0.0140	0.0140
Venus	118132-11-23 14:36 G	44868213.98	44868214.11	44868214.28	0.0140	0.0103
Mercury	118132-12-13 07:53 G	44868233.75	44868233.83	44868233.94	0.0140	0.0116
Mercury	118133-03-11 14:07 G	44868321.97	44868322.09	44868322.23	0.0140	0.0092
Mercury	118133-06-07 20:22 G	44868410.21	44868410.35	44868410.51	0.0140	0.0068
Venus	118133-07-08 00:27 G	44868440.43	44868440.52	44868440.64	0.0140	0.0123
Mercury	118133-09-04 02:36 G	44868498.45	44868498.61	44868498.78	0.0139	0.0043
Mercury	118133-12-01 09:05 G	44868586.70	44868586.88	44868587.05	0.0139	0.0019
Mercury	118134-02-27 15:19 G	44868674.97	44868675.14	44868675.32	0.0139	0.0006
Mercury	118134-05-26 21:34 G	44868763.23	44868763.40	44868763.58	0.0139	0.0031
Mercury	118134-08-23 04:03 G	44868851.51	44868851.67	44868851.83	0.0139	0.0056
Mercury	118134-11-19 10:31 G	44868939.79	44868939.94	44868940.08	0.0139	0.0080
Mercury	118135-02-15 16:46 G	44869028.09	44869028.20	44869028.32	0.0139	0.0106
Mercury	118135-05-14 23:29 G	44869116.42	44869116.48	44869116.54	0.0139	0.0130
Earth	118137-03-27 02:51 G	44869798.43	44869798.62	44869798.85	0.0138	0.0081
Moon	118137-03-27 05:29 G	44869798.52	44869798.73	44869798.95	0.0138	0.0075 *
Moon	118138-03-31 14:51 G	44870167.87	44870168.12	44870168.37	0.0138	0.0011
Earth	118138-03-31 17:15 G	44870167.97	44870168.22	44870168.48	0.0138	0.0019 *

Earth	118139-04-05 06:12 G	44870537.63	44870537.76	44870537.90	0.0138	0.0116
Moon	118139-04-05 08:22 G	44870537.75	44870537.85	44870537.98	0.0138	0.0123 *
Mars	118149-01-29 12:41 G	44874125.01	44874125.03	44874125.10	0.0136	0.0134
Venus	118168-10-27 22:31 G	44881336.43	44881336.44	44881336.49	0.0136	0.0135
Venus	118169-06-11 04:17 G	44881562.59	44881562.68	44881562.80	0.0136	0.0117
Venus	118170-01-23 10:03 G	44881788.79	44881788.92	44881789.08	0.0137	0.0099
Venus	118170-09-06 16:03 G	44882015.00	44882015.17	44882015.35	0.0137	0.0080
Venus	118171-04-20 22:03 G	44882241.23	44882241.42	44882241.62	0.0137	0.0061
Venus	118171-12-03 04:17 G	44882467.48	44882467.68	44882467.88	0.0137	0.0042
Venus	118172-07-16 10:31 G	44882693.73	44882693.94	44882694.16	0.0137	0.0023
Venus	118173-02-27 17:00 G	44882920.00	44882920.21	44882920.43	0.0137	0.0003
Venus	118173-10-11 23:29 G	44883146.27	44883146.48	44883146.70	0.0138	0.0016
Venus	118174-05-26 06:27 G	44883372.56	44883372.77	44883372.98	0.0138	0.0036
Venus	118175-01-07 13:10 G	44883598.86	44883599.05	44883599.25	0.0138	0.0056
Venus	118175-08-21 20:22 G	44883825.17	44883825.35	44883825.53	0.0138	0.0076
Mercury	118176-03-17 10:17 G	44884033.87	44884033.93	44884034.01	0.0138	0.0120
Venus	118176-04-04 03:19 G	44884051.49	44884051.64	44884051.80	0.0138	0.0095
Mercury	118176-06-13 14:36 G	44884122.01	44884122.11	44884122.21	0.0138	0.0100
Mercury	118176-09-09 18:41 G	44884210.16	44884210.28	44884210.40	0.0138	0.0080
Venus	118176-11-16 10:31 G	44884277.84	44884277.94	44884278.07	0.0139	0.0115
Mercury	118176-12-06 22:46 G	44884298.32	44884298.45	44884298.58	0.0139	0.0060
Mercury	118177-03-05 02:51 G	44884386.48	44884386.62	44884386.75	0.0139	0.0040
Mercury	118177-06-01 06:41 G	44884474.64	44884474.78	44884474.92	0.0139	0.0020
Venus	118177-06-30 18:12 G	44884504.23	44884504.26	44884504.32	0.0139	0.0135
Mercury	118177-08-28 10:46 G	44884562.80	44884562.95	44884563.09	0.0139	0.0002
Mercury	118177-11-24 14:36 G	44884650.97	44884651.11	44884651.25	0.0139	0.0020
Mercury	118178-02-20 18:27 G	44884739.14	44884739.27	44884739.41	0.0139	0.0040
Mercury	118178-05-19 22:17 G	44884827.31	44884827.43	44884827.57	0.0139	0.0059
Mercury	118178-08-16 02:22 G	44884915.48	44884915.60	44884915.72	0.0139	0.0078
Mercury	118178-11-12 05:58 G	44885003.66	44885003.75	44885003.86	0.0139	0.0099

Mercury	118179-02-08 10:03 G	44885091.85	44885091.92	44885092.00	0.0139	0.0117
Mercury	118179-05-07 13:53 G	44885180.06	44885180.08	44885180.11	0.0139	0.0136
Moon	118180-09-21 05:29 G	44885682.53	44885682.73	44885682.95	0.0140	0.0080
Earth	118180-09-21 09:05 G	44885682.69	44885682.88	44885683.09	0.0140	0.0085 *
Earth	118181-09-26 02:36 G	44886052.36	44886052.61	44886052.87	0.0140	0.0018
Moon	118181-09-26 06:12 G	44886052.51	44886052.76	44886053.02	0.0140	0.0012 *
Moon	118182-09-30 17:00 G	44886422.13	44886422.21	44886422.33	0.0140	0.0130
Earth	118182-09-30 20:51 G	44886422.25	44886422.37	44886422.50	0.0140	0.0122 *
Venus	118209-09-28 22:17 G	44896281.43	44896281.43	44896281.44	0.0142	0.0142
Venus	118210-05-13 10:17 G	44896507.82	44896507.93	44896508.05	0.0142	0.0120
Venus	118210-12-25 22:03 G	44896734.27	44896734.42	44896734.59	0.0141	0.0098
Venus	118211-08-09 09:48 G	44896960.73	44896960.91	44896961.10	0.0141	0.0076
Venus	118212-03-22 21:19 G	44897187.19	44897187.39	44897187.59	0.0141	0.0054
Venus	118212-11-04 08:36 G	44897413.65	44897413.86	44897414.08	0.0141	0.0032
Venus	118213-06-18 19:53 G	44897640.11	44897640.33	44897640.55	0.0141	0.0011
Venus	118214-01-31 06:41 G	44897866.56	44897866.78	44897867.00	0.0141	0.0012
Venus	118214-09-14 17:15 G	44898093.01	44898093.22	44898093.44	0.0140	0.0033
Venus	118215-04-29 03:48 G	44898319.46	44898319.66	44898319.87	0.0140	0.0054
Venus	118215-12-11 14:22 G	44898545.91	44898546.10	44898546.28	0.0140	0.0075
Venus	118216-07-25 00:12 G	44898772.36	44898772.51	44898772.68	0.0140	0.0096
Mercury	118216-10-07 10:03 G	44898846.86	44898846.92	44898846.98	0.0140	0.0130
Mercury	118217-01-03 15:48 G	44898935.07	44898935.16	44898935.29	0.0140	0.0107
Venus	118217-03-08 09:48 G	44898998.81	44898998.91	44898999.05	0.0140	0.0117
Mercury	118217-04-01 22:03 G	44899023.29	44899023.42	44899023.57	0.0140	0.0083
Mercury	118217-06-29 04:31 G	44899111.53	44899111.69	44899111.85	0.0140	0.0058
Mercury	118217-09-25 10:46 G	44899199.78	44899199.95	44899200.12	0.0139	0.0034
Venus	118217-10-20 19:24 G	44899225.28	44899225.31	44899225.37	0.0139	0.0137
Mercury	118217-12-22 17:00 G	44899288.04	44899288.21	44899288.39	0.0139	0.0010
Mercury	118218-03-20 23:29 G	44899376.30	44899376.48	44899376.65	0.0139	0.0016
Mercury	118218-06-17 05:43 G	44899464.57	44899464.74	44899464.91	0.0139	0.0040

Mercury	118218-09-13 11:58 G	44899552.85	44899553.00	44899553.16	0.0139	0.0065
Mercury	118218-12-10 18:12 G	44899641.14	44899641.26	44899641.41	0.0139	0.0091
Mercury	118219-03-09 00:41 G	44899729.45	44899729.53	44899729.64	0.0139	0.0115
Moon	118221-03-28 14:36 G	44900479.90	44900480.11	44900480.33	0.0138	0.0067
Earth	118221-03-28 16:31 G	44900479.99	44900480.19	44900480.42	0.0138	0.0073 *
Earth	118222-04-02 06:41 G	44900849.53	44900849.78	44900850.03	0.0138	0.0027
Moon	118222-04-02 09:05 G	44900849.63	44900849.88	44900850.15	0.0138	0.0019 *
Moon	118223-04-06 17:43 G	44901219.18	44901219.24	44901219.32	0.0138	0.0131
Earth	118223-04-06 19:39 G	44901219.23	44901219.32	44901219.45	0.0138	0.0124 *
Mars	118233-09-25 16:31 G	44905043.90	44905044.19	44905044.50	0.0135	0.0030
Venus	118253-02-09 15:48 G	44912121.08	44912121.16	44912121.25	0.0136	0.0124
Venus	118253-09-23 21:19 G	44912347.27	44912347.39	44912347.53	0.0136	0.0105
Venus	118254-05-08 03:19 G	44912573.48	44912573.64	44912573.81	0.0137	0.0087
Venus	118254-12-20 09:05 G	44912799.70	44912799.88	44912800.07	0.0137	0.0068
Venus	118255-08-03 15:05 G	44913025.94	44913026.13	44913026.34	0.0137	0.0049
Venus	118256-03-16 21:19 G	44913252.18	44913252.39	44913252.60	0.0137	0.0030
Venus	118256-10-29 03:34 G	44913478.44	44913478.65	44913478.87	0.0137	0.0011
Venus	118257-06-12 10:17 G	44913704.71	44913704.93	44913705.14	0.0137	0.0009
Venus	118258-01-24 16:46 G	44913930.99	44913931.20	44913931.41	0.0138	0.0029
Venus	118258-09-07 23:29 G	44914157.28	44914157.48	44914157.68	0.0138	0.0049
Venus	118259-04-22 05:58 G	44914383.58	44914383.75	44914383.95	0.0138	0.0069
Venus	118259-12-04 13:24 G	44914609.90	44914610.06	44914610.23	0.0138	0.0088
Mercury	118260-01-10 13:53 G	44914647.05	44914647.08	44914647.12	0.0138	0.0134
Mercury	118260-04-07 17:58 G	44914735.18	44914735.25	44914735.34	0.0138	0.0114
Mercury	118260-07-04 22:03 G	44914823.32	44914823.42	44914823.53	0.0138	0.0093
Venus	118260-07-17 20:22 G	44914836.23	44914836.35	44914836.50	0.0138	0.0109
Mercury	118260-10-01 02:07 G	44914911.47	44914911.59	44914911.72	0.0138	0.0073
Mercury	118260-12-28 06:12 G	44914999.63	44914999.76	44914999.89	0.0138	0.0053
Venus	118261-03-01 04:03 G	44915062.60	44915062.67	44915062.76	0.0139	0.0128
Mercury	118261-03-26 10:17 G	44915087.79	44915087.93	44915088.07	0.0139	0.0033

Mercury	118261-06-22 14:07 G	44915175.95	44915176.09	44915176.24	0.0139	0.0014
Mercury	118261-09-18 18:12 G	44915264.12	44915264.26	44915264.40	0.0139	0.0006
Mercury	118261-12-15 22:03 G	44915352.28	44915352.42	44915352.56	0.0139	0.0026
Mercury	118262-03-14 01:53 G	44915440.45	44915440.58	44915440.72	0.0139	0.0046
Mercury	118262-06-10 05:58 G	44915528.62	44915528.75	44915528.87	0.0139	0.0065
Mercury	118262-09-06 09:48 G	44915616.80	44915616.91	44915617.02	0.0139	0.0084
Mercury	118262-12-03 13:24 G	44915704.98	44915705.06	44915705.16	0.0139	0.0105
Mercury	118263-03-01 17:29 G	44915793.17	44915793.23	44915793.30	0.0139	0.0123
Earth	118264-09-22 20:07 G	44916364.15	44916364.34	44916364.57	0.0140	0.0079
Moon	118264-09-23 00:12 G	44916364.30	44916364.51	44916364.73	0.0140	0.0073 *
Moon	118265-09-27 10:03 G	44916733.68	44916733.92	44916734.18	0.0140	0.0018
Earth	118265-09-27 13:53 G	44916733.83	44916734.08	44916734.34	0.0140	0.0024 *
Earth	118266-10-02 07:53 G	44917103.74	44917103.83	44917103.95	0.0140	0.0128
Moon	118266-10-02 11:15 G	44917103.92	44917103.97	44917104.05	0.0140	0.0135 *
Jupiter	118267-11-04 23:15 G	44917502.05	44917502.47	44917502.93	0.0141	0.0070
Mars	118275-11-29 03:05 G	44920448.46	44920448.63	44920448.82	0.0143	0.0114
Venus	118294-01-10 17:15 G	44927066.14	44927066.22	44927066.32	0.0142	0.0129
Venus	118294-08-25 05:15 G	44927292.58	44927292.72	44927292.87	0.0142	0.0107
Venus	118295-04-08 17:00 G	44927519.04	44927519.21	44927519.40	0.0141	0.0085
Venus	118295-11-21 04:46 G	44927745.51	44927745.70	44927745.91	0.0141	0.0063
Venus	118296-07-04 16:31 G	44927971.97	44927972.19	44927972.40	0.0141	0.0040
Venus	118297-02-16 03:34 G	44928198.43	44928198.65	44928198.87	0.0141	0.0018
Venus	118297-09-30 14:36 G	44928424.89	44928425.11	44928425.33	0.0141	0.0004
Venus	118298-05-15 01:24 G	44928651.35	44928651.56	44928651.78	0.0141	0.0026
Venus	118298-12-27 12:12 G	44928877.81	44928878.01	44928878.22	0.0140	0.0047
Venus	118299-08-10 22:31 G	44929104.26	44929104.44	44929104.64	0.0140	0.0068
Venus	118300-03-25 08:51 G	44929330.70	44929330.87	44929331.04	0.0140	0.0089
Mercury	118300-10-28 17:43 G	44929548.16	44929548.24	44929548.33	0.0140	0.0122
Venus	118300-11-06 18:41 G	44929557.16	44929557.28	44929557.42	0.0140	0.0110
Mercury	118301-01-24 23:58 G	44929636.38	44929636.50	44929636.62	0.0140	0.0098

Mercury	118301-04-23 05:58 G	44929724.61	44929724.75	44929724.90	0.0140	0.0074
Venus	118301-06-21 04:31 G	44929783.62	44929783.69	44929783.78	0.0140	0.0130
Mercury	118301-07-20 12:12 G	44929812.85	44929813.01	44929813.18	0.0140	0.0050
Mercury	118301-10-16 18:27 G	44929901.10	44929901.27	44929901.45	0.0140	0.0026
Mercury	118302-01-13 00:55 G	44929989.36	44929989.54	44929989.71	0.0139	0.0002
Mercury	118302-04-11 07:10 G	44930077.63	44930077.80	44930077.97	0.0139	0.0024
Mercury	118302-07-08 13:39 G	44930165.90	44930166.07	44930166.23	0.0139	0.0049
Mercury	118302-10-04 19:53 G	44930254.18	44930254.33	44930254.48	0.0139	0.0074
Mercury	118303-01-01 02:22 G	44930342.48	44930342.60	44930342.72	0.0139	0.0098
Mercury	118303-03-30 08:51 G	44930430.79	44930430.87	44930430.95	0.0139	0.0123
Earth	118305-03-30 05:29 G	44931161.52	44931161.73	44931161.96	0.0138	0.0065
Moon	118305-03-30 06:12 G	44931161.53	44931161.76	44931162.00	0.0138	0.0062 *
Moon	118306-04-03 18:55 G	44931531.05	44931531.29	44931531.53	0.0138	0.0027
Earth	118306-04-03 19:53 G	44931531.09	44931531.33	44931531.58	0.0138	0.0034 *
Earth	118307-04-08 08:51 G	44931900.81	44931900.87	44931900.96	0.0138	0.0131
Moon	118307-04-08 09:34 G	44931900.90	44931900.90	44931900.93	0.0138	0.0138 *
Venus	118336-10-11 03:34 G	44942679.59	44942679.65	44942679.72	0.0136	0.0130
Venus	118337-05-25 09:05 G	44942905.77	44942905.88	44942906.01	0.0136	0.0112
Venus	118338-01-06 14:36 G	44943131.97	44943132.11	44943132.28	0.0136	0.0094
Venus	118338-08-20 20:22 G	44943358.19	44943358.35	44943358.55	0.0137	0.0075
Venus	118339-04-04 02:36 G	44943584.42	44943584.61	44943584.81	0.0137	0.0055
Venus	118339-11-16 08:36 G	44943810.66	44943810.86	44943811.07	0.0137	0.0036
Venus	118340-06-29 14:51 G	44944036.91	44944037.12	44944037.34	0.0137	0.0017
Venus	118341-02-10 21:05 G	44944263.17	44944263.38	44944263.60	0.0137	0.0005
Venus	118341-09-25 03:34 G	44944489.44	44944489.65	44944489.86	0.0137	0.0023
Venus	118342-05-09 10:03 G	44944715.72	44944715.92	44944716.13	0.0138	0.0043
Venus	118342-12-21 17:00 G	44944942.02	44944942.21	44944942.40	0.0138	0.0062
Venus	118343-08-04 23:43 G	44945168.33	44945168.49	44945168.67	0.0138	0.0082
Mercury	118344-01-31 21:34 G	44945348.35	44945348.40	44945348.46	0.0138	0.0126
Venus	118344-03-18 06:41 G	44945394.65	44945394.78	44945394.94	0.0138	0.0102

Mercury	118344-04-29 01:39 G	44945436.49	44945436.57	44945436.67	0.0138	0.0106
Mercury	118344-07-26 05:43 G	44945524.63	44945524.74	44945524.86	0.0138	0.0086
Mercury	118344-10-22 09:48 G	44945612.79	44945612.91	44945613.04	0.0138	0.0066
Venus	118344-10-30 14:07 G	44945621.00	44945621.09	44945621.20	0.0138	0.0122
Mercury	118345-01-18 13:53 G	44945700.95	44945701.08	44945701.22	0.0138	0.0046
Mercury	118345-04-16 17:58 G	44945789.11	44945789.25	44945789.39	0.0139	0.0026
Mercury	118345-07-13 21:48 G	44945877.27	44945877.41	44945877.56	0.0139	0.0008
Mercury	118345-10-10 01:53 G	44945965.44	44945965.58	44945965.72	0.0139	0.0013
Mercury	118346-01-06 05:43 G	44946053.60	44946053.74	44946053.88	0.0139	0.0033
Mercury	118346-04-04 09:34 G	44946141.77	44946141.90	44946142.04	0.0139	0.0053
Mercury	118346-07-01 13:39 G	44946229.95	44946230.07	44946230.19	0.0139	0.0072
Mercury	118346-09-27 17:15 G	44946318.12	44946318.22	44946318.33	0.0139	0.0092
Mercury	118346-12-24 21:05 G	44946406.31	44946406.38	44946406.47	0.0139	0.0111
Mercury	118347-03-23 00:55 G	44946494.50	44946494.54	44946494.60	0.0139	0.0131
Moon	118348-09-24 08:22 G	44947045.65	44947045.85	44947046.06	0.0140	0.0075
Earth	118348-09-24 08:51 G	44947045.67	44947045.87	44947046.10	0.0140	0.0072 *
Earth	118349-09-29 02:22 G	44947415.36	44947415.60	44947415.86	0.0140	0.0031
Moon	118349-09-29 03:34 G	44947415.40	44947415.65	44947415.91	0.0140	0.0031 *
Moon	118350-10-03 19:39 G	44947785.29	44947785.32	44947785.38	0.0140	0.0137
Earth	118350-10-03 20:36 G	44947785.30	44947785.36	44947785.45	0.0140	0.0134 *
Mars	118360-07-25 14:36 G	44951367.85	44951368.11	44951368.38	0.0143	0.0069
Venus	118377-09-11 00:41 G	44957624.49	44957624.53	44957624.60	0.0142	0.0137
Venus	118378-04-25 12:55 G	44957850.92	44957851.04	44957851.18	0.0142	0.0115
Venus	118378-12-08 00:55 G	44958077.38	44958077.54	44958077.72	0.0141	0.0093
Venus	118379-07-22 12:41 G	44958303.85	44958304.03	44958304.23	0.0141	0.0071
Venus	118380-03-05 00:12 G	44958530.31	44958530.51	44958530.73	0.0141	0.0049
Venus	118380-10-17 11:43 G	44958756.78	44958756.99	44958757.21	0.0141	0.0026
Venus	118381-05-31 23:00 G	44958983.24	44958983.46	44958983.68	0.0141	0.0004
Venus	118382-01-13 10:03 G	44959209.70	44959209.92	44959210.14	0.0141	0.0018
Venus	118382-08-27 20:51 G	44959436.16	44959436.37	44959436.58	0.0140	0.0040

Venus	118383-04-11 07:10 G	44959662.61	44959662.80	44959663.00	0.0140	0.0062
Venus	118383-11-23 17:15 G	44959889.06	44959889.22	44959889.42	0.0140	0.0083
Venus	118384-07-07 03:48 G	44960115.51	44960115.66	44960115.81	0.0140	0.0103
Mercury	118384-08-21 19:24 G	44960161.29	44960161.31	44960161.35	0.0140	0.0137
Mercury	118384-11-18 01:39 G	44960249.48	44960249.57	44960249.67	0.0140	0.0113
Mercury	118385-02-14 07:53 G	44960337.70	44960337.83	44960337.96	0.0140	0.0089
Venus	118385-02-18 13:24 G	44960341.97	44960342.06	44960342.17	0.0140	0.0124
Mercury	118385-05-13 13:53 G	44960425.93	44960426.08	44960426.24	0.0140	0.0065
Mercury	118385-08-09 20:07 G	44960514.18	44960514.34	44960514.51	0.0140	0.0041
Mercury	118385-11-06 02:22 G	44960602.43	44960602.60	44960602.78	0.0140	0.0017
Mercury	118386-02-02 08:36 G	44960690.69	44960690.86	44960691.04	0.0139	0.0009
Mercury	118386-05-01 15:05 G	44960778.96	44960779.13	44960779.30	0.0139	0.0033
Mercury	118386-07-28 21:19 G	44960867.23	44960867.39	44960867.55	0.0139	0.0058
Mercury	118386-10-25 03:48 G	44960955.52	44960955.66	44960955.80	0.0139	0.0082
Mercury	118387-01-21 10:03 G	44961043.82	44961043.92	44961044.04	0.0139	0.0108
Mercury	118387-04-19 16:46 G	44961132.15	44961132.20	44961132.25	0.0139	0.0132
Earth	118389-03-30 18:27 G	44961843.05	44961843.27	44961843.51	0.0138	0.0059
Moon	118389-03-30 22:03 G	44961843.21	44961843.42	44961843.66	0.0138	0.0066 *
Moon	118390-04-04 05:15 G	44962212.49	44962212.72	44962212.98	0.0138	0.0044
Earth	118390-04-04 08:51 G	44962212.63	44962212.87	44962213.12	0.0138	0.0040 *
Earth	118391-04-08 22:17 G	44962582.43	44962582.43	44962582.45	0.0138	0.0138
Moon	118391-04-09 01:53 G	44962582.57	44962582.58	44962582.61	0.0138	0.0137
Mars	118401-02-13 05:29 G	44966180.48	44966180.73	44966181.02	0.0136	0.0066
Venus	118420-06-10 15:34 G	44973238.15	44973238.15	44973238.17	0.0136	0.0136
Venus	118421-01-22 20:36 G	44973464.28	44973464.36	44973464.49	0.0136	0.0119
Venus	118421-09-06 02:22 G	44973690.47	44973690.60	44973690.76	0.0136	0.0100
Venus	118422-04-20 08:07 G	44973916.68	44973916.84	44973917.02	0.0136	0.0081
Venus	118422-12-02 13:53 G	44974142.90	44974143.08	44974143.28	0.0137	0.0062
Venus	118423-07-16 19:53 G	44974369.13	44974369.33	44974369.54	0.0137	0.0043
Venus	118424-02-28 01:53 G	44974595.37	44974595.58	44974595.80	0.0137	0.0023

Venus	118424-10-11 08:07 G	44974821.63	44974821.84	44974822.05	0.0137	0.0004
Venus	118425-05-25 14:22 G	44975047.89	44975048.10	44975048.32	0.0137	0.0017
Venus	118426-01-06 21:05 G	44975274.17	44975274.38	44975274.58	0.0137	0.0036
Venus	118426-08-21 03:19 G	44975500.45	44975500.64	44975500.85	0.0138	0.0056
Venus	118427-04-04 10:03 G	44975726.75	44975726.92	44975727.11	0.0138	0.0076
Venus	118427-11-16 17:15 G	44975953.07	44975953.22	44975953.38	0.0138	0.0095
Mercury	118428-02-21 05:15 G	44976049.65	44976049.72	44976049.79	0.0138	0.0119
Mercury	118428-05-19 09:19 G	44976137.79	44976137.89	44976137.99	0.0138	0.0099
Venus	118428-06-30 00:12 G	44976179.41	44976179.51	44976179.64	0.0138	0.0116
Mercury	118428-08-15 13:24 G	44976225.95	44976226.06	44976226.18	0.0138	0.0079
Mercury	118428-11-11 17:29 G	44976314.10	44976314.23	44976314.36	0.0138	0.0059
Mercury	118429-02-07 21:34 G	44976402.26	44976402.40	44976402.54	0.0138	0.0039
Venus	118429-02-11 07:53 G	44976405.79	44976405.83	44976405.88	0.0138	0.0135
Mercury	118429-05-07 01:24 G	44976490.42	44976490.56	44976490.71	0.0138	0.0020
Mercury	118429-08-03 05:29 G	44976578.59	44976578.73	44976578.87	0.0139	0.0001
Mercury	118429-10-30 09:19 G	44976666.75	44976666.89	44976667.04	0.0139	0.0020
Mercury	118430-01-26 13:24 G	44976754.92	44976755.06	44976755.19	0.0139	0.0040
Mercury	118430-04-24 17:15 G	44976843.09	44976843.22	44976843.35	0.0139	0.0059
Mercury	118430-07-21 21:05 G	44976931.27	44976931.38	44976931.50	0.0139	0.0079
Mercury	118430-10-18 00:55 G	44977019.45	44977019.54	44977019.64	0.0139	0.0098
Mercury	118431-01-14 04:46 G	44977107.63	44977107.70	44977107.78	0.0139	0.0117
Mercury	118431-04-12 08:22 G	44977195.84	44977195.85	44977195.89	0.0139	0.0137
Moon	118432-09-24 17:15 G	44977727.01	44977727.22	44977727.45	0.0139	0.0072
Earth	118432-09-24 20:36 G	44977727.15	44977727.36	44977727.60	0.0139	0.0066 *
Earth	118433-09-29 14:07 G	44978096.85	44978097.09	44978097.34	0.0140	0.0037
Moon	118433-09-29 17:15 G	44978097.00	44978097.22	44978097.47	0.0140	0.0045 *
Moon	118434-10-04 04:31 G	44978466.62	44978466.69	44978466.78	0.0140	0.0132
Earth	118434-10-04 08:07 G	44978466.84	44978466.84	44978466.87	0.0140	0.0140
Venus	118461-12-23 19:24 G	44988409.22	44988409.31	44988409.43	0.0142	0.0124
Venus	118462-08-07 07:24 G	44988635.67	44988635.81	44988635.98	0.0142	0.0102

Venus	118463-03-21 19:10 G	44988862.14	44988862.30	44988862.50	0.0142	0.0080
Venus	118463-11-03 07:24 G	44989088.61	44989088.81	44989089.01	0.0141	0.0057
Venus	118464-06-16 18:55 G	44989315.07	44989315.29	44989315.50	0.0141	0.0034
Venus	118465-01-29 06:12 G	44989541.54	44989541.76	44989541.98	0.0141	0.0012
Venus	118465-09-12 17:15 G	44989768.00	44989768.22	44989768.44	0.0141	0.0010
Venus	118466-04-27 04:03 G	44989994.46	44989994.67	44989994.89	0.0141	0.0032
Venus	118466-12-09 15:05 G	44990220.92	44990221.13	44990221.33	0.0141	0.0054
Venus	118467-07-24 01:10 G	44990447.38	44990447.55	44990447.75	0.0140	0.0076
Venus	118468-03-06 11:29 G	44990673.83	44990673.98	44990674.15	0.0140	0.0096
Mercury	118468-09-11 02:51 G	44990862.57	44990862.62	44990862.69	0.0140	0.0130
Venus	118468-10-18 21:19 G	44990900.29	44990900.39	44990900.52	0.0140	0.0117
Mercury	118468-12-08 09:05 G	44990950.78	44990950.88	44990951.00	0.0140	0.0106
Mercury	118469-03-06 15:19 G	44991039.00	44991039.14	44991039.28	0.0140	0.0082
Venus	118469-06-02 07:24 G	44991126.78	44991126.81	44991126.86	0.0140	0.0137
Mercury	118469-06-02 21:19 G	44991127.24	44991127.39	44991127.56	0.0140	0.0058
Mercury	118469-08-30 03:34 G	44991215.49	44991215.65	44991215.83	0.0140	0.0034
Mercury	118469-11-26 10:03 G	44991303.74	44991303.92	44991304.09	0.0140	0.0009
Mercury	118470-02-22 16:17 G	44991392.01	44991392.18	44991392.35	0.0140	0.0016
Mercury	118470-05-21 22:31 G	44991480.28	44991480.44	44991480.61	0.0139	0.0041
Mercury	118470-08-18 04:46 G	44991568.55	44991568.70	44991568.86	0.0139	0.0066
Mercury	118470-11-14 11:15 G	44991656.84	44991656.97	44991657.11	0.0139	0.0090
Mercury	118471-02-10 17:43 G	44991745.15	44991745.24	44991745.34	0.0139	0.0115
Moon	118473-03-31 05:43 G	44992524.53	44992524.74	44992524.98	0.0139	0.0058
Earth	118473-03-31 06:27 G	44992524.55	44992524.77	44992525.02	0.0139	0.0053 *
Earth	118474-04-04 21:05 G	44992894.15	44992894.38	44992894.63	0.0138	0.0047
Moon	118474-04-04 21:48 G	44992894.18	44992894.41	44992894.66	0.0138	0.0053 *
Moon	118475-04-09 09:19 G	44993263.88	44993263.89	44993263.93	0.0138	0.0137
Jupiter	118475-10-04 16:17 G	44993441.83	44993442.18	44993442.57	0.0138	0.0099
Mars	118485-10-09 09:34 G	44997099.71	44997099.90	44997100.13	0.0136	0.0098
Venus	118504-09-23 08:36 G	45004022.79	45004022.86	45004022.96	0.0136	0.0124

Venus	118505-05-07 14:22 G	45004248.98	45004249.10	45004249.24	0.0136	0.0106
Venus	118505-12-19 20:07 G	45004475.18	45004475.34	45004475.50	0.0136	0.0087
Venus	118506-08-03 01:39 G	45004701.39	45004701.57	45004701.76	0.0137	0.0068
Venus	118507-03-17 07:24 G	45004927.61	45004927.81	45004928.01	0.0137	0.0049
Venus	118507-10-29 13:10 G	45005153.85	45005154.05	45005154.27	0.0137	0.0030
Venus	118508-06-11 19:39 G	45005380.10	45005380.32	45005380.53	0.0137	0.0010
Venus	118509-01-24 01:39 G	45005606.36	45005606.57	45005606.79	0.0137	0.0010
Venus	118509-09-07 07:53 G	45005832.63	45005832.83	45005833.05	0.0137	0.0030
Venus	118510-04-21 14:22 G	45006058.91	45006059.10	45006059.31	0.0138	0.0049
Venus	118510-12-03 21:05 G	45006285.20	45006285.38	45006285.57	0.0138	0.0069
Venus	118511-07-18 04:03 G	45006511.51	45006511.67	45006511.84	0.0138	0.0089
Mercury	118511-12-16 08:36 G	45006662.83	45006662.86	45006662.91	0.0138	0.0133
Venus	118512-02-29 10:46 G	45006737.84	45006737.95	45006738.10	0.0138	0.0109
Mercury	118512-03-13 12:55 G	45006750.96	45006751.04	45006751.13	0.0138	0.0112
Mercury	118512-06-09 17:00 G	45006839.11	45006839.21	45006839.32	0.0138	0.0092
Mercury	118512-09-05 21:05 G	45006927.26	45006927.38	45006927.51	0.0138	0.0072
Venus	118512-10-12 18:27 G	45006964.19	45006964.27	45006964.34	0.0138	0.0129
Mercury	118512-12-03 01:10 G	45007015.42	45007015.55	45007015.69	0.0138	0.0052
Mercury	118513-03-01 05:15 G	45007103.58	45007103.72	45007103.86	0.0138	0.0032
Mercury	118513-05-28 09:19 G	45007191.74	45007191.89	45007192.03	0.0138	0.0012
Mercury	118513-08-24 13:10 G	45007279.91	45007280.05	45007280.20	0.0138	0.0008
Mercury	118513-11-20 17:15 G	45007368.08	45007368.22	45007368.36	0.0139	0.0027
Mercury	118514-02-16 21:05 G	45007456.25	45007456.38	45007456.52	0.0139	0.0047
Mercury	118514-05-16 00:55 G	45007544.42	45007544.54	45007544.67	0.0139	0.0067
Mercury	118514-08-12 05:00 G	45007632.60	45007632.71	45007632.82	0.0139	0.0086
Mercury	118514-11-08 08:36 G	45007720.78	45007720.86	45007720.96	0.0139	0.0106
Mercury	118515-02-04 12:27 G	45007808.97	45007809.02	45007809.09	0.0139	0.0125
Earth	118516-09-26 09:34 G	45008408.68	45008408.90	45008409.15	0.0139	0.0059
Moon	118516-09-26 10:46 G	45008408.71	45008408.95	45008409.19	0.0139	0.0056 *
Moon	118517-10-01 01:53 G	45008778.36	45008778.58	45008778.83	0.0140	0.0046

Earth	118517-10-01 03:05 G	45008778.40	45008778.63	45008778.88	0.0140	0.0044 *
Mars	118527-12-13 13:10 G	45012503.79	45012504.05	45012504.34	0.0142	0.0056
Venus	118545-08-24 03:05 G	45018967.56	45018967.63	45018967.72	0.0142	0.0132
Venus	118546-04-07 15:05 G	45019194.01	45019194.13	45019194.29	0.0142	0.0110
Venus	118546-11-20 03:05 G	45019420.47	45019420.63	45019420.82	0.0142	0.0088
Venus	118547-07-04 15:05 G	45019646.94	45019647.13	45019647.34	0.0141	0.0065
Venus	118548-02-16 02:36 G	45019873.41	45019873.61	45019873.83	0.0141	0.0043
Venus	118548-09-29 14:07 G	45020099.87	45020100.09	45020100.31	0.0141	0.0020
Venus	118549-05-14 01:24 G	45020326.34	45020326.56	45020326.78	0.0141	0.0003
Venus	118549-12-26 12:27 G	45020552.80	45020553.02	45020553.24	0.0141	0.0025
Venus	118550-08-09 23:00 G	45020779.26	45020779.46	45020779.68	0.0141	0.0047
Venus	118551-03-24 09:34 G	45021005.72	45021005.90	45021006.10	0.0140	0.0068
Venus	118551-11-05 19:53 G	45021232.17	45021232.33	45021232.51	0.0140	0.0090
Venus	118552-06-19 06:12 G	45021458.63	45021458.76	45021458.90	0.0140	0.0110
Mercury	118552-10-02 11:00 G	45021563.88	45021563.96	45021564.04	0.0140	0.0121
Mercury	118552-12-29 16:46 G	45021652.09	45021652.20	45021652.33	0.0140	0.0098
Venus	118553-01-31 16:03 G	45021685.11	45021685.17	45021685.26	0.0140	0.0131
Mercury	118553-03-27 23:00 G	45021740.32	45021740.46	45021740.61	0.0140	0.0074
Mercury	118553-06-24 05:15 G	45021828.56	45021828.72	45021828.89	0.0140	0.0049
Mercury	118553-09-20 11:29 G	45021916.81	45021916.98	45021917.15	0.0140	0.0025
Mercury	118553-12-17 17:43 G	45022005.07	45022005.24	45022005.42	0.0140	0.0003
Mercury	118554-03-15 23:58 G	45022093.33	45022093.50	45022093.68	0.0140	0.0025
Mercury	118554-06-12 06:12 G	45022181.61	45022181.76	45022181.93	0.0139	0.0050
Mercury	118554-09-08 12:41 G	45022269.89	45022270.03	45022270.18	0.0139	0.0074
Mercury	118554-12-05 18:55 G	45022358.18	45022358.29	45022358.43	0.0139	0.0100
Mercury	118555-03-04 01:24 G	45022446.50	45022446.56	45022446.65	0.0139	0.0125
Moon	118557-04-01 16:17 G	45023205.94	45023206.18	45023206.43	0.0139	0.0041
Earth	118557-04-01 19:39 G	45023206.09	45023206.32	45023206.56	0.0139	0.0046 *
Earth	118558-04-06 09:48 G	45023575.69	45023575.91	45023576.16	0.0138	0.0054
Moon	118558-04-06 13:24 G	45023575.84	45023576.06	45023576.30	0.0138	0.0051 *

Venus	118588-05-23 21:05 G	45034581.33	45034581.38	45034581.45	0.0136	0.0130
Venus	118589-01-05 02:22 G	45034807.49	45034807.60	45034807.73	0.0136	0.0112
Venus	118589-08-19 07:53 G	45035033.68	45035033.83	45035033.99	0.0136	0.0093
Venus	118590-04-02 13:24 G	45035259.89	45035260.06	45035260.24	0.0136	0.0075
Venus	118590-11-14 18:55 G	45035486.11	45035486.29	45035486.50	0.0137	0.0056
Venus	118591-06-29 01:10 G	45035712.34	45035712.55	45035712.75	0.0137	0.0036
Venus	118592-02-10 06:55 G	45035938.58	45035938.79	45035939.00	0.0137	0.0017
Venus	118592-09-23 12:55 G	45036164.83	45036165.04	45036165.26	0.0137	0.0004
Venus	118593-05-07 19:10 G	45036391.09	45036391.30	45036391.52	0.0137	0.0023
Venus	118593-12-20 01:39 G	45036617.37	45036617.57	45036617.77	0.0137	0.0043
Venus	118594-08-03 08:07 G	45036843.65	45036843.84	45036844.03	0.0138	0.0063
Venus	118595-03-17 14:36 G	45037069.95	45037070.11	45037070.29	0.0138	0.0083
Venus	118595-10-29 21:48 G	45037296.27	45037296.41	45037296.55	0.0138	0.0102
Mercury	118596-01-05 16:46 G	45037364.14	45037364.20	45037364.26	0.0138	0.0124
Mercury	118596-04-02 20:51 G	45037452.27	45037452.37	45037452.46	0.0138	0.0104
Venus	118596-06-12 04:46 G	45037522.61	45037522.70	45037522.81	0.0138	0.0123
Mercury	118596-06-30 00:55 G	45037540.42	45037540.54	45037540.65	0.0138	0.0084
Mercury	118596-09-26 04:46 G	45037628.58	45037628.70	45037628.83	0.0138	0.0065
Mercury	118596-12-23 08:51 G	45037716.74	45037716.87	45037717.01	0.0138	0.0045
Mercury	118597-03-21 12:55 G	45037804.90	45037805.04	45037805.18	0.0138	0.0025
Mercury	118597-06-17 17:00 G	45037893.07	45037893.21	45037893.35	0.0138	0.0005
Mercury	118597-09-13 20:51 G	45037981.23	45037981.37	45037981.52	0.0138	0.0016
Mercury	118597-12-11 00:55 G	45038069.40	45038069.54	45038069.68	0.0139	0.0035
Mercury	118598-03-09 04:46 G	45038157.57	45038157.70	45038157.83	0.0139	0.0054
Mercury	118598-06-05 08:36 G	45038245.75	45038245.86	45038245.99	0.0139	0.0074
Mercury	118598-09-01 12:41 G	45038333.93	45038334.03	45038334.13	0.0139	0.0093
Mercury	118598-11-28 16:17 G	45038422.11	45038422.18	45038422.27	0.0139	0.0113
Mercury	118599-02-24 20:07 G	45038510.31	45038510.34	45038510.39	0.0139	0.0132
Earth	118600-09-27 22:17 G	45039090.20	45039090.43	45039090.67	0.0139	0.0051
Moon	118600-09-28 01:39 G	45039090.34	45039090.57	45039090.82	0.0139	0.0044 *

Moon	118601-10-02 11:58 G	45039459.76	45039460.00	45039460.25	0.0140	0.0043
Earth	118601-10-02 15:19 G	45039459.92	45039460.14	45039460.39	0.0140	0.0051 *
Mars	118612-08-08 23:15 G	45043423.35	45043423.47	45043423.64	0.0142	0.0126
Venus	118629-04-24 09:34 G	45049525.89	45049525.90	45049525.94	0.0142	0.0141
Venus	118629-12-06 22:03 G	45049752.31	45049752.42	45049752.55	0.0142	0.0119
Venus	118630-07-21 09:48 G	45049978.77	45049978.91	45049979.09	0.0142	0.0097
Venus	118631-03-04 22:03 G	45050205.23	45050205.42	45050205.61	0.0142	0.0074
Venus	118631-10-17 09:34 G	45050431.70	45050431.90	45050432.12	0.0141	0.0051
Venus	118632-05-30 21:19 G	45050658.17	45050658.39	45050658.61	0.0141	0.0029
Venus	118633-01-12 08:36 G	45050884.64	45050884.86	45050885.08	0.0141	0.0006
Venus	118633-08-26 19:39 G	45051111.10	45051111.32	45051111.54	0.0141	0.0016
Venus	118634-04-10 06:41 G	45051337.57	45051337.78	45051337.99	0.0141	0.0038
Venus	118634-11-22 17:00 G	45051564.03	45051564.21	45051564.43	0.0141	0.0061
Venus	118635-07-07 03:48 G	45051790.49	45051790.66	45051790.85	0.0140	0.0082
Venus	118636-02-18 13:53 G	45052016.95	45052017.08	45052017.25	0.0140	0.0104
Mercury	118636-07-27 12:12 G	45052176.99	45052177.01	45052177.04	0.0140	0.0138
Venus	118636-10-01 23:58 G	45052243.42	45052243.50	45052243.62	0.0140	0.0124
Mercury	118636-10-23 18:12 G	45052265.17	45052265.26	45052265.37	0.0140	0.0114
Mercury	118637-01-20 00:27 G	45052353.39	45052353.52	45052353.66	0.0140	0.0090
Mercury	118637-04-18 06:41 G	45052441.63	45052441.78	45052441.93	0.0140	0.0066
Mercury	118637-07-15 12:41 G	45052529.87	45052530.03	45052530.20	0.0140	0.0042
Mercury	118637-10-11 19:10 G	45052618.13	45052618.30	45052618.47	0.0140	0.0017
Mercury	118638-01-08 01:24 G	45052706.39	45052706.56	45052706.73	0.0140	0.0007
Mercury	118638-04-06 07:39 G	45052794.65	45052794.82	45052794.99	0.0140	0.0032
Mercury	118638-07-03 13:53 G	45052882.93	45052883.08	45052883.25	0.0140	0.0057
Mercury	118638-09-29 20:07 G	45052971.21	45052971.34	45052971.49	0.0139	0.0083
Mercury	118638-12-27 02:36 G	45053059.51	45053059.61	45053059.73	0.0139	0.0107
Mercury	118639-03-25 09:05 G	45053147.84	45053147.88	45053147.94	0.0139	0.0132
Earth	118640-03-29 16:17 G	45053518.18	45053518.18	45053518.20	0.0139	0.0139
Earth	118641-04-03 07:24 G	45053887.58	45053887.81	45053888.06	0.0139	0.0040

Moon	118641-04-03 08:51 G	45053887.61	45053887.87	45053888.13	0.0139	0.0033	*
Moon	118642-04-07 20:36 G	45054257.15	45054257.36	45054257.60	0.0138	0.0052	
Earth	118642-04-07 22:17 G	45054257.20	45054257.43	45054257.66	0.0138	0.0060	*
Mars	118653-02-27 18:55 G	45058235.97	45058236.29	45058236.60	0.0136	0.0002	
Venus	118672-09-05 14:07 G	45065366.00	45065366.09	45065366.21	0.0136	0.0119	
Venus	118673-04-19 19:24 G	45065592.18	45065592.31	45065592.47	0.0136	0.0101	
Venus	118673-12-02 00:55 G	45065818.38	45065818.54	45065818.73	0.0136	0.0082	
Venus	118674-07-16 06:41 G	45066044.60	45066044.78	45066044.98	0.0137	0.0062	
Venus	118675-02-27 12:27 G	45066270.82	45066271.02	45066271.23	0.0137	0.0043	
Venus	118675-10-11 18:12 G	45066497.06	45066497.26	45066497.48	0.0137	0.0024	
Venus	118676-05-25 00:27 G	45066723.31	45066723.52	45066723.74	0.0137	0.0004	
Venus	118677-01-06 06:27 G	45066949.56	45066949.77	45066949.99	0.0137	0.0017	
Venus	118677-08-20 12:41 G	45067175.83	45067176.03	45067176.24	0.0137	0.0036	
Venus	118678-04-03 19:10 G	45067402.11	45067402.30	45067402.50	0.0137	0.0056	
Venus	118678-11-16 01:53 G	45067628.40	45067628.58	45067628.76	0.0138	0.0076	
Venus	118679-06-30 08:36 G	45067854.72	45067854.86	45067855.02	0.0138	0.0096	
Mercury	118679-10-30 20:07 G	45067977.34	45067977.34	45067977.36	0.0138	0.0137	
Mercury	118680-01-27 00:12 G	45068065.45	45068065.51	45068065.60	0.0138	0.0117	
Venus	118680-02-11 15:34 G	45068081.05	45068081.15	45068081.28	0.0138	0.0116	
Mercury	118680-04-24 04:17 G	45068153.59	45068153.68	45068153.80	0.0138	0.0097	
Mercury	118680-07-21 08:22 G	45068241.74	45068241.85	45068241.98	0.0138	0.0078	
Venus	118680-09-24 22:31 G	45068307.43	45068307.44	45068307.50	0.0138	0.0137	
Mercury	118680-10-17 12:27 G	45068329.90	45068330.02	45068330.16	0.0138	0.0058	
Mercury	118681-01-13 16:46 G	45068418.06	45068418.20	45068418.34	0.0138	0.0037	
Mercury	118681-04-11 20:51 G	45068506.22	45068506.37	45068506.51	0.0138	0.0017	
Mercury	118681-07-09 00:41 G	45068594.39	45068594.53	45068594.68	0.0138	0.0004	
Mercury	118681-10-05 04:46 G	45068682.56	45068682.70	45068682.84	0.0138	0.0023	
Mercury	118682-01-01 08:36 G	45068770.73	45068770.86	45068771.00	0.0139	0.0042	
Mercury	118682-03-30 12:41 G	45068858.90	45068859.03	45068859.15	0.0139	0.0062	
Mercury	118682-06-26 16:17 G	45068947.08	45068947.18	45068947.31	0.0139	0.0082	

Mercury	118682-09-22 20:22 G	45069035.26	45069035.35	45069035.45	0.0139	0.0101
Mercury	118682-12-20 00:12 G	45069123.45	45069123.51	45069123.58	0.0139	0.0120
Moon	118684-09-28 10:17 G	45069771.69	45069771.93	45069772.16	0.0139	0.0043
Earth	118684-09-28 11:29 G	45069771.74	45069771.98	45069772.22	0.0139	0.0044 *
Earth	118685-10-03 04:17 G	45070141.46	45070141.68	45070141.92	0.0140	0.0058
Moon	118685-10-03 05:43 G	45070141.51	45070141.74	45070142.00	0.0140	0.0054 *
Venus	118713-08-07 05:29 G	45080310.65	45080310.73	45080310.84	0.0142	0.0128
Venus	118714-03-21 17:43 G	45080537.11	45080537.24	45080537.40	0.0142	0.0105
Venus	118714-11-03 05:43 G	45080763.57	45080763.74	45080763.93	0.0142	0.0083
Venus	118715-06-17 17:43 G	45080990.04	45080990.24	45080990.45	0.0142	0.0060
Venus	118716-01-30 05:29 G	45081216.51	45081216.73	45081216.94	0.0141	0.0037
Venus	118716-09-12 16:46 G	45081442.98	45081443.20	45081443.42	0.0141	0.0014
Venus	118717-04-27 04:03 G	45081669.45	45081669.67	45081669.89	0.0141	0.0008
Venus	118717-12-09 15:05 G	45081895.92	45081896.13	45081896.35	0.0141	0.0031
Venus	118718-07-24 01:53 G	45082122.38	45082122.58	45082122.79	0.0141	0.0053
Venus	118719-03-07 12:27 G	45082348.84	45082349.02	45082349.21	0.0141	0.0075
Venus	118719-10-19 23:00 G	45082575.30	45082575.46	45082575.62	0.0140	0.0096
Venus	118720-06-02 09:05 G	45082801.77	45082801.88	45082802.01	0.0140	0.0117
Mercury	118720-08-17 20:07 G	45082878.29	45082878.34	45082878.41	0.0140	0.0129
Mercury	118720-11-14 02:22 G	45082966.49	45082966.60	45082966.71	0.0140	0.0105
Venus	118721-01-14 19:10 G	45083028.28	45083028.30	45083028.36	0.0140	0.0138
Mercury	118721-02-10 08:22 G	45083054.72	45083054.85	45083054.99	0.0140	0.0081
Mercury	118721-05-09 14:36 G	45083142.96	45083143.11	45083143.27	0.0140	0.0057
Mercury	118721-08-05 20:51 G	45083231.20	45083231.37	45083231.54	0.0140	0.0033
Mercury	118721-11-02 03:05 G	45083319.46	45083319.63	45083319.80	0.0140	0.0008
Mercury	118722-01-29 09:19 G	45083407.72	45083407.89	45083408.07	0.0140	0.0017
Mercury	118722-04-27 15:34 G	45083495.99	45083496.15	45083496.32	0.0140	0.0042
Mercury	118722-07-24 21:48 G	45083584.27	45083584.41	45083584.58	0.0139	0.0067
Mercury	118722-10-21 04:17 G	45083672.56	45083672.68	45083672.82	0.0139	0.0092
Mercury	118723-01-17 10:46 G	45083760.86	45083760.95	45083761.05	0.0139	0.0116

Moon	118724-03-31 02:07 G	45084199.48	45084199.59	45084199.70	0.0139	0.0125
Earth	118724-03-31 05:29 G	45084199.66	45084199.73	45084199.82	0.0139	0.0131 *
Earth	118725-04-04 20:51 G	45084569.13	45084569.37	45084569.62	0.0139	0.0032
Moon	118725-04-05 00:12 G	45084569.28	45084569.51	45084569.76	0.0139	0.0036 *
Moon	118726-04-09 08:22 G	45084938.63	45084938.85	45084939.08	0.0138	0.0066
Earth	118726-04-09 11:15 G	45084938.77	45084938.97	45084939.21	0.0138	0.0067 *
Venus	118756-05-07 02:07 G	45095924.52	45095924.59	45095924.68	0.0136	0.0125
Venus	118756-12-19 07:10 G	45096150.69	45096150.80	45096150.95	0.0136	0.0108
Venus	118757-08-02 12:41 G	45096376.88	45096377.03	45096377.21	0.0136	0.0088
Venus	118758-03-16 18:12 G	45096603.09	45096603.26	45096603.45	0.0136	0.0069
Venus	118758-10-28 23:58 G	45096829.31	45096829.50	45096829.70	0.0137	0.0050
Venus	118759-06-12 05:43 G	45097055.54	45097055.74	45097055.96	0.0137	0.0031
Venus	118760-01-24 11:43 G	45097281.78	45097281.99	45097282.21	0.0137	0.0011
Venus	118760-09-06 17:43 G	45097508.03	45097508.24	45097508.46	0.0137	0.0010
Venus	118761-04-20 23:58 G	45097734.29	45097734.50	45097734.71	0.0137	0.0029
Venus	118761-12-03 06:12 G	45097960.57	45097960.76	45097960.97	0.0137	0.0049
Venus	118762-07-17 12:41 G	45098186.86	45098187.03	45098187.23	0.0137	0.0070
Venus	118763-02-28 19:24 G	45098413.16	45098413.31	45098413.49	0.0138	0.0090
Venus	118763-10-13 02:36 G	45098639.48	45098639.61	45098639.74	0.0138	0.0109
Mercury	118763-11-21 04:17 G	45098678.63	45098678.68	45098678.72	0.0138	0.0129
Mercury	118764-02-17 08:07 G	45098766.76	45098766.84	45098766.93	0.0138	0.0109
Mercury	118764-05-15 12:12 G	45098854.91	45098855.01	45098855.13	0.0138	0.0089
Venus	118764-05-26 09:48 G	45098865.84	45098865.91	45098865.98	0.0138	0.0129
Mercury	118764-08-11 16:17 G	45098943.06	45098943.18	45098943.31	0.0138	0.0069
Mercury	118764-11-07 20:22 G	45099031.22	45099031.35	45099031.49	0.0138	0.0050
Mercury	118765-02-04 00:27 G	45099119.38	45099119.52	45099119.67	0.0138	0.0030
Mercury	118765-05-03 04:31 G	45099207.55	45099207.69	45099207.83	0.0138	0.0009
Mercury	118765-07-30 08:36 G	45099295.71	45099295.86	45099296.00	0.0138	0.0011
Mercury	118765-10-26 12:27 G	45099383.88	45099384.02	45099384.16	0.0138	0.0030
Mercury	118766-01-22 16:31 G	45099472.05	45099472.19	45099472.32	0.0138	0.0050

Mercury	118766-04-20 20:07 G	45099560.23	45099560.34	45099560.47	0.0139	0.0070
Mercury	118766-07-18 00:12 G	45099648.41	45099648.51	45099648.62	0.0139	0.0089
Mercury	118766-10-14 04:03 G	45099736.59	45099736.67	45099736.76	0.0139	0.0108
Mercury	118767-01-10 08:07 G	45099824.78	45099824.84	45099824.89	0.0139	0.0127
Earth	118767-09-26 07:24 G	45100083.78	45100083.81	45100083.88	0.0139	0.0136
Moon	118767-09-26 11:15 G	45100083.88	45100083.97	45100084.07	0.0139	0.0128 *
Moon	118768-09-29 20:36 G	45100453.12	45100453.36	45100453.61	0.0139	0.0044
Earth	118768-09-29 23:58 G	45100453.26	45100453.50	45100453.75	0.0139	0.0036 *
Earth	118769-10-04 16:46 G	45100822.98	45100823.20	45100823.43	0.0140	0.0065
Moon	118769-10-04 19:39 G	45100823.12	45100823.32	45100823.55	0.0140	0.0071 *
Mars	118779-12-28 00:55 G	45104559.24	45104559.54	45104559.85	0.0142	0.0006
Venus	118797-04-06 11:43 G	45110868.95	45110868.99	45110869.06	0.0142	0.0137
Venus	118797-11-19 00:27 G	45111095.39	45111095.52	45111095.65	0.0142	0.0114
Venus	118798-07-03 12:12 G	45111321.85	45111322.01	45111322.19	0.0142	0.0092
Venus	118799-02-15 00:12 G	45111548.32	45111548.51	45111548.71	0.0142	0.0069
Venus	118799-09-29 11:43 G	45111774.79	45111774.99	45111775.21	0.0142	0.0047
Venus	118800-05-12 23:29 G	45112001.26	45112001.48	45112001.70	0.0141	0.0023
Venus	118800-12-25 11:00 G	45112227.74	45112227.96	45112228.18	0.0141	0.0001
Venus	118801-08-08 22:03 G	45112454.21	45112454.42	45112454.64	0.0141	0.0022
Venus	118802-03-23 09:05 G	45112680.67	45112680.88	45112681.09	0.0141	0.0044
Venus	118802-11-04 19:39 G	45112907.14	45112907.32	45112907.53	0.0141	0.0067
Venus	118803-06-19 06:41 G	45113133.61	45113133.78	45113133.95	0.0140	0.0088
Venus	118804-01-31 17:00 G	45113360.08	45113360.21	45113360.35	0.0140	0.0109
Mercury	118804-09-07 03:34 G	45113579.58	45113579.65	45113579.74	0.0140	0.0122
Venus	118804-09-14 03:19 G	45113586.57	45113586.64	45113586.72	0.0140	0.0130
Mercury	118804-12-04 09:48 G	45113667.79	45113667.91	45113668.04	0.0140	0.0098
Mercury	118805-03-02 15:48 G	45113756.02	45113756.16	45113756.31	0.0140	0.0074
Mercury	118805-05-29 22:03 G	45113844.26	45113844.42	45113844.59	0.0140	0.0050
Mercury	118805-08-26 04:17 G	45113932.51	45113932.68	45113932.86	0.0140	0.0025
Mercury	118805-11-22 10:46 G	45114020.77	45114020.95	45114021.12	0.0140	0.0004

Mercury	118806-02-18 16:46 G	45114109.04	45114109.20	45114109.38	0.0140	0.0025
Mercury	118806-05-17 23:00 G	45114197.31	45114197.46	45114197.63	0.0140	0.0050
Mercury	118806-08-14 05:29 G	45114285.59	45114285.73	45114285.88	0.0140	0.0074
Mercury	118806-11-10 11:43 G	45114373.88	45114373.99	45114374.13	0.0139	0.0100
Mercury	118807-02-06 18:12 G	45114462.20	45114462.26	45114462.35	0.0139	0.0125
Earth	118808-03-31 17:15 G	45114881.12	45114881.22	45114881.34	0.0139	0.0125
Moon	118808-03-31 18:41 G	45114881.16	45114881.28	45114881.43	0.0139	0.0119 *
Moon	118809-04-05 07:24 G	45115250.58	45115250.81	45115251.06	0.0139	0.0033
Earth	118809-04-05 08:51 G	45115250.62	45115250.87	45115251.12	0.0139	0.0025 *
Earth	118810-04-09 23:15 G	45115620.27	45115620.47	45115620.70	0.0138	0.0073
Moon	118810-04-10 00:55 G	45115620.33	45115620.54	45115620.76	0.0138	0.0080 *
Mars	118820-07-17 23:43 G	45119372.30	45119372.49	45119372.72	0.0136	0.0101
Venus	118840-01-05 13:39 G	45126483.04	45126483.07	45126483.14	0.0136	0.0132
Venus	118840-08-18 19:10 G	45126709.19	45126709.30	45126709.42	0.0136	0.0113
Venus	118841-04-01 23:58 G	45126935.37	45126935.50	45126935.67	0.0136	0.0096
Venus	118841-11-14 05:29 G	45127161.57	45127161.73	45127161.92	0.0136	0.0076
Venus	118842-06-28 11:15 G	45127387.79	45127387.97	45127388.17	0.0136	0.0057
Venus	118843-02-09 17:00 G	45127614.01	45127614.21	45127614.42	0.0137	0.0037
Venus	118843-09-23 22:46 G	45127840.24	45127840.45	45127840.67	0.0137	0.0018
Venus	118844-05-07 05:00 G	45128066.49	45128066.71	45128066.92	0.0137	0.0003
Venus	118844-12-19 11:00 G	45128292.75	45128292.96	45128293.17	0.0137	0.0022
Venus	118845-08-02 17:15 G	45128519.02	45128519.22	45128519.43	0.0137	0.0043
Venus	118846-03-16 23:43 G	45128745.30	45128745.49	45128745.68	0.0137	0.0063
Venus	118846-10-29 06:12 G	45128971.60	45128971.76	45128971.94	0.0138	0.0083
Venus	118847-06-12 13:10 G	45129197.92	45129198.05	45129198.20	0.0138	0.0103
Mercury	118847-12-11 11:43 G	45129379.93	45129379.99	45129380.06	0.0138	0.0122
Venus	118848-01-24 20:07 G	45129424.26	45129424.34	45129424.45	0.0138	0.0123
Mercury	118848-03-08 15:48 G	45129468.07	45129468.16	45129468.27	0.0138	0.0102
Mercury	118848-06-04 19:53 G	45129556.22	45129556.33	45129556.46	0.0138	0.0082
Mercury	118848-08-31 23:58 G	45129644.38	45129644.50	45129644.64	0.0138	0.0062

Mercury	118848-11-28 04:03 G	45129732.54	45129732.67	45129732.82	0.0138	0.0042
Mercury	118849-02-24 08:22 G	45129820.70	45129820.85	45129820.99	0.0138	0.0022
Mercury	118849-05-23 12:12 G	45129908.87	45129909.01	45129909.16	0.0138	0.0004
Mercury	118849-08-19 16:17 G	45129997.04	45129997.18	45129997.32	0.0138	0.0018
Mercury	118849-11-15 20:07 G	45130085.21	45130085.34	45130085.48	0.0138	0.0037
Mercury	118850-02-12 00:12 G	45130173.38	45130173.51	45130173.64	0.0138	0.0057
Mercury	118850-05-11 03:48 G	45130261.55	45130261.66	45130261.79	0.0139	0.0077
Mercury	118850-08-07 07:53 G	45130349.73	45130349.83	45130349.93	0.0139	0.0096
Mercury	118850-11-03 11:43 G	45130437.92	45130437.99	45130438.07	0.0139	0.0115
Mercury	118851-01-30 15:48 G	45130526.12	45130526.16	45130526.19	0.0139	0.0134
Moon	118851-09-26 18:12 G	45130765.20	45130765.26	45130765.37	0.0139	0.0130
Earth	118851-09-26 20:07 G	45130765.26	45130765.34	45130765.44	0.0139	0.0129 *
Earth	118852-09-30 12:27 G	45131134.77	45131135.02	45131135.27	0.0139	0.0030
Moon	118852-09-30 13:39 G	45131134.83	45131135.07	45131135.34	0.0139	0.0033 *
Moon	118853-10-05 03:34 G	45131504.44	45131504.65	45131504.85	0.0140	0.0077
Earth	118853-10-05 05:00 G	45131504.50	45131504.71	45131504.94	0.0140	0.0072 *
Venus	118881-07-19 07:24 G	45141653.71	45141653.81	45141653.93	0.0142	0.0123
Venus	118882-03-02 19:39 G	45141880.17	45141880.32	45141880.48	0.0142	0.0100
Venus	118882-10-15 07:24 G	45142106.63	45142106.81	45142107.01	0.0142	0.0078
Venus	118883-05-29 19:24 G	45142333.11	45142333.31	45142333.52	0.0142	0.0055
Venus	118884-01-11 07:10 G	45142559.58	45142559.80	45142560.02	0.0141	0.0032
Venus	118884-08-24 18:41 G	45142786.06	45142786.28	45142786.50	0.0141	0.0009
Venus	118885-04-08 05:43 G	45143012.53	45143012.74	45143012.97	0.0141	0.0015
Venus	118885-11-20 17:00 G	45143239.00	45143239.21	45143239.43	0.0141	0.0036
Venus	118886-07-05 03:48 G	45143465.47	45143465.66	45143465.87	0.0141	0.0059
Venus	118887-02-16 14:51 G	45143691.94	45143692.12	45143692.30	0.0141	0.0081
Venus	118887-10-01 01:10 G	45143918.41	45143918.55	45143918.71	0.0140	0.0103
Venus	118888-05-14 11:43 G	45144144.90	45144144.99	45144145.10	0.0140	0.0124
Mercury	118888-07-01 05:29 G	45144192.70	45144192.73	45144192.76	0.0140	0.0137
Mercury	118888-09-27 11:29 G	45144280.89	45144280.98	45144281.08	0.0140	0.0114

Mercury	118888-12-24 17:43 G	45144369.11	45144369.24	45144369.37	0.0140	0.0089
Mercury	118889-03-22 23:43 G	45144457.34	45144457.49	45144457.65	0.0140	0.0065
Mercury	118889-06-19 05:58 G	45144545.59	45144545.75	45144545.92	0.0140	0.0041
Mercury	118889-09-15 12:12 G	45144633.84	45144634.01	45144634.18	0.0140	0.0016
Mercury	118889-12-12 18:27 G	45144722.10	45144722.27	45144722.44	0.0140	0.0008
Mercury	118890-03-11 00:41 G	45144810.36	45144810.53	45144810.70	0.0140	0.0033
Mercury	118890-06-07 07:10 G	45144898.64	45144898.80	45144898.96	0.0140	0.0058
Mercury	118890-09-03 13:24 G	45144986.92	45144987.06	45144987.20	0.0139	0.0083
Mercury	118890-11-30 19:53 G	45145075.22	45145075.33	45145075.44	0.0139	0.0108
Mercury	118891-02-27 02:07 G	45145163.55	45145163.59	45145163.65	0.0139	0.0133
Earth	118892-04-01 05:29 G	45145562.62	45145562.73	45145562.89	0.0139	0.0119
Moon	118892-04-01 08:51 G	45145562.78	45145562.87	45145563.01	0.0139	0.0123 *
Moon	118893-04-05 18:27 G	45145932.01	45145932.27	45145932.53	0.0139	0.0019
Earth	118893-04-05 21:34 G	45145932.15	45145932.40	45145932.65	0.0139	0.0019 *
Earth	118894-04-10 11:58 G	45146301.80	45146302.00	45146302.22	0.0138	0.0080
Moon	118894-04-10 15:19 G	45146301.95	45146302.14	45146302.35	0.0138	0.0082 *
Mars	118905-03-14 06:12 G	45150291.51	45150291.76	45150292.05	0.0136	0.0066
Venus	118924-04-19 06:41 G	45157267.69	45157267.78	45157267.89	0.0136	0.0120
Venus	118924-12-01 11:58 G	45157493.86	45157494.00	45157494.15	0.0136	0.0101
Venus	118925-07-15 17:15 G	45157720.06	45157720.22	45157720.40	0.0136	0.0083
Venus	118926-02-26 22:46 G	45157946.27	45157946.45	45157946.64	0.0136	0.0063
Venus	118926-10-11 04:31 G	45158172.48	45158172.69	45158172.89	0.0136	0.0044
Venus	118927-05-25 10:17 G	45158398.72	45158398.93	45158399.14	0.0137	0.0024
Venus	118928-01-06 16:17 G	45158624.96	45158625.18	45158625.39	0.0137	0.0005
Venus	118928-08-19 22:03 G	45158851.21	45158851.42	45158851.64	0.0137	0.0016
Venus	118929-04-03 04:17 G	45159077.48	45159077.68	45159077.89	0.0137	0.0036
Venus	118929-11-15 10:31 G	45159303.75	45159303.94	45159304.15	0.0137	0.0056
Venus	118930-06-29 17:15 G	45159530.05	45159530.22	45159530.41	0.0137	0.0076
Venus	118931-02-10 23:58 G	45159756.36	45159756.50	45159756.66	0.0138	0.0096
Venus	118931-09-25 06:41 G	45159982.68	45159982.78	45159982.91	0.0138	0.0117

Mercury	118931-10-05 15:05 G	45159993.12	45159993.13	45159993.17	0.0138	0.0135
Mercury	118932-01-01 19:24 G	45160081.24	45160081.31	45160081.40	0.0138	0.0115
Mercury	118932-03-29 23:43 G	45160169.39	45160169.49	45160169.60	0.0138	0.0094
Venus	118932-05-08 13:39 G	45160209.06	45160209.07	45160209.11	0.0138	0.0137
Mercury	118932-06-26 03:48 G	45160257.54	45160257.66	45160257.78	0.0138	0.0074
Mercury	118932-09-22 07:53 G	45160345.70	45160345.83	45160345.96	0.0138	0.0054
Mercury	118932-12-19 11:58 G	45160433.86	45160434.00	45160434.14	0.0138	0.0034
Mercury	118933-03-17 16:03 G	45160522.02	45160522.17	45160522.31	0.0138	0.0015
Mercury	118933-06-13 19:53 G	45160610.19	45160610.33	45160610.48	0.0138	0.0006
Mercury	118933-09-09 23:58 G	45160698.36	45160698.50	45160698.64	0.0138	0.0025
Mercury	118933-12-07 03:48 G	45160786.53	45160786.66	45160786.80	0.0138	0.0044
Mercury	118934-03-05 07:53 G	45160874.70	45160874.83	45160874.95	0.0138	0.0064
Mercury	118934-06-01 11:29 G	45160962.88	45160962.98	45160963.10	0.0139	0.0084
Mercury	118934-08-28 15:34 G	45161051.06	45161051.15	45161051.25	0.0139	0.0103
Mercury	118934-11-24 19:24 G	45161139.25	45161139.31	45161139.38	0.0139	0.0122
Moon	118935-09-28 05:00 G	45161446.64	45161446.71	45161446.82	0.0139	0.0130
Earth	118935-09-28 08:07 G	45161446.75	45161446.84	45161446.98	0.0139	0.0123 *
Earth	118936-10-02 00:27 G	45161816.27	45161816.52	45161816.78	0.0139	0.0023
Moon	118936-10-02 03:48 G	45161816.41	45161816.66	45161816.90	0.0139	0.0017 *
Moon	118937-10-06 13:39 G	45162185.86	45162186.07	45162186.30	0.0140	0.0073
Earth	118937-10-06 17:00 G	45162186.01	45162186.21	45162186.43	0.0140	0.0078 *
Mars	118947-05-17 02:36 G	45165695.44	45165695.61	45165695.80	0.0142	0.0114
Venus	118965-03-19 13:10 G	45172211.97	45172212.05	45172212.13	0.0142	0.0133
Venus	118965-11-01 01:10 G	45172438.42	45172438.55	45172438.70	0.0142	0.0110
Venus	118966-06-15 13:24 G	45172664.89	45172665.06	45172665.24	0.0142	0.0087
Venus	118967-01-28 01:24 G	45172891.36	45172891.56	45172891.76	0.0142	0.0064
Venus	118967-09-11 13:10 G	45173117.84	45173118.05	45173118.26	0.0142	0.0041
Venus	118968-04-25 00:41 G	45173344.31	45173344.53	45173344.75	0.0141	0.0018
Venus	118968-12-07 12:27 G	45173570.79	45173571.02	45173571.24	0.0141	0.0006
Venus	118969-07-21 23:29 G	45173797.27	45173797.48	45173797.70	0.0141	0.0028

Venus	118970-03-05 10:46 G	45174023.74	45174023.95	45174024.15	0.0141	0.0050
Venus	118970-10-17 21:19 G	45174250.21	45174250.39	45174250.59	0.0141	0.0073
Venus	118971-06-01 08:07 G	45174476.69	45174476.84	45174477.01	0.0140	0.0095
Venus	118972-01-13 18:41 G	45174703.18	45174703.28	45174703.42	0.0140	0.0117
Mercury	118972-07-22 12:27 G	45174893.98	45174894.02	45174894.10	0.0140	0.0131
Venus	118972-08-27 05:15 G	45174929.69	45174929.72	45174929.77	0.0140	0.0137
Mercury	118972-10-18 18:41 G	45174982.18	45174982.28	45174982.40	0.0140	0.0107
Mercury	118973-01-15 00:41 G	45175070.41	45175070.53	45175070.68	0.0140	0.0083
Mercury	118973-04-13 06:55 G	45175158.64	45175158.79	45175158.95	0.0140	0.0059
Mercury	118973-07-10 13:24 G	45175246.89	45175247.06	45175247.22	0.0140	0.0034
Mercury	118973-10-06 19:24 G	45175335.14	45175335.31	45175335.49	0.0140	0.0010
Mercury	118974-01-03 01:39 G	45175423.40	45175423.57	45175423.75	0.0140	0.0016
Mercury	118974-04-01 08:07 G	45175511.67	45175511.84	45175512.00	0.0140	0.0040
Mercury	118974-06-28 14:22 G	45175599.95	45175600.10	45175600.26	0.0140	0.0065
Mercury	118974-09-24 20:36 G	45175688.23	45175688.36	45175688.50	0.0140	0.0090
Mercury	118974-12-22 03:05 G	45175776.54	45175776.63	45175776.73	0.0139	0.0115
Moon	118976-04-02 15:05 G	45176244.03	45176244.13	45176244.27	0.0139	0.0121
Earth	118976-04-02 16:17 G	45176244.06	45176244.18	45176244.34	0.0139	0.0114 *
Earth	118977-04-07 08:07 G	45176613.59	45176613.84	45176614.09	0.0139	0.0014
Moon	118977-04-07 10:03 G	45176613.65	45176613.92	45176614.18	0.0139	0.0008 *
Moon	118978-04-11 20:51 G	45176983.17	45176983.37	45176983.58	0.0139	0.0078
Earth	118978-04-11 22:31 G	45176983.25	45176983.44	45176983.66	0.0139	0.0084 *

120TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 120th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	119007-12-19 17:58	G	45187826.19	45187826.25	45187826.34	0.0136	0.0127	
Venus	119008-08-01 23:15	G	45188052.35	45188052.47	45188052.61	0.0136	0.0108	
Venus	119009-03-16 04:31	G	45188278.54	45188278.69	45188278.86	0.0136	0.0089	
Venus	119009-10-28 09:48	G	45188504.74	45188504.91	45188505.11	0.0136	0.0070	
Venus	119010-06-11 15:48	G	45188730.96	45188731.16	45188731.36	0.0136	0.0051	
Venus	119011-01-23 21:34	G	45188957.19	45188957.40	45188957.60	0.0137	0.0031	
Venus	119011-09-07 03:05	G	45189183.42	45189183.63	45189183.85	0.0137	0.0012	
Venus	119012-04-20 09:05	G	45189409.67	45189409.88	45189410.10	0.0137	0.0009	
Venus	119012-12-02 15:19	G	45189635.93	45189636.14	45189636.35	0.0137	0.0029	
Venus	119013-07-16 21:34	G	45189862.21	45189862.40	45189862.61	0.0137	0.0049	
Venus	119014-02-28 04:03	G	45190088.49	45190088.67	45190088.86	0.0137	0.0070	
Venus	119014-10-12 10:46	G	45190314.79	45190314.95	45190315.11	0.0137	0.0090	
Venus	119015-05-26 17:15	G	45190541.11	45190541.22	45190541.36	0.0138	0.0110	
Mercury	119015-10-26 22:46	G	45190694.41	45190694.45	45190694.52	0.0138	0.0128	
Venus	119016-01-08 00:27	G	45190767.46	45190767.52	45190767.59	0.0138	0.0130	
Mercury	119016-01-23 03:19	G	45190782.55	45190782.64	45190782.73	0.0138	0.0107	
Mercury	119016-04-20 07:24	G	45190870.70	45190870.81	45190870.92	0.0138	0.0087	
Mercury	119016-07-17 11:29	G	45190958.85	45190958.98	45190959.10	0.0138	0.0067	
Mercury	119016-10-13 15:34	G	45191047.01	45191047.15	45191047.28	0.0138	0.0047	
Mercury	119017-01-09 19:24	G	45191135.17	45191135.31	45191135.46	0.0138	0.0028	
Mercury	119017-04-07 23:29	G	45191223.34	45191223.48	45191223.63	0.0138	0.0008	
Mercury	119017-07-05 03:34	G	45191311.51	45191311.65	45191311.79	0.0138	0.0012	
Mercury	119017-10-01 07:24	G	45191399.68	45191399.81	45191399.96	0.0138	0.0032	
Mercury	119017-12-28 11:29	G	45191487.85	45191487.98	45191488.11	0.0138	0.0051	
Mercury	119018-03-26 15:19	G	45191576.02	45191576.14	45191576.27	0.0138	0.0071	
Mercury	119018-06-22 19:10	G	45191664.20	45191664.30	45191664.41	0.0139	0.0090	

Mercury	119018-09-18 23:00 G	45191752.38	45191752.46	45191752.55	0.0139	0.0110
Mercury	119018-12-16 02:51 G	45191840.58	45191840.62	45191840.68	0.0139	0.0129
Earth	119019-09-29 20:07 G	45192128.22	45192128.34	45192128.49	0.0139	0.0117
Moon	119019-09-29 22:03 G	45192128.29	45192128.42	45192128.56	0.0139	0.0118 *
Moon	119020-10-03 10:03 G	45192497.68	45192497.92	45192498.17	0.0139	0.0012
Earth	119020-10-03 12:27 G	45192497.77	45192498.02	45192498.27	0.0139	0.0018 *
Earth	119021-10-08 04:31 G	45192867.50	45192867.69	45192867.91	0.0140	0.0083
Moon	119021-10-08 06:55 G	45192867.58	45192867.79	45192868.02	0.0140	0.0076 *
Mars	119032-01-11 09:48 G	45196614.64	45196614.91	45196615.18	0.0142	0.0065
Venus	119048-11-17 19:39 G	45202770.31	45202770.32	45202770.35	0.0142	0.0142
Venus	119049-07-02 07:39 G	45202996.72	45202996.82	45202996.96	0.0142	0.0120
Venus	119050-02-13 19:53 G	45203223.18	45203223.33	45203223.51	0.0142	0.0096
Venus	119050-09-28 07:53 G	45203449.65	45203449.83	45203450.03	0.0142	0.0073
Venus	119051-05-12 19:53 G	45203676.13	45203676.33	45203676.55	0.0142	0.0050
Venus	119051-12-25 07:53 G	45203902.61	45203902.83	45203903.05	0.0141	0.0027
Venus	119052-08-07 19:24 G	45204129.09	45204129.31	45204129.54	0.0141	0.0004
Venus	119053-03-22 06:55 G	45204355.57	45204355.79	45204356.01	0.0141	0.0019
Venus	119053-11-03 17:58 G	45204582.05	45204582.25	45204582.47	0.0141	0.0042
Venus	119054-06-18 05:00 G	45204808.52	45204808.71	45204808.91	0.0141	0.0065
Venus	119055-01-30 16:03 G	45205035.00	45205035.17	45205035.35	0.0141	0.0087
Venus	119055-09-14 02:51 G	45205261.48	45205261.62	45205261.76	0.0140	0.0109
Venus	119056-04-27 12:55 G	45205487.98	45205488.04	45205488.14	0.0140	0.0131
Mercury	119056-08-12 20:07 G	45205595.27	45205595.34	45205595.43	0.0140	0.0123
Mercury	119056-11-09 02:22 G	45205683.49	45205683.60	45205683.72	0.0140	0.0099
Mercury	119057-02-05 08:22 G	45205771.72	45205771.85	45205772.00	0.0140	0.0075
Mercury	119057-05-04 14:36 G	45205859.96	45205860.11	45205860.27	0.0140	0.0051
Mercury	119057-07-31 20:51 G	45205948.20	45205948.37	45205948.54	0.0140	0.0026
Mercury	119057-10-28 03:05 G	45206036.46	45206036.63	45206036.80	0.0140	0.0002
Mercury	119058-01-24 09:19 G	45206124.72	45206124.89	45206125.06	0.0140	0.0023
Mercury	119058-04-22 15:34 G	45206212.99	45206213.15	45206213.32	0.0140	0.0048

Mercury	119058-07-19 21:48 G	45206301.27	45206301.41	45206301.57	0.0140	0.0073
Mercury	119058-10-16 04:17 G	45206389.56	45206389.68	45206389.81	0.0140	0.0098
Mercury	119059-01-12 10:31 G	45206477.87	45206477.94	45206478.03	0.0139	0.0123
Moon	119060-04-04 01:24 G	45206925.40	45206925.56	45206925.73	0.0139	0.0109
Earth	119060-04-04 04:17 G	45206925.52	45206925.68	45206925.84	0.0139	0.0108 *
Earth	119061-04-08 19:39 G	45207295.07	45207295.32	45207295.58	0.0139	0.0009
Moon	119061-04-08 22:17 G	45207295.18	45207295.43	45207295.68	0.0139	0.0006 *
Moon	119062-04-13 08:07 G	45207664.64	45207664.84	45207665.06	0.0139	0.0083
Earth	119062-04-13 10:03 G	45207664.75	45207664.92	45207665.13	0.0139	0.0090 *
Mars	119072-08-01 08:22 G	45211427.56	45211427.85	45211428.16	0.0136	0.0041
Venus	119091-08-19 05:29 G	45218384.72	45218384.73	45218384.79	0.0136	0.0134
Venus	119092-04-01 10:46 G	45218610.85	45218610.95	45218611.08	0.0136	0.0115
Venus	119092-11-13 16:03 G	45218837.03	45218837.17	45218837.33	0.0136	0.0096
Venus	119093-06-27 21:19 G	45219063.23	45219063.39	45219063.58	0.0136	0.0078
Venus	119094-02-09 03:05 G	45219289.44	45219289.63	45219289.83	0.0136	0.0058
Venus	119094-09-23 08:51 G	45219515.66	45219515.87	45219516.07	0.0136	0.0038
Venus	119095-05-07 14:36 G	45219741.90	45219742.11	45219742.32	0.0137	0.0018
Venus	119095-12-19 20:22 G	45219968.14	45219968.35	45219968.57	0.0137	0.0004
Venus	119096-08-02 02:22 G	45220194.40	45220194.60	45220194.82	0.0137	0.0023
Venus	119097-03-16 08:36 G	45220420.66	45220420.86	45220421.07	0.0137	0.0043
Venus	119097-10-28 14:51 G	45220646.94	45220647.12	45220647.32	0.0137	0.0063
Venus	119098-06-11 21:34 G	45220873.24	45220873.40	45220873.58	0.0137	0.0083
Venus	119099-01-24 04:03 G	45221099.54	45221099.67	45221099.82	0.0138	0.0104
Venus	119099-09-07 10:46 G	45221325.87	45221325.95	45221326.06	0.0138	0.0124
Mercury	119099-11-16 06:41 G	45221395.71	45221395.78	45221395.85	0.0138	0.0120
Mercury	119100-02-12 10:46 G	45221483.86	45221483.95	45221484.06	0.0138	0.0100
Mercury	119100-05-11 14:51 G	45221572.01	45221572.12	45221572.25	0.0138	0.0080
Mercury	119100-08-07 18:55 G	45221660.17	45221660.29	45221660.43	0.0138	0.0060
Mercury	119100-11-03 23:00 G	45221748.33	45221748.46	45221748.60	0.0138	0.0041
Mercury	119101-01-31 03:05 G	45221836.49	45221836.63	45221836.78	0.0138	0.0021

Mercury	119101-04-29 07:10 G	45221924.66	45221924.80	45221924.95	0.0138	0.0002
Mercury	119101-07-26 11:15 G	45222012.83	45222012.97	45222013.11	0.0138	0.0019
Mercury	119101-10-22 15:05 G	45222101.00	45222101.13	45222101.27	0.0138	0.0039
Mercury	119102-01-18 18:55 G	45222189.17	45222189.29	45222189.43	0.0138	0.0059
Mercury	119102-04-16 23:00 G	45222277.34	45222277.46	45222277.58	0.0138	0.0078
Mercury	119102-07-14 02:51 G	45222365.52	45222365.62	45222365.72	0.0139	0.0097
Mercury	119102-10-10 06:27 G	45222453.71	45222453.77	45222453.86	0.0139	0.0117
Mercury	119103-01-06 10:31 G	45222541.92	45222541.94	45222541.97	0.0139	0.0135
Earth	119103-10-01 08:36 G	45222809.71	45222809.86	45222810.02	0.0139	0.0110
Moon	119103-10-01 10:03 G	45222809.79	45222809.92	45222810.10	0.0139	0.0106 *
Moon	119104-10-04 23:00 G	45223179.20	45223179.46	45223179.72	0.0139	0.0013
Earth	119104-10-05 00:27 G	45223179.27	45223179.52	45223179.78	0.0139	0.0011 *
Earth	119105-10-09 16:46 G	45223549.02	45223549.20	45223549.41	0.0139	0.0089
Moon	119105-10-09 18:12 G	45223549.07	45223549.26	45223549.45	0.0139	0.0087 *
Venus	119133-03-02 13:10 G	45233554.98	45233555.05	45233555.17	0.0142	0.0130
Venus	119133-10-15 01:39 G	45233781.44	45233781.57	45233781.73	0.0142	0.0106
Venus	119134-05-29 13:39 G	45234007.91	45234008.07	45234008.27	0.0142	0.0083
Venus	119135-01-11 01:53 G	45234234.39	45234234.58	45234234.79	0.0142	0.0060
Venus	119135-08-25 13:53 G	45234460.87	45234461.08	45234461.30	0.0142	0.0036
Venus	119136-04-08 01:24 G	45234687.35	45234687.56	45234687.79	0.0141	0.0014
Venus	119136-11-20 13:10 G	45234913.83	45234914.05	45234914.27	0.0141	0.0010
Venus	119137-07-05 00:27 G	45235140.31	45235140.52	45235140.74	0.0141	0.0033
Venus	119138-02-16 11:43 G	45235366.79	45235366.99	45235367.19	0.0141	0.0056
Venus	119138-09-30 22:31 G	45235593.26	45235593.44	45235593.63	0.0141	0.0079
Venus	119139-05-15 09:19 G	45235819.75	45235819.89	45235820.05	0.0141	0.0101
Venus	119139-12-27 19:53 G	45236046.24	45236046.33	45236046.45	0.0140	0.0123
Mercury	119140-09-03 03:19 G	45236296.56	45236296.64	45236296.74	0.0140	0.0117
Mercury	119140-11-30 09:19 G	45236384.78	45236384.89	45236385.03	0.0140	0.0093
Mercury	119141-02-26 15:34 G	45236473.01	45236473.15	45236473.30	0.0140	0.0069
Mercury	119141-05-25 21:34 G	45236561.25	45236561.40	45236561.57	0.0140	0.0045

Mercury	119141-08-22 04:03 G	45236649.50	45236649.67	45236649.84	0.0140	0.0020
Mercury	119141-11-18 10:17 G	45236737.75	45236737.93	45236738.10	0.0140	0.0005
Mercury	119142-02-14 16:31 G	45236826.02	45236826.19	45236826.36	0.0140	0.0029
Mercury	119142-05-13 22:46 G	45236914.29	45236914.45	45236914.61	0.0140	0.0054
Mercury	119142-08-10 05:00 G	45237002.57	45237002.71	45237002.86	0.0140	0.0079
Mercury	119142-11-06 11:15 G	45237090.86	45237090.97	45237091.09	0.0140	0.0104
Mercury	119143-02-02 17:43 G	45237179.18	45237179.24	45237179.31	0.0140	0.0129
Earth	119144-04-05 13:53 G	45237606.92	45237607.08	45237607.25	0.0139	0.0105
Moon	119144-04-05 17:29 G	45237607.06	45237607.23	45237607.42	0.0139	0.0099 *
Moon	119145-04-10 02:07 G	45237976.34	45237976.59	45237976.84	0.0139	0.0009
Earth	119145-04-10 05:43 G	45237976.48	45237976.74	45237976.99	0.0139	0.0005 *
Earth	119146-04-14 19:53 G	45238346.16	45238346.33	45238346.54	0.0139	0.0094
Moon	119146-04-14 23:29 G	45238346.31	45238346.48	45238346.69	0.0139	0.0092 *
Mars	119157-03-28 09:19 G	45242346.78	45242346.89	45242347.06	0.0136	0.0122
Venus	119175-12-01 22:17 G	45249169.35	45249169.43	45249169.53	0.0136	0.0122
Venus	119176-07-15 03:34 G	45249395.52	45249395.65	45249395.80	0.0136	0.0103
Venus	119177-02-26 08:51 G	45249621.71	45249621.87	45249622.05	0.0136	0.0084
Venus	119177-10-10 14:22 G	45249847.92	45249848.10	45249848.29	0.0136	0.0065
Venus	119178-05-24 20:07 G	45250074.14	45250074.34	45250074.54	0.0136	0.0045
Venus	119179-01-06 01:53 G	45250300.37	45250300.58	45250300.79	0.0137	0.0025
Venus	119179-08-20 07:39 G	45250526.61	45250526.82	45250527.03	0.0137	0.0005
Venus	119180-04-02 13:24 G	45250752.85	45250753.06	45250753.28	0.0137	0.0016
Venus	119180-11-14 19:24 G	45250979.11	45250979.31	45250979.53	0.0137	0.0036
Venus	119181-06-29 01:53 G	45251205.39	45251205.58	45251205.78	0.0137	0.0056
Venus	119182-02-10 08:22 G	45251431.68	45251431.85	45251432.03	0.0137	0.0076
Venus	119182-09-24 14:51 G	45251657.97	45251658.12	45251658.27	0.0137	0.0097
Venus	119183-05-08 21:34 G	45251884.29	45251884.40	45251884.51	0.0138	0.0117
Mercury	119183-09-10 10:17 G	45252008.89	45252008.93	45252008.96	0.0138	0.0133
Mercury	119183-12-07 14:22 G	45252097.02	45252097.10	45252097.18	0.0138	0.0113
Venus	119183-12-21 04:17 G	45252110.67	45252110.68	45252110.70	0.0138	0.0137

Mercury	119184-03-04 18:27 G	45252185.17	45252185.27	45252185.38	0.0138	0.0093
Mercury	119184-05-31 22:31 G	45252273.32	45252273.44	45252273.57	0.0138	0.0073
Mercury	119184-08-28 02:36 G	45252361.48	45252361.61	45252361.75	0.0138	0.0053
Mercury	119184-11-24 06:41 G	45252449.64	45252449.78	45252449.92	0.0138	0.0033
Mercury	119185-02-20 10:46 G	45252537.81	45252537.95	45252538.09	0.0138	0.0014
Mercury	119185-05-19 14:51 G	45252625.97	45252626.12	45252626.26	0.0138	0.0007
Mercury	119185-08-15 18:41 G	45252714.14	45252714.28	45252714.42	0.0138	0.0026
Mercury	119185-11-11 22:31 G	45252802.31	45252802.44	45252802.58	0.0138	0.0046
Mercury	119186-02-08 02:36 G	45252890.49	45252890.61	45252890.74	0.0138	0.0065
Mercury	119186-05-07 06:27 G	45252978.66	45252978.77	45252978.89	0.0138	0.0084
Mercury	119186-08-03 10:17 G	45253066.85	45253066.93	45253067.03	0.0139	0.0104
Mercury	119186-10-30 14:07 G	45253155.04	45253155.09	45253155.16	0.0139	0.0123
Moon	119187-10-01 16:31 G	45253491.02	45253491.19	45253491.39	0.0139	0.0096
Earth	119187-10-01 20:22 G	45253491.20	45253491.35	45253491.53	0.0139	0.0104 *
Earth	119188-10-05 12:12 G	45253860.76	45253861.01	45253861.27	0.0139	0.0005
Moon	119188-10-05 15:48 G	45253860.91	45253861.16	45253861.41	0.0139	0.0012 *
Moon	119189-10-10 00:41 G	45254230.38	45254230.53	45254230.73	0.0139	0.0100
Earth	119189-10-10 04:31 G	45254230.52	45254230.69	45254230.89	0.0139	0.0096 *
Mars	119199-05-31 11:58 G	45257750.73	45257751.00	45257751.28	0.0142	0.0058
Venus	119216-10-30 20:07 G	45264113.31	45264113.34	45264113.40	0.0142	0.0138
Venus	119217-06-14 08:36 G	45264339.74	45264339.86	45264340.00	0.0142	0.0115
Venus	119218-01-26 20:51 G	45264566.21	45264566.37	45264566.55	0.0142	0.0092
Venus	119218-09-10 08:51 G	45264792.68	45264792.87	45264793.07	0.0142	0.0069
Venus	119219-04-24 20:36 G	45265019.16	45265019.36	45265019.59	0.0142	0.0046
Venus	119219-12-07 08:51 G	45265245.65	45265245.87	45265246.09	0.0141	0.0022
Venus	119220-07-20 20:36 G	45265472.13	45265472.36	45265472.58	0.0141	0.0003
Venus	119221-03-04 07:53 G	45265698.61	45265698.83	45265699.05	0.0141	0.0025
Venus	119221-10-16 18:55 G	45265925.09	45265925.29	45265925.51	0.0141	0.0048
Venus	119222-05-31 05:58 G	45266151.57	45266151.75	45266151.96	0.0141	0.0071
Venus	119223-01-12 17:15 G	45266378.06	45266378.22	45266378.39	0.0141	0.0093

Venus	119223-08-27 03:48 G	45266604.55	45266604.66	45266604.80	0.0141	0.0115
Venus	119224-04-09 14:07 G	45266831.06	45266831.09	45266831.16	0.0140	0.0137
Mercury	119224-06-27 04:46 G	45266909.66	45266909.70	45266909.76	0.0140	0.0134
Mercury	119224-09-23 11:00 G	45266997.86	45266997.96	45266998.07	0.0140	0.0109
Mercury	119224-12-20 17:00 G	45267086.08	45267086.21	45267086.35	0.0140	0.0086
Mercury	119225-03-18 23:15 G	45267174.32	45267174.47	45267174.62	0.0140	0.0061
Mercury	119225-06-15 05:15 G	45267262.56	45267262.72	45267262.89	0.0140	0.0037
Mercury	119225-09-11 11:29 G	45267350.81	45267350.98	45267351.15	0.0140	0.0013
Mercury	119225-12-08 17:43 G	45267439.07	45267439.24	45267439.41	0.0140	0.0012
Mercury	119226-03-06 23:58 G	45267527.33	45267527.50	45267527.67	0.0140	0.0037
Mercury	119226-06-03 06:12 G	45267615.61	45267615.76	45267615.92	0.0140	0.0062
Mercury	119226-08-30 12:27 G	45267703.89	45267704.02	45267704.16	0.0140	0.0087
Mercury	119226-11-26 18:41 G	45267792.19	45267792.28	45267792.40	0.0140	0.0112
Mercury	119227-02-23 01:10 G	45267880.52	45267880.55	45267880.59	0.0140	0.0136
Moon	119228-04-05 23:43 G	45268288.32	45268288.49	45268288.69	0.0139	0.0092
Earth	119228-04-06 00:55 G	45268288.39	45268288.54	45268288.74	0.0139	0.0100 *
Earth	119229-04-10 17:00 G	45268657.96	45268658.21	45268658.46	0.0139	0.0001
Moon	119229-04-10 18:12 G	45268658.00	45268658.26	45268658.53	0.0139	0.0007 *
Moon	119230-04-15 06:12 G	45269027.61	45269027.76	45269027.93	0.0139	0.0104
Earth	119230-04-15 07:39 G	45269027.65	45269027.82	45269028.01	0.0139	0.0099 *
Venus	119259-08-01 10:03 G	45279727.86	45279727.92	45279727.98	0.0136	0.0129
Venus	119260-03-14 15:05 G	45279954.01	45279954.13	45279954.25	0.0136	0.0110
Venus	119260-10-26 20:07 G	45280180.19	45280180.34	45280180.51	0.0136	0.0091
Venus	119261-06-10 01:39 G	45280406.40	45280406.57	45280406.76	0.0136	0.0072
Venus	119262-01-22 07:10 G	45280632.62	45280632.80	45280633.01	0.0136	0.0053
Venus	119262-09-05 12:55 G	45280858.84	45280859.04	45280859.25	0.0136	0.0032
Venus	119263-04-19 18:41 G	45281085.07	45281085.28	45281085.50	0.0137	0.0012
Venus	119263-12-02 00:41 G	45281311.32	45281311.53	45281311.74	0.0137	0.0008
Venus	119264-07-15 06:41 G	45281537.58	45281537.78	45281537.99	0.0137	0.0029
Venus	119265-02-26 12:41 G	45281763.84	45281764.03	45281764.24	0.0137	0.0049

Venus	119265-10-10 18:55 G	45281990.12	45281990.29	45281990.49	0.0137	0.0070
Venus	119266-05-25 01:39 G	45282216.41	45282216.57	45282216.73	0.0137	0.0090
Venus	119267-01-06 07:53 G	45282442.72	45282442.83	45282442.97	0.0138	0.0110
Venus	119267-08-20 14:36 G	45282669.06	45282669.11	45282669.19	0.0138	0.0131
Mercury	119267-09-30 17:29 G	45282710.19	45282710.23	45282710.30	0.0138	0.0127
Mercury	119267-12-27 22:03 G	45282798.33	45282798.42	45282798.51	0.0138	0.0106
Mercury	119268-03-25 02:07 G	45282886.48	45282886.59	45282886.70	0.0138	0.0086
Mercury	119268-06-21 06:12 G	45282974.63	45282974.76	45282974.89	0.0138	0.0066
Mercury	119268-09-17 10:17 G	45283062.79	45283062.93	45283063.07	0.0138	0.0046
Mercury	119268-12-14 14:22 G	45283150.96	45283151.10	45283151.24	0.0138	0.0027
Mercury	119269-03-12 18:27 G	45283239.12	45283239.27	45283239.41	0.0138	0.0008
Mercury	119269-06-08 22:17 G	45283327.29	45283327.43	45283327.58	0.0138	0.0013
Mercury	119269-09-05 02:22 G	45283415.46	45283415.60	45283415.74	0.0138	0.0032
Mercury	119269-12-02 06:12 G	45283503.63	45283503.76	45283503.90	0.0138	0.0052
Mercury	119270-02-28 10:03 G	45283591.81	45283591.92	45283592.05	0.0138	0.0072
Mercury	119270-05-27 14:07 G	45283679.98	45283680.09	45283680.20	0.0138	0.0091
Mercury	119270-08-23 17:58 G	45283768.17	45283768.25	45283768.34	0.0139	0.0110
Mercury	119270-11-19 21:34 G	45283856.37	45283856.40	45283856.46	0.0139	0.0130
Earth	119271-10-02 08:36 G	45284172.68	45284172.86	45284173.05	0.0139	0.0097
Moon	119271-10-02 11:00 G	45284172.78	45284172.96	45284173.17	0.0139	0.0091 *
Moon	119272-10-05 22:17 G	45284542.18	45284542.43	45284542.68	0.0139	0.0005
Earth	119272-10-06 00:27 G	45284542.26	45284542.52	45284542.77	0.0139	0.0002 *
Earth	119273-10-10 16:17 G	45284912.03	45284912.18	45284912.38	0.0139	0.0103
Moon	119273-10-10 19:39 G	45284912.16	45284912.32	45284912.48	0.0139	0.0109 *
Jupiter	119276-03-05 09:19 G	45285788.59	45285788.89	45285789.22	0.0140	0.0110
Mars	119284-01-24 17:43 G	45288670.10	45288670.24	45288670.42	0.0142	0.0120
Venus	119301-02-12 14:22 G	45294898.01	45294898.10	45294898.21	0.0142	0.0125
Venus	119301-09-27 02:36 G	45295124.47	45295124.61	45295124.77	0.0142	0.0102
Venus	119302-05-11 14:36 G	45295350.94	45295351.11	45295351.31	0.0142	0.0079
Venus	119302-12-24 03:05 G	45295577.43	45295577.63	45295577.84	0.0142	0.0055

Venus	119303-08-07 14:51 G	45295803.91	45295804.12	45295804.34	0.0142	0.0032
Venus	119304-03-21 02:36 G	45296030.39	45296030.61	45296030.84	0.0141	0.0008
Venus	119304-11-02 14:22 G	45296256.88	45296257.10	45296257.32	0.0141	0.0016
Venus	119305-06-17 01:39 G	45296483.36	45296483.57	45296483.78	0.0141	0.0039
Venus	119306-01-29 12:41 G	45296709.84	45296710.03	45296710.24	0.0141	0.0062
Venus	119306-09-12 23:58 G	45296936.32	45296936.50	45296936.68	0.0141	0.0084
Venus	119307-04-27 10:31 G	45297162.81	45297162.94	45297163.09	0.0141	0.0107
Venus	119307-12-09 21:05 G	45297389.31	45297389.38	45297389.48	0.0140	0.0129
Mercury	119308-07-18 11:58 G	45297610.94	45297611.00	45297611.08	0.0140	0.0128
Mercury	119308-10-14 18:12 G	45297699.15	45297699.26	45297699.38	0.0140	0.0103
Mercury	119309-01-11 00:12 G	45297787.37	45297787.51	45297787.65	0.0140	0.0079
Mercury	119309-04-09 06:12 G	45297875.61	45297875.76	45297875.92	0.0140	0.0055
Mercury	119309-07-06 12:27 G	45297963.85	45297964.02	45297964.19	0.0140	0.0031
Mercury	119309-10-02 18:41 G	45298052.11	45298052.28	45298052.45	0.0140	0.0007
Mercury	119309-12-30 00:55 G	45298140.37	45298140.54	45298140.71	0.0140	0.0018
Mercury	119310-03-28 06:55 G	45298228.63	45298228.79	45298228.96	0.0140	0.0043
Mercury	119310-06-24 13:10 G	45298316.91	45298317.05	45298317.21	0.0140	0.0068
Mercury	119310-09-20 19:24 G	45298405.19	45298405.31	45298405.45	0.0140	0.0093
Mercury	119310-12-18 01:39 G	45298493.49	45298493.57	45298493.68	0.0140	0.0118
Moon	119312-04-07 09:05 G	45298969.69	45298969.88	45298970.08	0.0139	0.0091
Earth	119312-04-07 11:15 G	45298969.80	45298969.97	45298970.17	0.0139	0.0095 *
Earth	119313-04-12 03:05 G	45299339.38	45299339.63	45299339.89	0.0139	0.0005
Moon	119313-04-12 05:00 G	45299339.47	45299339.71	45299339.96	0.0139	0.0003 *
Moon	119314-04-16 15:19 G	45299709.00	45299709.14	45299709.31	0.0139	0.0110
Earth	119314-04-16 17:58 G	45299709.08	45299709.25	45299709.42	0.0139	0.0103 *
Mars	119324-08-15 06:27 G	45303482.46	45303482.77	45303483.08	0.0136	0.0011
Venus	119343-11-14 01:53 G	45310512.49	45310512.58	45310512.70	0.0136	0.0118
Venus	119344-06-27 07:10 G	45310738.67	45310738.80	45310738.96	0.0136	0.0099
Venus	119345-02-08 12:41 G	45310964.87	45310965.03	45310965.21	0.0136	0.0079
Venus	119345-09-22 18:12 G	45311191.07	45311191.26	45311191.46	0.0136	0.0060

Venus	119346-05-06 23:43 G	45311417.29	45311417.49	45311417.70	0.0136	0.0040
Venus	119346-12-19 05:29 G	45311643.52	45311643.73	45311643.95	0.0136	0.0020
Venus	119347-08-02 11:29 G	45311869.76	45311869.98	45311870.19	0.0137	0.0001
Venus	119348-03-15 17:15 G	45312096.01	45312096.22	45312096.44	0.0137	0.0021
Venus	119348-10-27 23:15 G	45312322.27	45312322.47	45312322.68	0.0137	0.0042
Venus	119349-06-11 05:29 G	45312548.55	45312548.73	45312548.93	0.0137	0.0062
Venus	119350-01-23 11:58 G	45312774.83	45312775.00	45312775.17	0.0137	0.0083
Venus	119350-09-06 17:58 G	45313001.13	45313001.25	45313001.41	0.0137	0.0104
Venus	119351-04-21 00:41 G	45313227.45	45313227.53	45313227.63	0.0138	0.0124
Mercury	119351-10-22 01:10 G	45313411.49	45313411.55	45313411.63	0.0138	0.0120
Mercury	119352-01-18 05:29 G	45313499.63	45313499.73	45313499.83	0.0138	0.0100
Mercury	119352-04-15 09:34 G	45313587.78	45313587.90	45313588.02	0.0138	0.0080
Mercury	119352-07-12 13:39 G	45313675.94	45313676.07	45313676.20	0.0138	0.0060
Mercury	119352-10-08 17:43 G	45313764.10	45313764.24	45313764.38	0.0138	0.0040
Mercury	119353-01-04 21:48 G	45313852.27	45313852.41	45313852.55	0.0138	0.0020
Mercury	119353-04-03 01:53 G	45313940.43	45313940.58	45313940.72	0.0138	0.0002
Mercury	119353-06-30 05:43 G	45314028.60	45314028.74	45314028.89	0.0138	0.0020
Mercury	119353-09-26 09:48 G	45314116.77	45314116.91	45314117.05	0.0138	0.0039
Mercury	119353-12-23 13:39 G	45314204.95	45314205.07	45314205.21	0.0138	0.0058
Mercury	119354-03-21 17:43 G	45314293.12	45314293.24	45314293.36	0.0138	0.0078
Mercury	119354-06-17 21:34 G	45314381.30	45314381.40	45314381.50	0.0138	0.0097
Mercury	119354-09-14 01:10 G	45314469.49	45314469.55	45314469.64	0.0139	0.0117
Mercury	119354-12-11 05:15 G	45314557.70	45314557.72	45314557.75	0.0139	0.0135
Earth	119355-10-03 19:53 G	45314854.15	45314854.33	45314854.54	0.0139	0.0091
Moon	119355-10-03 20:51 G	45314854.20	45314854.37	45314854.57	0.0139	0.0092 *
Moon	119356-10-07 10:46 G	45315223.69	45315223.95	45315224.22	0.0139	0.0006
Earth	119356-10-07 11:58 G	45315223.75	45315224.00	45315224.26	0.0139	0.0008 *
Earth	119357-10-12 04:03 G	45315593.53	45315593.67	45315593.85	0.0139	0.0109
Moon	119357-10-12 04:46 G	45315593.58	45315593.70	45315593.87	0.0139	0.0114 *
Venus	119384-10-12 20:22 G	45325456.31	45325456.35	45325456.44	0.0142	0.0135

Venus	119385-05-27 08:51 G	45325682.75	45325682.87	45325683.03	0.0142	0.0112
Venus	119386-01-08 21:19 G	45325909.23	45325909.39	45325909.58	0.0142	0.0088
Venus	119386-08-23 09:34 G	45326135.71	45326135.90	45326136.10	0.0142	0.0064
Venus	119387-04-06 21:34 G	45326362.19	45326362.40	45326362.62	0.0142	0.0041
Venus	119387-11-19 09:34 G	45326588.68	45326588.90	45326589.12	0.0141	0.0017
Venus	119388-07-02 21:19 G	45326815.17	45326815.39	45326815.61	0.0141	0.0007
Venus	119389-02-14 08:36 G	45327041.65	45327041.86	45327042.08	0.0141	0.0030
Venus	119389-09-28 19:53 G	45327268.13	45327268.33	45327268.54	0.0141	0.0053
Venus	119390-05-13 06:55 G	45327494.61	45327494.79	45327494.99	0.0141	0.0076
Venus	119390-12-25 17:58 G	45327721.10	45327721.25	45327721.42	0.0141	0.0099
Venus	119391-08-09 04:31 G	45327947.60	45327947.69	45327947.82	0.0141	0.0121
Mercury	119392-08-07 19:24 G	45328312.24	45328312.31	45328312.41	0.0140	0.0121
Mercury	119392-11-04 01:39 G	45328400.45	45328400.57	45328400.69	0.0140	0.0096
Mercury	119393-01-31 07:39 G	45328488.68	45328488.82	45328488.97	0.0140	0.0072
Mercury	119393-04-29 13:39 G	45328576.92	45328577.07	45328577.24	0.0140	0.0048
Mercury	119393-07-26 19:53 G	45328665.16	45328665.33	45328665.50	0.0140	0.0024
Mercury	119393-10-23 02:07 G	45328753.41	45328753.59	45328753.76	0.0140	0.0002
Mercury	119394-01-19 08:07 G	45328841.67	45328841.84	45328842.02	0.0140	0.0025
Mercury	119394-04-17 14:22 G	45328929.94	45328930.10	45328930.27	0.0140	0.0050
Mercury	119394-07-14 20:36 G	45329018.22	45329018.36	45329018.51	0.0140	0.0075
Mercury	119394-10-11 02:51 G	45329106.51	45329106.62	45329106.75	0.0140	0.0100
Mercury	119395-01-07 09:05 G	45329194.82	45329194.88	45329194.97	0.0140	0.0125
Earth	119396-04-07 22:17 G	45329651.25	45329651.43	45329651.64	0.0139	0.0089
Moon	119396-04-08 01:53 G	45329651.40	45329651.58	45329651.78	0.0139	0.0092 *
Moon	119397-04-12 10:46 G	45330020.69	45330020.95	45330021.20	0.0139	0.0009
Earth	119397-04-12 14:22 G	45330020.85	45330021.10	45330021.35	0.0139	0.0010 *
Earth	119398-04-17 04:46 G	45330390.56	45330390.70	45330390.88	0.0139	0.0109
Moon	119398-04-17 08:51 G	45330390.73	45330390.87	45330391.02	0.0139	0.0112 *
Venus	119427-07-15 12:55 G	45341070.97	45341071.04	45341071.13	0.0136	0.0125
Venus	119428-02-26 18:12 G	45341297.14	45341297.26	45341297.40	0.0136	0.0106

Venus	119428-10-09 23:43 G	45341523.33	45341523.49	45341523.65	0.0136	0.0086
Venus	119429-05-24 05:00 G	45341749.54	45341749.71	45341749.91	0.0136	0.0067
Venus	119430-01-05 10:31 G	45341975.75	45341975.94	45341976.15	0.0136	0.0047
Venus	119430-08-19 16:17 G	45342201.97	45342202.18	45342202.39	0.0136	0.0027
Venus	119431-04-02 22:03 G	45342428.20	45342428.42	45342428.63	0.0137	0.0007
Venus	119431-11-15 03:48 G	45342654.45	45342654.66	45342654.87	0.0137	0.0014
Venus	119432-06-28 09:48 G	45342880.71	45342880.91	45342881.12	0.0137	0.0035
Venus	119433-02-09 15:48 G	45343106.97	45343107.16	45343107.36	0.0137	0.0055
Venus	119433-09-23 22:03 G	45343333.25	45343333.42	45343333.60	0.0137	0.0076
Venus	119434-05-08 04:03 G	45343559.54	45343559.67	45343559.84	0.0137	0.0097
Venus	119434-12-20 10:46 G	45343785.85	45343785.95	45343786.07	0.0137	0.0117
Venus	119435-08-03 17:29 G	45344012.22	45344012.23	45344012.26	0.0138	0.0137
Mercury	119435-08-16 04:31 G	45344024.66	45344024.69	45344024.72	0.0138	0.0134
Mercury	119435-11-12 08:36 G	45344112.79	45344112.86	45344112.95	0.0138	0.0114
Mercury	119436-02-08 12:41 G	45344200.93	45344201.03	45344201.15	0.0138	0.0094
Mercury	119436-05-06 17:00 G	45344289.09	45344289.21	45344289.34	0.0138	0.0074
Mercury	119436-08-02 21:05 G	45344377.25	45344377.38	45344377.52	0.0138	0.0054
Mercury	119436-10-30 01:10 G	45344465.41	45344465.55	45344465.69	0.0138	0.0034
Mercury	119437-01-26 05:15 G	45344553.58	45344553.72	45344553.87	0.0138	0.0014
Mercury	119437-04-24 09:19 G	45344641.75	45344641.89	45344642.03	0.0138	0.0006
Mercury	119437-07-21 13:24 G	45344729.92	45344730.06	45344730.20	0.0138	0.0026
Mercury	119437-10-17 17:15 G	45344818.09	45344818.22	45344818.36	0.0138	0.0045
Mercury	119438-01-13 21:05 G	45344906.26	45344906.38	45344906.51	0.0138	0.0065
Mercury	119438-04-12 01:10 G	45344994.44	45344994.55	45344994.66	0.0138	0.0084
Mercury	119438-07-09 05:00 G	45345082.62	45345082.71	45345082.81	0.0138	0.0103
Mercury	119438-10-05 08:51 G	45345170.81	45345170.87	45345170.94	0.0139	0.0123
Moon	119439-10-05 04:03 G	45345535.50	45345535.67	45345535.88	0.0139	0.0092
Earth	119439-10-05 07:39 G	45345535.63	45345535.82	45345536.03	0.0139	0.0085 *
Earth	119440-10-08 23:29 G	45345905.23	45345905.48	45345905.74	0.0139	0.0014
Moon	119440-10-09 02:51 G	45345905.38	45345905.62	45345905.88	0.0139	0.0018 *

Moon	119441-10-13 12:41 G	45346274.89	45346275.03	45346275.19	0.0139	0.0112
Earth	119441-10-13 16:17 G	45346275.04	45346275.18	45346275.33	0.0139	0.0114 *
Mars	119451-06-14 19:39 G	45349806.02	45349806.32	45349806.62	0.0142	0.0003
Venus	119469-01-25 14:36 G	45356241.01	45356241.11	45356241.24	0.0142	0.0121
Venus	119469-09-09 02:51 G	45356467.48	45356467.62	45356467.80	0.0142	0.0098
Venus	119470-04-23 15:19 G	45356693.95	45356694.14	45356694.33	0.0142	0.0074
Venus	119470-12-06 03:19 G	45356920.44	45356920.64	45356920.86	0.0142	0.0051
Venus	119471-07-20 15:19 G	45357146.93	45357147.14	45357147.37	0.0141	0.0027
Venus	119472-03-03 03:05 G	45357373.41	45357373.63	45357373.86	0.0141	0.0004
Venus	119472-10-15 14:36 G	45357599.89	45357600.11	45357600.33	0.0141	0.0021
Venus	119473-05-30 01:53 G	45357826.38	45357826.58	45357826.80	0.0141	0.0044
Venus	119474-01-11 13:10 G	45358052.87	45358053.05	45358053.25	0.0141	0.0067
Venus	119474-08-26 00:12 G	45358279.35	45358279.51	45358279.69	0.0141	0.0090
Venus	119475-04-09 11:14 G	45358505.83	45358505.97	45358506.10	0.0141	0.0112
Venus	119475-11-21 21:19 G	45358732.35	45358732.39	45358732.47	0.0140	0.0134
Mercury	119476-06-01 20:22 G	45358925.34	45358925.35	45358925.39	0.0140	0.0139
Mercury	119476-08-29 02:36 G	45359013.52	45359013.61	45359013.71	0.0140	0.0115
Mercury	119476-11-25 08:22 G	45359101.73	45359101.85	45359101.99	0.0140	0.0091
Mercury	119477-02-21 14:22 G	45359189.96	45359190.10	45359190.26	0.0140	0.0068
Mercury	119477-05-20 20:36 G	45359278.20	45359278.36	45359278.53	0.0140	0.0043
Mercury	119477-08-17 02:50 G	45359366.45	45359366.62	45359366.79	0.0140	0.0018
Mercury	119477-11-13 08:50 G	45359454.70	45359454.87	45359455.05	0.0140	0.0007
Mercury	119478-02-09 15:05 G	45359542.96	45359543.13	45359543.30	0.0140	0.0031
Mercury	119478-05-08 21:05 G	45359631.23	45359631.38	45359631.55	0.0140	0.0056
Mercury	119478-08-05 03:34 G	45359719.51	45359719.65	45359719.80	0.0140	0.0080
Mercury	119478-11-01 09:48 G	45359807.80	45359807.91	45359808.03	0.0140	0.0105
Mercury	119479-01-28 16:17 G	45359896.12	45359896.18	45359896.24	0.0140	0.0130
Moon	119480-04-09 06:26 G	45360332.60	45360332.77	45360332.97	0.0139	0.0093
Earth	119480-04-09 07:53 G	45360332.64	45360332.83	45360333.04	0.0139	0.0085 *
Earth	119481-04-13 23:43 G	45360702.24	45360702.49	45360702.75	0.0139	0.0014

Moon	119481-04-14 01:53 G	45360702.32	45360702.58	45360702.84	0.0139	0.0018	*
Moon	119482-04-18 12:26 G	45361071.89	45361072.02	45361072.19	0.0139	0.0110	
Earth	119482-04-18 14:36 G	45361071.97	45361072.11	45361072.27	0.0139	0.0112	*
Jupiter	119484-01-26 19:38 G	45361719.98	45361720.32	45361720.73	0.0138	0.0098	
Mars	119492-01-02 23:43 G	45364618.30	45364618.49	45364618.71	0.0136	0.0104	
Venus	119511-03-15 23:58 G	45371629.46	45371629.50	45371629.55	0.0136	0.0132	
Venus	119511-10-28 05:00 G	45371855.60	45371855.71	45371855.83	0.0136	0.0113	
Venus	119512-06-10 10:17 G	45372081.79	45372081.93	45372082.09	0.0136	0.0094	
Venus	119513-01-22 15:48 G	45372307.99	45372308.16	45372308.34	0.0136	0.0074	
Venus	119513-09-05 21:05 G	45372534.19	45372534.38	45372534.58	0.0136	0.0054	
Venus	119514-04-20 02:36 G	45372760.41	45372760.61	45372760.82	0.0136	0.0034	
Venus	119514-12-02 08:22 G	45372986.64	45372986.85	45372987.06	0.0137	0.0014	
Venus	119515-07-16 14:07 G	45373212.88	45373213.09	45373213.31	0.0137	0.0007	
Venus	119516-02-27 20:07 G	45373439.13	45373439.34	45373439.55	0.0137	0.0027	
Venus	119516-10-11 01:53 G	45373665.39	45373665.58	45373665.79	0.0137	0.0048	
Venus	119517-05-25 08:07 G	45373891.66	45373891.84	45373892.03	0.0137	0.0068	
Venus	119518-01-06 14:07 G	45374117.94	45374118.09	45374118.27	0.0137	0.0089	
Venus	119518-08-20 20:36 G	45374344.24	45374344.36	45374344.50	0.0137	0.0110	
Venus	119519-04-04 03:05 G	45374570.58	45374570.63	45374570.71	0.0138	0.0130	
Mercury	119519-09-06 11:43 G	45374725.95	45374725.99	45374726.05	0.0138	0.0128	
Mercury	119519-12-03 16:02 G	45374814.08	45374814.17	45374814.26	0.0138	0.0108	
Mercury	119520-02-29 20:07 G	45374902.23	45374902.34	45374902.46	0.0138	0.0088	
Mercury	119520-05-28 00:12 G	45374990.39	45374990.51	45374990.64	0.0138	0.0068	
Mercury	119520-08-24 04:31 G	45375078.55	45375078.69	45375078.83	0.0138	0.0048	
Mercury	119520-11-20 08:36 G	45375166.72	45375166.86	45375167.00	0.0138	0.0028	
Mercury	119521-02-16 12:41 G	45375254.88	45375255.03	45375255.17	0.0138	0.0008	
Mercury	119521-05-15 16:46 G	45375343.05	45375343.20	45375343.34	0.0138	0.0012	
Mercury	119521-08-11 20:36 G	45375431.22	45375431.36	45375431.50	0.0138	0.0031	
Mercury	119521-11-08 00:26 G	45375519.40	45375519.52	45375519.66	0.0138	0.0052	
Mercury	119522-02-04 04:31 G	45375607.57	45375607.69	45375607.82	0.0138	0.0070	

Mercury	119522-05-03 08:36 G	45375695.75	45375695.86	45375695.97	0.0138	0.0090
Mercury	119522-07-30 12:12 G	45375783.94	45375784.01	45375784.11	0.0138	0.0110
Mercury	119522-10-26 16:17 G	45375872.13	45375872.18	45375872.24	0.0138	0.0128
Earth	119523-10-06 18:26 G	45376217.07	45376217.27	45376217.49	0.0139	0.0080
Moon	119523-10-06 20:50 G	45376217.18	45376217.37	45376217.58	0.0139	0.0087 *
Moon	119524-10-10 07:24 G	45376586.57	45376586.81	45376587.06	0.0139	0.0026
Earth	119524-10-10 10:31 G	45376586.69	45376586.94	45376587.20	0.0139	0.0019 *
Earth	119525-10-15 02:50 G	45376956.50	45376956.62	45376956.77	0.0139	0.0119
Moon	119525-10-15 05:58 G	45376956.60	45376956.75	45376956.91	0.0139	0.0112 *
Venus	119552-09-25 20:22 G	45386799.28	45386799.35	45386799.45	0.0142	0.0131
Venus	119553-05-10 09:05 G	45387025.74	45387025.88	45387026.03	0.0142	0.0107
Venus	119553-12-22 21:19 G	45387252.22	45387252.39	45387252.58	0.0142	0.0084
Venus	119554-08-06 09:34 G	45387478.70	45387478.90	45387479.10	0.0142	0.0060
Venus	119555-03-20 21:34 G	45387705.19	45387705.40	45387705.62	0.0142	0.0036
Venus	119555-11-02 09:19 G	45387931.67	45387931.89	45387932.11	0.0141	0.0012
Venus	119556-06-15 21:05 G	45388158.16	45388158.38	45388158.60	0.0141	0.0012
Venus	119557-01-28 08:22 G	45388384.64	45388384.85	45388385.07	0.0141	0.0036
Venus	119557-09-11 19:53 G	45388611.13	45388611.33	45388611.53	0.0141	0.0058
Venus	119558-04-26 06:55 G	45388837.61	45388837.79	45388837.97	0.0141	0.0081
Venus	119558-12-08 17:43 G	45389064.10	45389064.24	45389064.39	0.0141	0.0104
Venus	119559-07-23 04:02 G	45389290.60	45389290.67	45389290.79	0.0141	0.0127
Mercury	119560-06-23 03:34 G	45389626.61	45389626.65	45389626.72	0.0140	0.0132
Mercury	119560-09-19 09:34 G	45389714.80	45389714.90	45389715.02	0.0140	0.0109
Mercury	119560-12-16 15:48 G	45389803.03	45389803.16	45389803.29	0.0140	0.0085
Mercury	119561-03-14 21:48 G	45389891.26	45389891.41	45389891.56	0.0140	0.0061
Mercury	119561-06-11 03:48 G	45389979.50	45389979.66	45389979.83	0.0140	0.0036
Mercury	119561-09-07 10:02 G	45390067.75	45390067.92	45390068.09	0.0140	0.0012
Mercury	119561-12-04 16:02 G	45390156.00	45390156.17	45390156.35	0.0140	0.0013
Mercury	119562-03-02 22:17 G	45390244.27	45390244.43	45390244.60	0.0140	0.0037
Mercury	119562-05-30 04:31 G	45390332.54	45390332.69	45390332.85	0.0140	0.0062

Mercury	119562-08-26 10:46 G	45390420.82	45390420.95	45390421.09	0.0140	0.0087
Mercury	119562-11-22 17:00 G	45390509.11	45390509.21	45390509.32	0.0140	0.0112
Mercury	119563-02-18 23:14 G	45390597.45	45390597.47	45390597.52	0.0140	0.0137
Moon	119564-04-10 16:02 G	45391013.98	45391014.17	45391014.39	0.0139	0.0087
Earth	119564-04-10 18:12 G	45391014.07	45391014.26	45391014.48	0.0139	0.0081 *
Earth	119565-04-15 10:02 G	45391383.67	45391383.92	45391384.18	0.0139	0.0018
Moon	119565-04-15 11:43 G	45391383.75	45391383.99	45391384.23	0.0139	0.0025 *
Moon	119566-04-19 23:43 G	45391753.35	45391753.49	45391753.67	0.0139	0.0109
Earth	119566-04-20 01:10 G	45391753.42	45391753.55	45391753.70	0.0139	0.0116 *
Mars	119576-08-29 04:02 G	45395537.40	45395537.67	45395537.96	0.0136	0.0061
Venus	119595-06-27 15:48 G	45402414.08	45402414.16	45402414.27	0.0136	0.0121
Venus	119596-02-08 21:05 G	45402640.25	45402640.38	45402640.53	0.0136	0.0101
Venus	119596-09-22 02:07 G	45402866.44	45402866.59	45402866.78	0.0136	0.0082
Venus	119597-05-06 07:53 G	45403092.64	45403092.83	45403093.02	0.0136	0.0062
Venus	119597-12-18 13:10 G	45403318.85	45403319.05	45403319.26	0.0136	0.0042
Venus	119598-08-01 18:41 G	45403545.08	45403545.28	45403545.50	0.0136	0.0022
Venus	119599-03-16 00:26 G	45403771.31	45403771.52	45403771.74	0.0137	0.0002
Venus	119599-10-28 06:12 G	45403997.55	45403997.76	45403997.97	0.0137	0.0020
Venus	119600-06-10 12:12 G	45404223.81	45404224.01	45404224.22	0.0137	0.0040
Venus	119601-01-22 17:58 G	45404450.07	45404450.25	45404450.46	0.0137	0.0062
Venus	119601-09-06 00:26 G	45404676.35	45404676.52	45404676.69	0.0137	0.0081
Venus	119602-04-20 06:26 G	45404902.64	45404902.77	45404902.92	0.0137	0.0102
Venus	119602-12-02 12:55 G	45405128.96	45405129.04	45405129.15	0.0137	0.0123
Mercury	119603-09-26 19:10 G	45405427.24	45405427.30	45405427.37	0.0138	0.0122
Mercury	119603-12-23 23:14 G	45405515.38	45405515.47	45405515.58	0.0138	0.0102
Mercury	119604-03-21 03:34 G	45405603.54	45405603.65	45405603.77	0.0138	0.0082
Mercury	119604-06-17 07:38 G	45405691.69	45405691.82	45405691.96	0.0138	0.0062
Mercury	119604-09-13 11:43 G	45405779.86	45405779.99	45405780.13	0.0138	0.0042
Mercury	119604-12-10 16:02 G	45405868.02	45405868.17	45405868.31	0.0138	0.0022
Mercury	119605-03-08 19:53 G	45405956.19	45405956.33	45405956.48	0.0138	0.0005

Mercury	119605-06-04 23:58 G	45406044.36	45406044.50	45406044.65	0.0138	0.0018
Mercury	119605-09-01 04:02 G	45406132.53	45406132.67	45406132.81	0.0138	0.0037
Mercury	119605-11-28 07:53 G	45406220.71	45406220.83	45406220.97	0.0138	0.0057
Mercury	119606-02-24 11:58 G	45406308.88	45406309.00	45406309.12	0.0138	0.0077
Mercury	119606-05-23 15:48 G	45406397.07	45406397.16	45406397.27	0.0138	0.0096
Mercury	119606-08-19 19:38 G	45406485.25	45406485.32	45406485.41	0.0138	0.0116
Mercury	119606-11-15 23:43 G	45406573.46	45406573.49	45406573.53	0.0138	0.0134
Earth	119607-10-07 05:43 G	45406898.54	45406898.74	45406898.96	0.0139	0.0075
Moon	119607-10-07 06:41 G	45406898.58	45406898.78	45406898.99	0.0139	0.0077 *
Moon	119608-10-10 21:34 G	45407268.15	45407268.40	45407268.67	0.0139	0.0029
Earth	119608-10-10 21:34 G	45407268.16	45407268.40	45407268.66	0.0139	0.0024 *
Moon	119609-10-15 13:53 G	45407637.97	45407638.08	45407638.24	0.0139	0.0117
Earth	119609-10-15 13:53 G	45407637.98	45407638.08	45407638.22	0.0139	0.0124 *
Mars	119618-11-01 21:48 G	45410942.29	45410942.41	45410942.54	0.0142	0.0128
Venus	119636-05-26 01:53 G	45417357.57	45417357.58	45417357.62	0.0142	0.0141
Venus	119637-01-07 14:36 G	45417583.99	45417584.11	45417584.24	0.0142	0.0117
Venus	119637-08-22 02:36 G	45417810.46	45417810.61	45417810.79	0.0142	0.0094
Venus	119638-04-05 14:50 G	45418036.94	45418037.12	45418037.32	0.0142	0.0070
Venus	119638-11-18 03:05 G	45418263.42	45418263.63	45418263.84	0.0142	0.0046
Venus	119639-07-02 15:05 G	45418489.91	45418490.13	45418490.35	0.0142	0.0022
Venus	119640-02-14 02:36 G	45418716.39	45418716.61	45418716.84	0.0141	0.0003
Venus	119640-09-27 14:07 G	45418942.87	45418943.09	45418943.31	0.0141	0.0026
Venus	119641-05-12 01:24 G	45419169.36	45419169.56	45419169.77	0.0141	0.0049
Venus	119641-12-24 12:41 G	45419395.84	45419396.03	45419396.22	0.0141	0.0072
Venus	119642-08-07 23:29 G	45419622.33	45419622.48	45419622.65	0.0141	0.0095
Venus	119643-03-22 10:02 G	45419848.82	45419848.92	45419849.06	0.0141	0.0118
Venus	119643-11-03 20:50 G	45420075.36	45420075.37	45420075.40	0.0140	0.0140
Mercury	119644-07-13 10:17 G	45420327.88	45420327.93	45420328.01	0.0140	0.0128
Mercury	119644-10-09 16:31 G	45420416.08	45420416.19	45420416.31	0.0140	0.0103
Mercury	119645-01-05 22:31 G	45420504.30	45420504.44	45420504.58	0.0140	0.0080

Mercury	119645-04-04 04:31 G	45420592.54	45420592.69	45420592.85	0.0140	0.0056
Mercury	119645-07-01 10:46 G	45420680.78	45420680.95	45420681.11	0.0140	0.0031
Mercury	119645-09-27 16:46 G	45420769.03	45420769.20	45420769.37	0.0140	0.0007
Mercury	119645-12-24 23:00 G	45420857.29	45420857.46	45420857.63	0.0140	0.0018
Mercury	119646-03-23 05:14 G	45420945.55	45420945.72	45420945.88	0.0140	0.0042
Mercury	119646-06-19 11:14 G	45421033.82	45421033.97	45421034.13	0.0140	0.0067
Mercury	119646-09-15 17:29 G	45421122.11	45421122.23	45421122.37	0.0140	0.0092
Mercury	119646-12-12 23:43 G	45421210.41	45421210.49	45421210.60	0.0140	0.0117
Earth	119648-04-11 03:05 G	45421695.43	45421695.63	45421695.85	0.0139	0.0078
Moon	119648-04-11 06:55 G	45421695.59	45421695.79	45421696.00	0.0139	0.0080 *
Moon	119649-04-15 15:34 G	45422064.91	45422065.15	45422065.41	0.0139	0.0024
Earth	119649-04-15 19:10 G	45422065.06	45422065.30	45422065.56	0.0139	0.0021 *
Earth	119650-04-20 10:02 G	45422434.81	45422434.92	45422435.06	0.0139	0.0119
Moon	119650-04-20 13:24 G	45422434.93	45422435.06	45422435.23	0.0139	0.0112 *
Venus	119679-02-25 02:36 G	45432972.55	45432972.61	45432972.68	0.0136	0.0128
Venus	119679-10-09 07:24 G	45433198.70	45433198.81	45433198.95	0.0136	0.0109
Venus	119680-05-22 12:55 G	45433424.89	45433425.04	45433425.21	0.0136	0.0089
Venus	119681-01-03 18:12 G	45433651.08	45433651.26	45433651.45	0.0136	0.0069
Venus	119681-08-17 23:29 G	45433877.29	45433877.48	45433877.69	0.0136	0.0050
Venus	119682-04-01 05:00 G	45434103.51	45434103.71	45434103.92	0.0136	0.0029
Venus	119682-11-13 10:46 G	45434329.73	45434329.95	45434330.16	0.0137	0.0009
Venus	119683-06-27 16:31 G	45434555.98	45434556.19	45434556.40	0.0137	0.0012
Venus	119684-02-08 22:02 G	45434782.22	45434782.42	45434782.64	0.0137	0.0033
Venus	119684-09-22 04:02 G	45435008.48	45435008.67	45435008.87	0.0137	0.0053
Venus	119685-05-06 10:02 G	45435234.75	45435234.92	45435235.11	0.0137	0.0074
Venus	119685-12-18 16:17 G	45435461.04	45435461.18	45435461.34	0.0137	0.0095
Venus	119686-08-01 22:46 G	45435687.35	45435687.45	45435687.58	0.0137	0.0115
Venus	119687-03-16 05:14 G	45435913.70	45435913.72	45435913.77	0.0138	0.0136
Mercury	119687-07-20 22:31 G	45436040.42	45436040.44	45436040.45	0.0138	0.0136
Mercury	119687-10-17 02:36 G	45436128.53	45436128.61	45436128.69	0.0138	0.0116

Mercury	119688-01-13 06:41 G	45436216.68	45436216.78	45436216.89	0.0138	0.0096
Mercury	119688-04-10 10:46 G	45436304.84	45436304.95	45436305.08	0.0138	0.0076
Mercury	119688-07-07 15:05 G	45436393.00	45436393.13	45436393.26	0.0138	0.0056
Mercury	119688-10-03 19:10 G	45436481.16	45436481.30	45436481.44	0.0138	0.0036
Mercury	119688-12-30 23:14 G	45436569.33	45436569.47	45436569.62	0.0138	0.0016
Mercury	119689-03-29 03:19 G	45436657.50	45436657.64	45436657.79	0.0138	0.0004
Mercury	119689-06-25 07:24 G	45436745.67	45436745.81	45436745.95	0.0138	0.0024
Mercury	119689-09-21 11:29 G	45436833.84	45436833.98	45436834.11	0.0138	0.0043
Mercury	119689-12-18 15:19 G	45436922.02	45436922.14	45436922.27	0.0138	0.0063
Mercury	119690-03-16 19:24 G	45437010.20	45437010.31	45437010.42	0.0138	0.0082
Mercury	119690-06-12 23:00 G	45437098.38	45437098.46	45437098.57	0.0138	0.0103
Mercury	119690-09-09 03:05 G	45437186.57	45437186.63	45437186.71	0.0138	0.0121
Moon	119691-10-07 12:55 G	45437579.83	45437580.04	45437580.29	0.0139	0.0066
Earth	119691-10-07 16:46 G	45437579.99	45437580.20	45437580.42	0.0139	0.0070 *
Earth	119692-10-11 08:36 G	45437949.61	45437949.86	45437950.11	0.0139	0.0029
Moon	119692-10-11 11:29 G	45437949.74	45437949.98	45437950.23	0.0139	0.0028 *
Moon	119693-10-15 21:34 G	45438319.31	45438319.40	45438319.54	0.0139	0.0125
Earth	119693-10-16 00:41 G	45438319.45	45438319.53	45438319.65	0.0139	0.0128 *
Mars	119703-06-29 00:26 G	45441861.25	45441861.52	45441861.82	0.0142	0.0046
Venus	119720-09-07 20:22 G	45448142.26	45448142.35	45448142.45	0.0142	0.0128
Venus	119721-04-22 08:22 G	45448368.72	45448368.85	45448369.02	0.0142	0.0104
Venus	119721-12-04 20:50 G	45448595.20	45448595.37	45448595.56	0.0142	0.0080
Venus	119722-07-19 09:05 G	45448821.68	45448821.88	45448822.09	0.0142	0.0056
Venus	119723-03-02 20:50 G	45449048.16	45449048.37	45449048.59	0.0142	0.0032
Venus	119723-10-15 08:36 G	45449274.64	45449274.86	45449275.09	0.0141	0.0008
Venus	119724-05-28 20:07 G	45449501.13	45449501.34	45449501.57	0.0141	0.0017
Venus	119725-01-10 07:53 G	45449727.61	45449727.83	45449728.04	0.0141	0.0040
Venus	119725-08-24 18:55 G	45449954.10	45449954.29	45449954.49	0.0141	0.0063
Venus	119726-04-08 05:58 G	45450180.58	45450180.75	45450180.93	0.0141	0.0086
Venus	119726-11-20 16:46 G	45450407.07	45450407.20	45450407.35	0.0141	0.0109

Venus	119727-07-05 03:48 G	45450633.58	45450633.66	45450633.73	0.0141	0.0131
Mercury	119728-08-03 17:29 G	45451029.16	45451029.23	45451029.32	0.0140	0.0121
Mercury	119728-10-30 23:29 G	45451117.37	45451117.48	45451117.61	0.0140	0.0098
Mercury	119729-01-27 05:43 G	45451205.60	45451205.74	45451205.88	0.0140	0.0073
Mercury	119729-04-25 11:43 G	45451293.83	45451293.99	45451294.15	0.0140	0.0049
Mercury	119729-07-22 17:43 G	45451382.08	45451382.24	45451382.41	0.0140	0.0025
Mercury	119729-10-18 23:58 G	45451470.33	45451470.50	45451470.67	0.0140	0.0002
Mercury	119730-01-15 05:58 G	45451558.58	45451558.75	45451558.92	0.0140	0.0024
Mercury	119730-04-13 12:12 G	45451646.85	45451647.01	45451647.18	0.0140	0.0048
Mercury	119730-07-10 18:26 G	45451735.13	45451735.27	45451735.42	0.0140	0.0073
Mercury	119730-10-07 00:41 G	45451823.41	45451823.53	45451823.66	0.0140	0.0098
Mercury	119731-01-03 06:55 G	45451911.72	45451911.79	45451911.88	0.0140	0.0123
Moon	119732-04-12 11:00 G	45452376.74	45452376.96	45452377.17	0.0139	0.0070
Earth	119732-04-12 13:10 G	45452376.84	45452377.05	45452377.27	0.0139	0.0074 *
Earth	119733-04-17 05:00 G	45452746.47	45452746.71	45452746.97	0.0139	0.0025
Moon	119733-04-17 07:24 G	45452746.56	45452746.81	45452747.07	0.0139	0.0022 *
Moon	119734-04-21 17:29 G	45453116.13	45453116.23	45453116.37	0.0139	0.0121
Earth	119734-04-21 20:07 G	45453116.24	45453116.34	45453116.47	0.0139	0.0123 *
Mars	119744-01-16 16:46 G	45456672.92	45456673.20	45456673.49	0.0136	0.0060
Venus	119763-06-09 18:12 G	45463757.17	45463757.26	45463757.38	0.0136	0.0117
Venus	119764-01-21 23:29 G	45463983.34	45463983.48	45463983.63	0.0136	0.0097
Venus	119764-09-04 04:46 G	45464209.53	45464209.70	45464209.88	0.0136	0.0077
Venus	119765-04-18 09:48 G	45464435.73	45464435.91	45464436.11	0.0136	0.0058
Venus	119765-11-30 15:19 G	45464661.94	45464662.14	45464662.35	0.0136	0.0037
Venus	119766-07-14 21:05 G	45464888.17	45464888.38	45464888.59	0.0137	0.0017
Venus	119767-02-26 02:36 G	45465114.40	45465114.61	45465114.83	0.0137	0.0004
Venus	119767-10-10 08:22 G	45465340.64	45465340.85	45465341.06	0.0137	0.0025
Venus	119768-05-23 14:22 G	45465566.90	45465567.10	45465567.30	0.0137	0.0045
Venus	119769-01-04 20:07 G	45465793.16	45465793.34	45465793.54	0.0137	0.0066
Venus	119769-08-19 02:07 G	45466019.44	45466019.59	45466019.77	0.0137	0.0088

Venus	119770-04-02 08:36 G	45466245.74	45466245.86	45466246.00	0.0137	0.0108
Venus	119770-11-14 14:50 G	45466472.07	45466472.12	45466472.21	0.0137	0.0129
Mercury	119771-08-11 05:29 G	45466741.70	45466741.73	45466741.79	0.0138	0.0131
Mercury	119771-11-07 10:02 G	45466829.83	45466829.92	45466830.01	0.0138	0.0110
Mercury	119772-02-03 14:07 G	45466917.98	45466918.09	45466918.20	0.0138	0.0090
Mercury	119772-05-01 18:12 G	45467006.14	45467006.26	45467006.39	0.0138	0.0070
Mercury	119772-07-28 22:31 G	45467094.30	45467094.44	45467094.58	0.0138	0.0050
Mercury	119772-10-25 02:36 G	45467182.47	45467182.61	45467182.75	0.0138	0.0030
Mercury	119773-01-21 06:41 G	45467270.64	45467270.78	45467270.92	0.0138	0.0010
Mercury	119773-04-19 10:46 G	45467358.80	45467358.95	45467359.09	0.0138	0.0010
Mercury	119773-07-16 14:36 G	45467446.98	45467447.11	45467447.26	0.0138	0.0031
Mercury	119773-10-12 18:41 G	45467535.15	45467535.28	45467535.42	0.0138	0.0050
Mercury	119774-01-08 22:31 G	45467623.33	45467623.44	45467623.58	0.0138	0.0070
Mercury	119774-04-07 02:36 G	45467711.51	45467711.61	45467711.73	0.0138	0.0089
Mercury	119774-07-04 06:41 G	45467799.69	45467799.78	45467799.87	0.0138	0.0108
Mercury	119774-09-30 10:17 G	45467887.89	45467887.93	45467888.00	0.0138	0.0128
Earth	119775-10-09 03:34 G	45468261.43	45468261.65	45468261.88	0.0139	0.0065
Moon	119775-10-09 06:55 G	45468261.57	45468261.79	45468262.04	0.0139	0.0057 *
Moon	119776-10-12 16:17 G	45468630.94	45468631.18	45468631.43	0.0139	0.0028
Earth	119776-10-12 19:24 G	45468631.07	45468631.31	45468631.56	0.0139	0.0034 *
Earth	119777-10-17 11:14 G	45469000.92	45469000.97	45469001.06	0.0139	0.0134
Moon	119777-10-17 15:05 G	45469001.08	45469001.13	45469001.20	0.0139	0.0135
Venus	119804-05-09 01:38 G	45478700.54	45478700.57	45478700.64	0.0142	0.0138
Venus	119804-12-21 14:22 G	45478926.98	45478927.10	45478927.24	0.0142	0.0114
Venus	119805-08-05 02:36 G	45479153.45	45479153.61	45479153.79	0.0142	0.0090
Venus	119806-03-19 14:50 G	45479379.92	45479380.12	45479380.31	0.0142	0.0066
Venus	119806-11-01 02:22 G	45479606.40	45479606.60	45479606.83	0.0142	0.0043
Venus	119807-06-15 14:22 G	45479832.89	45479833.10	45479833.33	0.0142	0.0018
Venus	119808-01-28 02:07 G	45480059.37	45480059.59	45480059.82	0.0141	0.0007
Venus	119808-09-10 13:24 G	45480285.85	45480286.06	45480286.29	0.0141	0.0031

Venus	119809-04-25 00:55 G	45480512.34	45480512.54	45480512.75	0.0141	0.0053
Venus	119809-12-07 11:58 G	45480738.82	45480739.00	45480739.20	0.0141	0.0077
Venus	119810-07-21 23:00 G	45480965.31	45480965.46	45480965.62	0.0141	0.0100
Venus	119811-03-05 09:34 G	45481191.81	45481191.90	45481192.03	0.0141	0.0123
Mercury	119812-05-28 18:41 G	45481642.27	45481642.28	45481642.30	0.0140	0.0139
Mercury	119812-08-25 00:41 G	45481730.44	45481730.53	45481730.63	0.0140	0.0116
Mercury	119812-11-21 06:26 G	45481818.65	45481818.77	45481818.91	0.0140	0.0092
Mercury	119813-02-17 12:26 G	45481906.88	45481907.02	45481907.18	0.0140	0.0068
Mercury	119813-05-16 18:41 G	45481995.12	45481995.28	45481995.44	0.0140	0.0044
Mercury	119813-08-13 00:41 G	45482083.36	45482083.53	45482083.70	0.0140	0.0020
Mercury	119813-11-09 06:55 G	45482171.62	45482171.79	45482171.96	0.0140	0.0005
Mercury	119814-02-05 12:55 G	45482259.88	45482260.04	45482260.21	0.0140	0.0029
Mercury	119814-05-04 19:10 G	45482348.14	45482348.30	45482348.46	0.0140	0.0054
Mercury	119814-08-01 01:10 G	45482436.42	45482436.55	45482436.71	0.0140	0.0079
Mercury	119814-10-28 07:24 G	45482524.71	45482524.81	45482524.94	0.0140	0.0104
Mercury	119815-01-24 13:38 G	45482613.02	45482613.07	45482613.15	0.0140	0.0129
Moon	119816-04-13 20:22 G	45483058.13	45483058.35	45483058.60	0.0139	0.0064
Earth	119816-04-13 22:31 G	45483058.22	45483058.44	45483058.66	0.0139	0.0071 *
Earth	119817-04-18 14:22 G	45483427.86	45483428.10	45483428.35	0.0139	0.0028
Moon	119817-04-18 16:02 G	45483427.93	45483428.17	45483428.42	0.0139	0.0021 *
Moon	119818-04-23 03:19 G	45483797.58	45483797.64	45483797.74	0.0139	0.0132
Earth	119818-04-23 05:14 G	45483797.63	45483797.72	45483797.84	0.0139	0.0126 *
Mars	119828-09-11 17:43 G	45487592.05	45487592.24	45487592.47	0.0136	0.0102
Venus	119847-02-08 04:31 G	45494315.61	45494315.69	45494315.77	0.0136	0.0125
Venus	119847-09-22 09:19 G	45494541.77	45494541.89	45494542.04	0.0136	0.0106
Venus	119848-05-05 14:36 G	45494767.96	45494768.11	45494768.29	0.0136	0.0086
Venus	119848-12-17 20:07 G	45494994.16	45494994.34	45494994.53	0.0136	0.0066
Venus	119849-08-01 01:24 G	45495220.36	45495220.56	45495220.77	0.0136	0.0045
Venus	119850-03-15 06:55 G	45495446.58	45495446.79	45495447.00	0.0137	0.0025
Venus	119850-10-27 12:26 G	45495672.81	45495673.02	45495673.24	0.0137	0.0005

Venus	119851-06-10 18:12 G	45495899.05	45495899.26	45495899.48	0.0137	0.0017
Venus	119852-01-23 00:12 G	45496125.30	45496125.51	45496125.72	0.0137	0.0037
Venus	119852-09-05 05:58 G	45496351.56	45496351.75	45496351.95	0.0137	0.0058
Venus	119853-04-19 11:58 G	45496577.84	45496578.00	45496578.19	0.0137	0.0079
Venus	119853-12-01 18:12 G	45496804.13	45496804.26	45496804.42	0.0137	0.0100
Venus	119854-07-16 00:55 G	45497030.45	45497030.54	45497030.65	0.0137	0.0121
Mercury	119855-09-01 12:55 G	45497442.99	45497443.04	45497443.11	0.0138	0.0125
Mercury	119855-11-28 17:29 G	45497531.13	45497531.23	45497531.32	0.0138	0.0104
Mercury	119856-02-24 21:34 G	45497619.28	45497619.40	45497619.52	0.0138	0.0084
Mercury	119856-05-23 01:38 G	45497707.44	45497707.57	45497707.70	0.0138	0.0064
Mercury	119856-08-19 05:43 G	45497795.61	45497795.74	45497795.88	0.0138	0.0044
Mercury	119856-11-15 10:02 G	45497883.77	45497883.92	45497884.06	0.0138	0.0024
Mercury	119857-02-11 14:07 G	45497971.94	45497972.09	45497972.23	0.0138	0.0005
Mercury	119857-05-10 18:12 G	45498060.11	45498060.26	45498060.40	0.0138	0.0016
Mercury	119857-08-06 22:02 G	45498148.28	45498148.42	45498148.56	0.0138	0.0036
Mercury	119857-11-03 02:07 G	45498236.46	45498236.59	45498236.72	0.0138	0.0055
Mercury	119858-01-30 06:12 G	45498324.64	45498324.76	45498324.88	0.0138	0.0075
Mercury	119858-04-28 10:02 G	45498412.82	45498412.92	45498413.03	0.0138	0.0094
Mercury	119858-07-25 13:53 G	45498501.01	45498501.08	45498501.17	0.0138	0.0114
Mercury	119858-10-21 17:58 G	45498589.21	45498589.25	45498589.29	0.0139	0.0133
Earth	119859-10-10 14:22 G	45498942.87	45498943.10	45498943.33	0.0139	0.0059
Moon	119859-10-10 16:17 G	45498942.96	45498943.18	45498943.41	0.0139	0.0058 *
Moon	119860-10-14 03:34 G	45499312.40	45499312.65	45499312.91	0.0139	0.0035
Earth	119860-10-14 05:58 G	45499312.51	45499312.75	45499313.00	0.0139	0.0039 *
Earth	119861-10-18 21:48 G	45499682.40	45499682.41	45499682.46	0.0139	0.0138
Mars	119870-11-16 04:46 G	45502997.46	45502997.70	45502997.96	0.0142	0.0079
Venus	119888-08-20 19:38 G	45509485.24	45509485.32	45509485.45	0.0142	0.0125
Venus	119889-04-04 08:07 G	45509711.70	45509711.84	45509712.01	0.0142	0.0101
Venus	119889-11-16 20:22 G	45509938.17	45509938.35	45509938.55	0.0142	0.0077
Venus	119890-07-01 08:22 G	45510164.65	45510164.85	45510165.07	0.0142	0.0053

Venus	119891-02-12 20:22 G	45510391.14	45510391.35	45510391.57	0.0142	0.0028
Venus	119891-09-27 08:07 G	45510617.62	45510617.84	45510618.06	0.0141	0.0004
Venus	119892-05-10 19:38 G	45510844.10	45510844.32	45510844.54	0.0141	0.0020
Venus	119892-12-23 07:10 G	45511070.60	45511070.80	45511071.02	0.0141	0.0044
Venus	119893-08-06 18:26 G	45511297.08	45511297.27	45511297.47	0.0141	0.0067
Venus	119894-03-21 05:14 G	45511523.57	45511523.72	45511523.91	0.0141	0.0091
Venus	119894-11-02 16:17 G	45511750.06	45511750.18	45511750.32	0.0141	0.0114
Venus	119895-06-17 03:19 G	45511976.59	45511976.64	45511976.70	0.0140	0.0136
Mercury	119896-06-18 01:53 G	45512343.54	45512343.58	45512343.64	0.0140	0.0133
Mercury	119896-09-14 07:53 G	45512431.73	45512431.83	45512431.94	0.0140	0.0109
Mercury	119896-12-11 13:38 G	45512519.95	45512520.07	45512520.21	0.0140	0.0086
Mercury	119897-03-09 19:38 G	45512608.18	45512608.32	45512608.48	0.0140	0.0062
Mercury	119897-06-06 01:53 G	45512696.42	45512696.58	45512696.74	0.0140	0.0038
Mercury	119897-09-02 07:53 G	45512784.66	45512784.83	45512785.00	0.0140	0.0014
Mercury	119897-11-29 14:07 G	45512872.92	45512873.09	45512873.26	0.0140	0.0011
Mercury	119898-02-25 20:07 G	45512961.18	45512961.34	45512961.51	0.0140	0.0036
Mercury	119898-05-25 02:22 G	45513049.45	45513049.60	45513049.76	0.0140	0.0060
Mercury	119898-08-21 08:36 G	45513137.72	45513137.86	45513138.00	0.0140	0.0085
Mercury	119898-11-17 14:50 G	45513226.02	45513226.12	45513226.23	0.0140	0.0110
Mercury	119899-02-13 21:05 G	45513314.34	45513314.38	45513314.43	0.0140	0.0135
Earth	119900-04-15 08:22 G	45513739.64	45513739.85	45513740.09	0.0139	0.0066
Moon	119900-04-15 10:31 G	45513739.71	45513739.94	45513740.16	0.0139	0.0071 *
Moon	119901-04-19 22:17 G	45514109.19	45514109.43	45514109.67	0.0139	0.0033
Earth	119901-04-20 00:26 G	45514109.28	45514109.52	45514109.77	0.0139	0.0033 *
Earth	119902-04-24 15:19 G	45514479.07	45514479.14	45514479.24	0.0139	0.0130
Moon	119902-04-24 17:29 G	45514479.17	45514479.23	45514479.32	0.0139	0.0132 *
Venus	119930-10-09 14:36 G	45524874.08	45524874.11	45524874.15	0.0136	0.0133
Venus	119931-05-23 19:24 G	45525100.21	45525100.31	45525100.44	0.0136	0.0114
Venus	119932-01-05 00:41 G	45525326.39	45525326.53	45525326.69	0.0136	0.0094
Venus	119932-08-18 05:58 G	45525552.58	45525552.75	45525552.94	0.0136	0.0074

Venus	119933-04-01 11:29 G	45525778.78	45525778.98	45525779.17	0.0136	0.0054
Venus	119933-11-13 16:46 G	45526005.00	45526005.20	45526005.41	0.0136	0.0033
Venus	119934-06-27 22:31 G	45526231.23	45526231.44	45526231.65	0.0137	0.0013
Venus	119935-02-09 04:02 G	45526457.46	45526457.67	45526457.89	0.0137	0.0009
Venus	119935-09-23 09:48 G	45526683.71	45526683.91	45526684.12	0.0137	0.0029
Venus	119936-05-06 15:48 G	45526909.96	45526910.16	45526910.36	0.0137	0.0050
Venus	119936-12-18 21:48 G	45527136.23	45527136.41	45527136.60	0.0137	0.0071
Venus	119937-08-02 04:02 G	45527362.52	45527362.67	45527362.84	0.0137	0.0092
Venus	119938-03-16 10:17 G	45527588.83	45527588.93	45527589.07	0.0137	0.0113
Venus	119938-10-28 17:00 G	45527815.17	45527815.21	45527815.26	0.0137	0.0134
Mercury	119939-09-22 20:22 G	45528144.28	45528144.35	45528144.42	0.0138	0.0119
Mercury	119939-12-20 00:26 G	45528232.43	45528232.52	45528232.63	0.0138	0.0099
Mercury	119940-03-17 04:31 G	45528320.58	45528320.69	45528320.82	0.0138	0.0079
Mercury	119940-06-13 09:05 G	45528408.74	45528408.88	45528409.01	0.0138	0.0058
Mercury	119940-09-09 13:10 G	45528496.91	45528497.05	45528497.19	0.0138	0.0038
Mercury	119940-12-06 17:14 G	45528585.08	45528585.22	45528585.37	0.0138	0.0018
Mercury	119941-03-04 21:19 G	45528673.25	45528673.39	45528673.54	0.0138	0.0002
Mercury	119941-06-01 01:24 G	45528761.42	45528761.56	45528761.70	0.0138	0.0021
Mercury	119941-08-28 05:29 G	45528849.59	45528849.73	45528849.87	0.0138	0.0041
Mercury	119941-11-24 09:19 G	45528937.77	45528937.89	45528938.03	0.0138	0.0061
Mercury	119942-02-20 13:24 G	45529025.95	45529026.06	45529026.18	0.0138	0.0080
Mercury	119942-05-19 17:29 G	45529114.13	45529114.23	45529114.33	0.0138	0.0100
Mercury	119942-08-15 21:05 G	45529202.32	45529202.38	45529202.46	0.0138	0.0120
Mercury	119942-11-12 01:10 G	45529290.55	45529290.55	45529290.56	0.0139	0.0138
Moon	119943-10-11 23:14 G	45529624.26	45529624.47	45529624.70	0.0139	0.0062
Earth	119943-10-12 00:26 G	45529624.30	45529624.52	45529624.77	0.0139	0.0055 *
Earth	119944-10-15 16:17 G	45529993.94	45529994.18	45529994.43	0.0139	0.0044
Moon	119944-10-15 18:26 G	45529994.03	45529994.27	45529994.52	0.0139	0.0050 *
Moon	119945-10-20 06:12 G	45530363.74	45530363.76	45530363.83	0.0139	0.0138
Mars	119955-07-13 06:41 G	45533916.57	45533916.78	45533917.01	0.0142	0.0096

Venus	119972-04-21 01:10 G	45540043.50	45540043.55	45540043.63	0.0142	0.0135
Venus	119972-12-03 13:38 G	45540269.95	45540270.07	45540270.22	0.0142	0.0111
Venus	119973-07-18 01:53 G	45540496.42	45540496.58	45540496.77	0.0142	0.0087
Venus	119974-03-01 13:53 G	45540722.89	45540723.08	45540723.29	0.0142	0.0063
Venus	119974-10-14 01:53 G	45540949.37	45540949.58	45540949.80	0.0142	0.0039
Venus	119975-05-28 13:53 G	45541175.86	45541176.08	45541176.30	0.0141	0.0014
Venus	119976-01-10 01:38 G	45541402.35	45541402.57	45541402.79	0.0141	0.0010
Venus	119976-08-23 12:55 G	45541628.83	45541629.04	45541629.26	0.0141	0.0034
Venus	119977-04-07 00:12 G	45541855.32	45541855.51	45541855.72	0.0141	0.0058
Venus	119977-11-19 11:43 G	45542081.81	45542081.99	45542082.17	0.0141	0.0081
Venus	119978-07-03 22:17 G	45542308.30	45542308.43	45542308.60	0.0141	0.0105
Venus	119979-02-15 09:19 G	45542534.82	45542534.89	45542535.00	0.0141	0.0128
Mercury	119980-07-09 08:50 G	45543044.81	45543044.87	45543044.95	0.0140	0.0128
Mercury	119980-10-05 14:36 G	45543133.01	45543133.11	45543133.24	0.0140	0.0105
Mercury	119981-01-01 20:50 G	45543221.23	45543221.37	45543221.51	0.0140	0.0080
Mercury	119981-03-31 02:50 G	45543309.47	45543309.62	45543309.78	0.0140	0.0056
Mercury	119981-06-27 08:50 G	45543397.71	45543397.87	45543398.04	0.0140	0.0032
Mercury	119981-09-23 14:50 G	45543485.95	45543486.12	45543486.29	0.0140	0.0008
Mercury	119981-12-20 21:05 G	45543574.21	45543574.38	45543574.55	0.0140	0.0017
Mercury	119982-03-19 03:05 G	45543662.47	45543662.63	45543662.80	0.0140	0.0041
Mercury	119982-06-15 09:19 G	45543750.74	45543750.89	45543751.04	0.0140	0.0066
Mercury	119982-09-11 15:19 G	45543839.02	45543839.14	45543839.28	0.0140	0.0091
Mercury	119982-12-08 21:34 G	45543927.32	45543927.40	45543927.51	0.0140	0.0115
Earth	119984-04-15 17:43 G	45544421.02	45544421.24	45544421.47	0.0139	0.0063
Moon	119984-04-15 21:34 G	45544421.18	45544421.40	45544421.62	0.0139	0.0068 *
Moon	119985-04-20 05:58 G	45544790.52	45544790.75	45544791.00	0.0139	0.0042
Earth	119985-04-20 09:34 G	45544790.66	45544790.90	45544791.15	0.0139	0.0036 *
Earth	119986-04-25 00:26 G	45545160.46	45545160.52	45545160.60	0.0139	0.0133
Moon	119986-04-25 03:34 G	45545160.57	45545160.65	45545160.78	0.0139	0.0126 *
Mars	119996-01-30 05:29 G	45548727.43	45548727.73	45548728.06	0.0136	0.0020

121ST MILLENNIUM CE

This is a list of transits visible from Uranus in the 121st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	120015-01-21 05:14	G	45555658.64	45555658.72	45555658.83	0.0136	0.0122	
Venus	120015-09-04 10:31	G	45555884.81	45555884.94	45555885.08	0.0136	0.0102	
Venus	120016-04-17 15:34	G	45556110.99	45556111.15	45556111.33	0.0136	0.0083	
Venus	120016-11-29 20:50	G	45556337.19	45556337.37	45556337.57	0.0136	0.0062	
Venus	120017-07-14 02:22	G	45556563.40	45556563.60	45556563.81	0.0136	0.0042	
Venus	120018-02-25 07:53	G	45556789.62	45556789.83	45556790.05	0.0136	0.0021	
Venus	120018-10-09 13:38	G	45557015.85	45557016.07	45557016.28	0.0137	0.0001	
Venus	120019-05-23 19:24	G	45557242.10	45557242.31	45557242.52	0.0137	0.0021	
Venus	120020-01-05 01:10	G	45557468.35	45557468.55	45557468.76	0.0137	0.0042	
Venus	120020-08-18 07:10	G	45557694.62	45557694.80	45557695.00	0.0137	0.0063	
Venus	120021-04-01 13:24	G	45557920.90	45557921.06	45557921.23	0.0137	0.0084	
Venus	120021-11-13 19:38	G	45558147.19	45558147.32	45558147.47	0.0137	0.0105	
Venus	120022-06-28 02:07	G	45558373.52	45558373.59	45558373.69	0.0137	0.0127	
Mercury	120023-07-16 23:14	G	45558757.44	45558757.47	45558757.51	0.0138	0.0134	
Mercury	120023-10-13 03:19	G	45558845.57	45558845.64	45558845.73	0.0138	0.0114	
Mercury	120024-01-09 07:38	G	45558933.72	45558933.82	45558933.93	0.0138	0.0093	
Mercury	120024-04-06 11:58	G	45559021.88	45559022.00	45559022.13	0.0138	0.0073	
Mercury	120024-07-03 16:02	G	45559110.04	45559110.17	45559110.31	0.0138	0.0053	

Mercury	120024-09-29 20:22	G	45559198.21	45559198.35	45559198.49	0.0138	0.0033
Mercury	120024-12-27 00:26	G	45559286.37	45559286.52	45559286.66	0.0138	0.0013
Mercury	120025-03-25 04:31	G	45559374.55	45559374.69	45559374.84	0.0138	0.0007
Mercury	120025-06-21 08:36	G	45559462.72	45559462.86	45559463.00	0.0138	0.0027
Mercury	120025-09-17 12:41	G	45559550.89	45559551.03	45559551.16	0.0138	0.0046
Mercury	120025-12-14 16:31	G	45559639.07	45559639.19	45559639.32	0.0138	0.0066
Mercury	120026-03-12 20:36	G	45559727.25	45559727.36	45559727.47	0.0138	0.0085
Mercury	120026-06-09 00:41	G	45559815.44	45559815.53	45559815.62	0.0138	0.0105
Mercury	120026-09-05 04:17	G	45559903.63	45559903.68	45559903.75	0.0139	0.0125
Moon	120027-10-12 06:26	G	45560305.55	45560305.77	45560306.03	0.0139	0.0047
Earth	120027-10-12 10:17	G	45560305.71	45560305.93	45560306.18	0.0139	0.0051 *
Earth	120028-10-16 02:07	G	45560675.35	45560675.59	45560675.83	0.0139	0.0048
Moon	120028-10-16 05:29	G	45560675.49	45560675.73	45560675.97	0.0139	0.0047 *
Venus	120056-08-02 19:10	G	45570828.19	45570828.30	45570828.42	0.0142	0.0121
Venus	120057-03-17 07:24	G	45571054.66	45571054.81	45571054.98	0.0142	0.0097
Venus	120057-10-29 19:24	G	45571281.13	45571281.31	45571281.51	0.0142	0.0073
Venus	120058-06-13 07:24	G	45571507.61	45571507.81	45571508.03	0.0142	0.0049
Venus	120059-01-25 19:24	G	45571734.10	45571734.31	45571734.54	0.0141	0.0025
Venus	120059-09-09 07:24	G	45571960.59	45571960.81	45571961.03	0.0141	0.0001
Venus	120060-04-22 18:55	G	45572187.07	45572187.29	45572187.51	0.0141	0.0024
Venus	120060-12-05 06:26	G	45572413.57	45572413.77	45572413.98	0.0141	0.0048
Venus	120061-07-19 17:43	G	45572640.06	45572640.24	45572640.44	0.0141	0.0072
Venus	120062-03-03 04:46	G	45572866.55	45572866.70	45572866.87	0.0141	0.0096
Venus	120062-10-15 15:48	G	45573093.05	45573093.16	45573093.29	0.0141	0.0119
Mercury	120064-07-29 16:02	G	45573746.09	45573746.17	45573746.26	0.0140	0.0122
Mercury	120064-10-25 21:48	G	45573834.30	45573834.41	45573834.54	0.0140	0.0098
Mercury	120065-01-22 03:48	G	45573922.52	45573922.66	45573922.81	0.0140	0.0074
Mercury	120065-04-20 09:48	G	45574010.76	45574010.91	45574011.07	0.0140	0.0050
Mercury	120065-07-17 16:02	G	45574099.00	45574099.17	45574099.33	0.0140	0.0026
Mercury	120065-10-13 22:02	G	45574187.25	45574187.42	45574187.59	0.0140	0.0002

Mercury	120066-01-10 04:02 G	45574275.50	45574275.67	45574275.84	0.0140	0.0023
Mercury	120066-04-08 10:17 G	45574363.77	45574363.93	45574364.09	0.0140	0.0047
Mercury	120066-07-05 16:17 G	45574452.04	45574452.18	45574452.33	0.0140	0.0072
Mercury	120066-10-01 22:17 G	45574540.32	45574540.43	45574540.57	0.0140	0.0097
Mercury	120066-12-29 04:31 G	45574628.62	45574628.69	45574628.79	0.0140	0.0122
Earth	120068-04-16 03:19 G	45575102.41	45575102.64	45575102.87	0.0139	0.0059
Moon	120068-04-16 03:48 G	45575102.45	45575102.66	45575102.90	0.0139	0.0053 *
Moon	120069-04-20 18:12 G	45575472.00	45575472.26	45575472.51	0.0139	0.0033
Earth	120069-04-20 19:10 G	45575472.06	45575472.30	45575472.54	0.0139	0.0039 *
Earth	120070-04-25 09:48 G	45575841.88	45575841.91	45575841.97	0.0139	0.0136
Venus	120098-09-20 15:19 G	45586217.09	45586217.14	45586217.20	0.0136	0.0130
Venus	120099-05-04 20:07 G	45586443.23	45586443.34	45586443.48	0.0136	0.0111
Venus	120099-12-17 01:10 G	45586669.41	45586669.55	45586669.73	0.0136	0.0091
Venus	120100-07-31 06:41 G	45586895.61	45586895.78	45586895.97	0.0136	0.0070
Venus	120101-03-14 11:58 G	45587121.81	45587122.00	45587122.21	0.0136	0.0050
Venus	120101-10-26 17:29 G	45587348.03	45587348.23	45587348.44	0.0136	0.0029
Venus	120102-06-09 23:14 G	45587574.26	45587574.47	45587574.69	0.0137	0.0009
Venus	120103-01-22 05:00 G	45587800.50	45587800.71	45587800.92	0.0137	0.0013
Venus	120103-09-05 10:46 G	45588026.75	45588026.95	45588027.16	0.0137	0.0034
Venus	120104-04-18 16:46 G	45588253.01	45588253.20	45588253.40	0.0137	0.0055
Venus	120104-11-30 22:46 G	45588479.28	45588479.45	45588479.63	0.0137	0.0076
Venus	120105-07-15 05:14 G	45588705.57	45588705.72	45588705.87	0.0137	0.0097
Venus	120106-02-26 11:29 G	45588931.89	45588931.98	45588932.10	0.0137	0.0119
Mercury	120107-08-07 06:12 G	45589458.72	45589458.76	45589458.82	0.0138	0.0129
Mercury	120107-11-03 10:31 G	45589546.86	45589546.94	45589547.04	0.0138	0.0109
Mercury	120108-01-30 14:50 G	45589635.01	45589635.12	45589635.24	0.0138	0.0088
Mercury	120108-04-27 18:55 G	45589723.17	45589723.29	45589723.43	0.0138	0.0068
Mercury	120108-07-24 23:14 G	45589811.33	45589811.47	45589811.61	0.0138	0.0048
Mercury	120108-10-21 03:19 G	45589899.50	45589899.64	45589899.79	0.0138	0.0028
Mercury	120109-01-17 07:38 G	45589987.67	45589987.82	45589987.96	0.0138	0.0009

Mercury	120109-04-15 11:43 G	45590075.84	45590075.99	45590076.13	0.0138	0.0012
Mercury	120109-07-12 15:34 G	45590164.01	45590164.15	45590164.30	0.0138	0.0032
Mercury	120109-10-08 19:38 G	45590252.19	45590252.32	45590252.46	0.0138	0.0052
Mercury	120110-01-04 23:29 G	45590340.37	45590340.48	45590340.62	0.0138	0.0072
Mercury	120110-04-03 03:34 G	45590428.55	45590428.65	45590428.77	0.0138	0.0091
Mercury	120110-06-30 07:38 G	45590516.74	45590516.82	45590516.91	0.0138	0.0110
Mercury	120110-09-26 11:43 G	45590604.94	45590604.99	45590605.04	0.0139	0.0129
Moon	120111-10-13 18:41 G	45590987.04	45590987.28	45590987.55	0.0139	0.0042
Earth	120111-10-13 19:53 G	45590987.10	45590987.33	45590987.58	0.0139	0.0047 *
Earth	120112-10-17 11:29 G	45591356.75	45591356.98	45591357.22	0.0139	0.0051
Moon	120112-10-17 12:41 G	45591356.81	45591357.03	45591357.28	0.0139	0.0045 *
Mars	120122-11-30 08:50 G	45595052.59	45595052.87	45595053.17	0.0142	0.0032
Venus	120140-04-03 00:12 G	45601386.44	45601386.51	45601386.60	0.0142	0.0132
Venus	120140-11-15 12:26 G	45601612.89	45601613.02	45601613.18	0.0142	0.0108
Venus	120141-06-30 00:41 G	45601839.37	45601839.53	45601839.73	0.0142	0.0084
Venus	120142-02-11 12:55 G	45602065.85	45602066.04	45602066.25	0.0142	0.0059
Venus	120142-09-26 00:55 G	45602292.33	45602292.54	45602292.76	0.0142	0.0034
Venus	120143-05-10 12:55 G	45602518.82	45602519.04	45602519.26	0.0141	0.0010
Venus	120143-12-23 00:41 G	45602745.31	45602745.53	45602745.75	0.0141	0.0014
Venus	120144-08-05 11:58 G	45602971.80	45602972.00	45602972.23	0.0141	0.0039
Venus	120145-03-19 23:29 G	45603198.29	45603198.48	45603198.69	0.0141	0.0063
Venus	120145-11-01 10:46 G	45603424.78	45603424.95	45603425.13	0.0141	0.0086
Venus	120146-06-15 21:48 G	45603651.28	45603651.41	45603651.56	0.0141	0.0110
Venus	120147-01-28 08:50 G	45603877.81	45603877.87	45603877.95	0.0140	0.0133
Mercury	120148-05-23 17:14 G	45604359.21	45604359.22	45604359.23	0.0140	0.0140
Mercury	120148-08-19 22:46 G	45604447.37	45604447.45	45604447.55	0.0140	0.0116
Mercury	120148-11-16 05:00 G	45604535.58	45604535.71	45604535.83	0.0140	0.0093
Mercury	120149-02-12 10:46 G	45604623.81	45604623.95	45604624.10	0.0140	0.0069
Mercury	120149-05-11 16:46 G	45604712.04	45604712.20	45604712.36	0.0140	0.0045
Mercury	120149-08-07 22:46 G	45604800.28	45604800.45	45604800.62	0.0140	0.0021

Mercury	120149-11-04 04:46 G	45604888.53	45604888.70	45604888.88	0.0140	0.0005
Mercury	120150-01-31 11:00 G	45604976.79	45604976.96	45604977.13	0.0140	0.0028
Mercury	120150-04-29 17:00 G	45605065.05	45605065.21	45605065.37	0.0140	0.0052
Mercury	120150-07-26 23:14 G	45605153.33	45605153.47	45605153.61	0.0140	0.0077
Mercury	120150-10-23 05:14 G	45605241.61	45605241.72	45605241.85	0.0140	0.0102
Mercury	120151-01-19 11:29 G	45605329.92	45605329.98	45605330.06	0.0139	0.0126
Moon	120152-04-17 09:19 G	45605783.67	45605783.89	45605784.13	0.0139	0.0058
Earth	120152-04-17 11:58 G	45605783.77	45605784.00	45605784.24	0.0139	0.0057 *
Earth	120153-04-22 03:34 G	45606153.42	45606153.65	45606153.90	0.0139	0.0042
Moon	120153-04-22 06:41 G	45606153.54	45606153.78	45606154.04	0.0139	0.0037 *
Earth	120154-04-26 18:41 G	45606523.27	45606523.28	45606523.30	0.0139	0.0138
Venus	120183-01-03 05:58 G	45617001.66	45617001.75	45617001.86	0.0136	0.0119
Venus	120183-08-17 11:00 G	45617227.82	45617227.96	45617228.11	0.0136	0.0099
Venus	120184-03-30 16:02 G	45617454.01	45617454.17	45617454.36	0.0136	0.0079
Venus	120184-11-11 21:34 G	45617680.21	45617680.40	45617680.60	0.0136	0.0059
Venus	120185-06-26 03:19 G	45617906.43	45617906.64	45617906.84	0.0136	0.0038
Venus	120186-02-07 08:50 G	45618132.66	45618132.87	45618133.08	0.0137	0.0017
Venus	120186-09-21 14:22 G	45618358.89	45618359.10	45618359.32	0.0137	0.0005
Venus	120187-05-05 20:07 G	45618585.13	45618585.34	45618585.55	0.0137	0.0026
Venus	120187-12-18 01:53 G	45618811.39	45618811.58	45618811.79	0.0137	0.0047
Venus	120188-07-31 08:07 G	45619037.66	45619037.84	45619038.03	0.0137	0.0068
Venus	120189-03-14 14:22 G	45619263.94	45619264.10	45619264.27	0.0137	0.0089
Venus	120189-10-26 20:36 G	45619490.24	45619490.36	45619490.49	0.0137	0.0111
Venus	120190-06-10 03:05 G	45619716.58	45619716.63	45619716.70	0.0137	0.0132
Mercury	120191-08-27 13:24 G	45620160.00	45620160.06	45620160.13	0.0138	0.0124
Mercury	120191-11-23 17:29 G	45620248.15	45620248.23	45620248.34	0.0138	0.0104
Mercury	120192-02-19 22:02 G	45620336.30	45620336.42	45620336.54	0.0138	0.0083
Mercury	120192-05-18 02:07 G	45620424.46	45620424.59	45620424.72	0.0138	0.0063
Mercury	120192-08-14 06:12 G	45620512.63	45620512.76	45620512.91	0.0138	0.0043
Mercury	120192-11-10 10:31 G	45620600.79	45620600.94	45620601.08	0.0138	0.0023

Mercury	120193-02-06 14:36 G	45620688.96	45620689.11	45620689.26	0.0138	0.0003
Mercury	120193-05-05 18:41 G	45620777.14	45620777.28	45620777.42	0.0138	0.0017
Mercury	120193-08-01 22:46 G	45620865.31	45620865.45	45620865.59	0.0138	0.0037
Mercury	120193-10-29 02:36 G	45620953.49	45620953.61	45620953.75	0.0138	0.0057
Mercury	120194-01-25 06:55 G	45621041.67	45621041.79	45621041.91	0.0138	0.0076
Mercury	120194-04-23 10:46 G	45621129.85	45621129.95	45621130.06	0.0138	0.0095
Mercury	120194-07-20 14:36 G	45621218.04	45621218.11	45621218.20	0.0138	0.0115
Moon	120194-10-09 11:29 G	45621298.93	45621298.98	45621299.07	0.0139	0.0133
Mercury	120194-10-16 18:41 G	45621306.25	45621306.28	45621306.32	0.0139	0.0134
Earth	120195-10-14 05:29 G	45621668.49	45621668.73	45621668.97	0.0139	0.0043
Moon	120195-10-14 08:07 G	45621668.60	45621668.84	45621669.09	0.0139	0.0049 *
Moon	120196-10-17 17:29 G	45622038.02	45622038.23	45622038.47	0.0139	0.0058
Earth	120196-10-17 21:05 G	45622038.14	45622038.38	45622038.61	0.0139	0.0054 *
Mars	120207-07-27 09:05 G	45625971.85	45625971.88	45625971.93	0.0142	0.0140
Venus	120224-07-16 17:58 G	45632171.14	45632171.25	45632171.38	0.0142	0.0118
Venus	120225-02-28 06:12 G	45632397.60	45632397.76	45632397.93	0.0142	0.0094
Venus	120225-10-12 18:12 G	45632624.08	45632624.26	45632624.47	0.0142	0.0070
Venus	120226-05-27 06:26 G	45632850.56	45632850.77	45632850.99	0.0142	0.0045
Venus	120227-01-08 18:26 G	45633077.06	45633077.27	45633077.50	0.0141	0.0021
Venus	120227-08-23 06:26 G	45633303.54	45633303.77	45633303.99	0.0141	0.0005
Venus	120228-04-05 17:58 G	45633530.03	45633530.25	45633530.47	0.0141	0.0029
Venus	120228-11-18 05:14 G	45633756.53	45633756.72	45633756.94	0.0141	0.0053
Venus	120229-07-02 16:46 G	45633983.02	45633983.20	45633983.39	0.0141	0.0077
Venus	120230-02-14 03:48 G	45634209.52	45634209.66	45634209.83	0.0141	0.0101
Venus	120230-09-28 14:50 G	45634436.03	45634436.12	45634436.24	0.0141	0.0124
Mercury	120232-06-13 23:58 G	45635060.46	45635060.50	45635060.55	0.0140	0.0134
Mercury	120232-09-10 05:43 G	45635148.65	45635148.74	45635148.85	0.0140	0.0111
Mercury	120232-12-07 11:43 G	45635236.86	45635236.99	45635237.13	0.0140	0.0087
Mercury	120233-03-05 17:43 G	45635325.09	45635325.24	45635325.39	0.0140	0.0063
Mercury	120233-06-01 23:43 G	45635413.33	45635413.49	45635413.65	0.0140	0.0039

Mercury	120233-08-29 05:43 G	45635501.57	45635501.74	45635501.91	0.0140	0.0015
Mercury	120233-11-25 11:43 G	45635589.82	45635589.99	45635590.16	0.0140	0.0009
Mercury	120234-02-21 17:43 G	45635678.08	45635678.24	45635678.41	0.0140	0.0034
Mercury	120234-05-20 23:58 G	45635766.34	45635766.50	45635766.66	0.0140	0.0058
Mercury	120234-08-17 05:58 G	45635854.62	45635854.75	45635854.90	0.0140	0.0082
Mercury	120234-11-13 12:12 G	45635942.91	45635943.01	45635943.12	0.0140	0.0107
Mercury	120235-02-09 18:26 G	45636031.22	45636031.27	45636031.33	0.0140	0.0132
Moon	120236-04-18 17:43 G	45636465.02	45636465.24	45636465.48	0.0139	0.0062
Earth	120236-04-18 21:05 G	45636465.15	45636465.38	45636465.62	0.0139	0.0054 *
Earth	120237-04-23 12:41 G	45636834.79	45636835.03	45636835.28	0.0139	0.0044
Moon	120237-04-23 15:19 G	45636834.92	45636835.14	45636835.38	0.0139	0.0051 *
Moon	120238-04-28 00:41 G	45637204.50	45637204.53	45637204.60	0.0139	0.0136
Mars	120248-02-12 18:12 G	45640781.95	45640782.26	45640782.58	0.0136	0.0020
Venus	120266-09-03 15:34 G	45647560.10	45647560.15	45647560.24	0.0136	0.0128
Venus	120267-04-17 20:36 G	45647786.25	45647786.36	45647786.51	0.0136	0.0109
Venus	120267-11-30 02:07 G	45648012.43	45648012.59	45648012.76	0.0136	0.0088
Venus	120268-07-13 07:24 G	45648238.63	45648238.81	45648239.00	0.0136	0.0067
Venus	120269-02-24 12:55 G	45648464.84	45648465.04	45648465.24	0.0136	0.0046
Venus	120269-10-08 18:26 G	45648691.06	45648691.27	45648691.48	0.0136	0.0025
Venus	120270-05-23 00:12 G	45648917.29	45648917.51	45648917.72	0.0137	0.0005
Venus	120271-01-04 05:58 G	45649143.53	45649143.75	45649143.96	0.0137	0.0017
Venus	120271-08-18 11:29 G	45649369.79	45649369.98	45649370.20	0.0137	0.0039
Venus	120272-03-31 17:29 G	45649596.05	45649596.23	45649596.43	0.0137	0.0060
Venus	120272-11-12 23:29 G	45649822.32	45649822.48	45649822.66	0.0137	0.0081
Venus	120273-06-27 05:58 G	45650048.62	45650048.75	45650048.90	0.0137	0.0103
Venus	120274-02-08 12:26 G	45650274.93	45650275.02	45650275.11	0.0137	0.0124
Mercury	120275-09-17 20:36 G	45650861.29	45650861.36	45650861.44	0.0138	0.0119
Mercury	120275-12-15 00:41 G	45650949.44	45650949.53	45650949.64	0.0138	0.0099
Mercury	120276-03-12 05:00 G	45651037.59	45651037.71	45651037.83	0.0138	0.0078
Mercury	120276-06-08 09:19 G	45651125.76	45651125.89	45651126.02	0.0138	0.0058

Mercury	120276-09-04 13:24 G	45651213.92	45651214.06	45651214.20	0.0138	0.0038
Mercury	120276-12-01 17:29 G	45651302.09	45651302.23	45651302.38	0.0138	0.0019
Mercury	120277-02-27 21:34 G	45651390.26	45651390.40	45651390.55	0.0138	0.0005
Mercury	120277-05-27 01:38 G	45651478.43	45651478.57	45651478.72	0.0138	0.0022
Mercury	120277-08-23 05:43 G	45651566.61	45651566.74	45651566.88	0.0138	0.0042
Mercury	120277-11-19 09:48 G	45651654.78	45651654.91	45651655.04	0.0138	0.0061
Mercury	120278-02-15 13:53 G	45651742.96	45651743.08	45651743.20	0.0138	0.0080
Mercury	120278-05-14 17:58 G	45651831.15	45651831.25	45651831.35	0.0138	0.0100
Mercury	120278-08-10 21:34 G	45651919.34	45651919.40	45651919.48	0.0139	0.0120
Moon	120278-10-10 20:50 G	45651980.34	45651980.37	45651980.45	0.0139	0.0136
Earth	120278-10-10 23:58 G	45651980.46	45651980.50	45651980.55	0.0139	0.0136
Mercury	120278-11-07 01:53 G	45652007.58	45652007.58	45652007.58	0.0139	0.0138
Earth	120279-10-15 14:36 G	45652349.88	45652350.11	45652350.36	0.0139	0.0040
Moon	120279-10-15 17:43 G	45652350.01	45652350.24	45652350.48	0.0139	0.0043 *
Moon	120280-10-19 03:34 G	45652719.43	45652719.65	45652719.89	0.0139	0.0064
Earth	120280-10-19 06:12 G	45652719.54	45652719.76	45652720.00	0.0139	0.0058 *
Jupiter	120284-06-22 00:12 G	45654061.17	45654061.51	45654061.89	0.0140	0.0097
Venus	120308-03-16 23:29 G	45662729.40	45662729.48	45662729.58	0.0142	0.0129
Venus	120308-10-29 11:43 G	45662955.85	45662955.99	45662956.15	0.0142	0.0105
Venus	120309-06-13 00:12 G	45663182.32	45663182.51	45663182.69	0.0142	0.0080
Venus	120310-01-25 12:12 G	45663408.81	45663409.01	45663409.22	0.0142	0.0056
Venus	120310-09-09 00:12 G	45663635.30	45663635.51	45663635.73	0.0141	0.0031
Venus	120311-04-23 12:12 G	45663861.78	45663862.01	45663862.23	0.0141	0.0006
Venus	120311-12-05 23:58 G	45664088.28	45664088.50	45664088.72	0.0141	0.0019
Venus	120312-07-19 11:29 G	45664314.77	45664314.98	45664315.19	0.0141	0.0043
Venus	120313-03-02 22:46 G	45664541.26	45664541.45	45664541.65	0.0141	0.0067
Venus	120313-10-15 10:02 G	45664767.76	45664767.92	45664768.09	0.0141	0.0091
Venus	120314-05-29 20:50 G	45664994.26	45664994.37	45664994.52	0.0141	0.0115
Venus	120315-01-11 08:07 G	45665220.81	45665220.84	45665220.89	0.0141	0.0138
Mercury	120316-07-05 06:41 G	45665761.73	45665761.78	45665761.86	0.0140	0.0130

Mercury	120316-10-01 12:55 G	45665849.93	45665850.04	45665850.15	0.0140	0.0105
Mercury	120316-12-28 18:26 G	45665938.15	45665938.27	45665938.42	0.0140	0.0083
Mercury	120317-03-27 00:41 G	45666026.38	45666026.53	45666026.68	0.0140	0.0058
Mercury	120317-06-23 06:41 G	45666114.61	45666114.78	45666114.94	0.0140	0.0034
Mercury	120317-09-19 12:26 G	45666202.86	45666203.02	45666203.20	0.0140	0.0011
Mercury	120317-12-16 18:41 G	45666291.11	45666291.28	45666291.45	0.0140	0.0014
Mercury	120318-03-15 00:26 G	45666379.36	45666379.52	45666379.69	0.0140	0.0039
Mercury	120318-06-11 06:41 G	45666467.63	45666467.78	45666467.94	0.0140	0.0063
Mercury	120318-09-07 12:41 G	45666555.91	45666556.03	45666556.17	0.0140	0.0088
Mercury	120318-12-04 18:55 G	45666644.20	45666644.29	45666644.40	0.0140	0.0112
Mercury	120319-03-03 01:10 G	45666732.52	45666732.55	45666732.59	0.0139	0.0136
Earth	120320-04-20 05:43 G	45667146.50	45667146.74	45667146.98	0.0139	0.0050
Moon	120320-04-20 07:24 G	45667146.58	45667146.81	45667147.07	0.0139	0.0050 *
Moon	120321-04-24 19:53 G	45667516.10	45667516.33	45667516.57	0.0139	0.0049
Earth	120321-04-24 21:34 G	45667516.16	45667516.40	45667516.64	0.0139	0.0047 *
Moon	120322-04-29 14:07 G	45667886.09	45667886.09	45667886.13	0.0139	0.0138
Venus	120350-12-17 06:26 G	45678344.67	45678344.77	45678344.89	0.0136	0.0117
Venus	120351-07-31 11:43 G	45678570.85	45678570.99	45678571.15	0.0136	0.0097
Venus	120352-03-13 16:46 G	45678797.04	45678797.20	45678797.39	0.0136	0.0077
Venus	120352-10-25 22:17 G	45679023.24	45679023.43	45679023.63	0.0136	0.0055
Venus	120353-06-09 04:02 G	45679249.47	45679249.67	45679249.88	0.0136	0.0034
Venus	120354-01-21 09:34 G	45679475.69	45679475.90	45679476.12	0.0137	0.0013
Venus	120354-09-04 15:19 G	45679701.93	45679702.14	45679702.35	0.0137	0.0008
Venus	120355-04-18 21:05 G	45679928.17	45679928.38	45679928.59	0.0137	0.0030
Venus	120355-12-01 02:50 G	45680154.43	45680154.62	45680154.82	0.0137	0.0051
Venus	120356-07-14 08:50 G	45680380.70	45680380.87	45680381.06	0.0137	0.0073
Venus	120357-02-25 14:50 G	45680606.98	45680607.12	45680607.29	0.0137	0.0095
Venus	120357-10-09 21:05 G	45680833.28	45680833.38	45680833.51	0.0137	0.0116
Venus	120358-05-24 03:34 G	45681059.64	45681059.65	45681059.68	0.0138	0.0137
Mercury	120359-07-12 23:14 G	45681474.45	45681474.47	45681474.51	0.0138	0.0135

Mercury	120359-10-09 03:48 G	45681562.58	45681562.66	45681562.74	0.0138	0.0114
Mercury	120360-01-05 07:53 G	45681650.73	45681650.83	45681650.94	0.0138	0.0094
Mercury	120360-04-02 11:58 G	45681738.88	45681739.00	45681739.13	0.0138	0.0074
Mercury	120360-06-29 16:17 G	45681827.05	45681827.18	45681827.32	0.0138	0.0054
Mercury	120360-09-25 20:22 G	45681915.21	45681915.35	45681915.50	0.0138	0.0034
Mercury	120360-12-23 00:41 G	45682003.38	45682003.53	45682003.67	0.0138	0.0014
Mercury	120361-03-21 04:46 G	45682091.55	45682091.70	45682091.85	0.0138	0.0006
Mercury	120361-06-17 08:50 G	45682179.73	45682179.87	45682180.01	0.0138	0.0026
Mercury	120361-09-13 12:41 G	45682267.90	45682268.03	45682268.18	0.0138	0.0047
Mercury	120361-12-10 17:00 G	45682356.08	45682356.21	45682356.34	0.0138	0.0066
Mercury	120362-03-08 20:50 G	45682444.26	45682444.37	45682444.49	0.0138	0.0085
Mercury	120362-06-05 00:55 G	45682532.45	45682532.54	45682532.64	0.0139	0.0105
Mercury	120362-09-01 05:00 G	45682620.65	45682620.71	45682620.77	0.0139	0.0124
Earth	120362-10-12 09:05 G	45682661.82	45682661.88	45682661.97	0.0139	0.0132
Moon	120362-10-12 11:58 G	45682661.99	45682662.00	45682662.05	0.0139	0.0138
Moon	120363-10-16 21:05 G	45683031.14	45683031.38	45683031.63	0.0139	0.0031
Earth	120363-10-17 00:12 G	45683031.27	45683031.51	45683031.77	0.0139	0.0036 *
Earth	120364-10-20 15:48 G	45683400.94	45683401.16	45683401.39	0.0139	0.0062
Moon	120364-10-20 18:41 G	45683401.06	45683401.28	45683401.52	0.0139	0.0061 *
Mars	120374-12-14 11:58 G	45687107.70	45687108.00	45687108.29	0.0142	0.0010
Venus	120391-11-15 04:46 G	45693287.68	45693287.70	45693287.75	0.0142	0.0140
Venus	120392-06-28 17:14 G	45693514.10	45693514.22	45693514.36	0.0142	0.0116
Venus	120393-02-10 05:43 G	45693740.57	45693740.74	45693740.91	0.0142	0.0091
Venus	120393-09-24 17:43 G	45693967.05	45693967.24	45693967.45	0.0142	0.0066
Venus	120394-05-09 05:58 G	45694193.54	45694193.75	45694193.97	0.0141	0.0041
Venus	120394-12-21 18:12 G	45694420.04	45694420.26	45694420.48	0.0141	0.0017
Venus	120395-08-05 05:58 G	45694646.53	45694646.75	45694646.97	0.0141	0.0008
Venus	120396-03-18 17:29 G	45694873.02	45694873.23	45694873.45	0.0141	0.0033
Venus	120396-10-31 05:00 G	45695099.51	45695099.71	45695099.91	0.0141	0.0057
Venus	120397-06-14 16:17 G	45695326.01	45695326.18	45695326.37	0.0141	0.0081

Venus	120398-01-27 03:34 G	45695552.51	45695552.65	45695552.80	0.0141	0.0105
Venus	120398-09-10 14:22 G	45695779.03	45695779.10	45695779.20	0.0141	0.0129
Mercury	120400-07-25 13:53 G	45696463.01	45696463.08	45696463.17	0.0140	0.0124
Mercury	120400-10-21 19:38 G	45696551.22	45696551.32	45696551.45	0.0140	0.0100
Mercury	120401-01-18 01:38 G	45696639.44	45696639.57	45696639.72	0.0140	0.0076
Mercury	120401-04-16 07:24 G	45696727.67	45696727.81	45696727.98	0.0140	0.0053
Mercury	120401-07-13 13:38 G	45696815.90	45696816.07	45696816.23	0.0140	0.0029
Mercury	120401-10-09 19:38 G	45696904.15	45696904.32	45696904.49	0.0140	0.0005
Mercury	120402-01-06 01:38 G	45696992.40	45696992.57	45696992.74	0.0140	0.0020
Mercury	120402-04-04 07:38 G	45697080.66	45697080.82	45697080.98	0.0140	0.0044
Mercury	120402-07-01 13:38 G	45697168.92	45697169.07	45697169.22	0.0140	0.0068
Mercury	120402-09-27 19:38 G	45697257.20	45697257.32	45697257.46	0.0140	0.0093
Mercury	120402-12-25 01:38 G	45697345.49	45697345.57	45697345.68	0.0140	0.0118
Earth	120404-04-20 14:50 G	45697827.89	45697828.12	45697828.37	0.0139	0.0047
Moon	120404-04-20 16:02 G	45697827.93	45697828.17	45697828.40	0.0139	0.0042 *
Moon	120405-04-25 05:29 G	45698197.50	45698197.73	45698197.99	0.0139	0.0048
Earth	120405-04-25 06:41 G	45698197.55	45698197.78	45698198.03	0.0139	0.0051 *
Mars	120415-07-01 22:02 G	45701917.24	45701917.42	45701917.62	0.0137	0.0110
Venus	120434-08-16 16:02 G	45708903.11	45708903.17	45708903.27	0.0136	0.0126
Venus	120435-03-30 21:34 G	45709129.27	45709129.40	45709129.53	0.0136	0.0105
Venus	120435-11-12 02:36 G	45709355.45	45709355.61	45709355.79	0.0136	0.0085
Venus	120436-06-25 08:07 G	45709581.66	45709581.84	45709582.04	0.0136	0.0064
Venus	120437-02-06 13:38 G	45709807.87	45709808.07	45709808.28	0.0136	0.0043
Venus	120437-09-20 19:10 G	45710034.09	45710034.30	45710034.51	0.0136	0.0022
Venus	120438-05-05 00:55 G	45710260.32	45710260.54	45710260.75	0.0137	0.0002
Venus	120438-12-17 06:26 G	45710486.56	45710486.77	45710486.99	0.0137	0.0021
Venus	120439-07-31 12:12 G	45710712.82	45710713.01	45710713.22	0.0137	0.0043
Venus	120440-03-13 18:12 G	45710939.08	45710939.26	45710939.46	0.0137	0.0064
Venus	120440-10-26 00:12 G	45711165.35	45711165.51	45711165.68	0.0137	0.0086
Venus	120441-06-09 06:12 G	45711391.65	45711391.76	45711391.91	0.0137	0.0108

Venus	120442-01-21 12:41 G	45711617.97	45711618.03	45711618.11	0.0137	0.0129
Mercury	120443-08-02 06:12 G	45712175.72	45712175.76	45712175.82	0.0138	0.0130
Mercury	120443-10-29 10:31 G	45712263.86	45712263.94	45712264.04	0.0138	0.0110
Mercury	120444-01-25 15:05 G	45712352.01	45712352.13	45712352.24	0.0138	0.0089
Mercury	120444-04-22 19:10 G	45712440.18	45712440.30	45712440.43	0.0138	0.0069
Mercury	120444-07-19 23:14 G	45712528.34	45712528.47	45712528.61	0.0138	0.0049
Mercury	120444-10-16 03:34 G	45712616.51	45712616.65	45712616.79	0.0138	0.0029
Mercury	120445-01-12 07:38 G	45712704.68	45712704.82	45712704.97	0.0138	0.0010
Mercury	120445-04-10 11:58 G	45712792.85	45712793.00	45712793.14	0.0138	0.0012
Mercury	120445-07-07 15:48 G	45712881.02	45712881.16	45712881.31	0.0138	0.0031
Mercury	120445-10-03 20:07 G	45712969.20	45712969.34	45712969.47	0.0138	0.0051
Mercury	120445-12-30 23:58 G	45713057.38	45713057.50	45713057.63	0.0138	0.0070
Mercury	120446-03-29 04:02 G	45713145.56	45713145.67	45713145.78	0.0138	0.0090
Mercury	120446-06-25 07:53 G	45713233.75	45713233.83	45713233.93	0.0139	0.0110
Mercury	120446-09-21 11:58 G	45713321.96	45713322.00	45713322.06	0.0139	0.0129
Earth	120446-10-12 18:41 G	45713343.20	45713343.28	45713343.39	0.0139	0.0128
Moon	120446-10-12 17:58 G	45713343.22	45713343.25	45713343.33	0.0139	0.0135 *
Earth	120447-10-17 09:48 G	45713712.67	45713712.91	45713713.16	0.0139	0.0031
Moon	120447-10-17 11:14 G	45713712.71	45713712.97	45713713.23	0.0139	0.0024 *
Moon	120448-10-21 00:26 G	45714082.31	45714082.52	45714082.76	0.0139	0.0061
Earth	120448-10-21 01:38 G	45714082.35	45714082.57	45714082.79	0.0139	0.0066 *
Venus	120476-02-26 22:46 G	45724072.36	45724072.45	45724072.56	0.0142	0.0127
Venus	120476-10-10 11:14 G	45724298.82	45724298.97	45724299.13	0.0142	0.0102
Venus	120477-05-24 23:43 G	45724525.30	45724525.49	45724525.67	0.0142	0.0077
Venus	120478-01-06 11:43 G	45724751.79	45724751.99	45724752.21	0.0141	0.0052
Venus	120478-08-20 23:43 G	45724978.28	45724978.49	45724978.72	0.0141	0.0028
Venus	120479-04-04 11:43 G	45725204.77	45725204.99	45725205.21	0.0141	0.0003
Venus	120479-11-16 23:29 G	45725431.26	45725431.48	45725431.70	0.0141	0.0023
Venus	120480-06-30 11:00 G	45725657.76	45725657.96	45725658.18	0.0141	0.0047
Venus	120481-02-11 22:17 G	45725884.25	45725884.43	45725884.63	0.0141	0.0072

Venus	120481-09-26 09:34 G	45726110.75	45726110.90	45726111.07	0.0141	0.0096
Venus	120482-05-10 20:22 G	45726337.26	45726337.35	45726337.49	0.0141	0.0120
Mercury	120484-08-14 20:50 G	45727164.29	45727164.37	45727164.47	0.0140	0.0118
Mercury	120484-11-11 02:50 G	45727252.50	45727252.62	45727252.75	0.0140	0.0095
Mercury	120485-02-07 08:36 G	45727340.72	45727340.86	45727341.01	0.0140	0.0071
Mercury	120485-05-06 14:36 G	45727428.95	45727429.11	45727429.27	0.0140	0.0047
Mercury	120485-08-02 20:22 G	45727517.19	45727517.35	45727517.53	0.0140	0.0024
Mercury	120485-10-30 02:36 G	45727605.44	45727605.61	45727605.78	0.0140	0.0002
Mercury	120486-01-26 08:36 G	45727693.69	45727693.86	45727694.03	0.0140	0.0025
Mercury	120486-04-24 14:36 G	45727781.95	45727782.11	45727782.27	0.0140	0.0049
Mercury	120486-07-21 20:22 G	45727870.22	45727870.35	45727870.51	0.0140	0.0074
Mercury	120486-10-18 02:36 G	45727958.50	45727958.61	45727958.74	0.0140	0.0098
Mercury	120487-01-14 08:36 G	45728046.79	45728046.86	45728046.96	0.0139	0.0123
Moon	120488-04-20 21:19 G	45728509.15	45728509.39	45728509.65	0.0139	0.0036
Earth	120488-04-21 00:26 G	45728509.28	45728509.52	45728509.77	0.0139	0.0043 *
Earth	120489-04-25 15:48 G	45728878.94	45728879.16	45728879.41	0.0139	0.0055
Moon	120489-04-25 19:10 G	45728879.06	45728879.30	45728879.53	0.0139	0.0048 *
Mars	120500-02-25 01:24 G	45732836.29	45732836.56	45732836.87	0.0136	0.0056
Venus	120518-04-17 01:24 G	45739461.55	45739461.56	45739461.60	0.0136	0.0135
Venus	120518-11-29 06:55 G	45739687.68	45739687.79	45739687.90	0.0136	0.0115
Venus	120519-07-13 11:58 G	45739913.86	45739914.00	45739914.16	0.0136	0.0094
Venus	120520-02-24 17:14 G	45740140.05	45740140.22	45740140.41	0.0136	0.0074
Venus	120520-10-07 22:46 G	45740366.26	45740366.45	45740366.65	0.0136	0.0052
Venus	120521-05-22 04:17 G	45740592.48	45740592.68	45740592.89	0.0136	0.0031
Venus	120522-01-03 10:02 G	45740818.71	45740818.92	45740819.13	0.0137	0.0010
Venus	120522-08-17 15:34 G	45741044.94	45741045.15	45741045.37	0.0137	0.0012
Venus	120523-03-31 21:19 G	45741271.18	45741271.39	45741271.60	0.0137	0.0034
Venus	120523-11-13 03:05 G	45741497.44	45741497.63	45741497.83	0.0137	0.0055
Venus	120524-06-26 09:05 G	45741723.71	45741723.88	45741724.07	0.0137	0.0077
Venus	120525-02-07 15:05 G	45741950.00	45741950.13	45741950.29	0.0137	0.0099

Venus	120525-09-21 21:34 G	45742176.30	45742176.40	45742176.50	0.0137	0.0120
Mercury	120527-08-23 13:10 G	45742877.00	45742877.05	45742877.12	0.0138	0.0126
Mercury	120527-11-19 17:43 G	45742965.14	45742965.24	45742965.33	0.0138	0.0105
Mercury	120528-02-15 21:48 G	45743053.30	45743053.41	45743053.53	0.0138	0.0085
Mercury	120528-05-14 02:07 G	45743141.46	45743141.59	45743141.72	0.0138	0.0065
Mercury	120528-08-10 06:12 G	45743229.63	45743229.76	45743229.91	0.0138	0.0045
Mercury	120528-11-06 10:31 G	45743317.80	45743317.94	45743318.09	0.0138	0.0025
Mercury	120529-02-02 14:36 G	45743405.97	45743406.11	45743406.26	0.0138	0.0006
Mercury	120529-05-01 18:55 G	45743494.14	45743494.29	45743494.43	0.0138	0.0016
Mercury	120529-07-28 23:00 G	45743582.32	45743582.46	45743582.60	0.0138	0.0035
Mercury	120529-10-25 02:50 G	45743670.50	45743670.62	45743670.76	0.0138	0.0056
Mercury	120530-01-21 07:10 G	45743758.68	45743758.80	45743758.92	0.0138	0.0075
Mercury	120530-04-19 11:00 G	45743846.86	45743846.96	45743847.07	0.0139	0.0095
Mercury	120530-07-16 15:05 G	45743935.05	45743935.13	45743935.21	0.0139	0.0114
Mercury	120530-10-12 18:55 G	45744023.26	45744023.29	45744023.34	0.0139	0.0134
Moon	120530-10-14 01:38 G	45744024.49	45744024.57	45744024.69	0.0139	0.0128
Earth	120530-10-14 03:48 G	45744024.57	45744024.66	45744024.79	0.0139	0.0124 *
Earth	120531-10-18 19:10 G	45744394.06	45744394.30	45744394.56	0.0139	0.0028
Moon	120531-10-18 20:36 G	45744394.12	45744394.36	45744394.60	0.0139	0.0020 *
Moon	120532-10-22 09:19 G	45744763.66	45744763.89	45744764.13	0.0139	0.0063
Earth	120532-10-22 11:00 G	45744763.75	45744763.96	45744764.19	0.0139	0.0070 *
Mars	120542-05-03 15:05 G	45748243.97	45748244.13	45748244.30	0.0141	0.0118
Venus	120559-10-28 04:31 G	45754630.64	45754630.69	45754630.75	0.0142	0.0137
Venus	120560-06-10 16:46 G	45754857.08	45754857.20	45754857.35	0.0142	0.0113
Venus	120561-01-23 05:14 G	45755083.55	45755083.72	45755083.90	0.0142	0.0088
Venus	120561-09-06 17:29 G	45755310.03	45755310.23	45755310.43	0.0142	0.0063
Venus	120562-04-21 05:29 G	45755536.52	45755536.73	45755536.95	0.0141	0.0038
Venus	120562-12-03 17:43 G	45755763.02	45755763.24	45755763.46	0.0141	0.0013
Venus	120563-07-18 05:29 G	45755989.51	45755989.73	45755989.95	0.0141	0.0012
Venus	120564-02-29 17:00 G	45756216.00	45756216.21	45756216.43	0.0141	0.0037

Venus	120564-10-13 04:17 G	45756442.49	45756442.68	45756442.89	0.0141	0.0062
Venus	120565-05-27 15:48 G	45756668.99	45756669.16	45756669.34	0.0141	0.0086
Venus	120566-01-09 03:05 G	45756895.50	45756895.63	45756895.77	0.0141	0.0110
Venus	120566-08-23 13:38 G	45757122.02	45757122.07	45757122.16	0.0141	0.0134
Mercury	120568-06-08 22:17 G	45757777.39	45757777.43	45757777.47	0.0140	0.0136
Mercury	120568-09-05 04:02 G	45757865.58	45757865.67	45757865.77	0.0140	0.0112
Mercury	120568-12-02 09:48 G	45757953.79	45757953.91	45757954.04	0.0140	0.0089
Mercury	120569-02-28 15:34 G	45758042.01	45758042.15	45758042.31	0.0140	0.0066
Mercury	120569-05-27 21:34 G	45758130.24	45758130.40	45758130.56	0.0140	0.0042
Mercury	120569-08-24 03:34 G	45758218.48	45758218.65	45758218.82	0.0140	0.0018
Mercury	120569-11-20 09:34 G	45758306.73	45758306.90	45758307.07	0.0140	0.0006
Mercury	120570-02-16 15:19 G	45758394.98	45758395.14	45758395.31	0.0140	0.0031
Mercury	120570-05-15 21:19 G	45758483.24	45758483.39	45758483.56	0.0140	0.0055
Mercury	120570-08-12 03:34 G	45758571.51	45758571.65	45758571.79	0.0140	0.0079
Mercury	120570-11-08 09:34 G	45758659.79	45758659.90	45758660.02	0.0139	0.0104
Mercury	120571-02-04 15:34 G	45758748.10	45758748.15	45758748.23	0.0139	0.0128
Earth	120571-04-18 17:14 G	45758821.19	45758821.22	45758821.27	0.0139	0.0138
Earth	120572-04-22 09:48 G	45759190.67	45759190.91	45759191.16	0.0139	0.0039
Moon	120572-04-22 13:10 G	45759190.81	45759191.05	45759191.31	0.0139	0.0033 *
Moon	120573-04-26 22:02 G	45759560.19	45759560.42	45759560.66	0.0139	0.0050
Earth	120573-04-27 01:53 G	45759560.35	45759560.58	45759560.81	0.0139	0.0058 *
Venus	120602-07-30 16:17 G	45770246.11	45770246.18	45770246.28	0.0136	0.0123
Venus	120603-03-13 21:19 G	45770472.27	45770472.39	45770472.55	0.0136	0.0103
Venus	120603-10-26 02:36 G	45770698.46	45770698.61	45770698.80	0.0136	0.0083
Venus	120604-06-08 08:07 G	45770924.66	45770924.84	45770925.04	0.0136	0.0061
Venus	120605-01-20 13:53 G	45771150.88	45771151.08	45771151.28	0.0136	0.0040
Venus	120605-09-03 19:10 G	45771377.09	45771377.30	45771377.52	0.0137	0.0019
Venus	120606-04-18 00:41 G	45771603.32	45771603.53	45771603.75	0.0137	0.0005
Venus	120606-11-30 06:26 G	45771829.56	45771829.77	45771829.98	0.0137	0.0025
Venus	120607-07-14 12:12 G	45772055.82	45772056.01	45772056.22	0.0137	0.0047

Venus	120608-02-25 18:12 G	45772282.08	45772282.26	45772282.45	0.0137	0.0068
Venus	120608-10-09 00:12 G	45772508.35	45772508.51	45772508.67	0.0137	0.0090
Venus	120609-05-23 05:58 G	45772734.64	45772734.75	45772734.89	0.0137	0.0112
Venus	120610-01-04 12:26 G	45772960.98	45772961.02	45772961.08	0.0137	0.0133
Mercury	120611-09-13 20:22 G	45773578.28	45773578.35	45773578.42	0.0138	0.0121
Mercury	120611-12-11 00:26 G	45773666.43	45773666.52	45773666.63	0.0138	0.0101
Mercury	120612-03-08 04:46 G	45773754.59	45773754.70	45773754.82	0.0138	0.0081
Mercury	120612-06-04 09:05 G	45773842.75	45773842.88	45773843.01	0.0138	0.0060
Mercury	120612-08-31 13:24 G	45773930.92	45773931.06	45773931.20	0.0138	0.0040
Mercury	120612-11-27 17:29 G	45774019.09	45774019.23	45774019.38	0.0138	0.0020
Mercury	120613-02-23 21:48 G	45774107.26	45774107.41	45774107.55	0.0138	0.0004
Mercury	120613-05-23 01:53 G	45774195.43	45774195.58	45774195.72	0.0138	0.0020
Mercury	120613-08-19 05:58 G	45774283.61	45774283.75	45774283.89	0.0138	0.0040
Mercury	120613-11-15 10:02 G	45774371.79	45774371.92	45774372.05	0.0138	0.0060
Mercury	120614-02-11 14:07 G	45774459.97	45774460.09	45774460.21	0.0138	0.0079
Mercury	120614-05-10 17:58 G	45774548.16	45774548.25	45774548.36	0.0138	0.0099
Mercury	120614-08-06 22:02 G	45774636.35	45774636.42	45774636.50	0.0139	0.0119
Earth	120614-10-15 12:55 G	45774705.93	45774706.04	45774706.18	0.0139	0.0121
Moon	120614-10-15 16:31 G	45774706.08	45774706.19	45774706.33	0.0139	0.0121 *
Mercury	120614-11-03 02:07 G	45774724.58	45774724.59	45774724.60	0.0139	0.0138
Moon	120615-10-20 01:10 G	45775075.30	45775075.55	45775075.81	0.0139	0.0020
Earth	120615-10-20 04:31 G	45775075.44	45775075.69	45775075.94	0.0139	0.0024 *
Earth	120616-10-23 20:07 G	45775445.13	45775445.34	45775445.56	0.0139	0.0074
Moon	120616-10-23 23:29 G	45775445.27	45775445.48	45775445.71	0.0139	0.0067 *
Mars	120626-12-28 11:43 G	45779162.73	45779162.99	45779163.28	0.0142	0.0053
Venus	120644-02-09 22:31 G	45785415.33	45785415.44	45785415.55	0.0142	0.0123
Venus	120644-09-23 10:31 G	45785641.80	45785641.94	45785642.12	0.0142	0.0099
Venus	120645-05-07 22:46 G	45785868.28	45785868.45	45785868.66	0.0142	0.0074
Venus	120645-12-20 11:29 G	45786094.77	45786094.98	45786095.19	0.0141	0.0048
Venus	120646-08-03 23:29 G	45786321.26	45786321.48	45786321.70	0.0141	0.0023

Venus	120647-03-18 11:14 G	45786547.75	45786547.97	45786548.20	0.0141	0.0003
Venus	120647-10-30 23:00 G	45786774.24	45786774.46	45786774.68	0.0141	0.0027
Venus	120648-06-13 10:17 G	45787000.73	45787000.93	45787001.15	0.0141	0.0052
Venus	120649-01-25 21:34 G	45787227.23	45787227.40	45787227.61	0.0141	0.0077
Venus	120649-09-09 08:50 G	45787453.73	45787453.87	45787454.04	0.0141	0.0101
Venus	120650-04-23 19:38 G	45787680.24	45787680.32	45787680.44	0.0141	0.0125
Mercury	120652-06-30 05:00 G	45788478.66	45788478.71	45788478.78	0.0140	0.0131
Mercury	120652-09-26 10:46 G	45788566.86	45788566.95	45788567.07	0.0140	0.0107
Mercury	120652-12-23 16:31 G	45788655.07	45788655.19	45788655.34	0.0140	0.0084
Mercury	120653-03-21 22:31 G	45788743.30	45788743.44	45788743.60	0.0140	0.0060
Mercury	120653-06-18 04:31 G	45788831.53	45788831.69	45788831.86	0.0140	0.0036
Mercury	120653-09-14 10:31 G	45788919.77	45788919.94	45788920.11	0.0140	0.0012
Mercury	120653-12-11 16:31 G	45789008.02	45789008.19	45789008.36	0.0140	0.0012
Mercury	120654-03-09 22:31 G	45789096.27	45789096.44	45789096.60	0.0140	0.0036
Mercury	120654-06-06 04:17 G	45789184.54	45789184.68	45789184.84	0.0140	0.0061
Mercury	120654-09-02 10:31 G	45789272.81	45789272.94	45789273.08	0.0139	0.0084
Mercury	120654-11-29 16:31 G	45789361.09	45789361.19	45789361.30	0.0139	0.0109
Mercury	120655-02-25 22:46 G	45789449.41	45789449.45	45789449.50	0.0139	0.0134
Earth	120655-04-20 02:22 G	45789502.55	45789502.60	45789502.68	0.0139	0.0134
Moon	120655-04-20 04:46 G	45789502.64	45789502.70	45789502.78	0.0139	0.0134 *
Moon	120656-04-23 17:14 G	45789871.99	45789872.22	45789872.47	0.0139	0.0034
Earth	120656-04-23 19:10 G	45789872.06	45789872.30	45789872.56	0.0139	0.0036 *
Earth	120657-04-28 11:00 G	45790241.74	45790241.96	45790242.19	0.0139	0.0061
Moon	120657-04-28 13:24 G	45790241.84	45790242.06	45790242.32	0.0139	0.0055 *
Mars	120667-07-15 06:41 G	45793971.52	45793971.78	45793972.07	0.0136	0.0073
Venus	120686-03-30 01:38 G	45800804.53	45800804.57	45800804.63	0.0136	0.0132
Venus	120686-11-11 06:26 G	45801030.67	45801030.77	45801030.91	0.0136	0.0113
Venus	120687-06-25 11:58 G	45801256.86	45801257.00	45801257.17	0.0136	0.0091
Venus	120688-02-06 17:14 G	45801483.05	45801483.22	45801483.42	0.0136	0.0070
Venus	120688-09-19 22:46 G	45801709.25	45801709.45	45801709.65	0.0136	0.0049

Venus	120689-05-04 04:02 G	45801935.47	45801935.67	45801935.89	0.0136	0.0028
Venus	120689-12-16 09:48 G	45802161.69	45802161.91	45802162.12	0.0137	0.0006
Venus	120690-07-30 15:19 G	45802387.93	45802388.14	45802388.36	0.0137	0.0016
Venus	120691-03-13 20:50 G	45802614.17	45802614.37	45802614.59	0.0137	0.0038
Venus	120691-10-26 02:50 G	45802840.43	45802840.62	45802840.81	0.0137	0.0059
Venus	120692-06-08 08:36 G	45803066.70	45803066.86	45803067.04	0.0137	0.0081
Venus	120693-01-20 14:50 G	45803292.98	45803293.12	45803293.27	0.0137	0.0103
Venus	120693-09-03 20:50 G	45803519.29	45803519.37	45803519.47	0.0137	0.0124
Mercury	120695-07-07 22:46 G	45804191.45	45804191.45	45804191.46	0.0138	0.0138
Mercury	120695-10-04 03:05 G	45804279.56	45804279.63	45804279.71	0.0138	0.0117
Mercury	120695-12-31 07:24 G	45804367.71	45804367.81	45804367.92	0.0138	0.0097
Mercury	120696-03-28 11:43 G	45804455.87	45804455.99	45804456.12	0.0138	0.0076
Mercury	120696-06-24 16:02 G	45804544.04	45804544.17	45804544.30	0.0138	0.0056
Mercury	120696-09-20 20:07 G	45804632.20	45804632.34	45804632.49	0.0138	0.0036
Mercury	120696-12-18 00:26 G	45804720.37	45804720.52	45804720.67	0.0138	0.0016
Mercury	120697-03-16 04:31 G	45804808.55	45804808.69	45804808.84	0.0138	0.0006
Mercury	120697-06-12 08:50 G	45804896.72	45804896.87	45804897.01	0.0138	0.0025
Mercury	120697-09-08 12:55 G	45804984.90	45804985.04	45804985.18	0.0138	0.0044
Mercury	120697-12-05 16:46 G	45805073.08	45805073.20	45805073.34	0.0138	0.0065
Mercury	120698-03-03 21:05 G	45805161.27	45805161.38	45805161.49	0.0138	0.0084
Mercury	120698-05-31 00:55 G	45805249.45	45805249.54	45805249.64	0.0138	0.0104
Mercury	120698-08-27 05:14 G	45805337.65	45805337.72	45805337.78	0.0139	0.0123
Moon	120698-10-15 18:26 G	45805387.15	45805387.27	45805387.43	0.0139	0.0114
Earth	120698-10-15 21:48 G	45805387.30	45805387.41	45805387.56	0.0139	0.0118 *
Earth	120699-10-20 13:24 G	45805756.81	45805757.06	45805757.31	0.0139	0.0021
Moon	120699-10-20 16:31 G	45805756.94	45805757.19	45805757.45	0.0139	0.0021 *
Moon	120700-10-25 01:24 G	45806126.36	45806126.56	45806126.79	0.0139	0.0073
Earth	120700-10-25 05:00 G	45806126.51	45806126.71	45806126.94	0.0139	0.0077 *
Venus	120727-10-11 03:48 G	45815973.60	45815973.66	45815973.74	0.0142	0.0134
Venus	120728-05-24 16:17 G	45816200.05	45816200.18	45816200.33	0.0142	0.0109

Venus	120729-01-06 04:46 G	45816426.53	45816426.70	45816426.88	0.0142	0.0084
Venus	120729-08-20 17:00 G	45816653.01	45816653.21	45816653.42	0.0142	0.0059
Venus	120730-04-04 05:00 G	45816879.50	45816879.71	45816879.93	0.0141	0.0033
Venus	120730-11-16 17:00 G	45817105.99	45817106.21	45817106.43	0.0141	0.0008
Venus	120731-07-01 04:46 G	45817332.48	45817332.70	45817332.92	0.0141	0.0017
Venus	120732-02-12 16:17 G	45817558.97	45817559.18	45817559.40	0.0141	0.0042
Venus	120732-09-26 03:34 G	45817785.47	45817785.65	45817785.86	0.0141	0.0067
Venus	120733-05-10 14:50 G	45818011.96	45818012.12	45818012.30	0.0141	0.0091
Venus	120733-12-23 02:07 G	45818238.47	45818238.59	45818238.72	0.0141	0.0115
Venus	120734-08-06 12:55 G	45818465.02	45818465.04	45818465.09	0.0141	0.0139
Mercury	120736-07-21 11:58 G	45819179.94	45819180.00	45819180.09	0.0140	0.0125
Mercury	120736-10-17 17:58 G	45819268.14	45819268.25	45819268.37	0.0140	0.0101
Mercury	120737-01-13 23:43 G	45819356.36	45819356.49	45819356.63	0.0140	0.0078
Mercury	120737-04-12 05:29 G	45819444.58	45819444.73	45819444.89	0.0140	0.0055
Mercury	120737-07-09 11:29 G	45819532.82	45819532.98	45819533.15	0.0140	0.0031
Mercury	120737-10-05 17:29 G	45819621.06	45819621.23	45819621.40	0.0140	0.0007
Mercury	120738-01-01 23:29 G	45819709.31	45819709.48	45819709.65	0.0140	0.0017
Mercury	120738-03-31 05:29 G	45819797.57	45819797.73	45819797.89	0.0140	0.0042
Mercury	120738-06-27 11:29 G	45819885.83	45819885.98	45819886.13	0.0139	0.0066
Mercury	120738-09-23 17:29 G	45819974.11	45819974.23	45819974.36	0.0139	0.0090
Mercury	120738-12-20 23:43 G	45820062.39	45820062.49	45820062.59	0.0139	0.0115
Mercury	120739-03-19 05:58 G	45820150.75	45820150.75	45820150.75	0.0139	0.0139
Earth	120739-04-21 12:12 G	45820183.93	45820184.01	45820184.10	0.0139	0.0131
Moon	120739-04-21 12:26 G	45820183.93	45820184.02	45820184.13	0.0139	0.0127 *
Moon	120740-04-25 04:02 G	45820553.42	45820553.67	45820553.93	0.0139	0.0035
Earth	120740-04-25 04:46 G	45820553.46	45820553.70	45820553.95	0.0139	0.0033 *
Earth	120741-04-29 20:22 G	45820923.14	45820923.35	45820923.59	0.0139	0.0065
Moon	120741-04-29 20:22 G	45820923.15	45820923.35	45820923.58	0.0139	0.0063 *
Mars	120752-03-10 12:26 G	45824890.79	45824891.02	45824891.25	0.0136	0.0095
Venus	120770-07-12 16:46 G	45831589.11	45831589.20	45831589.30	0.0136	0.0121

Venus	120771-02-23 21:34 G	45831815.27	45831815.40	45831815.56	0.0136	0.0100
Venus	120771-10-08 02:50 G	45832041.46	45832041.62	45832041.80	0.0136	0.0079
Venus	120772-05-21 08:22 G	45832267.66	45832267.85	45832268.04	0.0136	0.0058
Venus	120773-01-02 13:38 G	45832493.87	45832494.07	45832494.28	0.0136	0.0036
Venus	120773-08-16 19:10 G	45832720.09	45832720.30	45832720.51	0.0137	0.0015
Venus	120774-03-31 00:26 G	45832946.31	45832946.52	45832946.74	0.0137	0.0008
Venus	120774-11-12 05:58 G	45833172.55	45833172.75	45833172.97	0.0137	0.0029
Venus	120775-06-26 11:58 G	45833398.81	45833399.00	45833399.20	0.0137	0.0050
Venus	120776-02-07 17:43 G	45833625.07	45833625.24	45833625.43	0.0137	0.0072
Venus	120776-09-20 23:29 G	45833851.34	45833851.48	45833851.65	0.0137	0.0094
Venus	120777-05-05 05:43 G	45834077.64	45834077.74	45834077.86	0.0137	0.0116
Venus	120777-12-17 11:58 G	45834304.00	45834304.00	45834304.02	0.0137	0.0137
Mercury	120779-07-29 05:43 G	45834892.71	45834892.74	45834892.78	0.0138	0.0133
Mercury	120779-10-25 10:02 G	45834980.84	45834980.92	45834981.01	0.0138	0.0113
Mercury	120780-01-21 14:22 G	45835069.00	45835069.10	45835069.22	0.0138	0.0092
Mercury	120780-04-18 18:41 G	45835157.16	45835157.28	45835157.41	0.0138	0.0072
Mercury	120780-07-15 23:00 G	45835245.33	45835245.46	45835245.60	0.0138	0.0051
Mercury	120780-10-12 03:19 G	45835333.49	45835333.64	45835333.78	0.0138	0.0031
Mercury	120781-01-08 07:24 G	45835421.67	45835421.81	45835421.96	0.0138	0.0011
Mercury	120781-04-06 11:43 G	45835509.84	45835509.99	45835510.13	0.0138	0.0010
Mercury	120781-07-03 15:48 G	45835598.02	45835598.16	45835598.30	0.0138	0.0029
Mercury	120781-09-29 19:53 G	45835686.20	45835686.33	45835686.47	0.0138	0.0049
Mercury	120781-12-26 23:58 G	45835774.38	45835774.50	45835774.63	0.0138	0.0069
Mercury	120782-03-25 04:02 G	45835862.56	45835862.67	45835862.78	0.0138	0.0089
Mercury	120782-06-21 07:53 G	45835950.75	45835950.83	45835950.93	0.0139	0.0109
Mercury	120782-09-17 11:58 G	45836038.96	45836039.00	45836039.06	0.0139	0.0128
Earth	120782-10-17 06:55 G	45836068.67	45836068.79	45836068.95	0.0139	0.0115
Moon	120782-10-17 09:19 G	45836068.75	45836068.89	45836069.07	0.0139	0.0109 *
Moon	120783-10-21 19:53 G	45836438.10	45836438.33	45836438.59	0.0139	0.0021
Earth	120783-10-21 22:31 G	45836438.19	45836438.44	45836438.69	0.0139	0.0018 *

Earth	120784-10-25 13:53 G	45836807.89	45836808.08	45836808.30	0.0139	0.0080
Moon	120784-10-25 17:00 G	45836808.01	45836808.21	45836808.44	0.0139	0.0077 *
Mars	120794-05-17 14:36 G	45840298.88	45840299.11	45840299.37	0.0141	0.0080
Venus	120812-01-22 21:48 G	45846758.31	45846758.41	45846758.54	0.0142	0.0120
Venus	120812-09-05 10:17 G	45846984.77	45846984.93	45846985.10	0.0142	0.0095
Venus	120813-04-19 22:17 G	45847211.25	45847211.43	45847211.64	0.0142	0.0070
Venus	120813-12-02 10:31 G	45847437.74	45847437.94	45847438.17	0.0142	0.0045
Venus	120814-07-16 22:46 G	45847664.23	45847664.45	45847664.67	0.0141	0.0019
Venus	120815-02-28 10:31 G	45847890.72	45847890.94	45847891.17	0.0141	0.0007
Venus	120815-10-12 22:17 G	45848117.21	45848117.43	45848117.64	0.0141	0.0032
Venus	120816-05-26 09:48 G	45848343.70	45848343.91	45848344.11	0.0141	0.0057
Venus	120817-01-07 21:05 G	45848570.20	45848570.38	45848570.57	0.0141	0.0081
Venus	120817-08-22 08:22 G	45848796.71	45848796.85	45848797.00	0.0141	0.0105
Venus	120818-04-05 19:24 G	45849023.23	45849023.31	45849023.40	0.0141	0.0129
Mercury	120820-08-10 19:10 G	45849881.22	45849881.30	45849881.39	0.0140	0.0119
Mercury	120820-11-07 00:55 G	45849969.42	45849969.54	45849969.67	0.0140	0.0096
Mercury	120821-02-03 06:55 G	45850057.64	45850057.79	45850057.93	0.0140	0.0072
Mercury	120821-05-02 12:41 G	45850145.87	45850146.03	45850146.19	0.0140	0.0049
Mercury	120821-07-29 18:41 G	45850234.11	45850234.28	45850234.44	0.0140	0.0025
Mercury	120821-10-26 00:26 G	45850322.35	45850322.52	45850322.69	0.0140	0.0002
Mercury	120822-01-22 06:26 G	45850410.60	45850410.77	45850410.94	0.0140	0.0023
Mercury	120822-04-20 12:12 G	45850498.86	45850499.01	45850499.18	0.0140	0.0048
Mercury	120822-07-17 18:26 G	45850587.13	45850587.27	45850587.42	0.0139	0.0072
Mercury	120822-10-14 00:12 G	45850675.40	45850675.51	45850675.65	0.0139	0.0097
Mercury	120823-01-10 06:26 G	45850763.70	45850763.77	45850763.87	0.0139	0.0121
Moon	120823-04-21 21:05 G	45850865.28	45850865.38	45850865.52	0.0139	0.0123
Earth	120823-04-21 21:19 G	45850865.31	45850865.39	45850865.51	0.0139	0.0127 *
Earth	120824-04-25 14:22 G	45851234.85	45851235.10	45851235.35	0.0139	0.0029
Moon	120824-04-25 14:50 G	45851234.88	45851235.12	45851235.36	0.0139	0.0030 *
Earth	120825-04-30 05:58 G	45851604.54	45851604.75	45851604.98	0.0139	0.0068

Moon	120825-04-30 06:26 G	45851604.54	45851604.77	45851605.01	0.0139	0.0064	*
Venus	120854-03-12 01:38 G	45862147.53	45862147.57	45862147.65	0.0136	0.0131	
Venus	120854-10-24 06:55 G	45862373.68	45862373.79	45862373.93	0.0136	0.0109	
Venus	120855-06-07 12:12 G	45862599.86	45862600.01	45862600.18	0.0136	0.0088	
Venus	120856-01-19 17:14 G	45862826.05	45862826.22	45862826.42	0.0136	0.0068	
Venus	120856-09-01 22:46 G	45863052.25	45863052.45	45863052.65	0.0136	0.0046	
Venus	120857-04-16 04:02 G	45863278.46	45863278.67	45863278.88	0.0137	0.0024	
Venus	120857-11-28 09:34 G	45863504.69	45863504.90	45863505.11	0.0137	0.0003	
Venus	120858-07-12 15:19 G	45863730.93	45863731.14	45863731.35	0.0137	0.0019	
Venus	120859-02-23 20:50 G	45863957.17	45863957.37	45863957.58	0.0137	0.0041	
Venus	120859-10-08 02:22 G	45864183.42	45864183.60	45864183.80	0.0137	0.0063	
Venus	120860-05-21 08:07 G	45864409.69	45864409.84	45864410.03	0.0137	0.0086	
Venus	120861-01-02 14:36 G	45864635.98	45864636.11	45864636.25	0.0137	0.0107	
Venus	120861-08-16 20:36 G	45864862.30	45864862.36	45864862.45	0.0137	0.0129	
Mercury	120863-08-18 12:41 G	45865593.99	45865594.03	45865594.09	0.0138	0.0129	
Mercury	120863-11-14 17:00 G	45865682.13	45865682.21	45865682.31	0.0138	0.0108	
Mercury	120864-02-10 21:19 G	45865770.28	45865770.39	45865770.51	0.0138	0.0088	
Mercury	120864-05-09 01:38 G	45865858.45	45865858.57	45865858.70	0.0138	0.0068	
Mercury	120864-08-05 05:58 G	45865946.61	45865946.75	45865946.89	0.0138	0.0047	
Mercury	120864-11-01 10:17 G	45866034.79	45866034.93	45866035.07	0.0138	0.0027	
Mercury	120865-01-28 14:22 G	45866122.96	45866123.10	45866123.25	0.0138	0.0008	
Mercury	120865-04-26 18:41 G	45866211.13	45866211.28	45866211.42	0.0138	0.0014	
Mercury	120865-07-23 22:46 G	45866299.31	45866299.45	45866299.59	0.0138	0.0034	
Mercury	120865-10-20 02:50 G	45866387.49	45866387.62	45866387.76	0.0138	0.0054	
Mercury	120866-01-16 06:55 G	45866475.67	45866475.79	45866475.92	0.0138	0.0073	
Mercury	120866-04-14 10:46 G	45866563.86	45866563.95	45866564.07	0.0139	0.0094	
Mercury	120866-07-11 15:05 G	45866652.05	45866652.13	45866652.22	0.0139	0.0113	
Mercury	120866-10-07 19:10 G	45866740.26	45866740.30	45866740.34	0.0139	0.0132	
Moon	120866-10-17 13:10 G	45866749.90	45866750.05	45866750.21	0.0139	0.0107	
Earth	120866-10-17 16:02 G	45866750.03	45866750.17	45866750.33	0.0139	0.0111	*

Earth	120867-10-22 07:10 G	45867119.55	45867119.80	45867120.06	0.0139	0.0015
Moon	120867-10-22 10:17 G	45867119.67	45867119.93	45867120.19	0.0139	0.0014 *
Moon	120868-10-25 19:24 G	45867489.12	45867489.31	45867489.53	0.0139	0.0079
Earth	120868-10-25 23:00 G	45867489.26	45867489.46	45867489.67	0.0139	0.0082 *
Mars	120879-01-10 12:26 G	45871217.81	45871218.02	45871218.26	0.0142	0.0092
Venus	120895-09-22 03:34 G	45877316.58	45877316.65	45877316.74	0.0142	0.0131
Venus	120896-05-05 15:48 G	45877543.03	45877543.16	45877543.32	0.0142	0.0106
Venus	120896-12-18 04:17 G	45877769.51	45877769.68	45877769.87	0.0142	0.0081
Venus	120897-08-01 16:46 G	45877995.99	45877996.20	45877996.40	0.0142	0.0055
Venus	120898-03-16 04:31 G	45878222.48	45878222.69	45878222.91	0.0142	0.0030
Venus	120898-10-28 16:31 G	45878448.97	45878449.19	45878449.41	0.0141	0.0004
Venus	120899-06-12 04:02 G	45878675.46	45878675.67	45878675.90	0.0141	0.0021
Venus	120900-01-24 15:48 G	45878901.95	45878902.16	45878902.37	0.0141	0.0046
Venus	120900-09-08 03:05 G	45879128.45	45879128.63	45879128.83	0.0141	0.0071
Venus	120901-04-22 14:07 G	45879354.95	45879355.09	45879355.27	0.0141	0.0096
Venus	120901-12-05 01:24 G	45879581.46	45879581.56	45879581.69	0.0141	0.0120
Mercury	120904-06-04 20:36 G	45880494.33	45880494.36	45880494.40	0.0140	0.0136
Mercury	120904-09-01 02:22 G	45880582.51	45880582.60	45880582.70	0.0140	0.0113
Mercury	120904-11-28 08:07 G	45880670.72	45880670.84	45880670.97	0.0140	0.0090
Mercury	120905-02-24 13:38 G	45880758.94	45880759.07	45880759.23	0.0140	0.0067
Mercury	120905-05-23 19:38 G	45880847.17	45880847.32	45880847.49	0.0140	0.0043
Mercury	120905-08-20 01:38 G	45880935.41	45880935.57	45880935.74	0.0140	0.0019
Mercury	120905-11-16 07:38 G	45881023.65	45881023.82	45881023.99	0.0140	0.0005
Mercury	120906-02-12 13:24 G	45881111.90	45881112.06	45881112.23	0.0140	0.0030
Mercury	120906-05-11 19:24 G	45881200.16	45881200.31	45881200.47	0.0140	0.0054
Mercury	120906-08-08 01:24 G	45881288.43	45881288.56	45881288.71	0.0139	0.0078
Mercury	120906-11-04 07:24 G	45881376.71	45881376.81	45881376.94	0.0139	0.0102
Mercury	120907-01-31 13:38 G	45881465.01	45881465.07	45881465.15	0.0139	0.0127
Moon	120907-04-23 07:10 G	45881546.68	45881546.80	45881546.92	0.0139	0.0122
Earth	120907-04-23 07:38 G	45881546.71	45881546.82	45881546.94	0.0139	0.0123 *

Earth	120908-04-27 00:12 G	45881916.26	45881916.51	45881916.76	0.0139	0.0025
Moon	120908-04-27 00:26 G	45881916.27	45881916.52	45881916.79	0.0139	0.0024 *
Moon	120909-05-01 14:50 G	45882285.90	45882286.12	45882286.34	0.0139	0.0066
Earth	120909-05-01 15:48 G	45882285.95	45882286.16	45882286.39	0.0139	0.0072 *
Mars	120919-07-28 15:48 G	45886025.85	45886026.16	45886026.48	0.0136	0.0034
Venus	120938-06-24 17:00 G	45892932.11	45892932.21	45892932.32	0.0136	0.0118
Venus	120939-02-05 22:02 G	45893158.28	45893158.42	45893158.57	0.0136	0.0098
Venus	120939-09-20 03:05 G	45893384.46	45893384.63	45893384.82	0.0136	0.0077
Venus	120940-05-03 08:07 G	45893610.66	45893610.84	45893611.05	0.0136	0.0056
Venus	120940-12-15 13:38 G	45893836.87	45893837.07	45893837.28	0.0136	0.0034
Venus	120941-07-29 19:10 G	45894063.09	45894063.30	45894063.52	0.0137	0.0012
Venus	120942-03-13 00:41 G	45894289.32	45894289.53	45894289.74	0.0137	0.0010
Venus	120942-10-25 06:12 G	45894515.56	45894515.76	45894515.97	0.0137	0.0032
Venus	120943-06-08 11:58 G	45894741.81	45894742.00	45894742.20	0.0137	0.0054
Venus	120944-01-20 17:43 G	45894968.07	45894968.24	45894968.43	0.0137	0.0076
Venus	120944-09-02 23:43 G	45895194.35	45895194.49	45895194.65	0.0137	0.0098
Venus	120945-04-17 05:58 G	45895420.65	45895420.75	45895420.86	0.0137	0.0120
Mercury	120947-09-08 19:38 G	45896295.27	45896295.32	45896295.40	0.0138	0.0124
Mercury	120947-12-06 00:12 G	45896383.42	45896383.51	45896383.61	0.0138	0.0103
Mercury	120948-03-03 04:31 G	45896471.58	45896471.69	45896471.81	0.0138	0.0083
Mercury	120948-05-30 08:50 G	45896559.74	45896559.87	45896560.00	0.0138	0.0062
Mercury	120948-08-26 13:10 G	45896647.91	45896648.05	45896648.19	0.0138	0.0042
Mercury	120948-11-22 17:14 G	45896736.08	45896736.22	45896736.37	0.0138	0.0023
Mercury	120949-02-18 21:34 G	45896824.25	45896824.40	45896824.55	0.0138	0.0002
Mercury	120949-05-18 01:38 G	45896912.43	45896912.57	45896912.72	0.0138	0.0019
Mercury	120949-08-14 05:58 G	45897000.61	45897000.75	45897000.89	0.0138	0.0039
Mercury	120949-11-10 10:02 G	45897088.79	45897088.92	45897089.05	0.0138	0.0058
Mercury	120950-02-06 13:53 G	45897176.97	45897177.08	45897177.21	0.0139	0.0079
Mercury	120950-05-05 18:12 G	45897265.16	45897265.26	45897265.36	0.0139	0.0098
Mercury	120950-08-01 22:02 G	45897353.36	45897353.42	45897353.50	0.0139	0.0118

Earth	120950-10-19 01:24 G	45897431.41	45897431.56	45897431.73	0.0139	0.0107
Moon	120950-10-19 05:00 G	45897431.55	45897431.71	45897431.88	0.0139	0.0105 *
Mercury	120950-10-29 02:07 G	45897441.58	45897441.59	45897441.62	0.0139	0.0137
Moon	120951-10-23 13:24 G	45897800.81	45897801.06	45897801.31	0.0139	0.0008
Earth	120951-10-23 16:46 G	45897800.95	45897801.20	45897801.45	0.0139	0.0011 *
Earth	120952-10-27 07:53 G	45898170.65	45898170.83	45898171.05	0.0139	0.0087
Moon	120952-10-27 11:58 G	45898170.80	45898171.00	45898171.21	0.0139	0.0080 *
Venus	120980-01-04 21:48 G	45908101.29	45908101.41	45908101.54	0.0142	0.0117
Venus	120980-08-18 10:02 G	45908327.76	45908327.92	45908328.10	0.0142	0.0092
Venus	120981-04-01 22:02 G	45908554.24	45908554.42	45908554.63	0.0142	0.0067
Venus	120981-11-14 10:17 G	45908780.72	45908780.93	45908781.15	0.0142	0.0041
Venus	120982-06-28 22:17 G	45909007.21	45909007.43	45909007.66	0.0141	0.0015
Venus	120983-02-10 10:17 G	45909233.71	45909233.93	45909234.15	0.0141	0.0010
Venus	120983-09-24 21:48 G	45909460.20	45909460.41	45909460.63	0.0141	0.0036
Venus	120984-05-08 09:05 G	45909686.70	45909686.88	45909687.10	0.0141	0.0061
Venus	120984-12-20 20:36 G	45909913.20	45909913.36	45909913.55	0.0141	0.0086
Venus	120985-08-04 08:07 G	45910139.71	45910139.84	45910139.98	0.0141	0.0110
Venus	120986-03-18 19:10 G	45910366.25	45910366.30	45910366.37	0.0141	0.0134
Mercury	120988-06-25 03:48 G	45911195.61	45911195.66	45911195.72	0.0140	0.0130
Mercury	120988-09-21 09:34 G	45911283.80	45911283.90	45911284.01	0.0140	0.0107
Mercury	120988-12-18 15:19 G	45911372.01	45911372.14	45911372.28	0.0140	0.0084
Mercury	120989-03-16 21:05 G	45911460.23	45911460.38	45911460.54	0.0140	0.0060
Mercury	120989-06-13 02:50 G	45911548.47	45911548.62	45911548.79	0.0140	0.0037
Mercury	120989-09-09 08:50 G	45911636.70	45911636.87	45911637.04	0.0140	0.0013
Mercury	120989-12-06 14:50 G	45911724.95	45911725.12	45911725.29	0.0140	0.0011
Mercury	120990-03-04 20:36 G	45911813.20	45911813.36	45911813.53	0.0140	0.0036
Mercury	120990-06-01 02:36 G	45911901.46	45911901.61	45911901.77	0.0139	0.0060
Mercury	120990-08-28 08:50 G	45911989.73	45911989.87	45911990.00	0.0139	0.0084
Mercury	120990-11-24 14:36 G	45912078.01	45912078.11	45912078.23	0.0139	0.0108
Mercury	120991-02-20 20:50 G	45912166.33	45912166.37	45912166.43	0.0139	0.0133

Earth	120991-04-23 17:29 G	45912228.11	45912228.23	45912228.38	0.0139	0.0118
Moon	120991-04-23 18:55 G	45912228.17	45912228.29	45912228.44	0.0139	0.0120 *
Moon	120992-04-27 09:05 G	45912597.64	45912597.88	45912598.13	0.0139	0.0017
Earth	120992-04-27 10:17 G	45912597.68	45912597.93	45912598.19	0.0139	0.0021 *
Earth	120993-05-02 01:38 G	45912967.37	45912967.57	45912967.80	0.0139	0.0076
Moon	120993-05-02 03:48 G	45912967.45	45912967.66	45912967.90	0.0139	0.0069 *

122ND MILLENNIUM CE

This is a list of transits visible from Uranus in the 122nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	121004-03-23 21:34 G	45916945.36	45916945.40	45916945.45	0.0136	0.0135		
Venus	121022-02-23 01:53 G	45923490.53	45923490.58	45923490.67	0.0136	0.0128		
Venus	121022-10-07 07:10 G	45923716.68	45923716.80	45923716.94	0.0136	0.0107		
Venus	121023-05-21 12:12 G	45923942.86	45923943.01	45923943.19	0.0136	0.0086		
Venus	121024-01-02 17:29 G	45924169.05	45924169.23	45924169.42	0.0136	0.0065		
Venus	121024-08-15 22:46 G	45924395.25	45924395.45	45924395.66	0.0136	0.0043		
Venus	121025-03-30 04:02 G	45924621.47	45924621.67	45924621.89	0.0137	0.0022		
Venus	121025-11-11 09:34 G	45924847.69	45924847.90	45924848.12	0.0137	0.0003		
Venus	121026-06-25 15:19 G	45925073.93	45925074.14	45925074.35	0.0137	0.0023		
Venus	121027-02-06 20:50 G	45925300.18	45925300.37	45925300.58	0.0137	0.0045		
Venus	121027-09-21 02:36 G	45925526.43	45925526.61	45925526.81	0.0137	0.0067		
Venus	121028-05-04 08:22 G	45925752.70	45925752.85	45925753.03	0.0137	0.0089		

Venus	121028-12-16 14:50 G	45925979.00	45925979.12	45925979.25	0.0137	0.0111
Venus	121029-07-30 21:05 G	45926205.34	45926205.38	45926205.44	0.0137	0.0133
Mercury	121031-09-30 02:50 G	45926996.55	45926996.62	45926996.70	0.0138	0.0119
Mercury	121031-12-27 07:10 G	45927084.70	45927084.80	45927084.91	0.0138	0.0099
Mercury	121032-03-24 11:29 G	45927172.86	45927172.98	45927173.11	0.0138	0.0078
Mercury	121032-06-20 15:48 G	45927261.03	45927261.16	45927261.30	0.0138	0.0058
Mercury	121032-09-16 20:07 G	45927349.20	45927349.34	45927349.48	0.0138	0.0038
Mercury	121032-12-14 00:26 G	45927437.37	45927437.52	45927437.66	0.0138	0.0017
Mercury	121033-03-12 04:31 G	45927525.55	45927525.69	45927525.84	0.0138	0.0004
Mercury	121033-06-08 08:50 G	45927613.72	45927613.87	45927614.01	0.0138	0.0023
Mercury	121033-09-04 12:55 G	45927701.90	45927702.04	45927702.18	0.0138	0.0043
Mercury	121033-12-01 17:00 G	45927790.08	45927790.21	45927790.34	0.0139	0.0063
Mercury	121034-02-27 21:05 G	45927878.27	45927878.38	45927878.50	0.0139	0.0083
Mercury	121034-05-27 00:55 G	45927966.46	45927966.54	45927966.65	0.0139	0.0103
Mercury	121034-08-23 05:14 G	45928054.66	45928054.72	45928054.79	0.0139	0.0122
Moon	121034-10-20 06:41 G	45928112.63	45928112.78	45928112.96	0.0139	0.0104
Earth	121034-10-20 10:31 G	45928112.78	45928112.94	45928113.12	0.0139	0.0103 *
Earth	121035-10-25 01:38 G	45928482.32	45928482.57	45928482.82	0.0139	0.0007
Moon	121035-10-25 05:14 G	45928482.46	45928482.72	45928482.97	0.0139	0.0003 *
Moon	121036-10-28 13:10 G	45928851.86	45928852.05	45928852.27	0.0139	0.0083
Earth	121036-10-28 17:14 G	45928852.03	45928852.22	45928852.42	0.0139	0.0090 *
Mars	121046-05-31 16:17 G	45932353.90	45932354.18	45932354.47	0.0142	0.0038
Venus	121063-09-05 03:19 G	45938659.56	45938659.64	45938659.74	0.0142	0.0128
Venus	121064-04-18 15:34 G	45938886.01	45938886.15	45938886.32	0.0142	0.0103
Venus	121064-12-01 04:17 G	45939112.49	45939112.68	45939112.87	0.0142	0.0077
Venus	121065-07-15 16:17 G	45939338.98	45939339.18	45939339.39	0.0142	0.0052
Venus	121066-02-27 04:31 G	45939565.47	45939565.69	45939565.91	0.0141	0.0026
Venus	121066-10-11 16:17 G	45939791.96	45939792.18	45939792.40	0.0141	0.0000
Venus	121067-05-26 04:02 G	45940018.45	45940018.67	45940018.89	0.0141	0.0025
Venus	121068-01-07 15:48 G	45940244.96	45940245.16	45940245.37	0.0141	0.0050

Venus	121068-08-21 03:19 G	45940471.46	45940471.64	45940471.83	0.0141	0.0075
Venus	121069-04-04 14:36 G	45940697.96	45940698.11	45940698.27	0.0141	0.0100
Venus	121069-11-17 01:38 G	45940924.48	45940924.57	45940924.68	0.0141	0.0125
Mercury	121072-07-16 11:00 G	45941896.89	45941896.96	45941897.04	0.0140	0.0124
Mercury	121072-10-12 16:46 G	45941985.09	45941985.20	45941985.32	0.0140	0.0101
Mercury	121073-01-08 22:31 G	45942073.31	45942073.44	45942073.59	0.0140	0.0077
Mercury	121073-04-07 04:17 G	45942161.53	45942161.68	45942161.84	0.0140	0.0054
Mercury	121073-07-04 10:17 G	45942249.77	45942249.93	45942250.09	0.0140	0.0030
Mercury	121073-09-30 16:02 G	45942338.01	45942338.17	45942338.34	0.0140	0.0007
Mercury	121073-12-27 22:02 G	45942426.25	45942426.42	45942426.59	0.0140	0.0018
Mercury	121074-03-26 04:02 G	45942514.51	45942514.67	45942514.83	0.0140	0.0042
Mercury	121074-06-22 09:48 G	45942602.77	45942602.91	45942603.07	0.0139	0.0066
Mercury	121074-09-18 15:48 G	45942691.04	45942691.16	45942691.30	0.0139	0.0091
Mercury	121074-12-15 22:02 G	45942779.33	45942779.42	45942779.52	0.0139	0.0115
Mercury	121075-03-14 04:02 G	45942867.67	45942867.67	45942867.68	0.0139	0.0139
Moon	121075-04-25 01:53 G	45942909.46	45942909.58	45942909.72	0.0139	0.0118
Earth	121075-04-25 04:02 G	45942909.53	45942909.67	45942909.83	0.0139	0.0114 *
Earth	121076-04-28 20:22 G	45943279.10	45943279.35	45943279.61	0.0139	0.0017
Moon	121076-04-28 22:31 G	45943279.18	45943279.44	45943279.71	0.0139	0.0011 *
Moon	121077-05-03 09:05 G	45943648.69	45943648.88	45943649.11	0.0139	0.0073
Earth	121077-05-03 11:58 G	45943648.81	45943649.00	45943649.22	0.0139	0.0080 *
Venus	121106-06-07 17:00 G	45954275.11	45954275.21	45954275.33	0.0136	0.0116
Venus	121107-01-19 22:02 G	45954501.28	45954501.42	45954501.58	0.0136	0.0095
Venus	121107-09-03 03:19 G	45954727.46	45954727.64	45954727.82	0.0136	0.0074
Venus	121108-04-16 08:22 G	45954953.66	45954953.85	45954954.05	0.0136	0.0052
Venus	121108-11-28 13:38 G	45955179.87	45955180.07	45955180.28	0.0136	0.0031
Venus	121109-07-12 19:24 G	45955406.09	45955406.31	45955406.52	0.0137	0.0009
Venus	121110-02-24 00:41 G	45955632.32	45955632.53	45955632.75	0.0137	0.0014
Venus	121110-10-08 06:12 G	45955858.56	45955858.76	45955858.98	0.0137	0.0036
Venus	121111-05-22 11:58 G	45956084.82	45956085.00	45956085.20	0.0137	0.0058

Venus	121112-01-03 17:58 G	45956311.08	45956311.25	45956311.43	0.0137	0.0080
Venus	121112-08-16 23:58 G	45956537.37	45956537.50	45956537.65	0.0137	0.0102
Venus	121113-03-31 06:12 G	45956763.68	45956763.76	45956763.86	0.0137	0.0124
Mercury	121115-07-25 05:29 G	45957609.71	45957609.73	45957609.76	0.0138	0.0135
Mercury	121115-10-21 10:02 G	45957697.84	45957697.92	45957698.00	0.0138	0.0114
Mercury	121116-01-17 14:07 G	45957785.99	45957786.09	45957786.21	0.0138	0.0094
Mercury	121116-04-14 18:41 G	45957874.15	45957874.28	45957874.40	0.0138	0.0073
Mercury	121116-07-11 22:46 G	45957962.32	45957962.45	45957962.59	0.0138	0.0053
Mercury	121116-10-08 03:05 G	45958050.49	45958050.63	45958050.78	0.0138	0.0033
Mercury	121117-01-04 07:24 G	45958138.67	45958138.81	45958138.96	0.0138	0.0012
Mercury	121117-04-02 11:43 G	45958226.84	45958226.99	45958227.13	0.0138	0.0008
Mercury	121117-06-29 15:48 G	45958315.02	45958315.16	45958315.31	0.0138	0.0028
Mercury	121117-09-25 19:53 G	45958403.20	45958403.33	45958403.47	0.0138	0.0048
Mercury	121117-12-23 00:12 G	45958491.38	45958491.51	45958491.63	0.0139	0.0068
Mercury	121118-03-21 04:02 G	45958579.57	45958579.67	45958579.79	0.0139	0.0088
Mercury	121118-06-17 08:22 G	45958667.76	45958667.85	45958667.94	0.0139	0.0107
Mercury	121118-09-13 12:12 G	45958755.96	45958756.01	45958756.07	0.0139	0.0127
Earth	121118-10-21 19:38 G	45958794.16	45958794.32	45958794.51	0.0139	0.0100
Moon	121118-10-21 23:14 G	45958794.32	45958794.47	45958794.66	0.0139	0.0103 *
Moon	121119-10-26 07:38 G	45959163.56	45959163.82	45959164.08	0.0139	0.0003
Earth	121119-10-26 11:00 G	45959163.71	45959163.96	45959164.22	0.0139	0.0004 *
Earth	121120-10-30 02:07 G	45959533.42	45959533.59	45959533.80	0.0139	0.0094
Moon	121120-10-30 05:43 G	45959533.56	45959533.74	45959533.96	0.0139	0.0086 *
Mars	121131-01-25 12:41 G	45963272.96	45963273.03	45963273.14	0.0142	0.0135
Venus	121147-05-06 08:50 G	45969217.84	45969217.87	45969217.93	0.0142	0.0139
Venus	121147-12-18 21:19 G	45969444.28	45969444.39	45969444.54	0.0142	0.0114
Venus	121148-08-01 10:02 G	45969670.75	45969670.92	45969671.10	0.0142	0.0088
Venus	121149-03-15 22:02 G	45969897.23	45969897.42	45969897.63	0.0142	0.0063
Venus	121149-10-28 10:17 G	45970123.72	45970123.93	45970124.15	0.0142	0.0037
Venus	121150-06-11 22:17 G	45970350.21	45970350.43	45970350.65	0.0141	0.0011

Venus	121151-01-24 10:17 G	45970576.71	45970576.93	45970577.15	0.0141	0.0015
Venus	121151-09-07 22:02 G	45970803.21	45970803.42	45970803.64	0.0141	0.0040
Venus	121152-04-21 09:34 G	45971029.71	45971029.90	45971030.10	0.0141	0.0065
Venus	121152-12-03 20:50 G	45971256.22	45971256.37	45971256.56	0.0141	0.0091
Venus	121153-07-18 08:36 G	45971482.73	45971482.86	45971482.99	0.0141	0.0115
Venus	121154-03-01 19:24 G	45971709.30	45971709.31	45971709.35	0.0141	0.0140
Mercury	121156-08-06 18:26 G	45972598.18	45972598.27	45972598.36	0.0140	0.0117
Mercury	121156-11-02 23:58 G	45972686.39	45972686.50	45972686.63	0.0140	0.0094
Mercury	121157-01-30 05:43 G	45972774.60	45972774.74	45972774.89	0.0140	0.0071
Mercury	121157-04-28 11:43 G	45972862.83	45972862.99	45972863.15	0.0140	0.0047
Mercury	121157-07-25 17:29 G	45972951.07	45972951.23	45972951.40	0.0140	0.0024
Mercury	121157-10-21 23:29 G	45973039.31	45973039.48	45973039.65	0.0140	0.0003
Mercury	121158-01-18 05:14 G	45973127.56	45973127.72	45973127.89	0.0140	0.0024
Mercury	121158-04-16 11:00 G	45973215.81	45973215.96	45973216.13	0.0139	0.0049
Mercury	121158-07-13 17:00 G	45973304.07	45973304.21	45973304.36	0.0139	0.0073
Mercury	121158-10-09 23:14 G	45973392.35	45973392.47	45973392.59	0.0139	0.0097
Mercury	121159-01-06 05:00 G	45973480.64	45973480.71	45973480.81	0.0139	0.0121
Earth	121159-04-26 14:07 G	45973590.94	45973591.09	45973591.25	0.0139	0.0109
Moon	121159-04-26 16:46 G	45973591.07	45973591.20	45973591.36	0.0139	0.0115 *
Moon	121160-04-30 04:02 G	45973960.43	45973960.67	45973960.92	0.0139	0.0006
Earth	121160-04-30 06:41 G	45973960.53	45973960.78	45973961.04	0.0139	0.0013 *
Earth	121161-05-04 22:02 G	45974330.23	45974330.42	45974330.63	0.0139	0.0084
Moon	121161-05-05 01:38 G	45974330.36	45974330.57	45974330.79	0.0139	0.0076 *
Mars	121171-08-11 04:17 G	45978080.37	45978080.68	45978081.01	0.0136	0.0012
Venus	121190-02-05 02:21 G	45984833.53	45984833.60	45984833.68	0.0136	0.0125
Venus	121190-09-19 07:09 G	45985059.68	45985059.80	45985059.95	0.0136	0.0105
Venus	121191-05-03 12:12 G	45985285.85	45985286.01	45985286.19	0.0136	0.0083
Venus	121191-12-15 17:29 G	45985512.05	45985512.23	45985512.42	0.0136	0.0062
Venus	121192-07-28 22:45 G	45985738.25	45985738.45	45985738.66	0.0136	0.0040
Venus	121193-03-12 04:17 G	45985964.47	45985964.68	45985964.89	0.0136	0.0018

Venus	121193-10-24 09:48 G	45986190.69	45986190.91	45986191.12	0.0137	0.0004
Venus	121194-06-07 15:19 G	45986416.93	45986417.14	45986417.35	0.0137	0.0026
Venus	121195-01-19 20:50 G	45986643.18	45986643.37	45986643.58	0.0137	0.0049
Venus	121195-09-03 02:50 G	45986869.44	45986869.62	45986869.81	0.0137	0.0071
Venus	121196-04-16 08:36 G	45987095.72	45987095.86	45987096.03	0.0137	0.0094
Venus	121196-11-28 14:50 G	45987322.02	45987322.12	45987322.24	0.0137	0.0115
Mercury	121199-08-14 12:12 G	45988310.98	45988311.01	45988311.07	0.0138	0.0131
Mercury	121199-11-10 16:45 G	45988399.12	45988399.20	45988399.29	0.0138	0.0110
Mercury	121200-02-06 21:05 G	45988487.27	45988487.38	45988487.50	0.0138	0.0090
Mercury	121200-05-05 01:24 G	45988575.44	45988575.56	45988575.69	0.0138	0.0069
Mercury	121200-08-01 05:43 G	45988663.60	45988663.74	45988663.88	0.0138	0.0049
Mercury	121200-10-28 10:02 G	45988751.78	45988751.92	45988752.07	0.0138	0.0028
Mercury	121201-01-24 14:21 G	45988839.95	45988840.10	45988840.24	0.0138	0.0008
Mercury	121201-04-22 18:26 G	45988928.13	45988928.27	45988928.42	0.0138	0.0012
Mercury	121201-07-19 22:31 G	45989016.30	45989016.44	45989016.59	0.0138	0.0033
Mercury	121201-10-16 02:36 G	45989104.49	45989104.61	45989104.76	0.0138	0.0053
Mercury	121202-01-12 06:55 G	45989192.67	45989192.79	45989192.92	0.0139	0.0072
Mercury	121202-04-10 11:00 G	45989280.86	45989280.96	45989281.07	0.0139	0.0092
Mercury	121202-07-07 14:50 G	45989369.05	45989369.12	45989369.22	0.0139	0.0112
Mercury	121202-10-03 19:09 G	45989457.26	45989457.30	45989457.35	0.0139	0.0131
Moon	121202-10-22 00:26 G	45989475.37	45989475.52	45989475.71	0.0139	0.0102
Earth	121202-10-22 04:17 G	45989475.51	45989475.68	45989475.87	0.0139	0.0097 *
Earth	121203-10-26 19:24 G	45989845.06	45989845.31	45989845.57	0.0139	0.0001
Moon	121203-10-26 22:31 G	45989845.19	45989845.44	45989845.69	0.0139	0.0006 *
Moon	121204-10-30 07:24 G	45990214.62	45990214.81	45990215.02	0.0139	0.0088
Earth	121204-10-30 11:00 G	45990214.78	45990214.96	45990215.15	0.0139	0.0096 *
Venus	121231-08-18 03:05 G	46000002.55	46000002.63	46000002.76	0.0142	0.0125
Venus	121232-03-31 15:48 G	46000229.01	46000229.16	46000229.32	0.0142	0.0099
Venus	121232-11-13 04:17 G	46000455.49	46000455.68	46000455.87	0.0142	0.0073
Venus	121233-06-27 16:17 G	46000681.98	46000682.18	46000682.40	0.0142	0.0048

Venus	121234-02-09 04:31 G	46000908.47	46000908.69	46000908.91	0.0142	0.0022
Venus	121234-09-23 16:31 G	46001134.97	46001135.19	46001135.42	0.0141	0.0005
Venus	121235-05-08 04:17 G	46001361.47	46001361.68	46001361.90	0.0141	0.0030
Venus	121235-12-20 16:02 G	46001587.98	46001588.17	46001588.38	0.0141	0.0056
Venus	121236-08-03 03:33 G	46001814.48	46001814.65	46001814.85	0.0141	0.0081
Venus	121237-03-17 15:05 G	46002041.00	46002041.13	46002041.29	0.0141	0.0106
Venus	121237-10-30 02:07 G	46002267.53	46002267.59	46002267.69	0.0141	0.0131
Mercury	121240-05-30 19:38 G	46003211.29	46003211.32	46003211.38	0.0140	0.0134
Mercury	121240-08-27 01:24 G	46003299.48	46003299.56	46003299.67	0.0140	0.0111
Mercury	121240-11-23 07:24 G	46003387.68	46003387.81	46003387.94	0.0140	0.0087
Mercury	121241-02-19 13:09 G	46003475.90	46003476.05	46003476.20	0.0140	0.0064
Mercury	121241-05-18 18:55 G	46003564.13	46003564.29	46003564.45	0.0140	0.0040
Mercury	121241-08-15 00:41 G	46003652.37	46003652.53	46003652.70	0.0140	0.0017
Mercury	121241-11-11 06:41 G	46003740.61	46003740.78	46003740.95	0.0140	0.0007
Mercury	121242-02-07 12:26 G	46003828.86	46003829.02	46003829.19	0.0140	0.0031
Mercury	121242-05-06 18:12 G	46003917.12	46003917.26	46003917.43	0.0139	0.0056
Mercury	121242-08-03 00:12 G	46004005.38	46004005.51	46004005.66	0.0139	0.0080
Mercury	121242-10-30 06:26 G	46004093.66	46004093.77	46004093.89	0.0139	0.0103
Mercury	121243-01-26 12:26 G	46004181.96	46004182.02	46004182.09	0.0139	0.0128
Moon	121243-04-26 21:33 G	46004272.26	46004272.40	46004272.55	0.0139	0.0113
Earth	121243-04-27 00:26 G	46004272.37	46004272.52	46004272.70	0.0139	0.0106 *
Earth	121244-04-30 17:00 G	46004641.96	46004642.21	46004642.47	0.0139	0.0009
Moon	121244-04-30 20:21 G	46004642.09	46004642.35	46004642.61	0.0139	0.0001 *
Moon	121245-05-05 05:00 G	46005011.51	46005011.71	46005011.92	0.0139	0.0081
Earth	121245-05-05 08:21 G	46005011.67	46005011.85	46005012.06	0.0139	0.0088 *
Venus	121273-10-05 12:12 G	46015391.99	46015392.01	46015392.05	0.0136	0.0134
Venus	121274-05-19 17:14 G	46015618.11	46015618.22	46015618.34	0.0136	0.0113
Venus	121274-12-31 22:17 G	46015844.28	46015844.43	46015844.59	0.0136	0.0092
Venus	121275-08-15 03:33 G	46016070.47	46016070.65	46016070.83	0.0136	0.0070
Venus	121276-03-28 08:21 G	46016296.67	46016296.85	46016297.06	0.0136	0.0050

Venus	121276-11-09 13:53 G	46016522.88	46016523.08	46016523.30	0.0136	0.0027
Venus	121277-06-23 19:38 G	46016749.11	46016749.32	46016749.53	0.0136	0.0005
Venus	121278-02-05 01:09 G	46016975.34	46016975.55	46016975.76	0.0137	0.0017
Venus	121278-09-19 06:41 G	46017201.58	46017201.78	46017201.99	0.0137	0.0040
Venus	121279-05-03 12:26 G	46017427.83	46017428.02	46017428.21	0.0137	0.0062
Venus	121279-12-15 18:26 G	46017654.10	46017654.27	46017654.44	0.0137	0.0084
Venus	121280-07-29 00:12 G	46017880.39	46017880.51	46017880.66	0.0137	0.0107
Venus	121281-03-12 06:12 G	46018106.71	46018106.76	46018106.85	0.0137	0.0130
Mercury	121283-09-03 19:24 G	46019012.26	46019012.31	46019012.38	0.0138	0.0126
Mercury	121283-11-30 23:43 G	46019100.40	46019100.49	46019100.59	0.0138	0.0105
Mercury	121284-02-27 04:02 G	46019188.56	46019188.67	46019188.80	0.0138	0.0085
Mercury	121284-05-25 08:36 G	46019276.73	46019276.86	46019276.99	0.0138	0.0064
Mercury	121284-08-21 12:41 G	46019364.90	46019365.03	46019365.18	0.0138	0.0044
Mercury	121284-11-17 17:00 G	46019453.07	46019453.21	46019453.36	0.0138	0.0024
Mercury	121285-02-13 21:19 G	46019541.24	46019541.39	46019541.54	0.0138	0.0004
Mercury	121285-05-13 01:38 G	46019629.42	46019629.57	46019629.71	0.0138	0.0017
Mercury	121285-08-09 05:43 G	46019717.60	46019717.74	46019717.88	0.0138	0.0037
Mercury	121285-11-05 09:48 G	46019805.78	46019805.91	46019806.05	0.0138	0.0057
Mercury	121286-02-01 13:53 G	46019893.97	46019894.08	46019894.21	0.0139	0.0077
Mercury	121286-04-30 17:57 G	46019982.15	46019982.25	46019982.36	0.0139	0.0097
Mercury	121286-07-27 22:17 G	46020070.35	46020070.43	46020070.51	0.0139	0.0116
Earth	121286-10-22 13:24 G	46020156.89	46020157.06	46020157.26	0.0139	0.0094
Moon	121286-10-22 16:45 G	46020157.04	46020157.20	46020157.38	0.0139	0.0100 *
Mercury	121286-10-24 02:07 G	46020158.57	46020158.59	46020158.62	0.0139	0.0136
Moon	121287-10-27 01:53 G	46020526.33	46020526.58	46020526.84	0.0139	0.0010
Earth	121287-10-27 04:45 G	46020526.45	46020526.70	46020526.96	0.0139	0.0002 *
Earth	121288-10-30 20:07 G	46020896.17	46020896.34	46020896.53	0.0139	0.0099
Moon	121288-10-30 23:00 G	46020896.29	46020896.46	46020896.66	0.0139	0.0092 *
Jupiter	121292-10-03 17:57 G	46022329.83	46022330.25	46022330.69	0.0140	0.0072
Mars	121298-06-13 17:57 G	46024408.96	46024409.25	46024409.54	0.0142	0.0003

Venus	121315-04-18 08:50 G	46030560.82	46030560.87	46030560.95	0.0142	0.0136
Venus	121315-11-30 21:33 G	46030787.27	46030787.40	46030787.55	0.0142	0.0110
Venus	121316-07-14 10:02 G	46031013.75	46031013.92	46031014.10	0.0142	0.0084
Venus	121317-02-25 22:31 G	46031240.23	46031240.44	46031240.64	0.0142	0.0058
Venus	121317-10-10 10:31 G	46031466.73	46031466.94	46031467.16	0.0142	0.0032
Venus	121318-05-24 22:45 G	46031693.22	46031693.45	46031693.67	0.0141	0.0006
Venus	121319-01-06 10:45 G	46031919.73	46031919.95	46031920.17	0.0141	0.0020
Venus	121319-08-20 22:45 G	46032146.24	46032146.45	46032146.66	0.0141	0.0046
Venus	121320-04-03 10:02 G	46032372.74	46032372.92	46032373.12	0.0141	0.0071
Venus	121320-11-15 21:48 G	46032599.25	46032599.41	46032599.57	0.0141	0.0096
Venus	121321-06-30 09:05 G	46032825.78	46032825.88	46032826.00	0.0141	0.0121
Mercury	121324-06-21 03:05 G	46033912.58	46033912.63	46033912.71	0.0140	0.0127
Mercury	121324-09-17 08:50 G	46034000.77	46034000.87	46034000.99	0.0140	0.0104
Mercury	121324-12-14 14:36 G	46034088.98	46034089.11	46034089.25	0.0140	0.0081
Mercury	121325-03-12 20:21 G	46034177.20	46034177.35	46034177.51	0.0140	0.0057
Mercury	121325-06-09 02:07 G	46034265.43	46034265.59	46034265.76	0.0140	0.0034
Mercury	121325-09-05 08:07 G	46034353.67	46034353.84	46034354.00	0.0140	0.0011
Mercury	121325-12-02 13:53 G	46034441.91	46034442.08	46034442.25	0.0140	0.0014
Mercury	121326-02-28 19:38 G	46034530.16	46034530.32	46034530.49	0.0140	0.0038
Mercury	121326-05-28 01:38 G	46034618.42	46034618.57	46034618.73	0.0140	0.0062
Mercury	121326-08-24 07:38 G	46034706.69	46034706.82	46034706.96	0.0139	0.0086
Mercury	121326-11-20 13:38 G	46034794.97	46034795.07	46034795.18	0.0139	0.0110
Mercury	121327-02-16 19:24 G	46034883.28	46034883.31	46034883.37	0.0139	0.0135
Earth	121327-04-28 10:31 G	46034953.79	46034953.94	46034954.14	0.0139	0.0102
Moon	121327-04-28 14:36 G	46034953.95	46034954.11	46034954.27	0.0139	0.0109 *
Moon	121328-05-02 00:12 G	46035323.26	46035323.51	46035323.76	0.0139	0.0003
Earth	121328-05-02 03:33 G	46035323.39	46035323.65	46035323.90	0.0139	0.0004 *
Earth	121329-05-06 18:41 G	46035693.11	46035693.28	46035693.49	0.0139	0.0092
Moon	121329-05-06 22:31 G	46035693.26	46035693.44	46035693.65	0.0139	0.0087 *
Mars	121338-12-28 09:33 G	46039215.75	46039215.90	46039216.09	0.0136	0.0116

Venus	121358-01-18 02:36 G	46046176.54	46046176.61	46046176.72	0.0136	0.0123
Venus	121358-09-01 07:53 G	46046402.69	46046402.83	46046402.98	0.0136	0.0101
Venus	121359-04-15 12:41 G	46046628.87	46046629.03	46046629.22	0.0136	0.0080
Venus	121359-11-27 17:57 G	46046855.07	46046855.25	46046855.45	0.0136	0.0058
Venus	121360-07-10 23:29 G	46047081.28	46047081.48	46047081.69	0.0136	0.0036
Venus	121361-02-22 04:45 G	46047307.50	46047307.70	46047307.92	0.0136	0.0015
Venus	121361-10-06 10:17 G	46047533.72	46047533.93	46047534.15	0.0137	0.0008
Venus	121362-05-20 15:48 G	46047759.96	46047760.16	46047760.37	0.0137	0.0031
Venus	121363-01-01 21:33 G	46047986.21	46047986.40	46047986.60	0.0137	0.0053
Venus	121363-08-16 03:33 G	46048212.47	46048212.65	46048212.83	0.0137	0.0075
Venus	121364-03-29 09:05 G	46048438.75	46048438.88	46048439.04	0.0137	0.0098
Venus	121364-11-10 15:05 G	46048665.05	46048665.13	46048665.25	0.0137	0.0120
Mercury	121367-09-25 02:07 G	46049713.53	46049713.59	46049713.67	0.0138	0.0122
Mercury	121367-12-22 06:41 G	46049801.68	46049801.78	46049801.89	0.0138	0.0101
Mercury	121368-03-19 11:14 G	46049889.85	46049889.97	46049890.09	0.0138	0.0081
Mercury	121368-06-15 15:19 G	46049978.01	46049978.14	46049978.28	0.0138	0.0060
Mercury	121368-09-11 19:38 G	46050066.18	46050066.32	46050066.47	0.0138	0.0040
Mercury	121368-12-08 23:57 G	46050154.36	46050154.50	46050154.65	0.0138	0.0019
Mercury	121369-03-07 04:17 G	46050242.53	46050242.68	46050242.83	0.0138	0.0002
Mercury	121369-06-03 08:21 G	46050330.71	46050330.85	46050331.00	0.0138	0.0021
Mercury	121369-08-30 12:26 G	46050418.89	46050419.02	46050419.17	0.0138	0.0042
Mercury	121369-11-26 16:45 G	46050507.07	46050507.20	46050507.33	0.0139	0.0061
Mercury	121370-02-22 20:50 G	46050595.26	46050595.37	46050595.49	0.0139	0.0081
Mercury	121370-05-22 00:55 G	46050683.45	46050683.54	46050683.64	0.0139	0.0101
Mercury	121370-08-18 05:14 G	46050771.65	46050771.72	46050771.79	0.0139	0.0120
Moon	121370-10-23 18:55 G	46050838.13	46050838.29	46050838.49	0.0139	0.0098
Earth	121370-10-23 22:02 G	46050838.24	46050838.42	46050838.62	0.0139	0.0091 *
Earth	121371-10-28 13:09 G	46051207.80	46051208.05	46051208.30	0.0139	0.0005
Moon	121371-10-28 15:19 G	46051207.90	46051208.14	46051208.39	0.0139	0.0012 *
Moon	121372-11-01 01:53 G	46051577.40	46051577.58	46051577.78	0.0139	0.0095

Earth	121372-11-01 04:45 G	46051577.54	46051577.70	46051577.88	0.0139	0.0101 *
Venus	121399-07-31 03:48 G	46061345.55	46061345.66	46061345.78	0.0142	0.0121
Venus	121400-03-14 16:17 G	46061572.02	46061572.18	46061572.35	0.0142	0.0095
Venus	121400-10-27 04:45 G	46061798.50	46061798.70	46061798.89	0.0142	0.0069
Venus	121401-06-10 17:00 G	46062025.00	46062025.21	46062025.42	0.0142	0.0043
Venus	121402-01-23 05:14 G	46062251.50	46062251.72	46062251.95	0.0142	0.0017
Venus	121402-09-06 17:29 G	46062478.00	46062478.23	46062478.45	0.0141	0.0010
Venus	121403-04-21 05:14 G	46062704.51	46062704.72	46062704.94	0.0141	0.0035
Venus	121403-12-03 17:00 G	46062931.02	46062931.21	46062931.42	0.0141	0.0061
Venus	121404-07-17 04:31 G	46063157.53	46063157.69	46063157.88	0.0141	0.0087
Venus	121405-02-28 16:02 G	46063384.05	46063384.17	46063384.32	0.0141	0.0112
Venus	121405-10-13 03:19 G	46063610.60	46063610.64	46063610.70	0.0141	0.0137
Mercury	121408-07-12 10:31 G	46064613.87	46064613.94	46064614.03	0.0140	0.0121
Mercury	121408-10-08 16:17 G	46064702.07	46064702.18	46064702.30	0.0140	0.0097
Mercury	121409-01-04 22:02 G	46064790.28	46064790.42	46064790.56	0.0140	0.0074
Mercury	121409-04-03 03:33 G	46064878.50	46064878.65	46064878.82	0.0140	0.0051
Mercury	121409-06-30 09:33 G	46064966.74	46064966.90	46064967.06	0.0140	0.0027
Mercury	121409-09-26 15:19 G	46065054.97	46065055.14	46065055.31	0.0140	0.0004
Mercury	121409-12-23 21:05 G	46065143.22	46065143.38	46065143.55	0.0140	0.0021
Mercury	121410-03-22 02:50 G	46065231.47	46065231.62	46065231.79	0.0140	0.0045
Mercury	121410-06-18 08:50 G	46065319.73	46065319.87	46065320.03	0.0140	0.0069
Mercury	121410-09-14 14:50 G	46065408.00	46065408.12	46065408.25	0.0139	0.0093
Mercury	121410-12-11 20:50 G	46065496.28	46065496.37	46065496.47	0.0139	0.0117
Moon	121411-04-29 17:57 G	46065635.10	46065635.25	46065635.43	0.0139	0.0105
Earth	121411-04-29 21:33 G	46065635.23	46065635.40	46065635.60	0.0139	0.0097 *
Earth	121412-05-03 14:07 G	46066004.84	46066005.09	46066005.35	0.0139	0.0002
Moon	121412-05-03 17:43 G	46066004.99	46066005.24	46066005.49	0.0139	0.0006 *
Moon	121413-05-08 01:38 G	46066374.40	46066374.57	46066374.78	0.0139	0.0093
Earth	121413-05-08 05:43 G	46066374.56	46066374.74	46066374.93	0.0139	0.0096 *
Mars	121423-08-24 19:24 G	46070135.04	46070135.31	46070135.62	0.0136	0.0058

Venus	121441-09-18 13:09 G	46076735.02	46076735.05	46076735.12	0.0136	0.0132
Venus	121442-05-02 18:26 G	46076961.15	46076961.27	46076961.39	0.0136	0.0110
Venus	121442-12-14 23:14 G	46077187.32	46077187.47	46077187.64	0.0136	0.0089
Venus	121443-07-29 04:31 G	46077413.51	46077413.69	46077413.88	0.0136	0.0067
Venus	121444-03-11 09:48 G	46077639.72	46077639.91	46077640.12	0.0136	0.0045
Venus	121444-10-23 15:05 G	46077865.93	46077866.13	46077866.35	0.0136	0.0024
Venus	121445-06-06 20:36 G	46078092.15	46078092.36	46078092.58	0.0136	0.0003
Venus	121446-01-19 02:07 G	46078318.38	46078318.59	46078318.80	0.0137	0.0022
Venus	121446-09-02 07:53 G	46078544.63	46078544.83	46078545.03	0.0137	0.0044
Venus	121447-04-16 13:09 G	46078770.88	46078771.05	46078771.25	0.0137	0.0067
Venus	121447-11-28 19:09 G	46078997.14	46078997.30	46078997.47	0.0137	0.0089
Venus	121448-07-12 01:09 G	46079223.44	46079223.55	46079223.68	0.0137	0.0112
Venus	121449-02-23 07:24 G	46079449.77	46079449.81	46079449.85	0.0137	0.0134
Mercury	121451-07-20 05:00 G	46080326.70	46080326.71	46080326.73	0.0138	0.0137
Mercury	121451-10-16 09:33 G	46080414.82	46080414.90	46080414.98	0.0138	0.0116
Mercury	121452-01-12 13:38 G	46080502.98	46080503.07	46080503.19	0.0138	0.0096
Mercury	121452-04-09 18:12 G	46080591.14	46080591.26	46080591.39	0.0138	0.0075
Mercury	121452-07-06 22:31 G	46080679.31	46080679.44	46080679.58	0.0138	0.0055
Mercury	121452-10-03 02:50 G	46080767.48	46080767.62	46080767.77	0.0138	0.0035
Mercury	121452-12-30 07:09 G	46080855.65	46080855.80	46080855.95	0.0138	0.0014
Mercury	121453-03-28 11:29 G	46080943.83	46080943.98	46080944.13	0.0138	0.0006
Mercury	121453-06-24 15:33 G	46081032.01	46081032.15	46081032.30	0.0138	0.0026
Mercury	121453-09-20 19:38 G	46081120.19	46081120.32	46081120.47	0.0138	0.0047
Mercury	121453-12-17 23:43 G	46081208.37	46081208.49	46081208.63	0.0139	0.0067
Mercury	121454-03-16 04:02 G	46081296.56	46081296.67	46081296.79	0.0139	0.0086
Mercury	121454-06-12 08:07 G	46081384.75	46081384.84	46081384.94	0.0139	0.0106
Mercury	121454-09-08 11:57 G	46081472.96	46081473.00	46081473.07	0.0139	0.0126
Earth	121454-10-25 08:07 G	46081519.64	46081519.84	46081520.04	0.0139	0.0086
Moon	121454-10-25 10:02 G	46081519.76	46081519.92	46081520.12	0.0139	0.0094 *
Moon	121455-10-29 21:19 G	46081889.13	46081889.39	46081889.65	0.0139	0.0015

Earth	121455-10-29 23:14 G	46081889.22	46081889.47	46081889.72	0.0139	0.0009 *
Earth	121456-11-02 14:36 G	46082258.96	46082259.11	46082259.29	0.0139	0.0106
Moon	121456-11-02 16:31 G	46082259.04	46082259.19	46082259.38	0.0139	0.0103 *
Mars	121465-11-02 01:09 G	46085545.43	46085545.55	46085545.68	0.0142	0.0127
Venus	121483-03-31 09:19 G	46091903.84	46091903.89	46091903.99	0.0142	0.0134
Venus	121483-11-12 22:02 G	46092130.29	46092130.42	46092130.58	0.0142	0.0107
Venus	121484-06-26 10:31 G	46092356.78	46092356.94	46092357.14	0.0142	0.0081
Venus	121485-02-07 23:14 G	46092583.27	46092583.47	46092583.68	0.0142	0.0054
Venus	121485-09-22 11:29 G	46092809.77	46092809.98	46092810.21	0.0142	0.0028
Venus	121486-05-06 23:43 G	46093036.27	46093036.49	46093036.72	0.0142	0.0003
Venus	121486-12-19 11:57 G	46093262.78	46093263.00	46093263.22	0.0141	0.0025
Venus	121487-08-02 23:43 G	46093489.29	46093489.49	46093489.70	0.0141	0.0051
Venus	121488-03-16 11:14 G	46093715.80	46093715.97	46093716.17	0.0141	0.0077
Venus	121488-10-28 23:00 G	46093942.31	46093942.46	46093942.62	0.0141	0.0102
Venus	121489-06-12 10:17 G	46094168.85	46094168.93	46094169.03	0.0141	0.0127
Mercury	121492-05-05 12:26 G	46095226.99	46095227.02	46095227.06	0.0140	0.0137
Mercury	121492-08-01 17:43 G	46095315.16	46095315.24	46095315.35	0.0140	0.0115
Mercury	121492-10-28 23:29 G	46095403.37	46095403.48	46095403.62	0.0140	0.0091
Mercury	121493-01-25 05:29 G	46095491.58	46095491.73	46095491.87	0.0140	0.0067
Mercury	121493-04-23 11:00 G	46095579.81	46095579.96	46095580.13	0.0140	0.0044
Mercury	121493-07-20 16:45 G	46095668.04	46095668.20	46095668.37	0.0140	0.0021
Mercury	121493-10-16 22:45 G	46095756.28	46095756.45	46095756.62	0.0140	0.0003
Mercury	121494-01-13 04:31 G	46095844.53	46095844.69	46095844.86	0.0140	0.0027
Mercury	121494-04-11 10:31 G	46095932.78	46095932.94	46095933.09	0.0140	0.0051
Mercury	121494-07-08 16:02 G	46096021.04	46096021.17	46096021.33	0.0140	0.0076
Mercury	121494-10-04 22:02 G	46096109.31	46096109.42	46096109.55	0.0139	0.0100
Mercury	121495-01-01 04:02 G	46096197.61	46096197.67	46096197.76	0.0139	0.0124
Earth	121495-04-30 08:21 G	46096316.67	46096316.85	46096317.06	0.0139	0.0091
Moon	121495-04-30 12:12 G	46096316.84	46096317.01	46096317.20	0.0139	0.0098 *
Moon	121496-05-03 21:48 G	46096686.15	46096686.41	46096686.66	0.0139	0.0009

Earth	121496-05-04 01:09 G	46096686.30	46096686.55	46096686.81	0.0139	0.0005 *
Earth	121497-05-08 16:31 G	46097056.03	46097056.19	46097056.38	0.0139	0.0101
Moon	121497-05-08 20:07 G	46097056.18	46097056.34	46097056.53	0.0139	0.0101 *
Venus	121526-01-01 04:17 G	46107519.59	46107519.68	46107519.79	0.0136	0.0120
Venus	121526-08-15 09:33 G	46107745.75	46107745.90	46107746.04	0.0136	0.0098
Venus	121527-03-29 14:21 G	46107971.93	46107972.10	46107972.28	0.0136	0.0077
Venus	121527-11-10 19:24 G	46108198.13	46108198.31	46108198.52	0.0136	0.0055
Venus	121528-06-24 01:09 G	46108424.34	46108424.55	46108424.76	0.0136	0.0033
Venus	121529-02-05 06:26 G	46108650.56	46108650.77	46108650.98	0.0136	0.0010
Venus	121529-09-19 11:43 G	46108876.78	46108876.99	46108877.21	0.0136	0.0013
Venus	121530-05-03 17:14 G	46109103.02	46109103.22	46109103.43	0.0137	0.0035
Venus	121530-12-15 23:00 G	46109329.26	46109329.46	46109329.65	0.0137	0.0057
Venus	121531-07-30 04:31 G	46109555.53	46109555.69	46109555.87	0.0137	0.0080
Venus	121532-03-12 10:31 G	46109781.80	46109781.94	46109782.08	0.0137	0.0102
Venus	121532-10-24 16:31 G	46110008.10	46110008.19	46110008.28	0.0137	0.0125
Mercury	121535-08-10 11:43 G	46111027.97	46111027.99	46111028.05	0.0138	0.0133
Mercury	121535-11-06 16:17 G	46111116.11	46111116.18	46111116.28	0.0138	0.0112
Mercury	121536-02-02 20:50 G	46111204.26	46111204.37	46111204.49	0.0138	0.0091
Mercury	121536-05-01 01:09 G	46111292.43	46111292.55	46111292.68	0.0138	0.0071
Mercury	121536-07-28 05:29 G	46111380.60	46111380.73	46111380.87	0.0138	0.0050
Mercury	121536-10-24 09:48 G	46111468.77	46111468.91	46111469.06	0.0138	0.0030
Mercury	121537-01-20 14:07 G	46111556.95	46111557.09	46111557.24	0.0138	0.0010
Mercury	121537-04-18 18:26 G	46111645.12	46111645.27	46111645.42	0.0138	0.0011
Mercury	121537-07-15 22:31 G	46111733.30	46111733.44	46111733.59	0.0138	0.0031
Mercury	121537-10-12 02:50 G	46111821.48	46111821.62	46111821.76	0.0138	0.0051
Mercury	121538-01-08 06:55 G	46111909.67	46111909.79	46111909.92	0.0139	0.0071
Mercury	121538-04-06 11:00 G	46111997.86	46111997.96	46111998.08	0.0139	0.0091
Mercury	121538-07-03 15:05 G	46112086.05	46112086.13	46112086.23	0.0139	0.0111
Mercury	121538-09-29 19:09 G	46112174.26	46112174.30	46112174.36	0.0139	0.0130
Moon	121538-10-26 15:19 G	46112200.95	46112201.14	46112201.35	0.0139	0.0089

Earth	121538-10-26 17:00 G	46112201.03	46112201.21	46112201.43	0.0139	0.0083	*
Earth	121539-10-31 08:21 G	46112570.60	46112570.85	46112571.10	0.0139	0.0013	
Moon	121539-10-31 09:33 G	46112570.66	46112570.90	46112571.15	0.0139	0.0017	*
Moon	121540-11-03 22:31 G	46112940.28	46112940.44	46112940.61	0.0139	0.0107	
Earth	121540-11-03 23:57 G	46112940.36	46112940.50	46112940.67	0.0139	0.0109	*
Mars	121550-06-28 20:36 G	46116464.08	46116464.36	46116464.64	0.0142	0.0043	
Venus	121567-07-14 04:31 G	46122688.58	46122688.69	46122688.83	0.0142	0.0118	
Venus	121568-02-25 17:00 G	46122915.06	46122915.21	46122915.40	0.0142	0.0092	
Venus	121568-10-09 05:43 G	46123141.55	46123141.74	46123141.94	0.0142	0.0065	
Venus	121569-05-23 18:12 G	46123368.05	46123368.26	46123368.48	0.0142	0.0039	
Venus	121570-01-05 06:41 G	46123594.56	46123594.78	46123595.00	0.0142	0.0012	
Venus	121570-08-19 18:41 G	46123821.06	46123821.28	46123821.51	0.0141	0.0015	
Venus	121571-04-03 06:41 G	46124047.57	46124047.78	46124048.00	0.0141	0.0041	
Venus	121571-11-15 18:26 G	46124274.08	46124274.27	46124274.47	0.0141	0.0067	
Venus	121572-06-29 06:12 G	46124500.60	46124500.76	46124500.93	0.0141	0.0092	
Venus	121573-02-10 17:29 G	46124727.13	46124727.23	46124727.37	0.0141	0.0118	
Mercury	121576-05-26 19:53 G	46125928.28	46125928.33	46125928.40	0.0140	0.0129	
Mercury	121576-08-23 01:38 G	46126016.46	46126016.57	46126016.67	0.0140	0.0106	
Mercury	121576-11-19 07:09 G	46126104.67	46126104.80	46126104.94	0.0140	0.0083	
Mercury	121577-02-15 12:55 G	46126192.89	46126193.04	46126193.19	0.0140	0.0060	
Mercury	121577-05-14 18:41 G	46126281.12	46126281.28	46126281.44	0.0140	0.0037	
Mercury	121577-08-11 00:26 G	46126369.35	46126369.52	46126369.69	0.0140	0.0013	
Mercury	121577-11-07 06:12 G	46126457.59	46126457.76	46126457.93	0.0140	0.0011	
Mercury	121578-02-03 11:57 G	46126545.84	46126546.00	46126546.17	0.0140	0.0035	
Mercury	121578-05-02 17:43 G	46126634.10	46126634.24	46126634.40	0.0140	0.0059	
Mercury	121578-07-29 23:43 G	46126722.36	46126722.49	46126722.63	0.0140	0.0083	
Mercury	121578-10-26 05:43 G	46126810.64	46126810.74	46126810.85	0.0139	0.0107	
Mercury	121579-01-22 11:29 G	46126898.94	46126898.98	46126899.05	0.0139	0.0131	
Moon	121579-05-01 16:31 G	46126998.01	46126998.19	46126998.39	0.0139	0.0092	
Earth	121579-05-01 20:07 G	46126998.15	46126998.34	46126998.55	0.0139	0.0085	*

Earth	121580-05-05 12:41 G	46127367.78	46127368.03	46127368.29	0.0139	0.0011
Moon	121580-05-05 15:48 G	46127367.91	46127368.16	46127368.41	0.0139	0.0013 *
Moon	121581-05-10 00:26 G	46127737.38	46127737.52	46127737.71	0.0139	0.0108
Earth	121581-05-10 04:02 G	46127737.53	46127737.67	46127737.85	0.0139	0.0107 *
Mars	121591-01-11 04:02 G	46131270.38	46131270.67	46131270.95	0.0136	0.0065
Venus	121609-08-31 15:05 G	46138078.08	46138078.13	46138078.20	0.0136	0.0129
Venus	121610-04-14 20:07 G	46138304.22	46138304.34	46138304.47	0.0136	0.0107
Venus	121610-11-27 00:55 G	46138530.39	46138530.54	46138530.72	0.0136	0.0086
Venus	121611-07-11 06:12 G	46138756.59	46138756.76	46138756.96	0.0136	0.0064
Venus	121612-02-22 11:43 G	46138982.79	46138982.99	46138983.19	0.0136	0.0042
Venus	121612-10-05 17:00 G	46139209.00	46139209.21	46139209.42	0.0136	0.0019
Venus	121613-05-19 22:17 G	46139435.22	46139435.43	46139435.64	0.0136	0.0003
Venus	121614-01-01 03:48 G	46139661.45	46139661.66	46139661.87	0.0137	0.0026
Venus	121614-08-15 09:05 G	46139887.69	46139887.88	46139888.09	0.0137	0.0049
Venus	121615-03-29 14:50 G	46140113.94	46140114.12	46140114.31	0.0137	0.0071
Venus	121615-11-10 20:21 G	46140340.21	46140340.35	46140340.52	0.0137	0.0094
Venus	121616-06-24 02:21 G	46140566.50	46140566.60	46140566.72	0.0137	0.0116
Mercury	121619-08-30 19:09 G	46141729.26	46141729.30	46141729.37	0.0138	0.0127
Mercury	121619-11-26 23:43 G	46141817.40	46141817.49	46141817.59	0.0138	0.0106
Mercury	121620-02-23 04:17 G	46141905.56	46141905.68	46141905.80	0.0138	0.0085
Mercury	121620-05-21 08:21 G	46141993.73	46141993.85	46141993.99	0.0138	0.0065
Mercury	121620-08-17 12:55 G	46142081.90	46142082.04	46142082.18	0.0138	0.0044
Mercury	121620-11-13 17:14 G	46142170.07	46142170.22	46142170.37	0.0138	0.0024
Mercury	121621-02-09 21:33 G	46142258.25	46142258.40	46142258.55	0.0138	0.0004
Mercury	121621-05-09 01:38 G	46142346.43	46142346.57	46142346.72	0.0138	0.0017
Mercury	121621-08-05 05:57 G	46142434.61	46142434.75	46142434.89	0.0138	0.0037
Mercury	121621-11-01 10:17 G	46142522.79	46142522.93	46142523.06	0.0138	0.0057
Mercury	121622-01-28 14:21 G	46142610.98	46142611.10	46142611.22	0.0139	0.0077
Mercury	121622-04-26 18:26 G	46142699.17	46142699.27	46142699.38	0.0139	0.0097
Mercury	121622-07-23 22:31 G	46142787.37	46142787.44	46142787.52	0.0139	0.0116

Mercury	121622-10-20 02:36 G	46142875.59	46142875.61	46142875.64	0.0139	0.0136
Earth	121622-10-27 04:02 G	46142882.47	46142882.67	46142882.89	0.0139	0.0077
Moon	121622-10-27 05:00 G	46142882.53	46142882.71	46142882.92	0.0139	0.0083 *
Moon	121623-10-31 18:41 G	46143252.02	46143252.28	46143252.54	0.0139	0.0020
Earth	121623-10-31 19:09 G	46143252.05	46143252.30	46143252.56	0.0139	0.0018 *
Earth	121624-11-04 10:45 G	46143621.82	46143621.95	46143622.11	0.0139	0.0114
Moon	121624-11-04 11:57 G	46143621.87	46143622.00	46143622.14	0.0139	0.0115 *
Venus	121651-03-13 10:45 G	46153246.87	46153246.95	46153247.06	0.0142	0.0129
Venus	121651-10-25 23:14 G	46153473.34	46153473.47	46153473.64	0.0142	0.0103
Venus	121652-06-08 12:12 G	46153699.83	46153700.01	46153700.20	0.0142	0.0076
Venus	121653-01-21 00:41 G	46153926.33	46153926.53	46153926.75	0.0142	0.0050
Venus	121653-09-04 13:09 G	46154152.83	46154153.05	46154153.27	0.0142	0.0023
Venus	121654-04-19 01:24 G	46154379.34	46154379.56	46154379.78	0.0142	0.0004
Venus	121654-12-01 13:24 G	46154605.85	46154606.06	46154606.28	0.0141	0.0030
Venus	121655-07-16 01:24 G	46154832.36	46154832.56	46154832.77	0.0141	0.0056
Venus	121656-02-27 13:09 G	46155058.87	46155059.05	46155059.23	0.0141	0.0082
Venus	121656-10-11 00:26 G	46155285.39	46155285.52	46155285.68	0.0141	0.0108
Venus	121657-05-25 11:57 G	46155511.94	46155512.00	46155512.08	0.0141	0.0133
Mercury	121660-06-16 03:19 G	46156629.57	46156629.64	46156629.72	0.0140	0.0122
Mercury	121660-09-12 09:05 G	46156717.76	46156717.88	46156717.99	0.0140	0.0099
Mercury	121660-12-09 14:36 G	46156805.98	46156806.11	46156806.25	0.0140	0.0076
Mercury	121661-03-07 20:21 G	46156894.20	46156894.35	46156894.50	0.0140	0.0053
Mercury	121661-06-04 02:07 G	46156982.43	46156982.59	46156982.75	0.0140	0.0029
Mercury	121661-08-31 07:53 G	46157070.66	46157070.83	46157071.00	0.0140	0.0006
Mercury	121661-11-27 13:38 G	46157158.91	46157159.07	46157159.24	0.0140	0.0018
Mercury	121662-02-23 19:38 G	46157247.16	46157247.32	46157247.48	0.0140	0.0042
Mercury	121662-05-23 01:24 G	46157335.41	46157335.56	46157335.71	0.0140	0.0066
Mercury	121662-08-19 07:24 G	46157423.68	46157423.81	46157423.94	0.0139	0.0090
Mercury	121662-11-15 13:09 G	46157511.96	46157512.05	46157512.16	0.0139	0.0114
Mercury	121663-02-11 19:09 G	46157600.29	46157600.30	46157600.33	0.0139	0.0139

Earth	121663-05-02 07:24 G	46157679.62	46157679.81	46157680.03	0.0139	0.0080
Moon	121663-05-02 10:45 G	46157679.76	46157679.95	46157680.16	0.0139	0.0084 *
Moon	121664-05-05 21:33 G	46158049.14	46158049.40	46158049.66	0.0139	0.0016
Earth	121664-05-06 00:12 G	46158049.26	46158049.51	46158049.77	0.0139	0.0017 *
Earth	121665-05-10 15:48 G	46158419.03	46158419.16	46158419.32	0.0139	0.0112
Moon	121665-05-10 18:41 G	46158419.16	46158419.28	46158419.43	0.0139	0.0116 *
Mars	121675-09-06 15:48 G	46162189.99	46162190.16	46162190.36	0.0136	0.0112
Venus	121693-12-13 05:57 G	46168862.67	46168862.75	46168862.88	0.0136	0.0117
Venus	121694-07-27 11:14 G	46169088.83	46169088.97	46169089.14	0.0136	0.0095
Venus	121695-03-10 16:17 G	46169315.01	46169315.18	46169315.37	0.0136	0.0073
Venus	121695-10-22 21:19 G	46169541.21	46169541.39	46169541.60	0.0136	0.0051
Venus	121696-06-05 02:50 G	46169767.41	46169767.62	46169767.83	0.0136	0.0028
Venus	121697-01-17 08:07 G	46169993.63	46169993.84	46169994.05	0.0136	0.0006
Venus	121697-08-31 13:24 G	46170219.85	46170220.06	46170220.27	0.0136	0.0017
Venus	121698-04-14 18:41 G	46170446.08	46170446.28	46170446.49	0.0137	0.0040
Venus	121698-11-27 00:12 G	46170672.33	46170672.51	46170672.71	0.0137	0.0062
Venus	121699-07-11 05:43 G	46170898.59	46170898.74	46170898.92	0.0137	0.0085
Venus	121700-02-22 11:43 G	46171124.87	46171124.99	46171125.13	0.0137	0.0107
Venus	121700-10-06 17:43 G	46171351.17	46171351.24	46171351.31	0.0137	0.0130
Mercury	121703-09-21 02:21 G	46172430.54	46172430.60	46172430.67	0.0138	0.0122
Mercury	121703-12-18 06:41 G	46172518.69	46172518.78	46172518.89	0.0138	0.0101
Mercury	121704-03-15 11:14 G	46172606.85	46172606.97	46172607.09	0.0138	0.0080
Mercury	121704-06-11 15:33 G	46172695.02	46172695.15	46172695.29	0.0138	0.0060
Mercury	121704-09-07 19:53 G	46172783.19	46172783.33	46172783.48	0.0138	0.0040
Mercury	121704-12-05 00:12 G	46172871.37	46172871.51	46172871.66	0.0138	0.0019
Mercury	121705-03-03 04:31 G	46172959.54	46172959.69	46172959.84	0.0138	0.0002
Mercury	121705-05-30 08:50 G	46173047.72	46173047.87	46173048.01	0.0138	0.0022
Mercury	121705-08-26 13:09 G	46173135.91	46173136.05	46173136.19	0.0138	0.0042
Mercury	121705-11-22 17:14 G	46173224.09	46173224.22	46173224.35	0.0138	0.0062
Mercury	121706-02-18 21:19 G	46173312.28	46173312.39	46173312.51	0.0139	0.0082

Mercury	121706-05-18 01:24 G	46173400.47	46173400.56	46173400.67	0.0139	0.0102
Mercury	121706-08-14 05:29 G	46173488.67	46173488.73	46173488.81	0.0139	0.0122
Moon	121706-10-28 12:12 G	46173563.81	46173564.01	46173564.24	0.0139	0.0079
Earth	121706-10-28 13:24 G	46173563.86	46173564.06	46173564.29	0.0139	0.0074 *
Earth	121707-11-02 04:45 G	46173933.45	46173933.70	46173933.95	0.0139	0.0021
Moon	121707-11-02 05:14 G	46173933.49	46173933.72	46173933.97	0.0139	0.0023 *
Moon	121708-11-05 19:24 G	46174303.19	46174303.31	46174303.46	0.0139	0.0118
Earth	121708-11-05 20:21 G	46174303.23	46174303.35	46174303.50	0.0139	0.0118 *
Mars	121717-11-16 05:43 G	46177600.51	46177600.74	46177600.98	0.0142	0.0083
Venus	121734-11-11 17:14 G	46183805.20	46183805.22	46183805.27	0.0142	0.0140
Venus	121735-06-26 06:12 G	46184031.63	46184031.76	46184031.90	0.0142	0.0114
Venus	121736-02-07 18:41 G	46184258.12	46184258.28	46184258.47	0.0142	0.0087
Venus	121736-09-21 07:24 G	46184484.61	46184484.81	46184485.02	0.0142	0.0060
Venus	121737-05-05 19:53 G	46184711.12	46184711.33	46184711.55	0.0142	0.0033
Venus	121737-12-18 08:21 G	46184937.63	46184937.85	46184938.07	0.0142	0.0007
Venus	121738-08-01 20:21 G	46185164.14	46185164.35	46185164.58	0.0142	0.0021
Venus	121739-03-16 08:21 G	46185390.65	46185390.85	46185391.07	0.0141	0.0047
Venus	121739-10-28 20:21 G	46185617.16	46185617.35	46185617.54	0.0141	0.0073
Venus	121740-06-11 07:53 G	46185843.68	46185843.83	46185843.99	0.0141	0.0099
Venus	121741-01-23 19:24 G	46186070.22	46186070.31	46186070.43	0.0141	0.0124
Mercury	121744-04-10 05:29 G	46187242.70	46187242.73	46187242.75	0.0140	0.0138
Mercury	121744-07-07 10:45 G	46187330.87	46187330.95	46187331.05	0.0140	0.0115
Mercury	121744-10-03 16:31 G	46187419.07	46187419.19	46187419.32	0.0140	0.0092
Mercury	121744-12-30 22:02 G	46187507.29	46187507.42	46187507.57	0.0140	0.0069
Mercury	121745-03-29 04:02 G	46187595.51	46187595.67	46187595.83	0.0140	0.0045
Mercury	121745-06-25 09:48 G	46187683.74	46187683.91	46187684.07	0.0140	0.0022
Mercury	121745-09-21 15:33 G	46187771.98	46187772.15	46187772.32	0.0140	0.0002
Mercury	121745-12-18 21:19 G	46187860.23	46187860.39	46187860.56	0.0140	0.0026
Mercury	121746-03-17 03:05 G	46187948.48	46187948.63	46187948.79	0.0140	0.0050
Mercury	121746-06-13 09:05 G	46188036.74	46188036.88	46188037.03	0.0139	0.0074

Mercury	121746-09-09 14:50 G	46188125.01	46188125.12	46188125.25	0.0139	0.0098
Mercury	121746-12-06 20:50 G	46188213.30	46188213.37	46188213.46	0.0139	0.0122
Moon	121747-05-03 16:02 G	46188360.97	46188361.17	46188361.39	0.0139	0.0080
Earth	121747-05-03 19:24 G	46188361.11	46188361.31	46188361.54	0.0139	0.0075 *
Earth	121748-05-07 12:26 G	46188730.77	46188731.02	46188731.27	0.0139	0.0022
Moon	121748-05-07 15:48 G	46188730.91	46188731.16	46188731.40	0.0139	0.0022 *
Moon	121749-05-12 00:12 G	46189100.41	46189100.51	46189100.66	0.0139	0.0120
Earth	121749-05-12 04:17 G	46189100.55	46189100.68	46189100.82	0.0139	0.0117 *
Venus	121777-08-13 17:14 G	46199421.15	46199421.22	46199421.31	0.0136	0.0125
Venus	121778-03-27 22:31 G	46199647.30	46199647.44	46199647.57	0.0136	0.0103
Venus	121778-11-09 03:05 G	46199873.47	46199873.63	46199873.81	0.0136	0.0082
Venus	121779-06-23 08:36 G	46200099.67	46200099.86	46200100.05	0.0136	0.0059
Venus	121780-02-04 13:24 G	46200325.87	46200326.06	46200326.28	0.0136	0.0038
Venus	121780-09-17 18:41 G	46200552.07	46200552.28	46200552.50	0.0136	0.0015
Venus	121781-05-01 23:57 G	46200778.29	46200778.50	46200778.71	0.0136	0.0008
Venus	121781-12-14 05:14 G	46201004.52	46201004.72	46201004.93	0.0136	0.0031
Venus	121782-07-28 10:45 G	46201230.76	46201230.95	46201231.15	0.0137	0.0053
Venus	121783-03-11 16:17 G	46201457.01	46201457.18	46201457.36	0.0137	0.0076
Venus	121783-10-23 21:48 G	46201683.27	46201683.41	46201683.57	0.0137	0.0099
Venus	121784-06-06 03:33 G	46201909.57	46201909.65	46201909.76	0.0137	0.0121
Mercury	121787-07-15 05:29 G	46203043.71	46203043.73	46203043.75	0.0138	0.0136
Mercury	121787-10-11 09:33 G	46203131.83	46203131.90	46203131.99	0.0138	0.0116
Mercury	121788-01-07 14:07 G	46203219.99	46203220.09	46203220.21	0.0138	0.0095
Mercury	121788-04-04 18:41 G	46203308.15	46203308.28	46203308.41	0.0138	0.0074
Mercury	121788-07-01 23:00 G	46203396.32	46203396.46	46203396.60	0.0138	0.0054
Mercury	121788-09-28 03:19 G	46203484.50	46203484.64	46203484.79	0.0138	0.0033
Mercury	121788-12-25 07:38 G	46203572.67	46203572.82	46203572.97	0.0138	0.0013
Mercury	121789-03-23 11:57 G	46203660.85	46203661.00	46203661.15	0.0138	0.0008
Mercury	121789-06-19 16:02 G	46203749.03	46203749.17	46203749.32	0.0138	0.0028
Mercury	121789-09-15 20:21 G	46203837.21	46203837.35	46203837.49	0.0138	0.0048

Mercury	121789-12-13 00:26 G	46203925.40	46203925.52	46203925.65	0.0138	0.0068
Mercury	121790-03-11 04:45 G	46204013.59	46204013.70	46204013.81	0.0138	0.0088
Mercury	121790-06-07 08:50 G	46204101.79	46204101.87	46204101.97	0.0139	0.0108
Mercury	121790-09-03 12:55 G	46204189.99	46204190.04	46204190.10	0.0139	0.0128
Earth	121790-10-29 00:26 G	46204245.31	46204245.52	46204245.75	0.0139	0.0069
Moon	121790-10-29 02:36 G	46204245.42	46204245.61	46204245.83	0.0139	0.0076 *
Moon	121791-11-02 13:38 G	46204614.82	46204615.07	46204615.33	0.0139	0.0029
Earth	121791-11-02 15:33 G	46204614.91	46204615.15	46204615.41	0.0139	0.0026 *
Earth	121792-11-06 07:24 G	46204984.69	46204984.81	46204984.94	0.0139	0.0122
Moon	121792-11-06 09:05 G	46204984.79	46204984.88	46204985.03	0.0139	0.0122 *
Mars	121802-07-13 04:02 G	46208519.46	46208519.67	46208519.90	0.0142	0.0091
Venus	121819-02-24 12:41 G	46214589.93	46214590.03	46214590.14	0.0142	0.0124
Venus	121819-10-09 01:09 G	46214816.40	46214816.55	46214816.73	0.0142	0.0098
Venus	121820-05-22 13:53 G	46215042.90	46215043.08	46215043.28	0.0142	0.0071
Venus	121821-01-04 02:36 G	46215269.40	46215269.61	46215269.83	0.0142	0.0044
Venus	121821-08-18 15:05 G	46215495.91	46215496.13	46215496.35	0.0142	0.0017
Venus	121822-04-02 03:19 G	46215722.42	46215722.64	46215722.86	0.0142	0.0010
Venus	121822-11-14 15:19 G	46215948.93	46215949.14	46215949.36	0.0142	0.0036
Venus	121823-06-29 03:19 G	46216175.44	46216175.64	46216175.84	0.0141	0.0063
Venus	121824-02-10 14:50 G	46216401.96	46216402.12	46216402.31	0.0141	0.0089
Venus	121824-09-24 02:36 G	46216628.49	46216628.61	46216628.74	0.0141	0.0115
Venus	121825-05-08 13:38 G	46216855.07	46216855.07	46216855.12	0.0141	0.0140
Mercury	121828-05-01 12:41 G	46217943.99	46217944.03	46217944.10	0.0140	0.0131
Mercury	121828-07-28 18:26 G	46218032.17	46218032.27	46218032.38	0.0140	0.0107
Mercury	121828-10-25 00:12 G	46218120.38	46218120.51	46218120.64	0.0140	0.0084
Mercury	121829-01-21 05:43 G	46218208.60	46218208.74	46218208.90	0.0140	0.0061
Mercury	121829-04-19 11:29 G	46218296.82	46218296.98	46218297.15	0.0140	0.0037
Mercury	121829-07-16 17:14 G	46218385.06	46218385.22	46218385.39	0.0140	0.0014
Mercury	121829-10-12 23:00 G	46218473.30	46218473.46	46218473.63	0.0140	0.0011
Mercury	121830-01-09 05:00 G	46218561.55	46218561.71	46218561.87	0.0140	0.0034

Mercury	121830-04-07 10:45 G	46218649.80	46218649.95	46218650.11	0.0140	0.0058
Mercury	121830-07-04 16:45 G	46218738.06	46218738.20	46218738.34	0.0139	0.0082
Mercury	121830-09-30 22:31 G	46218826.34	46218826.44	46218826.56	0.0139	0.0106
Mercury	121830-12-28 04:31 G	46218914.64	46218914.69	46218914.76	0.0139	0.0130
Earth	121831-05-05 07:38 G	46219042.60	46219042.82	46219043.05	0.0139	0.0069
Moon	121831-05-05 11:00 G	46219042.76	46219042.96	46219043.19	0.0139	0.0076 *
Moon	121832-05-08 20:50 G	46219412.13	46219412.37	46219412.62	0.0139	0.0030
Earth	121832-05-09 00:26 G	46219412.27	46219412.52	46219412.77	0.0139	0.0027 *
Earth	121833-05-13 16:17 G	46219782.07	46219782.18	46219782.30	0.0139	0.0122
Moon	121833-05-13 19:38 G	46219782.23	46219782.32	46219782.46	0.0139	0.0124 *
Mars	121843-01-25 05:00 G	46223325.38	46223325.71	46223326.03	0.0136	0.0007
Venus	121861-04-14 03:48 G	46229979.64	46229979.66	46229979.71	0.0136	0.0134
Venus	121861-11-26 09:05 G	46230205.76	46230205.88	46230206.00	0.0136	0.0112
Venus	121862-07-10 13:38 G	46230431.93	46230432.07	46230432.24	0.0136	0.0091
Venus	121863-02-21 18:55 G	46230658.11	46230658.29	46230658.47	0.0136	0.0068
Venus	121863-10-05 23:43 G	46230884.30	46230884.49	46230884.70	0.0136	0.0046
Venus	121864-05-19 04:45 G	46231110.50	46231110.70	46231110.92	0.0136	0.0024
Venus	121864-12-31 10:02 G	46231336.71	46231336.92	46231337.13	0.0136	0.0001
Venus	121865-08-14 15:19 G	46231562.93	46231563.14	46231563.35	0.0136	0.0022
Venus	121866-03-28 20:21 G	46231789.16	46231789.35	46231789.56	0.0137	0.0045
Venus	121866-11-10 02:07 G	46232015.40	46232015.59	46232015.77	0.0137	0.0067
Venus	121867-06-24 07:24 G	46232241.66	46232241.81	46232241.98	0.0137	0.0090
Venus	121868-02-05 13:24 G	46232467.94	46232468.06	46232468.18	0.0137	0.0112
Venus	121868-09-18 18:55 G	46232694.27	46232694.29	46232694.34	0.0137	0.0135
Mercury	121871-08-05 12:26 G	46233744.98	46233745.02	46233745.07	0.0138	0.0131
Mercury	121871-11-01 17:00 G	46233833.12	46233833.21	46233833.30	0.0138	0.0110
Mercury	121872-01-28 21:05 G	46233921.28	46233921.38	46233921.51	0.0138	0.0090
Mercury	121872-04-26 01:38 G	46234009.45	46234009.57	46234009.71	0.0138	0.0069
Mercury	121872-07-23 06:12 G	46234097.62	46234097.76	46234097.90	0.0138	0.0048
Mercury	121872-10-19 10:31 G	46234185.79	46234185.94	46234186.08	0.0138	0.0028

Mercury	121873-01-15 14:50	G	46234273.97	46234274.12	46234274.27	0.0138	0.0008
Mercury	121873-04-13 19:09	G	46234362.15	46234362.30	46234362.44	0.0138	0.0013
Mercury	121873-07-10 23:14	G	46234450.33	46234450.47	46234450.62	0.0138	0.0033
Mercury	121873-10-07 03:33	G	46234538.51	46234538.65	46234538.79	0.0138	0.0053
Mercury	121874-01-03 07:38	G	46234626.70	46234626.82	46234626.95	0.0138	0.0073
Mercury	121874-04-01 11:43	G	46234714.89	46234714.99	46234715.11	0.0138	0.0093
Mercury	121874-06-28 16:02	G	46234803.09	46234803.17	46234803.26	0.0139	0.0113
Mercury	121874-09-24 20:07	G	46234891.31	46234891.34	46234891.38	0.0139	0.0133
Moon	121874-10-30 06:41	G	46234926.57	46234926.78	46234927.01	0.0139	0.0073
Earth	121874-10-30 09:48	G	46234926.70	46234926.91	46234927.15	0.0139	0.0066 *
Earth	121875-11-04 00:55	G	46235296.30	46235296.54	46235296.79	0.0139	0.0029
Moon	121875-11-04 03:48	G	46235296.42	46235296.66	46235296.90	0.0139	0.0034 *
Moon	121876-11-07 12:55	G	46235665.94	46235666.04	46235666.19	0.0139	0.0122
Earth	121876-11-07 16:45	G	46235666.09	46235666.20	46235666.31	0.0139	0.0125 *
Venus	121902-10-25 19:09	G	46245148.24	46245148.30	46245148.37	0.0142	0.0136
Venus	121903-06-09 07:38	G	46245374.70	46245374.82	46245374.98	0.0142	0.0110
Venus	121904-01-21 20:36	G	46245601.19	46245601.36	46245601.55	0.0142	0.0082
Venus	121904-09-04 09:19	G	46245827.69	46245827.89	46245828.10	0.0142	0.0055
Venus	121905-04-18 21:48	G	46246054.19	46246054.41	46246054.63	0.0142	0.0028
Venus	121905-12-01 10:17	G	46246280.70	46246280.93	46246281.15	0.0142	0.0003
Venus	121906-07-15 22:17	G	46246507.21	46246507.43	46246507.65	0.0142	0.0026
Venus	121907-02-27 10:17	G	46246733.73	46246733.93	46246734.14	0.0142	0.0053
Venus	121907-10-11 21:48	G	46246960.24	46246960.41	46246960.61	0.0141	0.0080
Venus	121908-05-25 09:33	G	46247186.77	46247186.90	46247187.06	0.0141	0.0106
Venus	121909-01-06 21:05	G	46247413.32	46247413.38	46247413.49	0.0141	0.0131
Mercury	121912-05-22 20:36	G	46248645.29	46248645.36	46248645.44	0.0140	0.0122
Mercury	121912-08-19 02:07	G	46248733.48	46248733.59	46248733.71	0.0140	0.0099
Mercury	121912-11-15 07:53	G	46248821.70	46248821.83	46248821.97	0.0140	0.0076
Mercury	121913-02-11 13:24	G	46248909.92	46248910.06	46248910.22	0.0140	0.0053
Mercury	121913-05-10 19:24	G	46248998.15	46248998.31	46248998.47	0.0140	0.0029

Mercury	121913-08-07 01:09 G	46249086.38	46249086.55	46249086.71	0.0140	0.0006
Mercury	121913-11-03 06:55 G	46249174.62	46249174.79	46249174.95	0.0140	0.0018
Mercury	121914-01-30 12:41 G	46249262.87	46249263.03	46249263.19	0.0140	0.0042
Mercury	121914-04-28 18:26 G	46249351.13	46249351.27	46249351.42	0.0140	0.0067
Mercury	121914-07-26 00:26 G	46249439.40	46249439.52	46249439.65	0.0140	0.0090
Mercury	121914-10-22 06:26 G	46249527.68	46249527.77	46249527.87	0.0139	0.0115
Mercury	121915-01-18 12:12 G	46249616.01	46249616.01	46249616.03	0.0139	0.0139
Moon	121915-05-06 16:45 G	46249724.00	46249724.20	46249724.43	0.0139	0.0071
Earth	121915-05-06 20:07 G	46249724.12	46249724.34	46249724.57	0.0139	0.0063 *
Earth	121916-05-10 12:55 G	46250093.79	46250094.04	46250094.29	0.0139	0.0033
Moon	121916-05-10 16:02 G	46250093.93	46250094.17	46250094.43	0.0139	0.0037 *
Moon	121917-05-15 01:09 G	46250463.46	46250463.55	46250463.66	0.0139	0.0127
Earth	121917-05-15 04:45 G	46250463.61	46250463.70	46250463.80	0.0139	0.0128 *
Venus	121945-07-27 20:21 G	46260764.26	46260764.35	46260764.45	0.0136	0.0121
Venus	121946-03-11 01:09 G	46260990.41	46260990.55	46260990.70	0.0136	0.0099
Venus	121946-10-23 05:57 G	46261216.58	46261216.75	46261216.93	0.0136	0.0077
Venus	121947-06-06 11:00 G	46261442.77	46261442.96	46261443.16	0.0136	0.0055
Venus	121948-01-18 16:02 G	46261668.97	46261669.17	46261669.38	0.0136	0.0032
Venus	121948-08-31 21:05 G	46261895.17	46261895.38	46261895.60	0.0136	0.0010
Venus	121949-04-15 02:07 G	46262121.38	46262121.59	46262121.81	0.0136	0.0013
Venus	121949-11-27 07:24 G	46262347.61	46262347.81	46262348.02	0.0136	0.0036
Venus	121950-07-11 12:41 G	46262573.85	46262574.03	46262574.24	0.0137	0.0059
Venus	121951-02-22 18:26 G	46262800.10	46262800.27	46262800.44	0.0137	0.0081
Venus	121951-10-06 23:43 G	46263026.37	46263026.49	46263026.64	0.0137	0.0104
Venus	121952-05-20 05:14 G	46263252.66	46263252.72	46263252.82	0.0137	0.0127
Mercury	121955-08-26 19:53 G	46264446.27	46264446.33	46264446.40	0.0138	0.0124
Mercury	121955-11-23 00:12 G	46264534.42	46264534.51	46264534.62	0.0138	0.0104
Mercury	121956-02-19 04:45 G	46264622.59	46264622.70	46264622.82	0.0138	0.0083
Mercury	121956-05-17 09:19 G	46264710.75	46264710.89	46264711.02	0.0138	0.0062
Mercury	121956-08-13 13:38 G	46264798.93	46264799.07	46264799.21	0.0138	0.0042

Mercury	121956-11-09 17:57 G	46264887.10	46264887.25	46264887.40	0.0138	0.0021
Mercury	121957-02-05 22:17 G	46264975.28	46264975.43	46264975.58	0.0138	0.0001
Mercury	121957-05-05 02:36 G	46265063.46	46265063.61	46265063.75	0.0138	0.0019
Mercury	121957-08-01 06:55 G	46265151.64	46265151.79	46265151.93	0.0138	0.0040
Mercury	121957-10-28 11:00 G	46265239.83	46265239.96	46265240.09	0.0138	0.0060
Mercury	121958-01-24 15:05 G	46265328.02	46265328.13	46265328.26	0.0138	0.0080
Mercury	121958-04-22 19:09 G	46265416.21	46265416.30	46265416.41	0.0139	0.0100
Mercury	121958-07-19 23:14 G	46265504.41	46265504.47	46265504.56	0.0139	0.0120
Earth	121958-10-31 21:19 G	46265608.16	46265608.39	46265608.62	0.0139	0.0060
Moon	121958-11-01 00:41 G	46265608.32	46265608.53	46265608.76	0.0139	0.0068 *
Moon	121959-11-05 08:50 G	46265977.63	46265977.87	46265978.12	0.0139	0.0040
Earth	121959-11-05 12:12 G	46265977.77	46265978.01	46265978.26	0.0139	0.0034 *
Earth	121960-11-09 03:33 G	46266347.57	46266347.65	46266347.75	0.0139	0.0130
Moon	121960-11-09 06:55 G	46266347.70	46266347.79	46266347.92	0.0139	0.0126 *
Mars	121969-11-30 15:19 G	46269655.87	46269656.14	46269656.43	0.0142	0.0038
Venus	121987-02-06 14:21 G	46275933.00	46275933.10	46275933.24	0.0142	0.0121
Venus	121987-09-21 03:19 G	46276159.48	46276159.64	46276159.82	0.0142	0.0093
Venus	121988-05-04 15:48 G	46276385.98	46276386.16	46276386.37	0.0142	0.0067
Venus	121988-12-17 04:31 G	46276612.49	46276612.69	46276612.91	0.0142	0.0039
Venus	121989-07-31 17:00 G	46276838.99	46276839.21	46276839.44	0.0142	0.0012
Venus	121990-03-15 05:14 G	46277065.50	46277065.72	46277065.95	0.0142	0.0016
Venus	121990-10-27 17:14 G	46277292.01	46277292.22	46277292.44	0.0142	0.0042
Venus	121991-06-11 05:14 G	46277518.53	46277518.72	46277518.92	0.0142	0.0069
Venus	121992-01-23 17:00 G	46277745.06	46277745.21	46277745.39	0.0141	0.0096
Venus	121992-09-06 04:31 G	46277971.60	46277971.69	46277971.82	0.0141	0.0122
Mercury	121996-03-15 22:31 G	46279258.42	46279258.44	46279258.49	0.0140	0.0138
Mercury	121996-06-12 04:17 G	46279346.59	46279346.68	46279346.78	0.0140	0.0114
Mercury	121996-09-08 09:48 G	46279434.80	46279434.91	46279435.05	0.0140	0.0091
Mercury	121996-12-05 15:33 G	46279523.01	46279523.15	46279523.30	0.0140	0.0068
Mercury	121997-03-03 21:19 G	46279611.24	46279611.39	46279611.55	0.0140	0.0044

Mercury	121997-05-31 03:05 G	46279699.47	46279699.63	46279699.80	0.0140	0.0021
Mercury	121997-08-27 08:50 G	46279787.70	46279787.87	46279788.04	0.0140	0.0003
Mercury	121997-11-23 14:36 G	46279875.95	46279876.11	46279876.28	0.0140	0.0027
Mercury	121998-02-19 20:21 G	46279964.20	46279964.35	46279964.51	0.0140	0.0051
Mercury	121998-05-19 02:07 G	46280052.46	46280052.59	46280052.74	0.0140	0.0075
Mercury	121998-08-15 08:07 G	46280140.73	46280140.84	46280140.96	0.0140	0.0099
Mercury	121998-11-11 13:53 G	46280229.02	46280229.08	46280229.17	0.0139	0.0124
Earth	121999-05-07 08:21 G	46280405.62	46280405.85	46280406.09	0.0139	0.0057
Moon	121999-05-07 10:45 G	46280405.73	46280405.95	46280406.20	0.0139	0.0065 *
Moon	122000-05-10 22:31 G	46280775.21	46280775.44	46280775.68	0.0139	0.0044
Earth	122000-05-11 01:09 G	46280775.31	46280775.55	46280775.80	0.0139	0.0039 *

123RD MILLENNIUM CE

This is a list of transits visible from Uranus in the 123rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	122001-05-15 16:45 G	46281145.15	46281145.20	46281145.28	0.0139	0.0134		
Moon	122001-05-15 19:53 G	46281145.27	46281145.33	46281145.43	0.0139	0.0132 *		
Mars	122010-06-13 16:17 G	46284461.08	46284461.18	46284461.33	0.0136	0.0126		
Venus	122029-03-27 07:24 G	46291322.77	46291322.81	46291322.88	0.0136	0.0130		
Venus	122029-11-08 12:12 G	46291548.89	46291549.01	46291549.15	0.0136	0.0108		
Venus	122030-06-22 17:14 G	46291775.06	46291775.22	46291775.39	0.0136	0.0086		
Venus	122031-02-03 22:02 G	46292001.24	46292001.42	46292001.61	0.0136	0.0064		

Venus	122031-09-18 02:50 G	46292227.42	46292227.62	46292227.83	0.0136	0.0042
Venus	122032-05-01 07:53 G	46292453.62	46292453.83	46292454.04	0.0136	0.0019
Venus	122032-12-13 12:55 G	46292679.83	46292680.04	46292680.25	0.0136	0.0004
Venus	122033-07-27 18:12 G	46292906.05	46292906.26	46292906.47	0.0136	0.0027
Venus	122034-03-10 23:14 G	46293132.28	46293132.47	46293132.68	0.0136	0.0050
Venus	122034-10-23 04:31 G	46293358.52	46293358.69	46293358.89	0.0137	0.0073
Venus	122035-06-06 10:17 G	46293584.78	46293584.93	46293585.09	0.0137	0.0095
Venus	122036-01-18 15:48 G	46293811.07	46293811.16	46293811.28	0.0137	0.0118
Mercury	122039-09-16 03:05 G	46295147.56	46295147.63	46295147.71	0.0138	0.0119
Mercury	122039-12-13 07:38 G	46295235.72	46295235.82	46295235.93	0.0138	0.0098
Mercury	122040-03-10 11:57 G	46295323.88	46295324.00	46295324.13	0.0138	0.0077
Mercury	122040-06-06 16:31 G	46295412.05	46295412.19	46295412.33	0.0138	0.0056
Mercury	122040-09-02 20:50 G	46295500.23	46295500.37	46295500.52	0.0138	0.0036
Mercury	122040-11-30 01:09 G	46295588.41	46295588.55	46295588.70	0.0138	0.0016
Mercury	122041-02-26 05:29 G	46295676.58	46295676.73	46295676.88	0.0138	0.0005
Mercury	122041-05-25 09:48 G	46295764.77	46295764.91	46295765.06	0.0138	0.0025
Mercury	122041-08-21 13:53 G	46295852.95	46295853.08	46295853.23	0.0138	0.0046
Mercury	122041-11-17 18:12 G	46295941.13	46295941.26	46295941.39	0.0138	0.0065
Mercury	122042-02-13 22:17 G	46296029.32	46296029.43	46296029.55	0.0138	0.0086
Mercury	122042-05-13 02:36 G	46296117.52	46296117.61	46296117.71	0.0139	0.0105
Mercury	122042-08-09 06:41 G	46296205.72	46296205.78	46296205.85	0.0139	0.0125
Moon	122042-11-01 03:48 G	46296289.45	46296289.66	46296289.89	0.0139	0.0064
Earth	122042-11-01 07:24 G	46296289.58	46296289.81	46296290.05	0.0139	0.0056 *
Earth	122043-11-05 22:02 G	46296659.18	46296659.42	46296659.67	0.0139	0.0038
Moon	122043-11-06 01:38 G	46296659.33	46296659.57	46296659.81	0.0139	0.0045 *
Moon	122044-11-09 09:33 G	46297028.81	46297028.90	46297029.01	0.0139	0.0128
Earth	122044-11-09 13:09 G	46297029.00	46297029.05	46297029.14	0.0139	0.0134 *
Mars	122054-07-26 11:00 G	46300574.90	46300574.96	46300575.07	0.0142	0.0135
Venus	122070-10-06 21:05 G	46306491.30	46306491.38	46306491.46	0.0143	0.0132
Venus	122071-05-21 09:48 G	46306717.76	46306717.91	46306718.06	0.0142	0.0105

Venus	122072-01-02 22:31 G	46306944.26	46306944.44	46306944.64	0.0142	0.0078
Venus	122072-08-16 11:14 G	46307170.77	46307170.97	46307171.18	0.0142	0.0050
Venus	122073-03-30 23:43 G	46307397.27	46307397.49	46307397.71	0.0142	0.0023
Venus	122073-11-12 12:12 G	46307623.78	46307624.01	46307624.23	0.0142	0.0005
Venus	122074-06-27 00:12 G	46307850.30	46307850.51	46307850.73	0.0142	0.0032
Venus	122075-02-08 12:12 G	46308076.82	46308077.01	46308077.23	0.0142	0.0059
Venus	122075-09-23 00:26 G	46308303.35	46308303.52	46308303.70	0.0142	0.0085
Venus	122076-05-06 11:57 G	46308529.88	46308530.00	46308530.15	0.0141	0.0111
Venus	122076-12-18 23:43 G	46308756.46	46308756.49	46308756.56	0.0141	0.0137
Mercury	122080-04-05 06:26 G	46309959.72	46309959.77	46309959.84	0.0140	0.0129
Mercury	122080-07-02 11:57 G	46310047.91	46310048.00	46310048.12	0.0140	0.0106
Mercury	122080-09-28 17:43 G	46310136.11	46310136.24	46310136.38	0.0140	0.0083
Mercury	122080-12-25 23:29 G	46310224.33	46310224.48	46310224.63	0.0140	0.0059
Mercury	122081-03-24 05:14 G	46310312.56	46310312.72	46310312.88	0.0140	0.0036
Mercury	122081-06-20 11:00 G	46310400.79	46310400.96	46310401.12	0.0140	0.0013
Mercury	122081-09-16 16:45 G	46310489.03	46310489.20	46310489.36	0.0140	0.0012
Mercury	122081-12-13 22:31 G	46310577.28	46310577.44	46310577.60	0.0140	0.0035
Mercury	122082-03-12 04:02 G	46310665.53	46310665.67	46310665.83	0.0140	0.0060
Moon	122082-05-03 05:14 G	46310717.72	46310717.72	46310717.75	0.0140	0.0140
Mercury	122082-06-08 10:02 G	46310753.79	46310753.92	46310754.06	0.0140	0.0084
Mercury	122082-09-04 15:48 G	46310842.07	46310842.16	46310842.28	0.0140	0.0108
Mercury	122082-12-01 22:02 G	46310930.37	46310930.42	46310930.48	0.0140	0.0132
Moon	122083-05-07 19:24 G	46311087.09	46311087.31	46311087.54	0.0139	0.0058
Earth	122083-05-07 21:19 G	46311087.15	46311087.39	46311087.63	0.0139	0.0050 *
Earth	122084-05-11 13:38 G	46311456.84	46311457.07	46311457.33	0.0139	0.0046
Moon	122084-05-11 16:02 G	46311456.93	46311457.17	46311457.42	0.0139	0.0051 *
Moon	122085-05-16 02:50 G	46311826.61	46311826.62	46311826.67	0.0139	0.0138
Mars	122095-02-07 10:17 G	46315380.64	46315380.93	46315381.23	0.0136	0.0057
Venus	122113-07-09 23:57 G	46322107.41	46322107.50	46322107.62	0.0136	0.0117
Venus	122114-02-21 04:45 G	46322333.56	46322333.70	46322333.86	0.0136	0.0095

Venus	122114-10-05 09:33 G	46322559.73	46322559.90	46322560.09	0.0136	0.0073
Venus	122115-05-19 14:36 G	46322785.91	46322786.11	46322786.31	0.0136	0.0050
Venus	122115-12-31 19:24 G	46323012.11	46323012.31	46323012.52	0.0136	0.0028
Venus	122116-08-14 00:26 G	46323238.31	46323238.52	46323238.74	0.0136	0.0006
Venus	122117-03-28 05:29 G	46323464.53	46323464.73	46323464.95	0.0136	0.0018
Venus	122117-11-09 10:45 G	46323690.75	46323690.95	46323691.16	0.0136	0.0041
Venus	122118-06-23 16:17 G	46323916.99	46323917.18	46323917.37	0.0136	0.0064
Venus	122119-02-04 21:33 G	46324143.25	46324143.40	46324143.57	0.0137	0.0087
Venus	122119-09-19 03:05 G	46324369.52	46324369.63	46324369.77	0.0137	0.0110
Venus	122120-05-02 09:05 G	46324595.83	46324595.88	46324595.93	0.0137	0.0132
Mercury	122123-07-11 06:12 G	46325760.73	46325760.76	46325760.81	0.0138	0.0132
Mercury	122123-10-07 10:45 G	46325848.87	46325848.95	46325849.05	0.0138	0.0111
Mercury	122124-01-03 15:19 G	46325937.03	46325937.14	46325937.26	0.0138	0.0090
Mercury	122124-03-31 19:38 G	46326025.20	46326025.32	46326025.46	0.0138	0.0070
Mercury	122124-06-28 00:12 G	46326113.37	46326113.51	46326113.65	0.0138	0.0049
Mercury	122124-09-24 04:31 G	46326201.55	46326201.69	46326201.84	0.0138	0.0029
Mercury	122124-12-21 08:50 G	46326289.72	46326289.87	46326290.02	0.0138	0.0008
Mercury	122125-03-19 13:09 G	46326377.90	46326378.05	46326378.20	0.0138	0.0012
Mercury	122125-06-15 17:29 G	46326466.08	46326466.23	46326466.37	0.0138	0.0032
Mercury	122125-09-11 21:33 G	46326554.27	46326554.40	46326554.54	0.0138	0.0053
Moon	122125-10-29 01:53 G	46326601.56	46326601.58	46326601.64	0.0138	0.0136
Mercury	122125-12-09 01:53 G	46326642.46	46326642.58	46326642.71	0.0138	0.0072
Mercury	122126-03-07 05:57 G	46326730.65	46326730.75	46326730.86	0.0138	0.0092
Mercury	122126-06-03 10:17 G	46326818.85	46326818.93	46326819.01	0.0139	0.0112
Mercury	122126-08-30 14:07 G	46326907.06	46326907.09	46326907.14	0.0139	0.0132
Earth	122126-11-02 19:09 G	46326971.08	46326971.30	46326971.55	0.0139	0.0050
Moon	122126-11-02 22:31 G	46326971.22	46326971.44	46326971.69	0.0139	0.0057 *
Moon	122127-11-07 06:26 G	46327340.55	46327340.77	46327341.02	0.0139	0.0052
Earth	122127-11-07 10:02 G	46327340.69	46327340.92	46327341.17	0.0139	0.0044 *
Earth	122128-11-11 01:24 G	46327710.56	46327710.56	46327710.56	0.0139	0.0139

Moon	122128-11-11 04:31 G	46327710.64	46327710.69	46327710.79	0.0139	0.0134
Venus	122155-01-19 16:17 G	46337276.07	46337276.18	46337276.32	0.0142	0.0117
Venus	122155-09-03 05:00 G	46337502.56	46337502.71	46337502.90	0.0142	0.0090
Venus	122156-04-16 17:57 G	46337729.05	46337729.25	46337729.46	0.0142	0.0062
Venus	122156-11-29 06:26 G	46337955.56	46337955.77	46337956.00	0.0142	0.0035
Venus	122157-07-13 19:09 G	46338182.08	46338182.30	46338182.52	0.0142	0.0007
Venus	122158-02-25 07:24 G	46338408.59	46338408.81	46338409.04	0.0142	0.0021
Venus	122158-10-09 19:38 G	46338635.11	46338635.32	46338635.53	0.0142	0.0048
Venus	122159-05-24 07:38 G	46338861.64	46338861.82	46338862.01	0.0142	0.0075
Venus	122160-01-05 19:38 G	46339088.18	46339088.32	46339088.48	0.0141	0.0101
Venus	122160-08-19 07:24 G	46339314.73	46339314.81	46339314.92	0.0141	0.0128
Mercury	122164-04-26 14:21 G	46340661.02	46340661.10	46340661.19	0.0140	0.0121
Mercury	122164-07-23 19:53 G	46340749.22	46340749.33	46340749.45	0.0140	0.0098
Mercury	122164-10-20 01:38 G	46340837.43	46340837.57	46340837.71	0.0140	0.0074
Mercury	122165-01-16 07:09 G	46340925.65	46340925.80	46340925.96	0.0140	0.0051
Mercury	122165-04-14 12:55 G	46341013.88	46341014.04	46341014.21	0.0140	0.0028
Mercury	122165-07-11 18:41 G	46341102.12	46341102.28	46341102.45	0.0140	0.0005
Mercury	122165-10-08 00:26 G	46341190.36	46341190.52	46341190.69	0.0140	0.0020
Mercury	122166-01-04 06:12 G	46341278.61	46341278.76	46341278.92	0.0140	0.0044
Mercury	122166-04-02 12:12 G	46341366.86	46341367.01	46341367.16	0.0140	0.0068
Moon	122166-05-04 15:19 G	46341399.08	46341399.14	46341399.22	0.0140	0.0134
Mercury	122166-06-29 17:57 G	46341455.13	46341455.25	46341455.38	0.0140	0.0092
Mercury	122166-09-25 23:43 G	46341543.41	46341543.49	46341543.59	0.0140	0.0117
Earth	122167-05-09 09:48 G	46341768.67	46341768.91	46341769.16	0.0139	0.0043
Moon	122167-05-09 10:31 G	46341768.71	46341768.94	46341769.20	0.0139	0.0052 *
Moon	122168-05-13 01:38 G	46342138.35	46342138.57	46342138.79	0.0139	0.0059
Earth	122168-05-13 02:21 G	46342138.38	46342138.60	46342138.85	0.0139	0.0053 *
Venus	122197-03-09 11:29 G	46352665.91	46352665.98	46352666.07	0.0135	0.0126
Venus	122197-10-21 16:02 G	46352892.05	46352892.17	46352892.32	0.0136	0.0104
Venus	122198-06-04 20:50 G	46353118.21	46353118.37	46353118.55	0.0136	0.0082

Venus	122199-01-17 01:53 G	46353344.39	46353344.58	46353344.77	0.0136	0.0059
Venus	122199-08-31 06:41 G	46353570.58	46353570.78	46353570.99	0.0136	0.0037
Venus	122200-04-14 11:43 G	46353796.78	46353796.99	46353797.20	0.0136	0.0014
Venus	122200-11-26 16:45 G	46354022.99	46354023.20	46354023.41	0.0136	0.0009
Venus	122201-07-10 21:48 G	46354249.21	46354249.41	46354249.63	0.0136	0.0032
Venus	122202-02-22 03:05 G	46354475.44	46354475.63	46354475.83	0.0136	0.0055
Venus	122202-10-06 08:36 G	46354701.69	46354701.86	46354702.04	0.0136	0.0078
Venus	122203-05-20 13:53 G	46354927.95	46354928.08	46354928.23	0.0137	0.0101
Venus	122204-01-01 19:24 G	46355154.24	46355154.31	46355154.42	0.0137	0.0124
Mercury	122207-08-01 13:53 G	46356462.02	46356462.08	46356462.15	0.0138	0.0125
Mercury	122207-10-28 18:12 G	46356550.17	46356550.26	46356550.37	0.0138	0.0105
Mercury	122208-01-24 22:45 G	46356638.34	46356638.45	46356638.57	0.0138	0.0084
Mercury	122208-04-22 03:19 G	46356726.50	46356726.64	46356726.77	0.0138	0.0063
Mercury	122208-07-19 07:24 G	46356814.68	46356814.81	46356814.96	0.0138	0.0043
Mercury	122208-10-15 11:57 G	46356902.85	46356903.00	46356903.15	0.0138	0.0022
Mercury	122209-01-11 16:17 G	46356991.03	46356991.18	46356991.33	0.0138	0.0002
Mercury	122209-04-09 20:36 G	46357079.21	46357079.36	46357079.50	0.0138	0.0018
Mercury	122209-07-07 00:41 G	46357167.39	46357167.53	46357167.68	0.0138	0.0039
Mercury	122209-10-03 05:00 G	46357255.58	46357255.71	46357255.85	0.0138	0.0058
Earth	122209-10-30 16:02 G	46357283.16	46357283.17	46357283.23	0.0138	0.0137
Moon	122209-10-30 17:43 G	46357283.21	46357283.24	46357283.33	0.0138	0.0135 *
Mercury	122209-12-30 09:05 G	46357343.77	46357343.88	46357344.01	0.0138	0.0079
Mercury	122210-03-28 13:09 G	46357431.96	46357432.05	46357432.16	0.0138	0.0099
Mercury	122210-06-24 17:29 G	46357520.16	46357520.23	46357520.31	0.0139	0.0118
Mercury	122210-09-20 21:33 G	46357608.39	46357608.40	46357608.42	0.0139	0.0138
Moon	122210-11-04 05:00 G	46357652.49	46357652.71	46357652.95	0.0139	0.0049
Earth	122210-11-04 06:12 G	46357652.53	46357652.76	46357653.01	0.0139	0.0045 *
Earth	122211-11-08 20:50 G	46358022.14	46358022.37	46358022.61	0.0139	0.0049
Moon	122211-11-08 22:17 G	46358022.21	46358022.43	46358022.69	0.0139	0.0056 *
Moon	122212-11-12 09:48 G	46358391.88	46358391.91	46358391.97	0.0139	0.0136

Mars	122221-12-15 00:26 G	46361711.24	46361711.52	46361711.81	0.0142	0.0012
Venus	122238-09-19 22:45 G	46367834.36	46367834.45	46367834.55	0.0143	0.0128
Venus	122239-05-04 11:29 G	46368060.83	46368060.98	46368061.15	0.0143	0.0101
Venus	122239-12-17 00:12 G	46368287.33	46368287.51	46368287.72	0.0142	0.0074
Venus	122240-07-30 13:09 G	46368513.84	46368514.05	46368514.26	0.0142	0.0045
Venus	122241-03-14 01:38 G	46368740.35	46368740.57	46368740.80	0.0142	0.0018
Venus	122241-10-26 14:07 G	46368966.87	46368967.09	46368967.32	0.0142	0.0010
Venus	122242-06-10 02:21 G	46369193.39	46369193.60	46369193.82	0.0142	0.0037
Venus	122243-01-22 14:36 G	46369419.93	46369420.11	46369420.32	0.0142	0.0065
Venus	122243-09-06 03:05 G	46369646.46	46369646.63	46369646.80	0.0142	0.0091
Venus	122244-04-19 14:50 G	46369873.01	46369873.12	46369873.25	0.0141	0.0118
Mercury	122248-02-19 16:31 G	46371274.16	46371274.19	46371274.24	0.0140	0.0135
Mercury	122248-05-17 22:02 G	46371362.33	46371362.42	46371362.53	0.0140	0.0113
Mercury	122248-08-14 03:33 G	46371450.54	46371450.65	46371450.79	0.0140	0.0090
Mercury	122248-11-10 09:19 G	46371538.75	46371538.89	46371539.04	0.0140	0.0066
Mercury	122249-02-06 15:05 G	46371626.97	46371627.13	46371627.29	0.0140	0.0042
Mercury	122249-05-05 20:50 G	46371715.20	46371715.37	46371715.53	0.0140	0.0019
Mercury	122249-08-02 02:36 G	46371803.44	46371803.61	46371803.77	0.0140	0.0005
Mercury	122249-10-29 08:21 G	46371891.69	46371891.85	46371892.01	0.0140	0.0029
Mercury	122250-01-25 13:53 G	46371979.94	46371980.08	46371980.25	0.0140	0.0053
Mercury	122250-04-23 19:53 G	46372068.19	46372068.33	46372068.48	0.0140	0.0077
Moon	122250-05-06 01:24 G	46372080.52	46372080.56	46372080.65	0.0140	0.0135
Earth	122250-05-06 04:31 G	46372080.64	46372080.69	46372080.79	0.0140	0.0134 *
Mercury	122250-07-21 01:38 G	46372156.46	46372156.57	46372156.70	0.0140	0.0101
Mercury	122250-10-17 07:38 G	46372244.75	46372244.82	46372244.90	0.0140	0.0125
Earth	122251-05-10 22:31 G	46372450.19	46372450.44	46372450.69	0.0140	0.0037
Moon	122251-05-11 00:55 G	46372450.31	46372450.54	46372450.79	0.0140	0.0041 *
Moon	122252-05-14 12:12 G	46372819.79	46372820.01	46372820.25	0.0139	0.0064
Earth	122252-05-14 15:19 G	46372819.91	46372820.14	46372820.38	0.0139	0.0059 *
Mars	122262-06-28 01:09 G	46376516.26	46376516.55	46376516.85	0.0136	0.0056

Venus	122280-11-07 23:29 G	46383224.46	46383224.48	46383224.52	0.0135	0.0134
Venus	122281-06-22 04:17 G	46383450.57	46383450.68	46383450.80	0.0135	0.0112
Venus	122282-02-03 08:50 G	46383676.72	46383676.87	46383677.04	0.0136	0.0090
Venus	122282-09-17 13:24 G	46383902.89	46383903.06	46383903.26	0.0136	0.0068
Venus	122283-05-01 18:26 G	46384129.07	46384129.27	46384129.47	0.0136	0.0045
Venus	122283-12-13 23:14 G	46384355.27	46384355.47	46384355.69	0.0136	0.0023
Venus	122284-07-27 04:31 G	46384581.48	46384581.69	46384581.90	0.0136	0.0001
Venus	122285-03-10 09:33 G	46384807.69	46384807.90	46384808.11	0.0136	0.0024
Venus	122285-10-22 14:50 G	46385033.92	46385034.12	46385034.32	0.0136	0.0046
Venus	122286-06-05 20:07 G	46385260.16	46385260.34	46385260.53	0.0136	0.0070
Venus	122287-01-18 01:38 G	46385486.42	46385486.57	46385486.73	0.0136	0.0093
Venus	122287-09-01 07:09 G	46385712.70	46385712.80	46385712.92	0.0137	0.0116
Mercury	122291-08-21 21:19 G	46387163.33	46387163.39	46387163.48	0.0138	0.0118
Mercury	122291-11-18 01:53 G	46387251.48	46387251.58	46387251.70	0.0138	0.0097
Mercury	122292-02-14 06:26 G	46387339.65	46387339.77	46387339.90	0.0138	0.0076
Mercury	122292-05-12 10:45 G	46387427.82	46387427.95	46387428.09	0.0138	0.0056
Mercury	122292-08-08 15:19 G	46387515.99	46387516.14	46387516.28	0.0138	0.0035
Mercury	122292-11-04 19:38 G	46387604.17	46387604.32	46387604.47	0.0138	0.0015
Mercury	122293-01-31 23:57 G	46387692.35	46387692.50	46387692.65	0.0138	0.0006
Mercury	122293-04-30 04:02 G	46387780.53	46387780.67	46387780.82	0.0138	0.0026
Mercury	122293-07-27 08:21 G	46387868.71	46387868.85	46387868.99	0.0138	0.0046
Mercury	122293-10-23 12:41 G	46387956.90	46387957.03	46387957.16	0.0138	0.0066
Earth	122293-10-31 04:45 G	46387964.63	46387964.70	46387964.79	0.0138	0.0131
Moon	122293-10-31 07:09 G	46387964.77	46387964.80	46387964.85	0.0138	0.0137 *
Mercury	122294-01-19 16:45 G	46388045.09	46388045.20	46388045.32	0.0138	0.0086
Mercury	122294-04-17 20:50 G	46388133.29	46388133.37	46388133.47	0.0138	0.0106
Mercury	122294-07-15 00:55 G	46388221.49	46388221.54	46388221.61	0.0138	0.0126
Moon	122294-11-04 16:02 G	46388333.93	46388334.17	46388334.43	0.0139	0.0036
Earth	122294-11-04 18:41 G	46388334.04	46388334.28	46388334.53	0.0139	0.0039 *
Earth	122295-11-09 09:05 G	46388703.65	46388703.88	46388704.12	0.0139	0.0055

Moon	122295-11-09 11:29 G	46388703.76	46388703.98	46388704.21	0.0139	0.0055 *
Jupiter	122301-01-20 01:53 G	46390601.24	46390601.58	46390601.96	0.0140	0.0098
Venus	122322-05-21 05:29 G	46398392.69	46398392.73	46398392.79	0.0143	0.0139
Venus	122323-01-02 18:26 G	46398619.15	46398619.27	46398619.42	0.0143	0.0112
Venus	122323-08-17 07:09 G	46398845.64	46398845.80	46398846.00	0.0142	0.0085
Venus	122324-03-30 20:07 G	46399072.14	46399072.34	46399072.55	0.0142	0.0057
Venus	122324-11-12 08:50 G	46399298.66	46399298.87	46399299.09	0.0142	0.0029
Venus	122325-06-26 21:33 G	46399525.18	46399525.40	46399525.62	0.0142	0.0001
Venus	122326-02-08 10:02 G	46399751.70	46399751.92	46399752.14	0.0142	0.0027
Venus	122326-09-22 22:17 G	46399978.23	46399978.43	46399978.64	0.0142	0.0054
Venus	122327-05-07 10:17 G	46400204.76	46400204.93	46400205.13	0.0142	0.0082
Venus	122327-12-19 22:17 G	46400431.31	46400431.43	46400431.59	0.0142	0.0109
Venus	122328-08-02 10:31 G	46400657.89	46400657.94	46400658.02	0.0141	0.0135
Mercury	122332-03-12 00:26 G	46401975.46	46401975.52	46401975.59	0.0140	0.0127
Mercury	122332-06-08 05:57 G	46402063.65	46402063.75	46402063.87	0.0140	0.0104
Mercury	122332-09-04 11:43 G	46402151.86	46402151.99	46402152.12	0.0140	0.0080
Mercury	122332-12-01 17:14 G	46402240.07	46402240.22	46402240.37	0.0140	0.0057
Mercury	122333-02-27 22:45 G	46402328.30	46402328.45	46402328.62	0.0140	0.0035
Mercury	122333-05-27 04:45 G	46402416.53	46402416.70	46402416.86	0.0140	0.0010
Mercury	122333-08-23 10:17 G	46402504.77	46402504.93	46402505.10	0.0140	0.0014
Mercury	122333-11-19 16:02 G	46402593.02	46402593.17	46402593.34	0.0140	0.0038
Mercury	122334-02-15 21:48 G	46402681.27	46402681.41	46402681.57	0.0140	0.0062
Earth	122334-05-07 17:29 G	46402762.13	46402762.23	46402762.34	0.0140	0.0127
Moon	122334-05-07 20:21 G	46402762.29	46402762.35	46402762.43	0.0140	0.0134 *
Mercury	122334-05-15 03:33 G	46402769.53	46402769.65	46402769.79	0.0140	0.0086
Mercury	122334-08-11 09:33 G	46402857.80	46402857.90	46402858.01	0.0140	0.0110
Mercury	122334-11-07 15:33 G	46402946.11	46402946.15	46402946.20	0.0140	0.0134
Moon	122335-05-12 08:07 G	46403131.60	46403131.84	46403132.09	0.0140	0.0027
Earth	122335-05-12 11:29 G	46403131.73	46403131.98	46403132.23	0.0140	0.0031 *
Earth	122336-05-16 04:02 G	46403501.45	46403501.67	46403501.90	0.0139	0.0065

Moon	122336-05-16 07:38 G	46403501.59	46403501.82	46403502.05	0.0139	0.0064 *
Mars	122347-02-22 19:38 G	46407436.24	46407436.32	46407436.45	0.0136	0.0129
Venus	122365-02-20 15:48 G	46414009.08	46414009.16	46414009.27	0.0135	0.0121
Venus	122365-10-04 20:21 G	46414235.22	46414235.35	46414235.51	0.0135	0.0099
Venus	122366-05-19 01:09 G	46414461.38	46414461.55	46414461.73	0.0136	0.0076
Venus	122366-12-31 05:57 G	46414687.56	46414687.75	46414687.95	0.0136	0.0054
Venus	122367-08-14 11:00 G	46414913.76	46414913.96	46414914.17	0.0136	0.0031
Venus	122368-03-27 16:02 G	46415139.96	46415140.17	46415140.38	0.0136	0.0008
Venus	122368-11-08 21:05 G	46415366.17	46415366.38	46415366.59	0.0136	0.0015
Venus	122369-06-23 02:07 G	46415592.39	46415592.59	46415592.80	0.0136	0.0038
Venus	122370-02-04 07:24 G	46415818.63	46415818.81	46415819.01	0.0136	0.0061
Venus	122370-09-18 12:41 G	46416044.87	46416045.03	46416045.21	0.0136	0.0085
Venus	122371-05-02 18:12 G	46416271.14	46416271.26	46416271.40	0.0136	0.0108
Venus	122371-12-14 23:29 G	46416497.44	46416497.48	46416497.56	0.0137	0.0131
Mercury	122375-06-16 00:26 G	46417776.49	46417776.52	46417776.57	0.0138	0.0132
Mercury	122375-09-12 05:00 G	46417864.63	46417864.71	46417864.80	0.0138	0.0111
Mercury	122375-12-09 09:19 G	46417952.79	46417952.89	46417953.01	0.0138	0.0091
Mercury	122376-03-06 13:53 G	46418040.95	46418041.08	46418041.21	0.0138	0.0070
Mercury	122376-06-02 18:26 G	46418129.13	46418129.27	46418129.41	0.0138	0.0049
Mercury	122376-08-29 22:45 G	46418217.30	46418217.45	46418217.59	0.0138	0.0029
Mercury	122376-11-26 03:05 G	46418305.48	46418305.63	46418305.78	0.0138	0.0009
Mercury	122377-02-22 07:24 G	46418393.66	46418393.81	46418393.96	0.0138	0.0012
Mercury	122377-05-21 11:29 G	46418481.84	46418481.98	46418482.13	0.0138	0.0032
Mercury	122377-08-17 15:48 G	46418570.03	46418570.16	46418570.30	0.0138	0.0052
Moon	122377-11-01 12:55 G	46418645.98	46418646.04	46418646.12	0.0138	0.0133
Earth	122377-11-01 16:02 G	46418646.07	46418646.17	46418646.28	0.0138	0.0126 *
Mercury	122377-11-13 19:53 G	46418658.21	46418658.33	46418658.46	0.0138	0.0072
Mercury	122378-02-10 00:12 G	46418746.40	46418746.51	46418746.62	0.0138	0.0092
Mercury	122378-05-09 04:17 G	46418834.60	46418834.68	46418834.77	0.0138	0.0112
Mercury	122378-08-05 08:21 G	46418922.82	46418922.85	46418922.90	0.0138	0.0131

Earth	122378-11-06 05:29 G	46419015.49	46419015.73	46419015.98	0.0138	0.0034
Moon	122378-11-06 09:05 G	46419015.63	46419015.88	46419016.14	0.0138	0.0026 *
Moon	122379-11-10 16:31 G	46419384.97	46419385.19	46419385.43	0.0139	0.0053
Earth	122379-11-10 19:53 G	46419385.11	46419385.33	46419385.57	0.0139	0.0060 *
Mars	122389-05-04 16:02 G	46422848.01	46422848.17	46422848.37	0.0142	0.0110
Venus	122406-09-02 00:26 G	46429177.43	46429177.52	46429177.65	0.0143	0.0124
Venus	122407-04-16 13:38 G	46429403.91	46429404.07	46429404.24	0.0143	0.0096
Venus	122407-11-29 02:36 G	46429630.42	46429630.61	46429630.81	0.0143	0.0068
Venus	122408-07-12 15:19 G	46429856.93	46429857.14	46429857.36	0.0142	0.0040
Venus	122409-02-24 04:02 G	46430083.45	46430083.67	46430083.90	0.0142	0.0012
Venus	122409-10-08 16:31 G	46430309.98	46430310.19	46430310.42	0.0142	0.0017
Venus	122410-05-23 05:14 G	46430536.51	46430536.72	46430536.93	0.0142	0.0043
Venus	122411-01-04 17:29 G	46430763.05	46430763.23	46430763.43	0.0142	0.0071
Venus	122411-08-19 05:57 G	46430989.59	46430989.75	46430989.91	0.0142	0.0098
Venus	122412-04-01 17:43 G	46431216.15	46431216.24	46431216.35	0.0142	0.0125
Mercury	122416-04-01 08:07 G	46432676.76	46432676.84	46432676.94	0.0140	0.0119
Mercury	122416-06-28 13:38 G	46432764.96	46432765.07	46432765.20	0.0140	0.0096
Mercury	122416-09-24 19:24 G	46432853.17	46432853.31	46432853.45	0.0140	0.0072
Mercury	122416-12-22 00:55 G	46432941.39	46432941.54	46432941.70	0.0140	0.0049
Mercury	122417-03-20 06:41 G	46433029.62	46433029.78	46433029.95	0.0140	0.0025
Mercury	122417-06-16 12:26 G	46433117.85	46433118.02	46433118.19	0.0140	0.0002
Mercury	122417-09-12 18:12 G	46433206.09	46433206.26	46433206.42	0.0140	0.0022
Mercury	122417-12-09 23:43 G	46433294.34	46433294.49	46433294.66	0.0140	0.0046
Mercury	122418-03-08 05:43 G	46433382.60	46433382.74	46433382.89	0.0140	0.0070
Earth	122418-05-08 05:57 G	46433443.63	46433443.75	46433443.88	0.0140	0.0121
Moon	122418-05-08 06:26 G	46433443.69	46433443.77	46433443.89	0.0140	0.0128 *
Mercury	122418-06-04 11:29 G	46433470.86	46433470.98	46433471.11	0.0140	0.0094
Mercury	122418-08-31 17:29 G	46433559.14	46433559.23	46433559.32	0.0140	0.0118
Moon	122419-05-12 23:29 G	46433813.22	46433813.48	46433813.74	0.0140	0.0018
Earth	122419-05-12 23:57 G	46433813.25	46433813.50	46433813.75	0.0140	0.0025 *

Moon	122420-05-16 16:31 G	46434182.98	46434183.19	46434183.42	0.0139	0.0064
Earth	122420-05-16 16:45 G	46434182.99	46434183.20	46434183.42	0.0139	0.0071 *
Venus	122448-10-21 03:48 G	46444567.62	46444567.66	46444567.74	0.0135	0.0129
Venus	122449-06-04 08:50 G	46444793.74	46444793.87	46444794.00	0.0135	0.0107
Venus	122450-01-16 13:24 G	46445019.90	46445020.06	46445020.23	0.0135	0.0085
Venus	122450-08-30 18:12 G	46445246.07	46445246.26	46445246.45	0.0136	0.0062
Venus	122451-04-13 22:45 G	46445472.26	46445472.45	46445472.66	0.0136	0.0040
Venus	122451-11-26 03:48 G	46445698.45	46445698.66	46445698.88	0.0136	0.0017
Venus	122452-07-09 09:05 G	46445924.67	46445924.88	46445925.09	0.0136	0.0007
Venus	122453-02-20 14:07 G	46446150.88	46446151.09	46446151.30	0.0136	0.0030
Venus	122453-10-04 19:09 G	46446377.11	46446377.30	46446377.50	0.0136	0.0053
Venus	122454-05-19 00:26 G	46446603.35	46446603.52	46446603.70	0.0136	0.0076
Venus	122454-12-31 05:43 G	46446829.61	46446829.74	46446829.89	0.0136	0.0100
Venus	122455-08-14 11:14 G	46447055.89	46447055.97	46447056.08	0.0136	0.0123
Mercury	122459-07-06 08:21 G	46448477.78	46448477.85	46448477.91	0.0138	0.0124
Mercury	122459-10-02 12:26 G	46448565.93	46448566.02	46448566.13	0.0138	0.0104
Mercury	122459-12-29 17:00 G	46448654.10	46448654.21	46448654.34	0.0138	0.0083
Mercury	122460-03-26 21:19 G	46448742.27	46448742.39	46448742.54	0.0138	0.0063
Mercury	122460-06-23 01:53 G	46448830.44	46448830.58	46448830.73	0.0138	0.0042
Mercury	122460-09-19 06:12 G	46448918.62	46448918.76	46448918.91	0.0138	0.0022
Mercury	122460-12-16 10:45 G	46449006.80	46449006.95	46449007.10	0.0138	0.0003
Mercury	122461-03-14 15:05 G	46449094.98	46449095.13	46449095.27	0.0138	0.0019
Mercury	122461-06-10 19:09 G	46449183.16	46449183.30	46449183.45	0.0138	0.0039
Mercury	122461-09-06 23:29 G	46449271.35	46449271.48	46449271.62	0.0138	0.0059
Moon	122461-11-02 04:02 G	46449327.55	46449327.67	46449327.80	0.0138	0.0120
Earth	122461-11-02 04:17 G	46449327.56	46449327.68	46449327.81	0.0138	0.0120 *
Mercury	122461-12-04 03:33 G	46449359.54	46449359.65	46449359.78	0.0138	0.0079
Mercury	122462-03-02 07:38 G	46449447.73	46449447.82	46449447.93	0.0138	0.0100
Mercury	122462-05-29 11:57 G	46449535.93	46449536.00	46449536.08	0.0138	0.0119
Mercury	122462-08-25 16:17 G	46449624.18	46449624.18	46449624.18	0.0138	0.0138

Moon	122462-11-06 17:43 G	46449697.00	46449697.24	46449697.49	0.0138	0.0024
Earth	122462-11-06 17:57 G	46449697.01	46449697.25	46449697.50	0.0138	0.0028 *
Earth	122463-11-11 08:07 G	46450066.63	46450066.84	46450067.07	0.0139	0.0066
Moon	122463-11-11 08:21 G	46450066.63	46450066.85	46450067.10	0.0139	0.0059 *
Mars	122473-12-28 15:05 G	46453766.89	46453767.13	46453767.40	0.0142	0.0066
Venus	122490-05-02 07:38 G	46459735.76	46459735.82	46459735.90	0.0143	0.0135
Venus	122490-12-14 20:50 G	46459962.23	46459962.37	46459962.52	0.0143	0.0107
Venus	122491-07-29 10:02 G	46460188.73	46460188.92	46460189.10	0.0143	0.0079
Venus	122492-03-11 22:45 G	46460415.24	46460415.45	46460415.66	0.0142	0.0051
Venus	122492-10-24 11:29 G	46460641.76	46460641.98	46460642.20	0.0142	0.0023
Venus	122493-06-08 00:12 G	46460868.29	46460868.51	46460868.73	0.0142	0.0005
Venus	122494-01-20 12:41 G	46461094.82	46461095.03	46461095.26	0.0142	0.0034
Venus	122494-09-04 01:09 G	46461321.36	46461321.55	46461321.76	0.0142	0.0061
Venus	122495-04-18 13:24 G	46461547.90	46461548.06	46461548.24	0.0142	0.0088
Venus	122495-12-01 01:24 G	46461774.45	46461774.56	46461774.70	0.0142	0.0116
Mercury	122500-01-24 10:31 G	46463289.90	46463289.94	46463290.00	0.0141	0.0133
Mercury	122500-04-22 16:17 G	46463378.08	46463378.18	46463378.28	0.0141	0.0110
Mercury	122500-07-19 21:48 G	46463466.28	46463466.41	46463466.54	0.0140	0.0087
Mercury	122500-10-16 03:19 G	46463554.49	46463554.64	46463554.79	0.0140	0.0064
Mercury	122501-01-12 08:50 G	46463642.72	46463642.87	46463643.03	0.0140	0.0040
Mercury	122501-04-10 14:36 G	46463730.95	46463731.11	46463731.27	0.0140	0.0017
Mercury	122501-07-07 20:21 G	46463819.18	46463819.35	46463819.51	0.0140	0.0007
Mercury	122501-10-04 01:53 G	46463907.42	46463907.58	46463907.75	0.0140	0.0031
Mercury	122501-12-31 07:38 G	46463995.67	46463995.82	46463995.98	0.0140	0.0055
Mercury	122502-03-29 13:24 G	46464083.93	46464084.06	46464084.21	0.0140	0.0079
Moon	122502-05-09 15:19 G	46464124.99	46464125.14	46464125.29	0.0140	0.0114
Earth	122502-05-09 18:26 G	46464125.15	46464125.27	46464125.44	0.0140	0.0115 *
Mercury	122502-06-25 19:09 G	46464172.20	46464172.30	46464172.43	0.0140	0.0103
Mercury	122502-09-22 01:09 G	46464260.49	46464260.55	46464260.63	0.0140	0.0127
Earth	122503-05-14 12:41 G	46464494.78	46464495.03	46464495.29	0.0140	0.0018

Moon	122503-05-14 16:17 G	46464494.93	46464495.18	46464495.43	0.0140	0.0016	*
Moon	122504-05-18 02:36 G	46464864.39	46464864.61	46464864.84	0.0139	0.0070	
Earth	122504-05-18 05:29 G	46464864.54	46464864.73	46464864.96	0.0139	0.0078	*
Jupiter	122508-12-01 07:09 G	46466522.48	46466522.80	46466523.20	0.0138	0.0103	
Mars	122514-07-12 10:02 G	46468571.60	46468571.92	46468572.26	0.0136	0.0014	
Venus	122533-02-02 21:05 G	46475352.28	46475352.38	46475352.50	0.0135	0.0115	
Venus	122533-09-17 01:24 G	46475578.42	46475578.56	46475578.73	0.0135	0.0094	
Venus	122534-05-01 06:12 G	46475804.59	46475804.76	46475804.95	0.0135	0.0071	
Venus	122534-12-13 11:14 G	46476030.77	46476030.97	46476031.17	0.0136	0.0048	
Venus	122535-07-27 16:17 G	46476256.97	46476257.18	46476257.38	0.0136	0.0025	
Venus	122536-03-09 21:05 G	46476483.17	46476483.38	46476483.59	0.0136	0.0002	
Venus	122536-10-22 02:07 G	46476709.38	46476709.59	46476709.80	0.0136	0.0021	
Venus	122537-06-05 06:55 G	46476935.60	46476935.79	46476936.00	0.0136	0.0045	
Venus	122538-01-17 11:57 G	46477161.83	46477162.00	46477162.20	0.0136	0.0068	
Venus	122538-08-31 17:14 G	46477388.08	46477388.22	46477388.39	0.0136	0.0092	
Venus	122539-04-14 22:45 G	46477614.35	46477614.45	46477614.57	0.0136	0.0114	
Mercury	122543-07-27 15:33 G	46479179.08	46479179.15	46479179.24	0.0137	0.0117	
Mercury	122543-10-23 20:07 G	46479267.24	46479267.34	46479267.45	0.0138	0.0097	
Mercury	122544-01-20 00:41 G	46479355.41	46479355.53	46479355.66	0.0138	0.0076	
Mercury	122544-04-17 05:00 G	46479443.58	46479443.71	46479443.85	0.0138	0.0056	
Mercury	122544-07-14 09:33 G	46479531.75	46479531.90	46479532.04	0.0138	0.0035	
Mercury	122544-10-10 13:53 G	46479619.93	46479620.08	46479620.23	0.0138	0.0015	
Mercury	122545-01-06 18:12 G	46479708.11	46479708.26	46479708.41	0.0138	0.0006	
Mercury	122545-04-04 22:31 G	46479796.29	46479796.44	46479796.59	0.0138	0.0026	
Mercury	122545-07-02 02:36 G	46479884.48	46479884.61	46479884.76	0.0138	0.0046	
Mercury	122545-09-28 06:55 G	46479972.66	46479972.79	46479972.92	0.0138	0.0066	
Earth	122545-11-03 15:33 G	46480009.03	46480009.15	46480009.31	0.0138	0.0114	
Moon	122545-11-03 19:24 G	46480009.16	46480009.31	46480009.47	0.0138	0.0108	*
Mercury	122545-12-25 11:00 G	46480060.86	46480060.96	46480061.09	0.0138	0.0086	
Mercury	122546-03-23 15:19 G	46480149.05	46480149.14	46480149.24	0.0138	0.0106	

Mercury	122546-06-19 19:24 G	46480237.26	46480237.31	46480237.38	0.0138	0.0125
Moon	122546-11-08 02:07 G	46480378.35	46480378.59	46480378.85	0.0138	0.0026
Earth	122546-11-08 05:29 G	46480378.49	46480378.73	46480378.99	0.0138	0.0022 *
Earth	122547-11-12 19:38 G	46480748.11	46480748.32	46480748.55	0.0139	0.0071
Moon	122547-11-12 22:45 G	46480748.24	46480748.45	46480748.67	0.0139	0.0070 *
Venus	122574-08-15 02:36 G	46490520.51	46490520.61	46490520.75	0.0143	0.0120
Venus	122575-03-29 15:33 G	46490747.00	46490747.15	46490747.34	0.0143	0.0092
Venus	122575-11-11 04:31 G	46490973.51	46490973.69	46490973.91	0.0143	0.0064
Venus	122576-06-24 17:43 G	46491200.03	46491200.24	46491200.46	0.0142	0.0035
Venus	122577-02-06 06:41 G	46491426.56	46491426.78	46491427.00	0.0142	0.0007
Venus	122577-09-20 19:24 G	46491653.09	46491653.31	46491653.53	0.0142	0.0021
Venus	122578-05-05 07:53 G	46491879.62	46491879.83	46491880.04	0.0142	0.0049
Venus	122578-12-17 20:21 G	46492106.17	46492106.35	46492106.54	0.0142	0.0077
Venus	122579-08-01 08:21 G	46492332.72	46492332.85	46492333.01	0.0142	0.0105
Venus	122580-03-14 20:36 G	46492559.29	46492559.36	46492559.45	0.0142	0.0132
Mercury	122584-02-14 17:57 G	46493991.19	46493991.25	46493991.33	0.0141	0.0126
Mercury	122584-05-12 23:29 G	46494079.38	46494079.48	46494079.60	0.0141	0.0103
Mercury	122584-08-09 05:14 G	46494167.59	46494167.72	46494167.86	0.0141	0.0079
Mercury	122584-11-05 10:45 G	46494255.81	46494255.95	46494256.11	0.0140	0.0056
Mercury	122585-02-01 16:31 G	46494344.03	46494344.19	46494344.35	0.0140	0.0033
Mercury	122585-04-30 22:17 G	46494432.26	46494432.43	46494432.59	0.0140	0.0009
Mercury	122585-07-28 03:48 G	46494520.50	46494520.66	46494520.83	0.0140	0.0015
Mercury	122585-10-24 09:33 G	46494608.75	46494608.90	46494609.07	0.0140	0.0039
Mercury	122586-01-20 15:33 G	46494697.00	46494697.15	46494697.30	0.0140	0.0063
Mercury	122586-04-18 21:05 G	46494785.26	46494785.38	46494785.52	0.0140	0.0087
Earth	122586-05-10 07:09 G	46494806.64	46494806.80	46494806.96	0.0140	0.0108
Moon	122586-05-10 09:19 G	46494806.72	46494806.89	46494807.08	0.0140	0.0102 *
Mercury	122586-07-16 02:50 G	46494873.53	46494873.62	46494873.73	0.0140	0.0111
Mercury	122586-10-12 08:50 G	46494961.84	46494961.87	46494961.92	0.0140	0.0135
Moon	122587-05-14 22:45 G	46495176.21	46495176.45	46495176.70	0.0140	0.0017

Earth	122587-05-15 01:09 G	46495176.29	46495176.55	46495176.80	0.0140	0.0012	*
Earth	122588-05-18 17:57 G	46495546.06	46495546.25	46495546.46	0.0139	0.0083	
Moon	122588-05-18 20:36 G	46495546.16	46495546.36	46495546.58	0.0139	0.0083	*
Venus	122616-10-04 09:19 G	46505910.82	46505910.89	46505910.99	0.0135	0.0124	
Venus	122617-05-18 14:07 G	46506136.96	46506137.09	46506137.24	0.0135	0.0102	
Venus	122617-12-30 18:41 G	46506363.12	46506363.28	46506363.46	0.0135	0.0079	
Venus	122618-08-13 23:29 G	46506589.30	46506589.48	46506589.68	0.0135	0.0057	
Venus	122619-03-28 04:31 G	46506815.49	46506815.69	46506815.90	0.0136	0.0033	
Venus	122619-11-09 09:19 G	46507041.68	46507041.89	46507042.11	0.0136	0.0011	
Venus	122620-06-22 14:21 G	46507267.89	46507268.10	46507268.31	0.0136	0.0013	
Venus	122621-02-03 19:24 G	46507494.11	46507494.31	46507494.52	0.0136	0.0036	
Venus	122621-09-18 00:12 G	46507720.33	46507720.51	46507720.71	0.0136	0.0060	
Venus	122622-05-02 05:14 G	46507946.57	46507946.72	46507946.91	0.0136	0.0084	
Venus	122622-12-14 10:31 G	46508172.82	46508172.94	46508173.09	0.0136	0.0107	
Venus	122623-07-28 16:02 G	46508399.12	46508399.17	46508399.25	0.0136	0.0130	
Mercury	122627-05-21 18:55 G	46509792.25	46509792.29	46509792.35	0.0137	0.0130	
Mercury	122627-08-17 23:29 G	46509880.40	46509880.48	46509880.58	0.0137	0.0109	
Mercury	122627-11-14 04:02 G	46509968.56	46509968.67	46509968.79	0.0138	0.0089	
Mercury	122628-02-10 08:21 G	46510056.73	46510056.85	46510056.99	0.0138	0.0068	
Mercury	122628-05-08 12:55 G	46510144.90	46510145.04	46510145.18	0.0138	0.0048	
Mercury	122628-08-04 17:14 G	46510233.07	46510233.22	46510233.37	0.0138	0.0027	
Mercury	122628-10-31 21:33 G	46510321.25	46510321.40	46510321.55	0.0138	0.0007	
Mercury	122629-01-28 01:53 G	46510409.43	46510409.58	46510409.73	0.0138	0.0014	
Mercury	122629-04-26 06:12 G	46510497.62	46510497.76	46510497.91	0.0138	0.0034	
Mercury	122629-07-23 10:17 G	46510585.80	46510585.93	46510586.08	0.0138	0.0054	
Mercury	122629-10-19 14:50 G	46510673.99	46510674.12	46510674.24	0.0138	0.0073	
Moon	122629-11-05 01:53 G	46510690.42	46510690.58	46510690.76	0.0138	0.0099	
Earth	122629-11-05 04:31 G	46510690.56	46510690.69	46510690.87	0.0138	0.0107	*
Mercury	122630-01-15 18:55 G	46510762.19	46510762.29	46510762.40	0.0138	0.0093	
Mercury	122630-04-13 23:00 G	46510850.39	46510850.46	46510850.55	0.0138	0.0113	

Mercury	122630-07-11 03:19 G	46510938.61	46510938.64	46510938.68	0.0138	0.0133
Earth	122630-11-09 18:26 G	46511060.02	46511060.27	46511060.53	0.0138	0.0015
Moon	122630-11-09 21:05 G	46511060.13	46511060.38	46511060.64	0.0138	0.0023 *
Moon	122631-11-14 05:29 G	46511429.55	46511429.73	46511429.94	0.0139	0.0084
Earth	122631-11-14 08:36 G	46511429.66	46511429.86	46511430.08	0.0139	0.0078 *
Mars	122641-05-19 07:09 G	46514903.55	46514903.80	46514904.08	0.0141	0.0058
Venus	122658-04-15 09:48 G	46521078.83	46521078.91	46521079.00	0.0143	0.0131
Venus	122658-11-27 23:00 G	46521305.31	46521305.46	46521305.61	0.0143	0.0103
Venus	122659-07-12 11:57 G	46521531.82	46521532.00	46521532.20	0.0143	0.0075
Venus	122660-02-24 00:55 G	46521758.34	46521758.54	46521758.76	0.0143	0.0047
Venus	122660-10-07 13:53 G	46521984.86	46521985.08	46521985.30	0.0142	0.0018
Venus	122661-05-22 02:36 G	46522211.39	46522211.61	46522211.84	0.0142	0.0011
Venus	122662-01-03 15:19 G	46522437.93	46522438.14	46522438.36	0.0142	0.0039
Venus	122662-08-18 03:48 G	46522664.47	46522664.66	46522664.87	0.0142	0.0067
Venus	122663-04-01 16:17 G	46522891.02	46522891.18	46522891.35	0.0142	0.0094
Venus	122663-11-14 04:17 G	46523117.58	46523117.68	46523117.80	0.0142	0.0122
Mercury	122667-12-09 20:36 G	46524604.35	46524604.36	46524604.37	0.0141	0.0140
Mercury	122668-03-07 02:07 G	46524692.50	46524692.59	46524692.68	0.0141	0.0117
Mercury	122668-06-03 07:38 G	46524780.70	46524780.82	46524780.94	0.0141	0.0094
Mercury	122668-08-30 13:09 G	46524868.91	46524869.05	46524869.19	0.0141	0.0071
Mercury	122668-11-26 18:41 G	46524957.13	46524957.28	46524957.44	0.0140	0.0048
Mercury	122669-02-23 00:26 G	46525045.36	46525045.52	46525045.68	0.0140	0.0024
Mercury	122669-05-22 06:12 G	46525133.59	46525133.76	46525133.92	0.0140	0.0003
Mercury	122669-08-18 11:43 G	46525221.83	46525221.99	46525222.16	0.0140	0.0024
Mercury	122669-11-14 17:29 G	46525310.08	46525310.23	46525310.39	0.0140	0.0047
Mercury	122670-02-10 23:14 G	46525398.33	46525398.47	46525398.62	0.0140	0.0071
Mercury	122670-05-10 05:14 G	46525486.60	46525486.72	46525486.84	0.0140	0.0095
Earth	122670-05-11 19:53 G	46525488.16	46525488.33	46525488.51	0.0140	0.0101
Moon	122670-05-11 21:05 G	46525488.21	46525488.38	46525488.57	0.0140	0.0095 *
Mercury	122670-08-06 10:45 G	46525574.88	46525574.95	46525575.05	0.0140	0.0120

Moon	122671-05-16 13:09 G	46525857.79	46525858.05	46525858.31	0.0140	0.0013
Earth	122671-05-16 14:07 G	46525857.84	46525858.09	46525858.35	0.0140	0.0005 *
Earth	122672-05-20 07:09 G	46526227.62	46526227.80	46526228.01	0.0139	0.0090
Moon	122672-05-20 08:21 G	46526227.68	46526227.85	46526228.03	0.0139	0.0097 *
Mars	122681-11-28 21:19 G	46529707.20	46529707.39	46529707.63	0.0137	0.0104
Venus	122700-06-04 22:17 G	46536469.39	46536469.43	46536469.47	0.0135	0.0132
Venus	122701-01-17 02:36 G	46536695.50	46536695.61	46536695.74	0.0135	0.0110
Venus	122701-08-31 07:24 G	46536921.65	46536921.81	46536921.98	0.0135	0.0088
Venus	122702-04-14 11:57 G	46537147.82	46537148.00	46537148.20	0.0135	0.0065
Venus	122702-11-26 16:45 G	46537374.01	46537374.20	46537374.41	0.0135	0.0042
Venus	122703-07-10 21:48 G	46537600.20	46537600.41	46537600.62	0.0136	0.0019
Venus	122704-02-22 02:50 G	46537826.40	46537826.62	46537826.83	0.0136	0.0005
Venus	122704-10-05 07:38 G	46538052.61	46538052.82	46538053.03	0.0136	0.0028
Venus	122705-05-19 12:26 G	46538278.83	46538279.02	46538279.22	0.0136	0.0051
Venus	122705-12-31 17:43 G	46538505.06	46538505.24	46538505.42	0.0136	0.0074
Venus	122706-08-14 22:31 G	46538731.31	46538731.44	46538731.61	0.0136	0.0099
Venus	122707-03-29 03:48 G	46538957.58	46538957.66	46538957.77	0.0136	0.0122
Mercury	122711-06-12 02:36 G	46540493.56	46540493.61	46540493.69	0.0137	0.0123
Mercury	122711-09-08 07:24 G	46540581.71	46540581.81	46540581.91	0.0137	0.0102
Mercury	122711-12-05 11:43 G	46540669.87	46540669.99	46540670.12	0.0137	0.0081
Mercury	122712-03-02 16:02 G	46540758.04	46540758.17	46540758.31	0.0138	0.0061
Mercury	122712-05-29 20:36 G	46540846.22	46540846.36	46540846.51	0.0138	0.0040
Mercury	122712-08-26 01:09 G	46540934.40	46540934.55	46540934.69	0.0138	0.0020
Mercury	122712-11-22 05:29 G	46541022.58	46541022.73	46541022.88	0.0138	0.0003
Mercury	122713-02-18 09:48 G	46541110.76	46541110.91	46541111.05	0.0138	0.0021
Mercury	122713-05-17 13:53 G	46541198.94	46541199.08	46541199.23	0.0138	0.0041
Mercury	122713-08-13 18:12 G	46541287.13	46541287.26	46541287.40	0.0138	0.0061
Moon	122713-11-06 17:43 G	46541372.05	46541372.24	46541372.42	0.0138	0.0096
Earth	122713-11-06 17:57 G	46541372.07	46541372.25	46541372.42	0.0138	0.0099 *
Mercury	122713-11-09 22:17 G	46541375.32	46541375.43	46541375.56	0.0138	0.0081

Mercury	122714-02-06 02:36 G	46541463.52	46541463.61	46541463.71	0.0138	0.0101
Mercury	122714-05-05 06:55 G	46541551.72	46541551.79	46541551.86	0.0138	0.0120
Earth	122714-11-11 07:09 G	46541741.55	46541741.80	46541742.06	0.0138	0.0008
Moon	122714-11-11 07:53 G	46541741.58	46541741.83	46541742.07	0.0138	0.0014 *
Moon	122715-11-15 20:50 G	46542111.19	46542111.37	46542111.59	0.0139	0.0091
Earth	122715-11-15 21:33 G	46542111.20	46542111.40	46542111.60	0.0139	0.0084 *
Mars	122726-01-13 02:21 G	46545822.44	46545822.60	46545822.76	0.0142	0.0117
Venus	122742-07-29 04:31 G	46551863.58	46551863.69	46551863.83	0.0143	0.0116
Venus	122743-03-12 17:57 G	46552090.07	46552090.25	46552090.43	0.0143	0.0087
Venus	122743-10-25 06:41 G	46552316.59	46552316.78	46552316.99	0.0143	0.0059
Venus	122744-06-07 19:38 G	46552543.11	46552543.32	46552543.55	0.0142	0.0031
Venus	122745-01-20 08:50 G	46552769.65	46552769.87	46552770.10	0.0142	0.0002
Venus	122745-09-03 21:33 G	46552996.18	46552996.40	46552996.62	0.0142	0.0027
Venus	122746-04-18 10:02 G	46553222.72	46553222.92	46553223.13	0.0142	0.0055
Venus	122746-11-30 22:31 G	46553449.27	46553449.44	46553449.63	0.0142	0.0083
Venus	122747-07-15 10:31 G	46553675.82	46553675.94	46553676.10	0.0142	0.0111
Venus	122748-02-26 23:00 G	46553902.42	46553902.46	46553902.52	0.0142	0.0138
Mercury	122751-12-31 04:02 G	46555305.62	46555305.67	46555305.72	0.0141	0.0133
Mercury	122752-03-28 09:33 G	46555393.80	46555393.90	46555394.00	0.0141	0.0110
Mercury	122752-06-24 15:05 G	46555482.01	46555482.13	46555482.26	0.0141	0.0087
Mercury	122752-09-20 20:36 G	46555570.22	46555570.36	46555570.51	0.0141	0.0064
Mercury	122752-12-18 02:07 G	46555658.44	46555658.59	46555658.76	0.0141	0.0041
Mercury	122753-03-16 07:53 G	46555746.67	46555746.83	46555747.00	0.0140	0.0017
Mercury	122753-06-12 13:38 G	46555834.91	46555835.07	46555835.24	0.0140	0.0007
Mercury	122753-09-08 19:24 G	46555923.15	46555923.31	46555923.47	0.0140	0.0031
Mercury	122753-12-06 00:55 G	46556011.40	46556011.54	46556011.70	0.0140	0.0056
Mercury	122754-03-04 06:41 G	46556099.65	46556099.78	46556099.93	0.0140	0.0080
Moon	122754-05-13 04:02 G	46556169.50	46556169.67	46556169.87	0.0140	0.0095
Earth	122754-05-13 07:53 G	46556169.65	46556169.83	46556170.02	0.0140	0.0095 *
Mercury	122754-05-31 12:41 G	46556187.92	46556188.03	46556188.15	0.0140	0.0103

Mercury	122754-08-27 18:26 G	46556276.22	46556276.27	46556276.35	0.0140	0.0128
Earth	122755-05-18 02:07 G	46556539.34	46556539.59	46556539.85	0.0140	0.0003
Moon	122755-05-18 05:43 G	46556539.49	46556539.74	46556539.99	0.0140	0.0005 *
Moon	122756-05-21 15:48 G	46556909.00	46556909.16	46556909.34	0.0139	0.0103
Earth	122756-05-21 19:09 G	46556909.14	46556909.30	46556909.51	0.0139	0.0097 *
Mars	122766-07-26 17:14 G	46560626.98	46560627.22	46560627.50	0.0137	0.0084
Venus	122784-09-16 15:19 G	46567254.04	46567254.14	46567254.24	0.0135	0.0119
Venus	122785-04-30 19:38 G	46567480.19	46567480.32	46567480.48	0.0135	0.0096
Venus	122785-12-13 00:26 G	46567706.35	46567706.52	46567706.71	0.0135	0.0073
Venus	122786-07-27 05:14 G	46567932.53	46567932.72	46567932.93	0.0135	0.0051
Venus	122787-03-10 10:02 G	46568158.72	46568158.92	46568159.14	0.0135	0.0028
Venus	122787-10-22 15:05 G	46568384.91	46568385.13	46568385.34	0.0136	0.0005
Venus	122788-06-04 19:38 G	46568611.12	46568611.32	46568611.54	0.0136	0.0020
Venus	122789-01-17 00:41 G	46568837.33	46568837.53	46568837.74	0.0136	0.0043
Venus	122789-08-31 05:43 G	46569063.56	46569063.74	46569063.93	0.0136	0.0066
Venus	122790-04-14 10:31 G	46569289.80	46569289.94	46569290.12	0.0136	0.0090
Venus	122790-11-26 15:48 G	46569516.06	46569516.16	46569516.29	0.0136	0.0113
Venus	122791-07-10 21:19 G	46569742.39	46569742.39	46569742.40	0.0136	0.0136
Mercury	122795-04-05 06:12 G	46571106.74	46571106.76	46571106.79	0.0137	0.0135
Mercury	122795-07-02 10:31 G	46571194.87	46571194.94	46571195.03	0.0137	0.0114
Mercury	122795-09-28 15:05 G	46571283.03	46571283.13	46571283.25	0.0137	0.0094
Mercury	122795-12-25 19:38 G	46571371.20	46571371.32	46571371.45	0.0137	0.0073
Mercury	122796-03-22 23:57 G	46571459.37	46571459.50	46571459.65	0.0137	0.0053
Mercury	122796-06-19 04:31 G	46571547.54	46571547.69	46571547.84	0.0138	0.0032
Mercury	122796-09-15 08:50 G	46571635.72	46571635.87	46571636.02	0.0138	0.0012
Mercury	122796-12-12 13:09 G	46571723.91	46571724.05	46571724.20	0.0138	0.0010
Mercury	122797-03-10 17:29 G	46571812.09	46571812.23	46571812.38	0.0138	0.0029
Mercury	122797-06-06 21:48 G	46571900.27	46571900.41	46571900.55	0.0138	0.0049
Mercury	122797-09-03 02:07 G	46571988.46	46571988.59	46571988.72	0.0138	0.0069
Earth	122797-11-07 07:09 G	46572053.62	46572053.80	46572053.99	0.0138	0.0092

Moon	122797-11-07 10:17 G	46572053.76	46572053.93	46572054.11	0.0138	0.0096 *
Mercury	122797-11-30 06:12 G	46572076.66	46572076.76	46572076.88	0.0138	0.0089
Mercury	122798-02-26 10:17 G	46572164.85	46572164.93	46572165.03	0.0138	0.0109
Mercury	122798-05-25 14:50 G	46572253.07	46572253.12	46572253.17	0.0138	0.0129
Moon	122798-11-11 17:29 G	46572422.97	46572423.23	46572423.49	0.0138	0.0001
Earth	122798-11-11 20:50 G	46572423.12	46572423.37	46572423.62	0.0138	0.0001 *
Earth	122799-11-16 10:45 G	46572792.77	46572792.95	46572793.15	0.0139	0.0091
Moon	122799-11-16 14:07 G	46572792.91	46572793.09	46572793.28	0.0139	0.0093 *
Venus	122826-03-28 11:43 G	46582421.90	46582421.99	46582422.10	0.0143	0.0127
Venus	122826-11-10 00:41 G	46582648.39	46582648.53	46582648.71	0.0143	0.0099
Venus	122827-06-24 14:07 G	46582874.90	46582875.09	46582875.29	0.0143	0.0070
Venus	122828-02-06 03:05 G	46583101.42	46583101.63	46583101.85	0.0143	0.0041
Venus	122828-09-19 16:02 G	46583327.95	46583328.17	46583328.40	0.0142	0.0013
Venus	122829-05-04 04:45 G	46583554.48	46583554.70	46583554.93	0.0142	0.0016
Venus	122829-12-16 17:29 G	46583781.02	46583781.23	46583781.45	0.0142	0.0045
Venus	122830-07-31 05:43 G	46584007.57	46584007.74	46584007.95	0.0142	0.0074
Venus	122831-03-14 18:12 G	46584234.12	46584234.26	46584234.43	0.0142	0.0101
Venus	122831-10-27 06:26 G	46584460.69	46584460.77	46584460.87	0.0142	0.0128
Mercury	122836-01-20 11:43 G	46586006.93	46586006.99	46586007.07	0.0141	0.0125
Mercury	122836-04-17 17:14 G	46586095.12	46586095.22	46586095.34	0.0141	0.0102
Mercury	122836-07-14 22:45 G	46586183.32	46586183.45	46586183.59	0.0141	0.0079
Mercury	122836-10-11 04:31 G	46586271.54	46586271.69	46586271.84	0.0141	0.0055
Mercury	122837-01-07 10:02 G	46586359.77	46586359.92	46586360.09	0.0140	0.0032
Mercury	122837-04-05 15:48 G	46586448.00	46586448.16	46586448.33	0.0140	0.0008
Mercury	122837-07-02 21:33 G	46586536.23	46586536.40	46586536.56	0.0140	0.0016
Mercury	122837-09-29 03:05 G	46586624.48	46586624.63	46586624.80	0.0140	0.0040
Mercury	122837-12-26 08:50 G	46586712.73	46586712.87	46586713.03	0.0140	0.0064
Mercury	122838-03-24 14:36 G	46586800.99	46586801.11	46586801.25	0.0140	0.0088
Earth	122838-05-13 20:21 G	46586851.18	46586851.35	46586851.57	0.0140	0.0090
Moon	122838-05-13 22:45 G	46586851.27	46586851.45	46586851.66	0.0140	0.0094 *

Mercury	122838-06-20 20:36 G	46586889.27	46586889.36	46586889.46	0.0140	0.0112
Mercury	122838-09-17 02:21 G	46586977.58	46586977.60	46586977.64	0.0140	0.0137
Moon	122839-05-18 12:26 G	46587220.78	46587221.02	46587221.27	0.0140	0.0009
Earth	122839-05-18 15:19 G	46587220.88	46587221.14	46587221.39	0.0140	0.0007 *
Earth	122840-05-22 08:21 G	46587590.70	46587590.85	46587591.04	0.0139	0.0103
Moon	122840-05-22 11:29 G	46587590.82	46587590.98	46587591.16	0.0139	0.0105 *
Venus	122868-05-17 03:33 G	46597812.59	46597812.65	46597812.73	0.0135	0.0127
Venus	122868-12-29 08:21 G	46598038.72	46598038.85	46598038.99	0.0135	0.0104
Venus	122869-08-12 13:09 G	46598264.88	46598265.05	46598265.22	0.0135	0.0082
Venus	122870-03-26 17:43 G	46598491.05	46598491.24	46598491.43	0.0135	0.0059
Venus	122870-11-07 22:17 G	46598717.23	46598717.43	46598717.64	0.0135	0.0036
Venus	122871-06-22 03:19 G	46598943.43	46598943.64	46598943.85	0.0136	0.0012
Venus	122872-02-03 08:07 G	46599169.63	46599169.84	46599170.05	0.0136	0.0011
Venus	122872-09-16 12:41 G	46599395.83	46599396.03	46599396.25	0.0136	0.0035
Venus	122873-04-30 17:43 G	46599622.05	46599622.24	46599622.44	0.0136	0.0058
Venus	122873-12-12 22:45 G	46599848.28	46599848.45	46599848.62	0.0136	0.0081
Venus	122874-07-27 03:48 G	46600074.54	46600074.66	46600074.81	0.0136	0.0105
Venus	122875-03-10 08:50 G	46600300.82	46600300.87	46600300.96	0.0136	0.0129
Mercury	122879-04-25 14:07 G	46601808.03	46601808.09	46601808.14	0.0137	0.0127
Mercury	122879-07-22 18:26 G	46601896.18	46601896.27	46601896.37	0.0137	0.0106
Mercury	122879-10-18 23:00 G	46601984.34	46601984.46	46601984.58	0.0137	0.0085
Mercury	122880-01-15 03:33 G	46602072.52	46602072.65	46602072.78	0.0137	0.0065
Mercury	122880-04-12 07:53 G	46602160.69	46602160.83	46602160.98	0.0137	0.0044
Mercury	122880-07-09 12:12 G	46602248.87	46602249.01	46602249.16	0.0137	0.0024
Mercury	122880-10-05 16:45 G	46602337.05	46602337.20	46602337.35	0.0138	0.0004
Mercury	122881-01-01 21:05 G	46602425.23	46602425.38	46602425.53	0.0138	0.0017
Mercury	122881-03-31 01:24 G	46602513.42	46602513.56	46602513.70	0.0138	0.0037
Mercury	122881-06-27 05:43 G	46602601.60	46602601.74	46602601.87	0.0138	0.0057
Mercury	122881-09-23 09:48 G	46602689.79	46602689.91	46602690.04	0.0138	0.0077
Moon	122881-11-07 17:43 G	46602735.06	46602735.24	46602735.42	0.0138	0.0093

Earth	122881-11-07 20:07 G	46602735.15	46602735.34	46602735.55	0.0138	0.0086	*
Mercury	122881-12-20 13:53 G	46602777.99	46602778.08	46602778.19	0.0138	0.0097	
Mercury	122882-03-18 18:12 G	46602866.19	46602866.26	46602866.34	0.0138	0.0117	
Mercury	122882-06-14 22:17 G	46602954.42	46602954.43	46602954.46	0.0138	0.0137	
Earth	122882-11-12 09:33 G	46603104.65	46603104.90	46603105.15	0.0138	0.0005	
Moon	122882-11-12 12:41 G	46603104.78	46603105.03	46603105.29	0.0138	0.0012	*
Moon	122883-11-16 20:21 G	46603474.18	46603474.35	46603474.55	0.0138	0.0093	
Earth	122883-11-16 23:14 G	46603474.31	46603474.47	46603474.67	0.0138	0.0098	*
Mars	122893-06-01 22:02 G	46606959.14	46606959.42	46606959.71	0.0141	0.0003	
Venus	122909-11-26 17:29 G	46612980.19	46612980.23	46612980.29	0.0143	0.0139	
Venus	122910-07-11 06:41 G	46613206.65	46613206.78	46613206.93	0.0143	0.0111	
Venus	122911-02-22 19:53 G	46613433.16	46613433.33	46613433.52	0.0143	0.0082	
Venus	122911-10-07 08:50 G	46613659.67	46613659.87	46613660.09	0.0143	0.0054	
Venus	122912-05-20 22:02 G	46613886.20	46613886.42	46613886.64	0.0143	0.0024	
Venus	122913-01-02 11:00 G	46614112.74	46614112.96	46614113.18	0.0142	0.0004	
Venus	122913-08-16 23:29 G	46614339.27	46614339.48	46614339.71	0.0142	0.0034	
Venus	122914-03-31 12:12 G	46614565.81	46614566.01	46614566.21	0.0142	0.0061	
Venus	122914-11-13 00:41 G	46614792.36	46614792.53	46614792.70	0.0142	0.0090	
Venus	122915-06-27 12:41 G	46615018.92	46615019.03	46615019.17	0.0142	0.0117	
Mercury	122919-11-14 13:53 G	46616620.08	46616620.08	46616620.09	0.0141	0.0140	
Mercury	122920-02-10 19:09 G	46616708.22	46616708.30	46616708.40	0.0141	0.0118	
Mercury	122920-05-09 00:41 G	46616796.42	46616796.53	46616796.66	0.0141	0.0095	
Mercury	122920-08-05 06:26 G	46616884.63	46616884.77	46616884.91	0.0141	0.0071	
Mercury	122920-11-01 11:57 G	46616972.85	46616973.00	46616973.16	0.0141	0.0048	
Mercury	122921-01-28 17:43 G	46617061.08	46617061.24	46617061.40	0.0140	0.0024	
Mercury	122921-04-26 23:14 G	46617149.31	46617149.47	46617149.64	0.0140	0.0004	
Mercury	122921-07-24 05:00 G	46617237.55	46617237.71	46617237.88	0.0140	0.0023	
Mercury	122921-10-20 10:45 G	46617325.79	46617325.95	46617326.11	0.0140	0.0047	
Mercury	122922-01-16 16:31 G	46617414.05	46617414.19	46617414.34	0.0140	0.0072	
Mercury	122922-04-14 22:02 G	46617502.31	46617502.42	46617502.56	0.0140	0.0096	

Earth	122922-05-15 08:07 G	46617532.65	46617532.84	46617533.06	0.0140	0.0084
Moon	122922-05-15 09:33 G	46617532.72	46617532.90	46617533.09	0.0140	0.0091 *
Mercury	122922-07-12 04:02 G	46617590.60	46617590.67	46617590.76	0.0140	0.0120
Moon	122923-05-20 01:53 G	46617902.32	46617902.58	46617902.85	0.0140	0.0019
Earth	122923-05-20 02:50 G	46617902.37	46617902.62	46617902.88	0.0140	0.0013 *
Earth	122924-05-23 20:07 G	46618272.20	46618272.34	46618272.52	0.0139	0.0108
Moon	122924-05-23 20:36 G	46618272.21	46618272.36	46618272.54	0.0139	0.0104 *
Mars	122933-12-13 03:33 G	46621762.34	46621762.65	46621762.98	0.0137	0.0035
Venus	122952-08-29 20:21 G	46628597.26	46628597.35	46628597.49	0.0135	0.0114
Venus	122953-04-13 01:09 G	46628823.40	46628823.55	46628823.72	0.0135	0.0090
Venus	122953-11-25 05:43 G	46629049.57	46629049.74	46629049.93	0.0135	0.0067
Venus	122954-07-09 10:31 G	46629275.75	46629275.94	46629276.15	0.0135	0.0044
Venus	122955-02-20 15:19 G	46629501.93	46629502.14	46629502.35	0.0136	0.0021
Venus	122955-10-04 20:07 G	46629728.12	46629728.34	46629728.55	0.0136	0.0003
Venus	122956-05-18 00:41 G	46629954.33	46629954.53	46629954.74	0.0136	0.0026
Venus	122956-12-30 05:29 G	46630180.54	46630180.73	46630180.94	0.0136	0.0050
Venus	122957-08-13 10:31 G	46630406.77	46630406.94	46630407.13	0.0136	0.0073
Venus	122958-03-27 15:48 G	46630633.01	46630633.16	46630633.31	0.0136	0.0097
Venus	122958-11-08 20:36 G	46630859.28	46630859.36	46630859.47	0.0136	0.0120
Mercury	122963-05-16 21:48 G	46632509.34	46632509.41	46632509.49	0.0137	0.0119
Mercury	122963-08-13 02:07 G	46632597.49	46632597.59	46632597.71	0.0137	0.0098
Mercury	122963-11-09 06:41 G	46632685.66	46632685.78	46632685.91	0.0137	0.0077
Mercury	122964-02-05 11:14 G	46632773.83	46632773.97	46632774.11	0.0137	0.0057
Mercury	122964-05-03 15:33 G	46632862.01	46632862.15	46632862.30	0.0137	0.0037
Mercury	122964-07-30 20:07 G	46632950.19	46632950.34	46632950.49	0.0137	0.0016
Mercury	122964-10-27 00:26 G	46633038.37	46633038.52	46633038.67	0.0138	0.0005
Mercury	122965-01-23 04:45 G	46633126.56	46633126.70	46633126.85	0.0138	0.0025
Mercury	122965-04-21 09:05 G	46633214.74	46633214.88	46633215.02	0.0138	0.0045
Mercury	122965-07-18 13:24 G	46633302.93	46633303.06	46633303.19	0.0138	0.0065
Mercury	122965-10-14 17:29 G	46633391.12	46633391.23	46633391.35	0.0138	0.0085

Moon	122965-11-09 08:07 G	46633416.65	46633416.84	46633417.06	0.0138	0.0084
Earth	122965-11-09 08:36 G	46633416.68	46633416.86	46633417.09	0.0138	0.0080 *
Mercury	122966-01-10 21:48 G	46633479.32	46633479.41	46633479.51	0.0138	0.0105
Mercury	122966-04-09 02:07 G	46633567.53	46633567.59	46633567.65	0.0138	0.0124
Earth	122966-11-13 22:17 G	46633786.18	46633786.43	46633786.69	0.0138	0.0011
Moon	122966-11-13 22:17 G	46633786.19	46633786.43	46633786.68	0.0138	0.0018 *
Moon	122967-11-18 12:26 G	46634155.83	46634156.02	46634156.21	0.0138	0.0095
Earth	122967-11-18 12:12 G	46634155.85	46634156.01	46634156.19	0.0138	0.0103 *
Venus	122994-03-10 13:53 G	46643764.97	46643765.08	46643765.20	0.0143	0.0122
Venus	122994-10-23 02:36 G	46643991.46	46643991.61	46643991.80	0.0143	0.0094
Venus	122995-06-06 15:48 G	46644217.98	46644218.16	46644218.37	0.0143	0.0065
Venus	122996-01-19 05:14 G	46644444.50	46644444.72	46644444.94	0.0143	0.0036
Venus	122996-09-01 17:57 G	46644671.03	46644671.25	46644671.48	0.0143	0.0008
Venus	122997-04-16 06:41 G	46644897.57	46644897.78	46644898.01	0.0142	0.0022
Venus	122997-11-28 19:24 G	46645124.10	46645124.31	46645124.52	0.0142	0.0051
Venus	122998-07-13 07:38 G	46645350.65	46645350.82	46645351.02	0.0142	0.0079
Venus	122999-02-24 20:07 G	46645577.21	46645577.34	46645577.50	0.0142	0.0107
Venus	122999-10-09 08:36 G	46645803.79	46645803.86	46645803.93	0.0142	0.0134

124TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 124th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Mercury	123003-12-05 21:33 G	46647321.36	46647321.40	46647321.46	0.0141	0.0132
Mercury	123004-03-03 03:05 G	46647409.54	46647409.63	46647409.74	0.0141	0.0109
Mercury	123004-05-30 08:36 G	46647497.74	46647497.86	46647498.00	0.0141	0.0086
Mercury	123004-08-26 14:07 G	46647585.95	46647586.09	46647586.25	0.0141	0.0063
Mercury	123004-11-22 19:53 G	46647674.17	46647674.33	46647674.49	0.0141	0.0039
Mercury	123005-02-19 01:38 G	46647762.40	46647762.57	46647762.73	0.0140	0.0015
Mercury	123005-05-18 07:09 G	46647850.64	46647850.80	46647850.97	0.0140	0.0009
Mercury	123005-08-14 12:55 G	46647938.88	46647939.04	46647939.20	0.0140	0.0032
Mercury	123005-11-10 18:41 G	46648027.13	46648027.28	46648027.43	0.0140	0.0056
Mercury	123006-02-07 00:26 G	46648115.39	46648115.52	46648115.66	0.0140	0.0080
Mercury	123006-05-06 05:57 G	46648203.65	46648203.75	46648203.87	0.0140	0.0105
Moon	123006-05-16 17:14 G	46648214.03	46648214.22	46648214.45	0.0140	0.0082
Earth	123006-05-16 21:05 G	46648214.18	46648214.38	46648214.61	0.0140	0.0078 *
Mercury	123006-08-02 11:57 G	46648291.95	46648292.00	46648292.07	0.0140	0.0129
Earth	123007-05-21 15:33 G	46648583.91	46648584.15	46648584.41	0.0140	0.0019
Moon	123007-05-21 19:09 G	46648584.06	46648584.30	46648584.55	0.0140	0.0025 *
Moon	123008-05-25 05:57 G	46648953.60	46648953.75	46648953.93	0.0140	0.0106
Earth	123008-05-25 09:05 G	46648953.75	46648953.88	46648954.05	0.0140	0.0114 *
Venus	123036-04-30 09:05 G	46659155.79	46659155.88	46659155.98	0.0135	0.0122
Venus	123036-12-12 13:24 G	46659381.93	46659382.06	46659382.22	0.0135	0.0099
Venus	123037-07-26 18:26 G	46659608.09	46659608.27	46659608.44	0.0135	0.0076
Venus	123038-03-09 22:45 G	46659834.26	46659834.45	46659834.65	0.0135	0.0053
Venus	123038-10-22 03:19 G	46660060.44	46660060.64	46660060.86	0.0135	0.0030
Venus	123039-06-05 08:07 G	46660286.63	46660286.84	46660287.05	0.0136	0.0006
Venus	123040-01-17 12:55 G	46660512.83	46660513.04	46660513.25	0.0136	0.0018
Venus	123040-08-30 17:43 G	46660739.04	46660739.24	46660739.44	0.0136	0.0041
Venus	123041-04-13 22:17 G	46660965.26	46660965.43	46660965.63	0.0136	0.0065
Venus	123041-11-26 03:19 G	46661191.49	46661191.64	46661191.81	0.0136	0.0088
Venus	123042-07-10 08:21 G	46661417.75	46661417.85	46661417.99	0.0136	0.0112
Venus	123043-02-21 13:38 G	46661644.06	46661644.07	46661644.11	0.0136	0.0135

Mercury	123047-03-11 00:55 G	46663122.51	46663122.54	46663122.59	0.0137	0.0131
Mercury	123047-06-07 05:14 G	46663210.65	46663210.72	46663210.82	0.0137	0.0111
Mercury	123047-09-03 09:48 G	46663298.81	46663298.91	46663299.04	0.0137	0.0091
Mercury	123047-11-30 14:36 G	46663386.98	46663387.11	46663387.24	0.0137	0.0069
Mercury	123048-02-26 18:55 G	46663475.15	46663475.29	46663475.44	0.0137	0.0049
Mercury	123048-05-24 23:29 G	46663563.33	46663563.48	46663563.63	0.0137	0.0028
Mercury	123048-08-21 03:48 G	46663651.51	46663651.66	46663651.81	0.0137	0.0008
Mercury	123048-11-17 08:07 G	46663739.70	46663739.84	46663739.99	0.0138	0.0013
Mercury	123049-02-13 12:26 G	46663827.88	46663828.02	46663828.17	0.0138	0.0033
Mercury	123049-05-12 16:45 G	46663916.07	46663916.20	46663916.34	0.0138	0.0053
Mercury	123049-08-08 21:05 G	46664004.26	46664004.38	46664004.51	0.0138	0.0073
Mercury	123049-11-05 01:24 G	46664092.45	46664092.56	46664092.67	0.0138	0.0092
Earth	123049-11-10 21:33 G	46664098.20	46664098.40	46664098.62	0.0138	0.0073
Moon	123049-11-11 00:55 G	46664098.34	46664098.54	46664098.76	0.0138	0.0072 *
Mercury	123050-02-01 05:29 G	46664180.65	46664180.73	46664180.82	0.0138	0.0112
Mercury	123050-04-30 09:33 G	46664268.87	46664268.90	46664268.95	0.0138	0.0132
Moon	123050-11-15 07:38 G	46664467.57	46664467.82	46664468.08	0.0138	0.0018
Earth	123050-11-15 11:00 G	46664467.71	46664467.96	46664468.21	0.0138	0.0017 *
Earth	123051-11-20 00:41 G	46664837.38	46664837.53	46664837.69	0.0138	0.0109
Moon	123051-11-20 03:19 G	46664837.49	46664837.64	46664837.82	0.0138	0.0104 *
Mars	123060-10-21 18:55 G	46668096.16	46668096.29	46668096.47	0.0141	0.0118
Venus	123077-11-08 19:09 G	46674323.25	46674323.30	46674323.39	0.0143	0.0135
Venus	123078-06-23 08:36 G	46674549.72	46674549.86	46674550.02	0.0143	0.0106
Venus	123079-02-04 21:48 G	46674776.23	46674776.41	46674776.60	0.0143	0.0077
Venus	123079-09-19 11:00 G	46675002.75	46675002.96	46675003.17	0.0143	0.0048
Venus	123080-05-02 23:43 G	46675229.27	46675229.49	46675229.71	0.0143	0.0019
Venus	123080-12-15 12:41 G	46675455.80	46675456.03	46675456.25	0.0143	0.0010
Venus	123081-07-30 01:09 G	46675682.34	46675682.55	46675682.77	0.0142	0.0039
Venus	123082-03-13 13:38 G	46675908.89	46675909.07	46675909.28	0.0142	0.0068
Venus	123082-10-26 02:07 G	46676135.43	46676135.59	46676135.76	0.0142	0.0096

Venus	123083-06-09 14:21 G	46676362.00	46676362.10	46676362.22	0.0142	0.0123
Mercury	123087-12-26 05:00 G	46678022.65	46678022.71	46678022.79	0.0141	0.0125
Mercury	123088-03-23 10:31 G	46678110.84	46678110.94	46678111.06	0.0141	0.0102
Mercury	123088-06-19 16:02 G	46678199.04	46678199.17	46678199.31	0.0141	0.0079
Mercury	123088-09-15 21:33 G	46678287.26	46678287.40	46678287.56	0.0141	0.0056
Mercury	123088-12-13 03:19 G	46678375.48	46678375.64	46678375.80	0.0141	0.0032
Mercury	123089-03-11 08:50 G	46678463.71	46678463.87	46678464.04	0.0141	0.0009
Mercury	123089-06-07 14:36 G	46678551.95	46678552.11	46678552.28	0.0140	0.0016
Mercury	123089-09-03 20:21 G	46678640.19	46678640.35	46678640.51	0.0140	0.0039
Mercury	123089-12-01 02:07 G	46678728.44	46678728.59	46678728.74	0.0140	0.0063
Mercury	123090-02-27 07:53 G	46678816.70	46678816.83	46678816.96	0.0140	0.0088
Earth	123090-05-17 08:07 G	46678895.63	46678895.84	46678896.06	0.0140	0.0072
Moon	123090-05-17 10:45 G	46678895.74	46678895.95	46678896.19	0.0140	0.0071 *
Mercury	123090-05-26 13:24 G	46678904.97	46678905.06	46678905.17	0.0140	0.0112
Mercury	123090-08-22 19:24 G	46678993.28	46678993.31	46678993.35	0.0140	0.0136
Moon	123091-05-22 00:26 G	46679265.27	46679265.52	46679265.77	0.0140	0.0024
Earth	123091-05-22 02:50 G	46679265.37	46679265.62	46679265.88	0.0140	0.0024 *
Earth	123092-05-25 20:07 G	46679635.22	46679635.34	46679635.49	0.0140	0.0119
Moon	123092-05-25 23:14 G	46679635.33	46679635.47	46679635.63	0.0140	0.0113 *
Venus	123119-12-30 21:19 G	46689714.35	46689714.39	46689714.45	0.0135	0.0130
Venus	123120-08-13 01:53 G	46689940.46	46689940.58	46689940.71	0.0135	0.0108
Venus	123121-03-27 06:26 G	46690166.61	46690166.77	46690166.94	0.0135	0.0085
Venus	123121-11-08 10:45 G	46690392.77	46690392.95	46690393.15	0.0135	0.0062
Venus	123122-06-22 15:33 G	46690618.95	46690619.15	46690619.36	0.0135	0.0038
Venus	123123-02-03 20:21 G	46690845.13	46690845.35	46690845.56	0.0136	0.0015
Venus	123123-09-18 00:55 G	46691071.33	46691071.54	46691071.75	0.0136	0.0009
Venus	123124-05-01 05:29 G	46691297.53	46691297.73	46691297.94	0.0136	0.0033
Venus	123124-12-13 10:17 G	46691523.74	46691523.93	46691524.13	0.0136	0.0056
Venus	123125-07-27 15:19 G	46691749.98	46691750.14	46691750.32	0.0136	0.0080
Venus	123126-03-10 20:21 G	46691976.22	46691976.35	46691976.50	0.0136	0.0103

Venus	123126-10-23 01:38 G	46692202.50	46692202.57	46692202.65	0.0136	0.0127
Mercury	123131-04-01 08:36 G	46693823.81	46693823.86	46693823.93	0.0137	0.0124
Mercury	123131-06-28 13:09 G	46693911.96	46693912.05	46693912.16	0.0137	0.0103
Mercury	123131-09-24 17:43 G	46694000.12	46694000.24	46694000.37	0.0137	0.0082
Mercury	123131-12-21 22:17 G	46694088.30	46694088.43	46694088.57	0.0137	0.0062
Mercury	123132-03-19 02:36 G	46694176.47	46694176.61	46694176.76	0.0137	0.0042
Mercury	123132-06-15 07:09 G	46694264.65	46694264.80	46694264.95	0.0137	0.0021
Mercury	123132-09-11 11:29 G	46694352.83	46694352.98	46694353.13	0.0138	0.0002
Mercury	123132-12-08 15:48 G	46694441.02	46694441.16	46694441.31	0.0138	0.0020
Mercury	123133-03-06 20:07 G	46694529.20	46694529.34	46694529.49	0.0138	0.0040
Mercury	123133-06-03 00:26 G	46694617.39	46694617.52	46694617.66	0.0138	0.0060
Mercury	123133-08-30 04:45 G	46694705.58	46694705.70	46694705.82	0.0138	0.0080
Moon	123133-11-12 06:41 G	46694779.57	46694779.78	46694780.01	0.0138	0.0061
Earth	123133-11-12 10:02 G	46694779.71	46694779.92	46694780.15	0.0138	0.0067 *
Mercury	123133-11-26 08:50 G	46694793.78	46694793.87	46694793.98	0.0138	0.0100
Mercury	123134-02-22 13:09 G	46694881.98	46694882.05	46694882.13	0.0138	0.0119
Earth	123134-11-16 23:14 G	46695149.22	46695149.47	46695149.72	0.0138	0.0023
Moon	123134-11-17 02:07 G	46695149.34	46695149.59	46695149.85	0.0138	0.0019 *
Moon	123135-11-21 09:19 G	46695518.76	46695518.89	46695519.04	0.0138	0.0115
Earth	123135-11-21 12:41 G	46695518.90	46695519.03	46695519.19	0.0138	0.0115 *
Mars	123145-06-17 15:05 G	46699014.86	46699015.13	46699015.39	0.0141	0.0056
Venus	123162-02-21 15:19 G	46705108.02	46705108.14	46705108.27	0.0143	0.0118
Venus	123162-10-06 04:02 G	46705334.52	46705334.67	46705334.86	0.0143	0.0090
Venus	123163-05-20 17:14 G	46705561.03	46705561.22	46705561.43	0.0143	0.0061
Venus	123164-01-02 06:26 G	46705787.56	46705787.77	46705787.99	0.0143	0.0031
Venus	123164-08-15 19:24 G	46706014.09	46706014.31	46706014.53	0.0143	0.0002
Venus	123165-03-30 08:07 G	46706240.62	46706240.84	46706241.06	0.0143	0.0027
Venus	123165-11-11 20:36 G	46706467.16	46706467.36	46706467.57	0.0142	0.0056
Venus	123166-06-26 09:05 G	46706693.71	46706693.88	46706694.07	0.0142	0.0084
Venus	123167-02-07 21:33 G	46706920.28	46706920.40	46706920.55	0.0142	0.0113

Venus	123167-09-22 09:48 G	46707146.89	46707146.91	46707146.96	0.0142	0.0140
Mercury	123171-10-20 07:09 G	46708635.80	46708635.80	46708635.83	0.0141	0.0140
Mercury	123172-01-16 12:41 G	46708723.95	46708724.03	46708724.13	0.0141	0.0117
Mercury	123172-04-13 18:12 G	46708812.15	46708812.26	46708812.39	0.0141	0.0094
Mercury	123172-07-10 23:43 G	46708900.36	46708900.49	46708900.64	0.0141	0.0071
Mercury	123172-10-07 05:14 G	46708988.58	46708988.72	46708988.88	0.0141	0.0048
Mercury	123173-01-03 11:00 G	46709076.80	46709076.96	46709077.13	0.0141	0.0024
Mercury	123173-04-01 16:45 G	46709165.03	46709165.20	46709165.36	0.0141	0.0001
Mercury	123173-06-28 22:17 G	46709253.27	46709253.43	46709253.60	0.0140	0.0024
Mercury	123173-09-25 04:02 G	46709341.52	46709341.67	46709341.83	0.0140	0.0048
Mercury	123173-12-22 09:33 G	46709429.77	46709429.90	46709430.06	0.0140	0.0073
Mercury	123174-03-20 15:33 G	46709518.03	46709518.15	46709518.28	0.0140	0.0096
Earth	123174-05-18 20:36 G	46709577.14	46709577.36	46709577.59	0.0140	0.0066
Moon	123174-05-18 20:36 G	46709577.15	46709577.36	46709577.59	0.0140	0.0061 *
Mercury	123174-06-16 21:19 G	46709606.31	46709606.39	46709606.48	0.0140	0.0121
Moon	123175-05-23 15:05 G	46709946.87	46709947.13	46709947.39	0.0140	0.0026
Earth	123175-05-23 15:05 G	46709946.89	46709947.13	46709947.38	0.0140	0.0030 *
Moon	123176-05-27 08:21 G	46710316.76	46710316.85	46710316.97	0.0140	0.0125
Earth	123176-05-27 08:36 G	46710316.76	46710316.86	46710316.99	0.0140	0.0124 *
Mars	123185-12-27 05:57 G	46713817.44	46713817.75	46713818.08	0.0137	0.0030
Venus	123204-04-12 14:07 G	46720498.99	46720499.09	46720499.20	0.0135	0.0117
Venus	123204-11-24 18:41 G	46720725.13	46720725.28	46720725.43	0.0135	0.0094
Venus	123205-07-08 23:14 G	46720951.29	46720951.47	46720951.65	0.0135	0.0071
Venus	123206-02-20 03:33 G	46721177.46	46721177.65	46721177.86	0.0135	0.0048
Venus	123206-10-04 08:21 G	46721403.64	46721403.85	46721404.06	0.0135	0.0024
Venus	123207-05-18 12:55 G	46721629.83	46721630.04	46721630.26	0.0136	0.0002
Venus	123207-12-30 17:43 G	46721856.03	46721856.24	46721856.45	0.0136	0.0023
Venus	123208-08-12 22:45 G	46722082.25	46722082.45	46722082.65	0.0136	0.0047
Venus	123209-03-27 03:19 G	46722308.47	46722308.64	46722308.83	0.0136	0.0071
Venus	123209-11-08 08:07 G	46722534.71	46722534.84	46722535.01	0.0136	0.0095

Venus	123210-06-22 13:24 G	46722760.97	46722761.06	46722761.17	0.0136	0.0118
Mercury	123215-01-23 11:57 G	46724437.00	46724437.00	46724437.02	0.0137	0.0136
Mercury	123215-04-21 16:17 G	46724525.12	46724525.18	46724525.28	0.0137	0.0116
Mercury	123215-07-18 21:05 G	46724613.28	46724613.38	46724613.49	0.0137	0.0095
Mercury	123215-10-15 01:38 G	46724701.44	46724701.57	46724701.70	0.0137	0.0074
Mercury	123216-01-11 05:57 G	46724789.62	46724789.75	46724789.90	0.0137	0.0054
Mercury	123216-04-08 10:31 G	46724877.79	46724877.94	46724878.09	0.0137	0.0033
Mercury	123216-07-05 14:50 G	46724965.97	46724966.12	46724966.27	0.0137	0.0014
Mercury	123216-10-01 19:24 G	46725054.16	46725054.31	46725054.46	0.0138	0.0008
Mercury	123216-12-28 23:43 G	46725142.34	46725142.49	46725142.63	0.0138	0.0028
Mercury	123217-03-27 03:48 G	46725230.53	46725230.66	46725230.81	0.0138	0.0048
Mercury	123217-06-23 08:07 G	46725318.72	46725318.84	46725318.97	0.0138	0.0068
Mercury	123217-09-19 12:12 G	46725406.91	46725407.01	46725407.14	0.0138	0.0088
Earth	123217-11-12 23:00 G	46725461.23	46725461.46	46725461.68	0.0138	0.0060
Moon	123217-11-13 00:12 G	46725461.28	46725461.51	46725461.76	0.0138	0.0053 *
Mercury	123217-12-16 16:45 G	46725495.11	46725495.20	46725495.29	0.0138	0.0107
Mercury	123218-03-14 20:36 G	46725583.32	46725583.36	46725583.43	0.0138	0.0127
Moon	123218-11-17 10:31 G	46725830.71	46725830.94	46725831.19	0.0138	0.0024
Earth	123218-11-17 11:43 G	46725830.75	46725830.99	46725831.24	0.0138	0.0030 *
Earth	123219-11-22 01:09 G	46726200.44	46726200.55	46726200.68	0.0138	0.0121
Moon	123219-11-22 02:36 G	46726200.52	46726200.61	46726200.74	0.0138	0.0125 *
Venus	123245-10-21 20:36 G	46735666.28	46735666.36	46735666.45	0.0143	0.0131
Venus	123246-06-05 09:19 G	46735892.75	46735892.89	46735893.06	0.0143	0.0103
Venus	123247-01-17 22:31 G	46736119.27	46736119.44	46736119.65	0.0143	0.0074
Venus	123247-09-01 11:43 G	46736345.78	46736345.99	46736346.21	0.0143	0.0044
Venus	123248-04-15 00:41 G	46736572.31	46736572.53	46736572.75	0.0143	0.0015
Venus	123248-11-27 13:24 G	46736798.84	46736799.06	46736799.29	0.0143	0.0014
Venus	123249-07-12 02:07 G	46737025.38	46737025.59	46737025.81	0.0142	0.0043
Venus	123250-02-23 14:36 G	46737251.93	46737252.11	46737252.32	0.0142	0.0072
Venus	123250-10-08 03:19 G	46737478.49	46737478.64	46737478.80	0.0142	0.0100

Venus	123251-05-22 15:48 G	46737705.07	46737705.16	46737705.26	0.0142	0.0128
Mercury	123255-11-09 14:21 G	46739337.07	46739337.10	46739337.16	0.0141	0.0134
Mercury	123256-02-05 19:53 G	46739425.25	46739425.33	46739425.44	0.0141	0.0111
Mercury	123256-05-04 01:24 G	46739513.45	46739513.56	46739513.70	0.0141	0.0088
Mercury	123256-07-31 06:55 G	46739601.66	46739601.79	46739601.95	0.0141	0.0065
Mercury	123256-10-27 12:41 G	46739689.88	46739690.03	46739690.19	0.0141	0.0041
Mercury	123257-01-23 18:12 G	46739778.10	46739778.26	46739778.43	0.0141	0.0018
Mercury	123257-04-21 23:57 G	46739866.34	46739866.50	46739866.67	0.0141	0.0007
Mercury	123257-07-19 05:43 G	46739954.58	46739954.74	46739954.90	0.0141	0.0030
Mercury	123257-10-15 11:14 G	46740042.82	46740042.97	46740043.13	0.0140	0.0055
Mercury	123258-01-11 17:00 G	46740131.08	46740131.21	46740131.35	0.0140	0.0079
Mercury	123258-04-09 22:45 G	46740219.34	46740219.45	46740219.57	0.0140	0.0103
Moon	123258-05-19 04:17 G	46740258.45	46740258.68	46740258.93	0.0140	0.0055
Earth	123258-05-19 06:55 G	46740258.57	46740258.79	46740259.03	0.0140	0.0062 *
Mercury	123258-07-07 04:31 G	46740307.63	46740307.69	46740307.77	0.0140	0.0127
Earth	123259-05-24 01:24 G	46740628.32	46740628.56	46740628.82	0.0140	0.0034
Moon	123259-05-24 03:48 G	46740628.42	46740628.66	46740628.91	0.0140	0.0027 *
Moon	123260-05-27 16:31 G	46740998.13	46740998.19	46740998.28	0.0140	0.0134
Earth	123260-05-27 18:55 G	46740998.21	46740998.29	46740998.41	0.0140	0.0129 *
Venus	123287-12-12 01:38 G	46751057.51	46751057.57	46751057.66	0.0135	0.0126
Venus	123288-07-25 06:12 G	46751283.64	46751283.76	46751283.92	0.0135	0.0104
Venus	123289-03-08 11:14 G	46751509.80	46751509.97	46751510.14	0.0135	0.0080
Venus	123289-10-20 15:33 G	46751735.96	46751736.15	46751736.35	0.0135	0.0056
Venus	123290-06-03 20:07 G	46751962.14	46751962.34	46751962.55	0.0135	0.0033
Venus	123291-01-16 00:55 G	46752188.33	46752188.54	46752188.75	0.0135	0.0009
Venus	123291-08-30 05:43 G	46752414.53	46752414.74	46752414.95	0.0136	0.0015
Venus	123292-04-12 10:17 G	46752640.73	46752640.93	46752641.14	0.0136	0.0038
Venus	123292-11-24 15:05 G	46752866.95	46752867.13	46752867.33	0.0136	0.0062
Venus	123293-07-08 20:07 G	46753093.19	46753093.34	46753093.51	0.0136	0.0086
Venus	123294-02-20 00:55 G	46753319.44	46753319.54	46753319.69	0.0136	0.0110

Venus	123294-10-04 06:26 G	46753545.74	46753545.77	46753545.82	0.0136	0.0133
Mercury	123299-02-12 19:38 G	46755138.28	46755138.32	46755138.38	0.0137	0.0129
Mercury	123299-05-12 00:12 G	46755226.43	46755226.51	46755226.61	0.0137	0.0108
Mercury	123299-08-08 04:45 G	46755314.59	46755314.70	46755314.82	0.0137	0.0087
Mercury	123299-11-04 09:19 G	46755402.76	46755402.89	46755403.03	0.0137	0.0067
Mercury	123300-01-31 13:38 G	46755490.94	46755491.07	46755491.22	0.0137	0.0047
Mercury	123300-04-29 18:12 G	46755579.11	46755579.26	46755579.41	0.0137	0.0026
Mercury	123300-07-26 22:45 G	46755667.30	46755667.45	46755667.60	0.0137	0.0006
Mercury	123300-10-23 03:05 G	46755755.48	46755755.63	46755755.78	0.0138	0.0015
Mercury	123301-01-19 07:24 G	46755843.66	46755843.81	46755843.95	0.0138	0.0035
Mercury	123301-04-17 11:43 G	46755931.85	46755931.99	46755932.12	0.0138	0.0055
Mercury	123301-07-14 15:48 G	46756020.04	46756020.16	46756020.29	0.0138	0.0075
Mercury	123301-10-10 20:07 G	46756108.24	46756108.34	46756108.45	0.0138	0.0095
Earth	123301-11-14 11:14 G	46756142.75	46756142.97	46756143.21	0.0138	0.0054
Moon	123301-11-14 12:26 G	46756142.79	46756143.02	46756143.25	0.0138	0.0048 *
Mercury	123302-01-07 00:26 G	46756196.44	46756196.52	46756196.60	0.0138	0.0114
Mercury	123302-04-05 04:31 G	46756284.66	46756284.69	46756284.73	0.0138	0.0134
Moon	123302-11-18 22:45 G	46756512.20	46756512.45	46756512.71	0.0138	0.0029
Earth	123302-11-19 00:12 G	46756512.27	46756512.51	46756512.76	0.0138	0.0036 *
Earth	123303-11-23 13:24 G	46756881.98	46756882.06	46756882.18	0.0138	0.0127
Moon	123303-11-23 14:36 G	46756882.06	46756882.11	46756882.18	0.0138	0.0134 *
Mars	123312-11-05 10:45 G	46760151.70	46760151.95	46760152.22	0.0141	0.0062
Venus	123330-02-03 15:48 G	46766451.04	46766451.16	46766451.30	0.0143	0.0115
Venus	123330-09-18 04:45 G	46766677.54	46766677.70	46766677.89	0.0143	0.0086
Venus	123331-05-02 17:57 G	46766904.05	46766904.25	46766904.46	0.0143	0.0057
Venus	123331-12-15 06:55 G	46767130.57	46767130.79	46767131.01	0.0143	0.0027
Venus	123332-07-28 19:53 G	46767357.11	46767357.33	46767357.55	0.0143	0.0002
Venus	123333-03-12 08:36 G	46767583.65	46767583.86	46767584.08	0.0142	0.0031
Venus	123333-10-24 21:05 G	46767810.19	46767810.38	46767810.59	0.0142	0.0061
Venus	123334-06-08 09:33 G	46768036.75	46768036.90	46768037.09	0.0142	0.0090

Venus	123335-01-20 22:31 G	46768263.32	46768263.44	46768263.57	0.0142	0.0117
Mercury	123339-11-30 22:17 G	46770038.36	46770038.43	46770038.50	0.0141	0.0126
Mercury	123340-02-27 03:48 G	46770126.55	46770126.66	46770126.77	0.0141	0.0103
Mercury	123340-05-25 09:05 G	46770214.76	46770214.88	46770215.02	0.0141	0.0080
Mercury	123340-08-21 14:36 G	46770302.97	46770303.11	46770303.27	0.0141	0.0057
Mercury	123340-11-17 20:21 G	46770391.19	46770391.35	46770391.51	0.0141	0.0033
Mercury	123341-02-14 01:53 G	46770479.42	46770479.58	46770479.75	0.0141	0.0010
Mercury	123341-05-13 07:38 G	46770567.65	46770567.82	46770567.98	0.0141	0.0014
Mercury	123341-08-09 13:09 G	46770655.89	46770656.05	46770656.21	0.0141	0.0038
Mercury	123341-11-05 18:41 G	46770744.14	46770744.28	46770744.44	0.0140	0.0063
Mercury	123342-02-02 00:26 G	46770832.40	46770832.52	46770832.66	0.0140	0.0087
Mercury	123342-05-01 06:26 G	46770920.67	46770920.77	46770920.87	0.0140	0.0110
Earth	123342-05-20 18:26 G	46770940.05	46770940.27	46770940.52	0.0140	0.0056
Moon	123342-05-20 22:17 G	46770940.19	46770940.43	46770940.67	0.0140	0.0051 *
Mercury	123342-07-28 12:12 G	46771008.97	46771009.01	46771009.06	0.0140	0.0135
Moon	123343-05-25 09:19 G	46771309.65	46771309.89	46771310.15	0.0140	0.0032
Earth	123343-05-25 12:55 G	46771309.81	46771310.04	46771310.30	0.0140	0.0040 *
Earth	123344-05-29 06:26 G	46771679.72	46771679.77	46771679.87	0.0140	0.0134
Mars	123353-05-15 07:38 G	46774952.62	46774952.82	46774953.08	0.0137	0.0099
Venus	123371-08-12 13:53 G	46781616.08	46781616.08	46781616.09	0.0135	0.0135
Venus	123372-03-25 18:12 G	46781842.15	46781842.26	46781842.39	0.0135	0.0112
Venus	123372-11-06 22:31 G	46782068.30	46782068.44	46782068.62	0.0135	0.0090
Venus	123373-06-21 03:19 G	46782294.46	46782294.64	46782294.83	0.0135	0.0066
Venus	123374-02-02 07:53 G	46782520.64	46782520.83	46782521.04	0.0135	0.0042
Venus	123374-09-16 12:41 G	46782746.82	46782747.03	46782747.24	0.0135	0.0018
Venus	123375-04-30 17:29 G	46782973.01	46782973.23	46782973.44	0.0135	0.0006
Venus	123375-12-12 22:02 G	46783199.22	46783199.42	46783199.63	0.0136	0.0030
Venus	123376-07-26 02:50 G	46783425.44	46783425.62	46783425.83	0.0136	0.0054
Venus	123377-03-09 08:07 G	46783651.67	46783651.84	46783652.02	0.0136	0.0077
Venus	123377-10-21 12:55 G	46783877.91	46783878.04	46783878.19	0.0136	0.0101

Venus	123378-06-04 17:57 G	46784104.18	46784104.25	46784104.35	0.0136	0.0125
Mercury	123383-03-06 03:19 G	46785839.58	46785839.64	46785839.72	0.0137	0.0121
Mercury	123383-06-02 07:53 G	46785927.74	46785927.83	46785927.94	0.0137	0.0100
Mercury	123383-08-29 12:41 G	46786015.90	46786016.03	46786016.15	0.0137	0.0080
Mercury	123383-11-25 17:00 G	46786104.08	46786104.21	46786104.35	0.0137	0.0059
Mercury	123384-02-21 21:33 G	46786192.25	46786192.40	46786192.55	0.0137	0.0038
Mercury	123384-05-20 01:53 G	46786280.43	46786280.58	46786280.73	0.0137	0.0018
Mercury	123384-08-16 06:26 G	46786368.62	46786368.77	46786368.92	0.0137	0.0004
Earth	123384-11-10 11:43 G	46786454.97	46786454.99	46786455.03	0.0138	0.0136
Moon	123384-11-10 14:50 G	46786455.09	46786455.12	46786455.19	0.0138	0.0135
Mercury	123384-11-12 10:45 G	46786456.80	46786456.95	46786457.10	0.0138	0.0022
Mercury	123385-02-08 15:05 G	46786544.99	46786545.13	46786545.27	0.0138	0.0042
Mercury	123385-05-07 19:09 G	46786633.18	46786633.30	46786633.44	0.0138	0.0063
Mercury	123385-08-03 23:29 G	46786721.37	46786721.48	46786721.61	0.0138	0.0082
Mercury	123385-10-31 03:48 G	46786809.57	46786809.66	46786809.76	0.0138	0.0102
Moon	123385-11-14 20:50 G	46786824.14	46786824.37	46786824.62	0.0138	0.0046
Earth	123385-11-14 23:57 G	46786824.27	46786824.50	46786824.75	0.0138	0.0048 *
Mercury	123386-01-27 07:53 G	46786897.77	46786897.83	46786897.91	0.0138	0.0122
Earth	123386-11-19 12:41 G	46787193.80	46787194.03	46787194.28	0.0138	0.0042
Moon	123386-11-19 15:48 G	46787193.93	46787194.16	46787194.41	0.0138	0.0037 *
Earth	123387-11-24 02:07 G	46787563.53	46787563.59	46787563.67	0.0138	0.0133
Jupiter	123392-04-07 01:38 G	46789159.37	46789159.57	46789159.87	0.0140	0.0121
Mars	123397-07-01 06:26 G	46791070.60	46791070.77	46791070.94	0.0141	0.0113
Venus	123413-10-04 21:05 G	46797009.30	46797009.38	46797009.49	0.0143	0.0128
Venus	123414-05-19 10:02 G	46797235.78	46797235.92	46797236.10	0.0143	0.0099
Venus	123414-12-31 23:14 G	46797462.29	46797462.47	46797462.68	0.0143	0.0070
Venus	123415-08-15 12:26 G	46797688.81	46797689.02	46797689.24	0.0143	0.0040
Venus	123416-03-29 01:24 G	46797915.34	46797915.56	46797915.78	0.0143	0.0011
Venus	123416-11-10 14:07 G	46798141.87	46798142.09	46798142.31	0.0142	0.0019
Venus	123417-06-25 02:36 G	46798368.42	46798368.61	46798368.84	0.0142	0.0049

Venus	123418-02-06 15:33 G	46798594.97	46798595.15	46798595.35	0.0142	0.0077
Venus	123418-09-21 04:02 G	46798821.54	46798821.67	46798821.83	0.0142	0.0106
Venus	123419-05-05 16:31 G	46799048.13	46799048.19	46799048.27	0.0142	0.0134
Mercury	123423-12-22 05:29 G	46800739.65	46800739.73	46800739.82	0.0141	0.0120
Mercury	123424-03-19 10:45 G	46800827.84	46800827.95	46800828.08	0.0141	0.0097
Mercury	123424-06-15 16:17 G	46800916.05	46800916.18	46800916.32	0.0141	0.0074
Mercury	123424-09-11 21:48 G	46801004.27	46801004.41	46801004.57	0.0141	0.0051
Mercury	123424-12-09 03:33 G	46801092.49	46801092.65	46801092.81	0.0141	0.0027
Mercury	123425-03-07 09:05 G	46801180.72	46801180.88	46801181.04	0.0141	0.0003
Mercury	123425-06-03 14:36 G	46801268.95	46801269.11	46801269.28	0.0141	0.0021
Mercury	123425-08-30 20:07 G	46801357.19	46801357.34	46801357.51	0.0141	0.0045
Mercury	123425-11-27 01:53 G	46801445.44	46801445.58	46801445.73	0.0140	0.0068
Mercury	123426-02-23 07:38 G	46801533.70	46801533.82	46801533.95	0.0140	0.0092
Moon	123426-05-22 02:07 G	46801621.35	46801621.59	46801621.82	0.0140	0.0052
Earth	123426-05-22 04:17 G	46801621.45	46801621.68	46801621.92	0.0140	0.0053 *
Mercury	123426-05-22 13:24 G	46801621.98	46801622.06	46801622.16	0.0140	0.0117
Earth	123427-05-26 22:45 G	46801991.22	46801991.45	46801991.70	0.0140	0.0043
Moon	123427-05-27 02:07 G	46801991.34	46801991.59	46801991.84	0.0140	0.0037 *
Earth	123428-05-30 16:31 G	46802361.16	46802361.19	46802361.26	0.0140	0.0137
Mars	123438-01-10 02:07 G	46805872.36	46805872.59	46805872.87	0.0137	0.0089
Venus	123455-11-25 05:29 G	46812400.66	46812400.73	46812400.84	0.0135	0.0122
Venus	123456-07-08 10:17 G	46812626.79	46812626.93	46812627.08	0.0135	0.0098
Venus	123457-02-19 15:05 G	46812852.95	46812853.13	46812853.30	0.0135	0.0075
Venus	123457-10-03 19:24 G	46813079.12	46813079.31	46813079.51	0.0135	0.0051
Venus	123458-05-17 23:57 G	46813305.30	46813305.50	46813305.72	0.0135	0.0028
Venus	123458-12-30 04:45 G	46813531.49	46813531.70	46813531.92	0.0135	0.0004
Venus	123459-08-13 09:33 G	46813757.70	46813757.90	46813758.12	0.0136	0.0021
Venus	123460-03-26 14:21 G	46813983.91	46813984.10	46813984.31	0.0136	0.0045
Venus	123460-11-07 19:09 G	46814210.13	46814210.30	46814210.50	0.0136	0.0069
Venus	123461-06-22 00:12 G	46814436.37	46814436.51	46814436.68	0.0136	0.0093

Venus	123462-02-03 05:29 G	46814662.63	46814662.73	46814662.85	0.0136	0.0116
Mercury	123466-12-29 06:12 G	46816452.75	46816452.76	46816452.80	0.0137	0.0135
Mercury	123467-03-27 10:45 G	46816540.88	46816540.95	46816541.05	0.0137	0.0114
Mercury	123467-06-23 15:33 G	46816629.04	46816629.15	46816629.26	0.0137	0.0093
Mercury	123467-09-19 20:07 G	46816717.21	46816717.34	46816717.47	0.0137	0.0072
Mercury	123467-12-17 00:26 G	46816805.39	46816805.52	46816805.67	0.0137	0.0052
Mercury	123468-03-14 05:00 G	46816893.57	46816893.71	46816893.86	0.0137	0.0032
Mercury	123468-06-10 09:33 G	46816981.75	46816981.90	46816982.05	0.0137	0.0011
Mercury	123468-09-06 13:53 G	46817069.93	46817070.08	46817070.23	0.0137	0.0009
Moon	123468-11-11 20:07 G	46817136.24	46817136.34	46817136.45	0.0137	0.0125
Earth	123468-11-11 23:29 G	46817136.42	46817136.48	46817136.57	0.0137	0.0131 *
Mercury	123468-12-03 18:12 G	46817158.12	46817158.26	46817158.41	0.0137	0.0029
Mercury	123469-03-01 22:31 G	46817246.30	46817246.44	46817246.58	0.0138	0.0049
Mercury	123469-05-29 02:50 G	46817334.49	46817334.62	46817334.75	0.0138	0.0069
Mercury	123469-08-25 07:09 G	46817422.69	46817422.80	46817422.91	0.0138	0.0089
Earth	123469-11-16 11:29 G	46817505.75	46817505.98	46817506.24	0.0138	0.0043
Moon	123469-11-16 15:05 G	46817505.89	46817506.13	46817506.38	0.0138	0.0045 *
Mercury	123469-11-21 11:14 G	46817510.89	46817510.97	46817511.07	0.0138	0.0109
Mercury	123470-02-17 15:19 G	46817599.10	46817599.14	46817599.20	0.0138	0.0129
Moon	123470-11-20 20:36 G	46817875.14	46817875.36	46817875.61	0.0138	0.0046
Earth	123470-11-21 00:26 G	46817875.29	46817875.52	46817875.76	0.0138	0.0047 *
Earth	123471-11-25 13:53 G	46818245.07	46818245.08	46818245.11	0.0138	0.0138
Venus	123497-06-04 03:19 G	46827567.61	46827567.64	46827567.69	0.0143	0.0140
Venus	123498-01-16 16:31 G	46827794.06	46827794.19	46827794.34	0.0143	0.0111
Venus	123498-08-31 05:29 G	46828020.56	46828020.73	46828020.92	0.0143	0.0082
Venus	123499-04-14 18:26 G	46828247.07	46828247.27	46828247.49	0.0143	0.0053
Venus	123499-11-27 07:38 G	46828473.60	46828473.82	46828474.04	0.0143	0.0023
Venus	123500-07-11 20:36 G	46828700.14	46828700.36	46828700.58	0.0142	0.0007
Venus	123501-02-23 09:19 G	46828926.68	46828926.89	46828927.11	0.0142	0.0036
Venus	123501-10-07 22:02 G	46829153.23	46829153.42	46829153.63	0.0142	0.0066

Venus	123502-05-22 10:45 G	46829379.79	46829379.95	46829380.12	0.0142	0.0094
Venus	123503-01-03 23:14 G	46829606.37	46829606.47	46829606.59	0.0142	0.0123
Mercury	123507-10-16 07:24 G	46831352.78	46831352.81	46831352.86	0.0141	0.0136
Mercury	123508-01-12 12:41 G	46831440.95	46831441.03	46831441.14	0.0141	0.0113
Mercury	123508-04-09 18:12 G	46831529.15	46831529.26	46831529.40	0.0141	0.0090
Mercury	123508-07-06 23:43 G	46831617.36	46831617.49	46831617.64	0.0141	0.0067
Mercury	123508-10-03 05:29 G	46831705.57	46831705.73	46831705.88	0.0141	0.0043
Mercury	123508-12-30 11:00 G	46831793.80	46831793.96	46831794.12	0.0141	0.0020
Mercury	123509-03-28 16:31 G	46831882.03	46831882.19	46831882.36	0.0141	0.0005
Moon	123509-05-18 19:24 G	46831933.29	46831933.31	46831933.37	0.0141	0.0139
Mercury	123509-06-24 22:17 G	46831970.27	46831970.43	46831970.59	0.0141	0.0028
Mercury	123509-09-21 03:48 G	46832058.51	46832058.66	46832058.82	0.0141	0.0052
Mercury	123509-12-18 09:19 G	46832146.76	46832146.89	46832147.04	0.0140	0.0076
Mercury	123510-03-16 15:05 G	46832235.02	46832235.13	46832235.26	0.0140	0.0100
Moon	123510-05-23 15:33 G	46832302.91	46832303.15	46832303.41	0.0140	0.0051
Earth	123510-05-23 15:33 G	46832302.91	46832303.15	46832303.40	0.0140	0.0048 *
Mercury	123510-06-12 21:05 G	46832323.30	46832323.38	46832323.46	0.0140	0.0124
Moon	123511-05-28 09:19 G	46832672.67	46832672.89	46832673.13	0.0140	0.0047
Earth	123511-05-28 10:17 G	46832672.69	46832672.93	46832673.17	0.0140	0.0047 *
Jupiter	123517-03-25 02:50 G	46834800.09	46834800.62	46834801.16	0.0138	0.0013
Venus	123539-07-26 17:00 G	46842959.18	46842959.21	46842959.28	0.0135	0.0131
Venus	123540-03-08 21:48 G	46843185.29	46843185.41	46843185.54	0.0135	0.0108
Venus	123540-10-21 02:07 G	46843411.44	46843411.59	46843411.77	0.0135	0.0085
Venus	123541-06-04 06:55 G	46843637.61	46843637.79	46843637.98	0.0135	0.0061
Venus	123542-01-16 11:43 G	46843863.78	46843863.99	46843864.19	0.0135	0.0037
Venus	123542-08-30 16:17 G	46844089.97	46844090.18	46844090.40	0.0135	0.0013
Venus	123543-04-13 21:05 G	46844316.17	46844316.38	46844316.60	0.0136	0.0011
Venus	123543-11-26 01:53 G	46844542.38	46844542.58	46844542.79	0.0136	0.0035
Venus	123544-07-09 06:41 G	46844768.60	46844768.78	46844768.98	0.0136	0.0060
Venus	123545-02-20 11:43 G	46844994.83	46844994.99	46844995.17	0.0136	0.0084

Venus	123545-10-04 16:31 G	46845221.08	46845221.19	46845221.34	0.0136	0.0108
Venus	123546-05-18 21:33 G	46845447.37	46845447.40	46845447.47	0.0136	0.0132
Mercury	123551-01-19 13:38 G	46847154.03	46847154.07	46847154.14	0.0137	0.0128
Mercury	123551-04-17 18:26 G	46847242.18	46847242.27	46847242.37	0.0137	0.0107
Mercury	123551-07-14 23:00 G	46847330.35	46847330.46	46847330.58	0.0137	0.0086
Mercury	123551-10-11 03:33 G	46847418.52	46847418.65	46847418.79	0.0137	0.0066
Mercury	123552-01-07 08:07 G	46847506.70	46847506.84	46847506.98	0.0137	0.0045
Mercury	123552-04-04 12:26 G	46847594.88	46847595.02	46847595.17	0.0137	0.0025
Mercury	123552-07-01 17:00 G	46847683.06	46847683.21	46847683.36	0.0137	0.0004
Mercury	123552-09-27 21:19 G	46847771.24	46847771.39	46847771.54	0.0137	0.0016
Earth	123552-11-13 11:00 G	46847817.88	46847817.96	46847818.08	0.0137	0.0126
Moon	123552-11-13 13:09 G	46847817.94	46847818.05	46847818.20	0.0137	0.0118 *
Mercury	123552-12-25 01:38 G	46847859.43	46847859.57	46847859.72	0.0137	0.0036
Mercury	123553-03-23 05:57 G	46847947.62	46847947.75	46847947.89	0.0138	0.0056
Mercury	123553-06-19 10:17 G	46848035.81	46848035.93	46848036.06	0.0138	0.0076
Mercury	123553-09-15 14:36 G	46848124.01	46848124.11	46848124.22	0.0138	0.0096
Moon	123553-11-17 22:02 G	46848187.19	46848187.42	46848187.65	0.0138	0.0043
Earth	123553-11-17 23:29 G	46848187.24	46848187.48	46848187.73	0.0138	0.0037 *
Mercury	123553-12-12 18:41 G	46848212.21	46848212.28	46848212.37	0.0138	0.0116
Mercury	123554-03-10 23:14 G	46848300.44	46848300.47	46848300.49	0.0138	0.0135
Earth	123554-11-22 11:57 G	46848556.78	46848557.00	46848557.25	0.0138	0.0053
Moon	123554-11-22 14:36 G	46848556.88	46848557.11	46848557.36	0.0138	0.0055 *
Mars	123564-11-20 03:48 G	46852207.38	46852207.66	46852207.95	0.0141	0.0008
Venus	123581-09-16 22:02 G	46858352.32	46858352.42	46858352.54	0.0143	0.0124
Venus	123582-05-01 11:00 G	46858578.80	46858578.96	46858579.14	0.0143	0.0095
Venus	123582-12-14 00:12 G	46858805.32	46858805.51	46858805.71	0.0143	0.0065
Venus	123583-07-28 13:09 G	46859031.84	46859032.05	46859032.27	0.0143	0.0036
Venus	123584-03-11 02:07 G	46859258.37	46859258.59	46859258.82	0.0142	0.0006
Venus	123584-10-23 15:05 G	46859484.91	46859485.13	46859485.35	0.0142	0.0024
Venus	123585-06-07 03:33 G	46859711.45	46859711.65	46859711.87	0.0142	0.0054

Venus	123586-01-19 16:31 G	46859938.01	46859938.19	46859938.38	0.0142	0.0082
Venus	123586-09-03 05:00 G	46860164.58	46860164.71	46860164.86	0.0142	0.0111
Venus	123587-04-17 17:14 G	46860391.20	46860391.22	46860391.27	0.0142	0.0140
Mercury	123591-11-05 14:21 G	46862054.06	46862054.10	46862054.18	0.0141	0.0130
Mercury	123592-02-01 19:53 G	46862142.24	46862142.33	46862142.44	0.0141	0.0107
Mercury	123592-04-30 01:24 G	46862230.44	46862230.56	46862230.70	0.0141	0.0084
Mercury	123592-07-27 06:55 G	46862318.65	46862318.79	46862318.94	0.0141	0.0061
Mercury	123592-10-23 12:26 G	46862406.87	46862407.02	46862407.18	0.0141	0.0038
Mercury	123593-01-19 17:57 G	46862495.09	46862495.25	46862495.42	0.0141	0.0014
Mercury	123593-04-17 23:43 G	46862583.32	46862583.49	46862583.65	0.0141	0.0010
Moon	123593-05-19 03:05 G	46862614.56	46862614.63	46862614.73	0.0141	0.0133
Earth	123593-05-19 05:29 G	46862614.73	46862614.73	46862614.76	0.0141	0.0140 *
Mercury	123593-07-15 05:14 G	46862671.56	46862671.72	46862671.88	0.0141	0.0033
Mercury	123593-10-11 10:45 G	46862759.81	46862759.95	46862760.11	0.0141	0.0058
Mercury	123594-01-07 16:31 G	46862848.06	46862848.19	46862848.33	0.0140	0.0081
Mercury	123594-04-05 22:02 G	46862936.32	46862936.42	46862936.54	0.0140	0.0106
Earth	123594-05-24 00:55 G	46862984.31	46862984.54	46862984.79	0.0140	0.0045
Moon	123594-05-24 03:19 G	46862984.42	46862984.64	46862984.88	0.0140	0.0052 *
Mercury	123594-07-03 04:02 G	46863024.61	46863024.67	46863024.74	0.0140	0.0130
Moon	123595-05-28 17:43 G	46863354.01	46863354.24	46863354.49	0.0140	0.0055
Earth	123595-05-28 19:38 G	46863354.10	46863354.32	46863354.57	0.0140	0.0051 *
Mars	123605-05-28 23:43 G	46867007.19	46867007.49	46867007.81	0.0137	0.0047
Venus	123623-11-07 08:50 G	46873743.78	46873743.87	46873743.98	0.0135	0.0118
Venus	123624-06-20 13:24 G	46873969.92	46873970.06	46873970.23	0.0135	0.0094
Venus	123625-02-01 17:57 G	46874196.08	46874196.25	46874196.45	0.0135	0.0071
Venus	123625-09-15 22:45 G	46874422.26	46874422.45	46874422.66	0.0135	0.0047
Venus	123626-04-30 03:33 G	46874648.44	46874648.65	46874648.86	0.0135	0.0022
Venus	123626-12-12 08:21 G	46874874.64	46874874.85	46874875.06	0.0136	0.0002
Venus	123627-07-26 13:24 G	46875100.85	46875101.06	46875101.26	0.0136	0.0026
Venus	123628-03-08 18:12 G	46875327.06	46875327.26	46875327.46	0.0136	0.0050

Venus	123628-10-20 22:45 G	46875553.28	46875553.45	46875553.64	0.0136	0.0075
Venus	123629-06-04 03:33 G	46875779.52	46875779.65	46875779.81	0.0136	0.0099
Venus	123630-01-16 08:36 G	46876005.79	46876005.86	46876005.97	0.0136	0.0123
Mercury	123635-02-08 21:19 G	46877855.33	46877855.39	46877855.47	0.0137	0.0121
Mercury	123635-05-08 01:53 G	46877943.48	46877943.58	46877943.69	0.0137	0.0101
Mercury	123635-08-04 06:26 G	46878031.65	46878031.77	46878031.90	0.0137	0.0080
Mercury	123635-10-31 11:00 G	46878119.82	46878119.96	46878120.10	0.0137	0.0059
Mercury	123636-01-27 15:33 G	46878208.00	46878208.15	46878208.29	0.0137	0.0039
Mercury	123636-04-24 19:53 G	46878296.18	46878296.33	46878296.48	0.0137	0.0018
Mercury	123636-07-22 00:26 G	46878384.37	46878384.52	46878384.67	0.0137	0.0003
Mercury	123636-10-18 04:45 G	46878472.55	46878472.70	46878472.85	0.0137	0.0022
Earth	123636-11-13 22:17 G	46878499.33	46878499.43	46878499.57	0.0137	0.0121
Moon	123636-11-13 23:00 G	46878499.34	46878499.46	46878499.61	0.0137	0.0114 *
Mercury	123637-01-14 09:05 G	46878560.74	46878560.88	46878561.03	0.0138	0.0043
Mercury	123637-04-12 13:24 G	46878648.93	46878649.06	46878649.20	0.0138	0.0063
Mercury	123637-07-09 17:43 G	46878737.12	46878737.24	46878737.36	0.0138	0.0083
Mercury	123637-10-05 21:48 G	46878825.32	46878825.41	46878825.52	0.0138	0.0103
Moon	123637-11-18 09:48 G	46878868.66	46878868.91	46878869.16	0.0138	0.0039
Earth	123637-11-18 10:45 G	46878868.71	46878868.95	46878869.20	0.0138	0.0032 *
Mercury	123638-01-02 02:21 G	46878913.53	46878913.60	46878913.67	0.0138	0.0122
Earth	123638-11-22 23:29 G	46879238.25	46879238.48	46879238.71	0.0138	0.0057
Moon	123638-11-22 23:29 G	46879238.28	46879238.48	46879238.71	0.0138	0.0064 *
Venus	123665-05-17 03:48 G	46888910.61	46888910.66	46888910.73	0.0143	0.0137
Venus	123665-12-29 17:00 G	46889137.08	46889137.21	46889137.37	0.0143	0.0108
Venus	123666-08-13 06:12 G	46889363.58	46889363.76	46889363.95	0.0143	0.0078
Venus	123667-03-27 19:09 G	46889590.10	46889590.30	46889590.52	0.0143	0.0048
Venus	123667-11-09 08:07 G	46889816.62	46889816.84	46889817.07	0.0143	0.0019
Venus	123668-06-22 21:05 G	46890043.16	46890043.38	46890043.61	0.0142	0.0011
Venus	123669-02-04 10:02 G	46890269.71	46890269.92	46890270.14	0.0142	0.0041
Venus	123669-09-18 22:45 G	46890496.26	46890496.45	46890496.65	0.0142	0.0070

Venus	123670-05-03 11:29 G	46890722.82	46890722.98	46890723.14	0.0142	0.0100
Venus	123670-12-15 23:43 G	46890949.41	46890949.49	46890949.59	0.0142	0.0129
Mercury	123675-11-25 22:02 G	46892755.35	46892755.42	46892755.50	0.0141	0.0123
Mercury	123676-02-22 03:33 G	46892843.53	46892843.65	46892843.76	0.0141	0.0100
Mercury	123676-05-20 08:50 G	46892931.74	46892931.87	46892932.01	0.0141	0.0077
Mercury	123676-08-16 14:21 G	46893019.95	46893020.10	46893020.25	0.0141	0.0054
Mercury	123676-11-12 19:53 G	46893108.17	46893108.33	46893108.49	0.0141	0.0031
Mercury	123677-02-09 01:24 G	46893196.40	46893196.56	46893196.72	0.0141	0.0007
Mercury	123677-05-08 06:55 G	46893284.63	46893284.79	46893284.95	0.0141	0.0016
Earth	123677-05-19 15:48 G	46893296.12	46893296.16	46893296.25	0.0141	0.0136
Moon	123677-05-19 19:38 G	46893296.24	46893296.32	46893296.43	0.0141	0.0130 *
Mercury	123677-08-04 12:26 G	46893372.87	46893373.02	46893373.18	0.0141	0.0040
Mercury	123677-10-31 17:57 G	46893461.12	46893461.25	46893461.41	0.0141	0.0065
Mercury	123678-01-27 23:43 G	46893549.37	46893549.49	46893549.63	0.0140	0.0088
Mercury	123678-04-26 05:29 G	46893637.64	46893637.73	46893637.84	0.0140	0.0112
Moon	123678-05-24 08:07 G	46893665.60	46893665.84	46893666.09	0.0140	0.0048
Earth	123678-05-24 11:57 G	46893665.76	46893666.00	46893666.25	0.0140	0.0040 *
Mercury	123678-07-23 11:14 G	46893725.94	46893725.97	46893726.02	0.0140	0.0137
Earth	123679-05-29 06:41 G	46894035.55	46894035.78	46894036.02	0.0140	0.0055
Moon	123679-05-29 10:02 G	46894035.71	46894035.92	46894036.16	0.0140	0.0063 *
Venus	123707-07-08 20:21 G	46904302.29	46904302.35	46904302.43	0.0135	0.0127
Venus	123708-02-20 00:41 G	46904528.41	46904528.53	46904528.68	0.0135	0.0104
Venus	123708-10-03 05:29 G	46904754.57	46904754.73	46904754.91	0.0135	0.0080
Venus	123709-05-17 10:02 G	46904980.74	46904980.92	46904981.12	0.0135	0.0057
Venus	123709-12-29 14:50 G	46905206.92	46905207.12	46905207.33	0.0135	0.0032
Venus	123710-08-12 19:53 G	46905433.12	46905433.33	46905433.54	0.0135	0.0008
Venus	123711-03-27 00:26 G	46905659.32	46905659.52	46905659.74	0.0136	0.0017
Venus	123711-11-08 05:14 G	46905885.52	46905885.72	46905885.93	0.0136	0.0041
Venus	123712-06-21 10:17 G	46906111.74	46906111.93	46906112.12	0.0136	0.0065
Venus	123713-02-02 15:05 G	46906337.98	46906338.13	46906338.30	0.0136	0.0089

Venus	123713-09-16 19:53 G	46906564.23	46906564.33	46906564.46	0.0136	0.0114
Mercury	123718-12-03 23:57 G	46908468.50	46908468.50	46908468.53	0.0137	0.0136
Mercury	123719-03-02 04:31 G	46908556.62	46908556.69	46908556.79	0.0137	0.0116
Mercury	123719-05-29 09:19 G	46908644.79	46908644.89	46908645.01	0.0137	0.0094
Mercury	123719-08-25 13:53 G	46908732.96	46908733.08	46908733.21	0.0137	0.0073
Mercury	123719-11-21 18:26 G	46908821.13	46908821.27	46908821.41	0.0137	0.0053
Mercury	123720-02-17 23:00 G	46908909.31	46908909.46	46908909.61	0.0137	0.0032
Mercury	123720-05-16 03:19 G	46908997.49	46908997.64	46908997.80	0.0137	0.0012
Mercury	123720-08-12 07:53 G	46909085.68	46909085.83	46909085.98	0.0137	0.0009
Mercury	123720-11-08 12:12 G	46909173.86	46909174.01	46909174.16	0.0137	0.0029
Moon	123720-11-15 06:41 G	46909180.65	46909180.78	46909180.93	0.0137	0.0113
Earth	123720-11-15 09:48 G	46909180.79	46909180.91	46909181.06	0.0137	0.0115 *
Mercury	123721-02-04 16:31 G	46909262.05	46909262.19	46909262.33	0.0138	0.0049
Mercury	123721-05-03 20:50 G	46909350.25	46909350.37	46909350.50	0.0138	0.0069
Mercury	123721-07-31 01:09 G	46909438.44	46909438.55	46909438.67	0.0138	0.0089
Mercury	123721-10-27 05:29 G	46909526.64	46909526.73	46909526.82	0.0138	0.0109
Earth	123721-11-19 22:02 G	46909550.17	46909550.42	46909550.67	0.0138	0.0027
Moon	123721-11-20 01:38 G	46909550.33	46909550.57	46909550.81	0.0138	0.0031 *
Mercury	123722-01-23 09:33 G	46909614.86	46909614.90	46909614.96	0.0138	0.0129
Moon	123722-11-24 07:38 G	46909919.60	46909919.82	46909920.05	0.0138	0.0068
Earth	123722-11-24 11:00 G	46909919.74	46909919.96	46909920.19	0.0138	0.0062 *
Mars	123732-04-09 23:00 G	46913344.38	46913344.46	46913344.58	0.0141	0.0131
Venus	123749-08-29 22:31 G	46919695.33	46919695.44	46919695.56	0.0143	0.0121
Venus	123750-04-13 11:14 G	46919921.82	46919921.97	46919922.16	0.0143	0.0092
Venus	123750-11-26 00:26 G	46920148.33	46920148.52	46920148.73	0.0143	0.0062
Venus	123751-07-10 13:38 G	46920374.85	46920375.07	46920375.29	0.0143	0.0032
Venus	123752-02-22 02:36 G	46920601.39	46920601.61	46920601.83	0.0142	0.0002
Venus	123752-10-05 15:19 G	46920827.93	46920828.14	46920828.37	0.0142	0.0028
Venus	123753-05-20 04:02 G	46921054.47	46921054.67	46921054.88	0.0142	0.0058
Venus	123754-01-01 16:45 G	46921281.03	46921281.20	46921281.38	0.0142	0.0087

Venus	123754-08-16 05:14 G	46921507.61	46921507.72	46921507.86	0.0142	0.0116
Mercury	123759-09-19 23:29 G	46923368.48	46923368.48	46923368.50	0.0141	0.0141
Mercury	123759-12-17 05:00 G	46923456.63	46923456.71	46923456.80	0.0141	0.0118
Mercury	123760-03-14 10:17 G	46923544.82	46923544.93	46923545.06	0.0141	0.0095
Mercury	123760-06-10 15:48 G	46923633.03	46923633.16	46923633.30	0.0141	0.0072
Mercury	123760-09-06 21:19 G	46923721.24	46923721.39	46923721.54	0.0141	0.0049
Mercury	123760-12-04 02:50 G	46923809.46	46923809.62	46923809.78	0.0141	0.0025
Mercury	123761-03-02 08:21 G	46923897.69	46923897.85	46923898.01	0.0141	0.0002
Moon	123761-05-21 00:12 G	46923977.45	46923977.51	46923977.60	0.0141	0.0134
Earth	123761-05-21 01:24 G	46923977.49	46923977.56	46923977.66	0.0141	0.0132 *
Mercury	123761-05-29 13:53 G	46923985.92	46923986.08	46923986.25	0.0141	0.0022
Mercury	123761-08-25 19:24 G	46924074.16	46924074.31	46924074.47	0.0141	0.0046
Mercury	123761-11-22 01:09 G	46924162.41	46924162.55	46924162.70	0.0140	0.0070
Mercury	123762-02-18 06:55 G	46924250.67	46924250.79	46924250.91	0.0140	0.0094
Mercury	123762-05-17 12:41 G	46924338.94	46924339.03	46924339.12	0.0140	0.0118
Earth	123762-05-25 21:05 G	46924347.14	46924347.38	46924347.64	0.0140	0.0036
Moon	123762-05-25 23:14 G	46924347.23	46924347.47	46924347.73	0.0140	0.0040 *
Moon	123763-05-30 14:07 G	46924716.88	46924717.09	46924717.32	0.0140	0.0064
Earth	123763-05-30 15:48 G	46924716.94	46924717.16	46924717.41	0.0140	0.0059 *
Venus	123791-10-20 11:43 G	46935086.89	46935086.99	46935087.12	0.0135	0.0114
Venus	123792-06-02 16:31 G	46935313.04	46935313.19	46935313.35	0.0135	0.0090
Venus	123793-01-14 21:05 G	46935539.21	46935539.38	46935539.58	0.0135	0.0067
Venus	123793-08-29 01:53 G	46935765.39	46935765.58	46935765.79	0.0135	0.0043
Venus	123794-04-12 06:41 G	46935991.58	46935991.78	46935992.00	0.0135	0.0018
Venus	123794-11-24 11:29 G	46936217.77	46936217.98	46936218.20	0.0136	0.0007
Venus	123795-07-08 16:31 G	46936443.98	46936444.19	46936444.40	0.0136	0.0031
Venus	123796-02-19 21:05 G	46936670.20	46936670.38	46936670.58	0.0136	0.0056
Venus	123796-10-03 01:53 G	46936896.42	46936896.58	46936896.76	0.0136	0.0080
Venus	123797-05-17 06:55 G	46937122.66	46937122.79	46937122.93	0.0136	0.0104
Venus	123797-12-29 11:43 G	46937348.94	46937348.99	46937349.07	0.0136	0.0128

Mercury	123802-12-25 07:38 G	46939169.77	46939169.82	46939169.87	0.0137	0.0129
Mercury	123803-03-23 12:12 G	46939257.92	46939258.01	46939258.11	0.0137	0.0108
Mercury	123803-06-19 16:45 G	46939346.09	46939346.20	46939346.32	0.0137	0.0088
Mercury	123803-09-15 21:19 G	46939434.26	46939434.39	46939434.53	0.0137	0.0067
Mercury	123803-12-13 01:53 G	46939522.44	46939522.58	46939522.73	0.0137	0.0046
Mercury	123804-03-10 06:26 G	46939610.62	46939610.77	46939610.92	0.0137	0.0026
Mercury	123804-06-06 10:45 G	46939698.80	46939698.95	46939699.11	0.0137	0.0006
Mercury	123804-09-02 15:19 G	46939786.99	46939787.14	46939787.29	0.0137	0.0015
Earth	123804-11-16 20:50 G	46939862.24	46939862.37	46939862.54	0.0137	0.0110
Moon	123804-11-16 23:43 G	46939862.36	46939862.49	46939862.65	0.0137	0.0114 *
Mercury	123804-11-29 19:38 G	46939875.18	46939875.32	46939875.47	0.0137	0.0035
Mercury	123805-02-25 23:57 G	46939963.37	46939963.50	46939963.64	0.0138	0.0056
Mercury	123805-05-25 04:17 G	46940051.56	46940051.68	46940051.81	0.0138	0.0076
Mercury	123805-08-21 08:36 G	46940139.76	46940139.86	46940139.97	0.0138	0.0096
Mercury	123805-11-17 12:41 G	46940227.96	46940228.03	46940228.12	0.0138	0.0116
Moon	123805-11-21 06:26 G	46940231.53	46940231.77	46940232.02	0.0138	0.0020
Earth	123805-11-21 09:33 G	46940231.65	46940231.90	46940232.15	0.0138	0.0021 *
Mercury	123806-02-13 17:14 G	46940316.19	46940316.22	46940316.25	0.0138	0.0135
Earth	123806-11-25 22:02 G	46940601.21	46940601.42	46940601.65	0.0138	0.0068
Moon	123806-11-26 00:41 G	46940601.32	46940601.53	46940601.77	0.0138	0.0068 *
Mars	123816-12-04 15:05 G	46944262.86	46944263.13	46944263.41	0.0141	0.0038
Venus	123833-04-30 03:33 G	46950253.59	46950253.65	46950253.74	0.0143	0.0135
Venus	123833-12-12 17:00 G	46950480.06	46950480.21	46950480.36	0.0143	0.0105
Venus	123834-07-27 05:43 G	46950706.57	46950706.74	46950706.95	0.0143	0.0076
Venus	123835-03-10 18:55 G	46950933.09	46950933.29	46950933.51	0.0143	0.0045
Venus	123835-10-23 08:07 G	46951159.62	46951159.84	46951160.06	0.0142	0.0015
Venus	123836-06-05 20:50 G	46951386.15	46951386.37	46951386.60	0.0142	0.0015
Venus	123837-01-18 09:48 G	46951612.70	46951612.91	46951613.13	0.0142	0.0045
Venus	123837-09-01 22:31 G	46951839.26	46951839.44	46951839.64	0.0142	0.0075
Venus	123838-04-16 10:45 G	46952065.82	46952065.95	46952066.12	0.0142	0.0105

Venus	123838-11-28 23:14 G	46952292.41	46952292.47	46952292.56	0.0142	0.0133
Mercury	123843-10-11 06:41 G	46954069.75	46954069.78	46954069.84	0.0141	0.0135
Mercury	123844-01-07 12:12 G	46954157.92	46954158.01	46954158.11	0.0141	0.0112
Mercury	123844-04-04 17:29 G	46954246.12	46954246.23	46954246.36	0.0141	0.0089
Mercury	123844-07-01 23:00 G	46954334.32	46954334.46	46954334.61	0.0141	0.0066
Mercury	123844-09-28 04:31 G	46954422.54	46954422.69	46954422.85	0.0141	0.0043
Mercury	123844-12-25 10:02 G	46954510.76	46954510.92	46954511.08	0.0141	0.0019
Mercury	123845-03-23 15:33 G	46954598.99	46954599.15	46954599.32	0.0141	0.0005
Moon	123845-05-22 09:33 G	46954658.82	46954658.90	46954658.98	0.0141	0.0134
Earth	123845-05-22 11:43 G	46954658.89	46954658.99	46954659.11	0.0141	0.0127 *
Mercury	123845-06-19 21:05 G	46954687.22	46954687.38	46954687.55	0.0141	0.0028
Mercury	123845-09-16 02:50 G	46954775.47	46954775.62	46954775.77	0.0141	0.0052
Mercury	123845-12-13 08:21 G	46954863.72	46954863.85	46954863.99	0.0140	0.0076
Mercury	123846-03-11 13:53 G	46954951.98	46954952.08	46954952.21	0.0140	0.0101
Earth	123846-05-27 07:38 G	46955028.57	46955028.82	46955029.07	0.0140	0.0032
Moon	123846-05-27 08:50 G	46955028.64	46955028.87	46955029.12	0.0140	0.0028 *
Mercury	123846-06-07 19:38 G	46955040.26	46955040.32	46955040.41	0.0140	0.0125
Moon	123847-06-01 00:55 G	46955398.31	46955398.54	46955398.78	0.0140	0.0062
Earth	123847-06-01 02:21 G	46955398.38	46955398.60	46955398.84	0.0140	0.0063 *
Mars	123857-06-11 12:41 G	46959061.69	46959062.03	46959062.36	0.0137	0.0002
Venus	123875-06-20 22:45 G	46965645.39	46965645.45	46965645.55	0.0135	0.0125
Venus	123876-02-02 03:33 G	46965871.52	46965871.65	46965871.80	0.0135	0.0101
Venus	123876-09-15 08:21 G	46966097.68	46966097.85	46966098.03	0.0135	0.0076
Venus	123877-04-29 12:55 G	46966323.85	46966324.04	46966324.24	0.0135	0.0052
Venus	123877-12-11 17:43 G	46966550.04	46966550.24	46966550.45	0.0135	0.0028
Venus	123878-07-25 22:45 G	46966776.24	46966776.45	46966776.66	0.0136	0.0004
Venus	123879-03-09 03:19 G	46967002.44	46967002.64	46967002.86	0.0136	0.0021
Venus	123879-10-21 08:07 G	46967228.64	46967228.84	46967229.04	0.0136	0.0046
Venus	123880-06-03 12:55 G	46967454.86	46967455.04	46967455.23	0.0136	0.0070
Venus	123881-01-15 17:57 G	46967681.10	46967681.25	46967681.40	0.0136	0.0094

Venus	123881-08-29 22:31 G	46967907.36	46967907.44	46967907.56	0.0136	0.0119
Mercury	123887-01-14 15:05 G	46969871.07	46969871.13	46969871.20	0.0137	0.0122
Mercury	123887-04-12 19:24 G	46969959.22	46969959.31	46969959.43	0.0137	0.0102
Mercury	123887-07-10 00:12 G	46970047.39	46970047.51	46970047.64	0.0137	0.0081
Mercury	123887-10-06 04:45 G	46970135.57	46970135.70	46970135.84	0.0137	0.0060
Mercury	123888-01-02 09:19 G	46970223.75	46970223.89	46970224.04	0.0137	0.0040
Mercury	123888-03-30 13:53 G	46970311.93	46970312.08	46970312.23	0.0137	0.0019
Mercury	123888-06-26 18:26 G	46970400.11	46970400.27	46970400.42	0.0137	0.0004
Mercury	123888-09-22 22:45 G	46970488.30	46970488.45	46970488.60	0.0137	0.0022
Earth	123888-11-17 08:50 G	46970543.72	46970543.87	46970544.04	0.0137	0.0104
Moon	123888-11-17 09:33 G	46970543.76	46970543.90	46970544.05	0.0137	0.0111 *
Mercury	123888-12-20 03:05 G	46970576.49	46970576.63	46970576.78	0.0137	0.0042
Mercury	123889-03-18 07:24 G	46970664.68	46970664.81	46970664.95	0.0138	0.0063
Mercury	123889-06-14 11:43 G	46970752.88	46970752.99	46970753.12	0.0138	0.0083
Mercury	123889-09-10 16:02 G	46970841.08	46970841.17	46970841.28	0.0138	0.0102
Moon	123889-11-21 21:19 G	46970913.12	46970913.39	46970913.65	0.0138	0.0010
Earth	123889-11-21 21:05 G	46970913.13	46970913.38	46970913.63	0.0138	0.0016 *
Mercury	123889-12-07 20:21 G	46970929.29	46970929.35	46970929.42	0.0138	0.0122
Earth	123890-11-26 09:33 G	46971282.71	46971282.90	46971283.13	0.0138	0.0073
Moon	123890-11-26 10:02 G	46971282.72	46971282.92	46971283.15	0.0138	0.0068 *
Venus	123917-08-12 22:31 G	46981038.31	46981038.44	46981038.56	0.0143	0.0118
Venus	123918-03-27 11:14 G	46981264.80	46981264.97	46981265.15	0.0143	0.0088
Venus	123918-11-09 00:12 G	46981491.31	46981491.51	46981491.72	0.0142	0.0059
Venus	123919-06-23 13:09 G	46981717.84	46981718.05	46981718.28	0.0142	0.0029
Venus	123920-02-05 02:21 G	46981944.38	46981944.60	46981944.82	0.0142	0.0002
Venus	123920-09-18 15:05 G	46982170.92	46982171.13	46982171.35	0.0142	0.0032
Venus	123921-05-03 03:48 G	46982397.46	46982397.66	46982397.86	0.0142	0.0062
Venus	123921-12-15 16:17 G	46982624.01	46982624.18	46982624.36	0.0142	0.0091
Venus	123922-07-30 04:45 G	46982850.59	46982850.70	46982850.82	0.0142	0.0120
Mercury	123927-11-01 13:53 G	46984771.02	46984771.08	46984771.14	0.0141	0.0129

Mercury	123928-01-28 18:55 G	46984859.20	46984859.29	46984859.41	0.0141	0.0107
Mercury	123928-04-26 00:26 G	46984947.40	46984947.52	46984947.66	0.0141	0.0084
Mercury	123928-07-23 05:57 G	46985035.61	46985035.75	46985035.90	0.0141	0.0061
Mercury	123928-10-19 11:29 G	46985123.83	46985123.98	46985124.14	0.0141	0.0037
Mercury	123929-01-15 17:00 G	46985212.05	46985212.21	46985212.37	0.0141	0.0014
Mercury	123929-04-13 22:31 G	46985300.28	46985300.44	46985300.61	0.0141	0.0010
Earth	123929-05-23 20:36 G	46985340.25	46985340.36	46985340.49	0.0141	0.0124
Moon	123929-05-24 00:12 G	46985340.44	46985340.51	46985340.62	0.0141	0.0132 *
Mercury	123929-07-11 04:02 G	46985388.52	46985388.67	46985388.83	0.0141	0.0034
Mercury	123929-10-07 09:48 G	46985476.76	46985476.91	46985477.06	0.0140	0.0057
Mercury	123930-01-03 15:19 G	46985565.01	46985565.14	46985565.28	0.0140	0.0082
Mercury	123930-04-01 21:05 G	46985653.28	46985653.38	46985653.49	0.0140	0.0105
Moon	123930-05-28 13:09 G	46985709.80	46985710.05	46985710.31	0.0140	0.0021
Earth	123930-05-28 16:45 G	46985709.95	46985710.20	46985710.45	0.0140	0.0029 *
Mercury	123930-06-29 02:50 G	46985741.56	46985741.62	46985741.68	0.0140	0.0130
Earth	123931-06-02 11:29 G	46986079.76	46986079.98	46986080.21	0.0140	0.0066
Moon	123931-06-02 15:05 G	46986079.91	46986080.13	46986080.36	0.0140	0.0060 *
Venus	123959-02-19 09:33 G	46996203.89	46996203.90	46996203.93	0.0135	0.0134
Venus	123959-10-03 14:21 G	46996429.98	46996430.10	46996430.22	0.0135	0.0111
Venus	123960-05-16 18:55 G	46996656.13	46996656.29	46996656.46	0.0135	0.0087
Venus	123960-12-28 23:29 G	46996882.30	46996882.48	46996882.68	0.0135	0.0063
Venus	123961-08-12 04:17 G	46997108.49	46997108.68	46997108.90	0.0135	0.0039
Venus	123962-03-26 09:19 G	46997334.68	46997334.89	46997335.10	0.0136	0.0014
Venus	123962-11-07 13:53 G	46997560.87	46997561.08	46997561.30	0.0136	0.0011
Venus	123963-06-21 18:41 G	46997787.08	46997787.28	46997787.49	0.0136	0.0036
Venus	123964-02-02 23:29 G	46998013.29	46998013.48	46998013.67	0.0136	0.0060
Venus	123964-09-16 04:17 G	46998239.52	46998239.68	46998239.85	0.0136	0.0085
Venus	123965-04-30 09:19 G	46998465.77	46998465.89	46998466.02	0.0136	0.0109
Venus	123965-12-12 14:21 G	46998692.06	46998692.10	46998692.14	0.0136	0.0133
Mercury	123971-02-04 22:17 G	47000572.36	47000572.43	47000572.52	0.0137	0.0116

Mercury	123971-05-04 03:05 G	47000660.52	47000660.63	47000660.74	0.0137	0.0095
Mercury	123971-07-31 07:38 G	47000748.69	47000748.82	47000748.95	0.0137	0.0074
Mercury	123971-10-27 12:12 G	47000836.87	47000837.01	47000837.15	0.0137	0.0054
Mercury	123972-01-23 16:45 G	47000925.05	47000925.20	47000925.35	0.0137	0.0033
Mercury	123972-04-20 21:19 G	47001013.24	47001013.39	47001013.54	0.0137	0.0012
Mercury	123972-07-18 01:38 G	47001101.42	47001101.57	47001101.73	0.0137	0.0009
Mercury	123972-10-14 06:12 G	47001189.61	47001189.76	47001189.91	0.0137	0.0028
Moon	123972-11-18 16:17 G	47001225.03	47001225.18	47001225.37	0.0137	0.0103
Earth	123972-11-18 19:38 G	47001225.17	47001225.32	47001225.52	0.0137	0.0100 *
Mercury	123973-01-10 10:31 G	47001277.80	47001277.94	47001278.08	0.0137	0.0049
Mercury	123973-04-08 14:50 G	47001366.00	47001366.12	47001366.25	0.0138	0.0069
Mercury	123973-07-05 19:09 G	47001454.19	47001454.30	47001454.42	0.0138	0.0089
Mercury	123973-10-01 23:29 G	47001542.40	47001542.48	47001542.58	0.0138	0.0109
Earth	123973-11-23 08:07 G	47001594.59	47001594.84	47001595.10	0.0138	0.0012
Moon	123973-11-23 11:00 G	47001594.72	47001594.96	47001595.21	0.0138	0.0005 *
Mercury	123973-12-29 03:33 G	47001630.61	47001630.65	47001630.72	0.0138	0.0129
Moon	123974-11-27 17:43 G	47001964.03	47001964.24	47001964.47	0.0138	0.0069
Earth	123974-11-27 20:50 G	47001964.17	47001964.37	47001964.59	0.0138	0.0077 *
Mars	123984-04-24 10:45 G	47005399.74	47005399.95	47005400.20	0.0141	0.0083

125TH MILLENNIUM CE

This is a list of transits visible from Uranus in the 125th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Venus	124001-04-12 03:33 G	47011596.58	47011596.65	47011596.75	0.0143	0.0132
Venus	124001-11-24 16:45 G	47011823.05	47011823.20	47011823.36	0.0143	0.0102
Venus	124002-07-09 05:43 G	47012049.56	47012049.74	47012049.94	0.0142	0.0072
Venus	124003-02-20 18:55 G	47012276.08	47012276.29	47012276.51	0.0142	0.0041
Venus	124003-10-05 07:53 G	47012502.61	47012502.83	47012503.05	0.0142	0.0011
Venus	124004-05-18 20:36 G	47012729.14	47012729.36	47012729.58	0.0142	0.0019
Venus	124004-12-31 09:19 G	47012955.69	47012955.89	47012956.10	0.0142	0.0049
Venus	124005-08-14 21:48 G	47013182.24	47013182.41	47013182.61	0.0142	0.0079
Venus	124006-03-29 10:31 G	47013408.80	47013408.94	47013409.09	0.0142	0.0108
Venus	124006-11-10 23:00 G	47013635.41	47013635.46	47013635.51	0.0142	0.0137
Mercury	124011-11-21 21:05 G	47015472.31	47015472.38	47015472.46	0.0141	0.0123
Mercury	124012-02-18 02:07 G	47015560.49	47015560.59	47015560.72	0.0141	0.0101
Mercury	124012-05-16 07:38 G	47015648.70	47015648.82	47015648.96	0.0141	0.0078
Mercury	124012-08-12 13:09 G	47015736.91	47015737.05	47015737.20	0.0141	0.0054
Mercury	124012-11-08 18:41 G	47015825.12	47015825.28	47015825.44	0.0141	0.0031
Mercury	124013-02-05 00:12 G	47015913.35	47015913.51	47015913.68	0.0141	0.0008
Mercury	124013-05-04 05:43 G	47016001.58	47016001.74	47016001.91	0.0141	0.0016
Moon	124013-05-24 04:17 G	47016021.58	47016021.68	47016021.81	0.0141	0.0124
Earth	124013-05-24 06:55 G	47016021.66	47016021.79	47016021.92	0.0141	0.0120 *
Mercury	124013-07-31 11:14 G	47016089.82	47016089.97	47016090.13	0.0140	0.0040
Mercury	124013-10-27 17:00 G	47016178.06	47016178.21	47016178.36	0.0140	0.0064
Mercury	124014-01-23 22:45 G	47016266.32	47016266.45	47016266.57	0.0140	0.0088
Mercury	124014-04-22 04:02 G	47016354.59	47016354.67	47016354.78	0.0140	0.0112
Earth	124014-05-29 02:36 G	47016391.36	47016391.61	47016391.87	0.0140	0.0025
Moon	124014-05-29 04:45 G	47016391.45	47016391.70	47016391.97	0.0140	0.0020 *
Mercury	124014-07-19 09:48 G	47016442.89	47016442.91	47016442.96	0.0140	0.0136
Moon	124015-06-02 18:41 G	47016761.07	47016761.28	47016761.52	0.0140	0.0062
Earth	124015-06-02 21:48 G	47016761.19	47016761.41	47016761.63	0.0140	0.0069 *
Venus	124043-06-03 01:09 G	47026988.45	47026988.55	47026988.64	0.0135	0.0121

Venus	124044-01-15 05:43 G	47027214.59	47027214.74	47027214.89	0.0135	0.0097
Venus	124044-08-28 10:17 G	47027440.76	47027440.93	47027441.12	0.0135	0.0073
Venus	124045-04-11 14:50 G	47027666.93	47027667.12	47027667.33	0.0135	0.0049
Venus	124045-11-23 19:38 G	47027893.12	47027893.32	47027893.53	0.0136	0.0024
Venus	124046-07-08 00:26 G	47028119.31	47028119.52	47028119.74	0.0136	0.0003
Venus	124047-02-19 05:14 G	47028345.51	47028345.72	47028345.93	0.0136	0.0026
Venus	124047-10-03 09:48 G	47028571.72	47028571.91	47028572.12	0.0136	0.0051
Venus	124048-05-16 14:36 G	47028797.94	47028798.11	47028798.30	0.0136	0.0075
Venus	124048-12-28 19:38 G	47029024.18	47029024.32	47029024.47	0.0136	0.0099
Venus	124049-08-12 00:26 G	47029250.45	47029250.52	47029250.62	0.0136	0.0124
Mercury	124054-11-29 00:55 G	47031185.51	47031185.54	47031185.59	0.0137	0.0131
Mercury	124055-02-25 05:29 G	47031273.65	47031273.73	47031273.83	0.0137	0.0110
Mercury	124055-05-24 10:17 G	47031361.82	47031361.93	47031362.05	0.0137	0.0089
Mercury	124055-08-20 14:50 G	47031449.99	47031450.12	47031450.26	0.0137	0.0068
Mercury	124055-11-16 19:24 G	47031538.17	47031538.31	47031538.46	0.0137	0.0048
Mercury	124056-02-12 23:57 G	47031626.36	47031626.50	47031626.65	0.0137	0.0027
Mercury	124056-05-11 04:31 G	47031714.54	47031714.69	47031714.84	0.0137	0.0007
Mercury	124056-08-07 09:05 G	47031802.73	47031802.88	47031803.03	0.0137	0.0014
Mercury	124056-11-03 13:24 G	47031890.92	47031891.06	47031891.21	0.0137	0.0035
Earth	124056-11-19 06:41 G	47031906.61	47031906.78	47031906.97	0.0137	0.0095
Moon	124056-11-19 10:17 G	47031906.75	47031906.93	47031907.12	0.0137	0.0094 *
Mercury	124057-01-30 17:57 G	47031979.11	47031979.25	47031979.39	0.0137	0.0055
Mercury	124057-04-28 22:02 G	47032067.31	47032067.42	47032067.56	0.0138	0.0076
Mercury	124057-07-26 02:36 G	47032155.51	47032155.61	47032155.72	0.0138	0.0095
Mercury	124057-10-22 06:55 G	47032243.71	47032243.79	47032243.87	0.0138	0.0115
Moon	124057-11-23 15:48 G	47032275.92	47032276.16	47032276.41	0.0138	0.0006
Earth	124057-11-23 18:55 G	47032276.04	47032276.29	47032276.55	0.0138	0.0008 *
Mercury	124058-01-18 11:00 G	47032331.94	47032331.96	47032332.00	0.0138	0.0135
Earth	124058-11-28 07:38 G	47032645.62	47032645.82	47032646.03	0.0138	0.0081
Moon	124058-11-28 11:00 G	47032645.76	47032645.96	47032646.19	0.0138	0.0075 *

Mars	124068-12-18 04:02 G	47036318.47	47036318.67	47036318.91	0.0141	0.0088
Venus	124085-07-24 22:17 G	47042381.31	47042381.43	47042381.57	0.0143	0.0115
Venus	124086-03-08 11:14 G	47042607.80	47042607.97	47042608.16	0.0143	0.0085
Venus	124086-10-21 00:12 G	47042834.31	47042834.51	47042834.72	0.0142	0.0055
Venus	124087-06-04 13:09 G	47043060.83	47043061.05	47043061.27	0.0142	0.0024
Venus	124088-01-17 02:07 G	47043287.37	47043287.59	47043287.82	0.0142	0.0006
Venus	124088-08-30 14:50 G	47043513.91	47043514.12	47043514.34	0.0142	0.0036
Venus	124089-04-14 03:19 G	47043740.45	47043740.64	47043740.84	0.0142	0.0066
Venus	124089-11-26 15:33 G	47043967.00	47043967.15	47043967.33	0.0142	0.0096
Venus	124090-07-11 04:02 G	47044193.58	47044193.67	47044193.79	0.0142	0.0125
Mercury	124095-09-14 22:45 G	47046085.44	47046085.45	47046085.47	0.0141	0.0140
Mercury	124095-12-12 03:48 G	47046173.59	47046173.66	47046173.76	0.0141	0.0118
Mercury	124096-03-09 09:19 G	47046261.78	47046261.89	47046262.02	0.0141	0.0095
Mercury	124096-06-05 14:50 G	47046349.99	47046350.12	47046350.26	0.0141	0.0072
Mercury	124096-09-01 20:07 G	47046438.20	47046438.34	47046438.50	0.0141	0.0049
Mercury	124096-11-29 01:38 G	47046526.42	47046526.57	47046526.74	0.0141	0.0026
Mercury	124097-02-25 07:24 G	47046614.64	47046614.81	47046614.97	0.0141	0.0004
Mercury	124097-05-24 12:41 G	47046702.88	47046703.03	47046703.20	0.0140	0.0023
Moon	124097-05-24 14:50 G	47046702.99	47046703.12	47046703.30	0.0140	0.0114 *
Earth	124097-05-24 16:02 G	47046703.04	47046703.17	47046703.32	0.0140	0.0117 *
Mercury	124097-08-20 18:26 G	47046791.11	47046791.27	47046791.42	0.0140	0.0046
Mercury	124097-11-16 23:57 G	47046879.36	47046879.50	47046879.65	0.0140	0.0070
Mercury	124098-02-13 05:29 G	47046967.62	47046967.73	47046967.86	0.0140	0.0094
Mercury	124098-05-12 11:14 G	47047055.89	47047055.97	47047056.06	0.0140	0.0118
Earth	124098-05-29 11:57 G	47047072.75	47047073.00	47047073.26	0.0140	0.0022
Moon	124098-05-29 13:09 G	47047072.81	47047073.05	47047073.29	0.0140	0.0022 *
Moon	124099-06-03 06:26 G	47047442.54	47047442.77	47047443.01	0.0140	0.0068
Earth	124099-06-03 06:41 G	47047442.57	47047442.78	47047443.01	0.0140	0.0072 *
Mars	124109-06-24 18:41 G	47051115.98	47051116.28	47051116.61	0.0137	0.0042
Venus	124127-02-01 11:00 G	47057546.93	47057546.96	47057547.02	0.0135	0.0132

Venus	124127-09-15 15:33 G	47057773.04	47057773.15	47057773.29	0.0135	0.0108
Venus	124128-04-28 20:07 G	47057999.19	47057999.34	47057999.53	0.0135	0.0084
Venus	124128-12-11 01:09 G	47058225.36	47058225.55	47058225.74	0.0136	0.0059
Venus	124129-07-25 05:43 G	47058451.55	47058451.74	47058451.96	0.0136	0.0035
Venus	124130-03-08 10:45 G	47058677.73	47058677.95	47058678.16	0.0136	0.0010
Venus	124130-10-20 15:19 G	47058903.93	47058904.14	47058904.35	0.0136	0.0015
Venus	124131-06-03 19:53 G	47059130.14	47059130.33	47059130.54	0.0136	0.0040
Venus	124132-01-16 00:41 G	47059356.35	47059356.53	47059356.73	0.0136	0.0065
Venus	124132-08-29 05:43 G	47059582.59	47059582.74	47059582.91	0.0136	0.0089
Venus	124133-04-12 10:31 G	47059808.84	47059808.94	47059809.07	0.0136	0.0114
Mercury	124138-12-20 08:07 G	47061886.79	47061886.84	47061886.91	0.0137	0.0125
Mercury	124139-03-18 12:55 G	47061974.94	47061975.04	47061975.14	0.0137	0.0104
Mercury	124139-06-14 17:29 G	47062063.11	47062063.23	47062063.36	0.0137	0.0083
Mercury	124139-09-10 22:02 G	47062151.29	47062151.42	47062151.56	0.0137	0.0063
Mercury	124139-12-08 02:50 G	47062239.47	47062239.62	47062239.76	0.0137	0.0042
Mercury	124140-03-05 07:09 G	47062327.66	47062327.80	47062327.96	0.0137	0.0021
Mercury	124140-06-01 11:43 G	47062415.84	47062415.99	47062416.14	0.0137	0.0003
Mercury	124140-08-28 16:17 G	47062504.03	47062504.18	47062504.33	0.0137	0.0020
Moon	124140-11-20 15:48 G	47062587.99	47062588.16	47062588.37	0.0137	0.0086
Earth	124140-11-20 17:14 G	47062588.03	47062588.22	47062588.40	0.0137	0.0091 *
Mercury	124140-11-24 20:36 G	47062592.22	47062592.36	47062592.51	0.0137	0.0041
Mercury	124141-02-21 01:09 G	47062680.41	47062680.55	47062680.68	0.0138	0.0061
Mercury	124141-05-20 05:29 G	47062768.61	47062768.73	47062768.85	0.0138	0.0081
Mercury	124141-08-16 09:48 G	47062856.81	47062856.91	47062857.01	0.0138	0.0101
Mercury	124141-11-12 13:53 G	47062945.02	47062945.08	47062945.16	0.0138	0.0121
Earth	124141-11-25 05:14 G	47062957.47	47062957.72	47062957.97	0.0138	0.0004
Moon	124141-11-25 05:43 G	47062957.48	47062957.74	47062958.00	0.0138	0.0008 *
Moon	124142-11-29 16:31 G	47063327.01	47063327.19	47063327.40	0.0138	0.0085
Earth	124142-11-29 17:29 G	47063327.05	47063327.23	47063327.45	0.0138	0.0085 *
Venus	124169-03-25 04:02 G	47072939.58	47072939.67	47072939.77	0.0143	0.0128

Venus	124169-11-06 17:00 G	47073166.05	47073166.21	47073166.37	0.0143	0.0098
Venus	124170-06-21 05:43 G	47073392.55	47073392.74	47073392.94	0.0143	0.0068
Venus	124171-02-02 18:41 G	47073619.07	47073619.28	47073619.50	0.0142	0.0038
Venus	124171-09-17 07:38 G	47073845.60	47073845.82	47073846.04	0.0142	0.0007
Venus	124172-04-30 20:07 G	47074072.13	47074072.34	47074072.57	0.0142	0.0024
Venus	124172-12-13 08:50 G	47074298.67	47074298.87	47074299.08	0.0142	0.0053
Venus	124173-07-27 21:19 G	47074525.22	47074525.39	47074525.58	0.0142	0.0083
Venus	124174-03-11 09:33 G	47074751.79	47074751.90	47074752.05	0.0142	0.0114
Venus	124174-10-23 22:17 G	47074978.43	47074978.43	47074978.44	0.0142	0.0142
Mercury	124179-10-06 05:57 G	47076786.71	47076786.75	47076786.80	0.0141	0.0134
Mercury	124180-01-02 11:00 G	47076874.88	47076874.96	47076875.07	0.0141	0.0112
Mercury	124180-03-30 16:31 G	47076963.07	47076963.19	47076963.32	0.0141	0.0089
Mercury	124180-06-26 22:02 G	47077051.28	47077051.42	47077051.56	0.0141	0.0066
Mercury	124180-09-23 03:19 G	47077139.49	47077139.64	47077139.80	0.0141	0.0043
Mercury	124180-12-20 08:50 G	47077227.72	47077227.87	47077228.04	0.0141	0.0020
Mercury	124181-03-18 14:21 G	47077315.94	47077316.10	47077316.27	0.0141	0.0006
Earth	124181-05-26 01:38 G	47077384.45	47077384.57	47077384.75	0.0140	0.0114
Moon	124181-05-26 05:29 G	47077384.57	47077384.73	47077384.90	0.0140	0.0106 *
Mercury	124181-06-14 19:53 G	47077404.18	47077404.33	47077404.50	0.0140	0.0028
Mercury	124181-09-11 01:38 G	47077492.42	47077492.57	47077492.72	0.0140	0.0052
Mercury	124181-12-08 07:09 G	47077580.66	47077580.80	47077580.94	0.0140	0.0076
Mercury	124182-03-06 12:55 G	47077668.92	47077669.04	47077669.15	0.0140	0.0100
Moon	124182-05-30 18:26 G	47077754.01	47077754.27	47077754.52	0.0140	0.0025
Earth	124182-05-30 21:48 G	47077754.16	47077754.41	47077754.67	0.0140	0.0019 *
Mercury	124182-06-02 18:12 G	47077757.20	47077757.26	47077757.35	0.0140	0.0124
Earth	124183-06-04 16:45 G	47078123.99	47078124.20	47078124.42	0.0140	0.0075
Moon	124183-06-04 19:53 G	47078124.13	47078124.33	47078124.55	0.0140	0.0078 *
Venus	124211-05-17 01:53 G	47088331.50	47088331.58	47088331.70	0.0135	0.0119
Venus	124211-12-29 06:55 G	47088557.64	47088557.79	47088557.94	0.0135	0.0094
Venus	124212-08-11 11:29 G	47088783.81	47088783.98	47088784.17	0.0136	0.0070

Venus	124213-03-25 16:17 G	47089009.98	47089010.18	47089010.38	0.0136	0.0045
Venus	124213-11-06 20:50 G	47089236.16	47089236.37	47089236.58	0.0136	0.0020
Venus	124214-06-21 01:38 G	47089462.36	47089462.57	47089462.78	0.0136	0.0005
Venus	124215-02-02 06:12 G	47089688.56	47089688.76	47089688.98	0.0136	0.0030
Venus	124215-09-16 11:14 G	47089914.77	47089914.97	47089915.16	0.0136	0.0054
Venus	124216-04-29 15:48 G	47090141.00	47090141.16	47090141.34	0.0136	0.0079
Venus	124216-12-11 20:36 G	47090367.24	47090367.36	47090367.51	0.0136	0.0104
Venus	124217-07-26 01:53 G	47090593.52	47090593.58	47090593.66	0.0136	0.0128
Mercury	124223-01-10 15:33 G	47092588.08	47092588.15	47092588.22	0.0137	0.0119
Mercury	124223-04-08 20:07 G	47092676.24	47092676.34	47092676.45	0.0137	0.0098
Mercury	124223-07-06 00:41 G	47092764.41	47092764.53	47092764.66	0.0137	0.0078
Mercury	124223-10-02 05:29 G	47092852.59	47092852.73	47092852.87	0.0137	0.0057
Mercury	124223-12-29 09:48 G	47092940.77	47092940.91	47092941.06	0.0137	0.0036
Mercury	124224-03-26 14:21 G	47093028.95	47093029.10	47093029.26	0.0137	0.0016
Mercury	124224-06-22 18:55 G	47093117.14	47093117.29	47093117.44	0.0137	0.0005
Mercury	124224-09-18 23:29 G	47093205.33	47093205.48	47093205.63	0.0137	0.0026
Moon	124224-11-22 00:26 G	47093269.32	47093269.52	47093269.74	0.0138	0.0080
Earth	124224-11-22 02:36 G	47093269.44	47093269.61	47093269.83	0.0138	0.0088 *
Mercury	124224-12-16 03:48 G	47093293.52	47093293.66	47093293.80	0.0138	0.0046
Mercury	124225-03-14 08:07 G	47093381.71	47093381.84	47093381.98	0.0138	0.0066
Mercury	124225-06-10 12:26 G	47093469.91	47093470.02	47093470.14	0.0138	0.0087
Mercury	124225-09-06 16:45 G	47093558.11	47093558.20	47093558.30	0.0138	0.0106
Earth	124225-11-26 15:05 G	47093638.87	47093639.13	47093639.38	0.0138	0.0001
Moon	124225-11-26 17:43 G	47093638.99	47093639.24	47093639.49	0.0138	0.0007 *
Mercury	124225-12-03 21:05 G	47093646.33	47093646.38	47093646.45	0.0138	0.0126
Moon	124226-12-01 00:55 G	47094008.37	47094008.54	47094008.75	0.0138	0.0094
Earth	124226-12-01 03:19 G	47094008.46	47094008.64	47094008.85	0.0138	0.0089 *
Mars	124236-05-08 22:02 G	47097455.15	47097455.42	47097455.70	0.0140	0.0040
Venus	124252-11-23 09:19 G	47103497.88	47103497.89	47103497.92	0.0143	0.0142
Venus	124253-07-07 22:17 G	47103724.30	47103724.43	47103724.57	0.0143	0.0112

Venus	124254-02-19 11:00 G	47103950.79	47103950.96	47103951.16	0.0143	0.0082
Venus	124254-10-03 23:57 G	47104177.30	47104177.50	47104177.72	0.0142	0.0051
Venus	124255-05-18 12:55 G	47104403.82	47104404.04	47104404.26	0.0142	0.0021
Venus	124255-12-31 01:38 G	47104630.35	47104630.57	47104630.79	0.0142	0.0010
Venus	124256-08-13 14:07 G	47104856.89	47104857.09	47104857.31	0.0142	0.0040
Venus	124257-03-28 02:36 G	47105083.43	47105083.61	47105083.82	0.0142	0.0071
Venus	124257-11-09 15:05 G	47105309.99	47105310.13	47105310.30	0.0142	0.0100
Venus	124258-06-24 03:48 G	47105536.57	47105536.66	47105536.75	0.0142	0.0129
Mercury	124263-10-27 12:55 G	47107487.99	47107488.04	47107488.11	0.0141	0.0129
Mercury	124264-01-23 18:12 G	47107576.17	47107576.26	47107576.37	0.0141	0.0106
Mercury	124264-04-20 23:43 G	47107664.36	47107664.49	47107664.62	0.0141	0.0083
Mercury	124264-07-18 05:00 G	47107752.57	47107752.71	47107752.86	0.0141	0.0060
Mercury	124264-10-14 10:31 G	47107840.79	47107840.94	47107841.10	0.0141	0.0037
Mercury	124265-01-10 16:02 G	47107929.01	47107929.17	47107929.33	0.0141	0.0013
Mercury	124265-04-08 21:33 G	47108017.23	47108017.40	47108017.56	0.0141	0.0010
Moon	124265-05-27 08:50 G	47108065.71	47108065.87	47108066.04	0.0140	0.0104
Earth	124265-05-27 11:14 G	47108065.82	47108065.97	47108066.14	0.0140	0.0110 *
Mercury	124265-07-06 03:05 G	47108105.47	47108105.63	47108105.79	0.0140	0.0034
Mercury	124265-10-02 08:21 G	47108193.71	47108193.85	47108194.01	0.0140	0.0058
Mercury	124265-12-29 13:53 G	47108281.96	47108282.08	47108282.23	0.0140	0.0082
Mercury	124266-03-27 19:38 G	47108370.22	47108370.32	47108370.44	0.0140	0.0105
Earth	124266-06-01 06:55 G	47108435.54	47108435.79	47108436.05	0.0140	0.0016
Moon	124266-06-01 10:17 G	47108435.68	47108435.93	47108436.19	0.0140	0.0023 *
Mercury	124266-06-24 01:24 G	47108458.50	47108458.56	47108458.63	0.0140	0.0129
Moon	124267-06-05 22:31 G	47108805.26	47108805.44	47108805.66	0.0140	0.0086
Earth	124267-06-06 01:38 G	47108805.37	47108805.57	47108805.79	0.0140	0.0078 *
Mars	124276-11-10 06:26 G	47112250.57	47112250.77	47112251.00	0.0137	0.0105
Venus	124295-01-14 12:12 G	47118889.96	47118890.01	47118890.08	0.0135	0.0130
Venus	124295-08-28 16:45 G	47119116.08	47119116.20	47119116.35	0.0135	0.0105
Venus	124296-04-10 21:33 G	47119342.24	47119342.40	47119342.58	0.0136	0.0081

Venus	124296-11-23 02:21 G	47119568.40	47119568.60	47119568.79	0.0136	0.0056
Venus	124297-07-07 06:55 G	47119794.59	47119794.79	47119795.00	0.0136	0.0031
Venus	124298-02-18 11:43 G	47120020.78	47120020.99	47120021.20	0.0136	0.0006
Venus	124298-10-02 16:17 G	47120246.98	47120247.18	47120247.40	0.0136	0.0019
Venus	124299-05-16 20:50 G	47120473.18	47120473.37	47120473.59	0.0136	0.0044
Venus	124299-12-29 01:53 G	47120699.40	47120699.58	47120699.77	0.0136	0.0068
Venus	124300-08-12 06:55 G	47120925.64	47120925.79	47120925.95	0.0136	0.0093
Venus	124301-03-26 11:43 G	47121151.90	47121151.99	47121152.11	0.0136	0.0118
Mercury	124306-11-04 17:43 G	47123201.23	47123201.24	47123201.27	0.0137	0.0135
Mercury	124307-01-31 22:31 G	47123289.36	47123289.44	47123289.53	0.0137	0.0114
Mercury	124307-04-30 03:05 G	47123377.53	47123377.63	47123377.75	0.0137	0.0093
Mercury	124307-07-27 07:53 G	47123465.70	47123465.83	47123465.96	0.0137	0.0072
Mercury	124307-10-23 12:26 G	47123553.88	47123554.02	47123554.17	0.0137	0.0051
Mercury	124308-01-19 17:00 G	47123642.06	47123642.21	47123642.36	0.0137	0.0031
Mercury	124308-04-16 21:33 G	47123730.25	47123730.40	47123730.55	0.0137	0.0010
Mercury	124308-07-14 02:07 G	47123818.44	47123818.59	47123818.74	0.0137	0.0011
Mercury	124308-10-10 06:26 G	47123906.63	47123906.77	47123906.92	0.0138	0.0031
Earth	124308-11-23 12:26 G	47123950.83	47123951.02	47123951.23	0.0138	0.0083
Moon	124308-11-23 15:48 G	47123950.97	47123951.16	47123951.38	0.0138	0.0080 *
Mercury	124309-01-06 10:45 G	47123994.82	47123994.95	47123995.10	0.0138	0.0052
Mercury	124309-04-04 15:05 G	47124083.01	47124083.13	47124083.27	0.0138	0.0072
Mercury	124309-07-01 19:24 G	47124171.21	47124171.31	47124171.43	0.0138	0.0092
Mercury	124309-09-27 23:43 G	47124259.42	47124259.49	47124259.59	0.0138	0.0112
Moon	124309-11-27 21:05 G	47124320.13	47124320.38	47124320.64	0.0138	0.0003
Earth	124309-11-28 00:55 G	47124320.28	47124320.54	47124320.79	0.0138	0.0004 *
Mercury	124309-12-25 04:17 G	47124347.64	47124347.68	47124347.73	0.0138	0.0131
Earth	124310-12-02 13:24 G	47124689.87	47124690.06	47124690.25	0.0138	0.0092
Moon	124310-12-02 16:17 G	47124690.03	47124690.18	47124690.38	0.0138	0.0099 *
Mars	124321-01-02 11:00 G	47128373.87	47128373.96	47128374.11	0.0141	0.0128
Venus	124337-03-08 03:19 G	47134282.54	47134282.64	47134282.75	0.0143	0.0126

Venus	124337-10-20 16:02 G	47134509.01	47134509.17	47134509.34	0.0143	0.0096
Venus	124338-06-04 04:45 G	47134735.52	47134735.70	47134735.91	0.0142	0.0066
Venus	124339-01-16 17:57 G	47134962.04	47134962.25	47134962.47	0.0142	0.0035
Venus	124339-08-31 06:41 G	47135188.56	47135188.78	47135189.01	0.0142	0.0005
Venus	124340-04-13 19:24 G	47135415.09	47135415.31	47135415.53	0.0142	0.0026
Venus	124340-11-26 07:53 G	47135641.63	47135641.83	47135642.04	0.0142	0.0057
Venus	124341-07-10 20:36 G	47135868.19	47135868.36	47135868.54	0.0142	0.0087
Venus	124342-02-22 09:05 G	47136094.76	47136094.88	47136095.01	0.0142	0.0116
Mercury	124347-11-17 20:07 G	47138189.27	47138189.34	47138189.42	0.0141	0.0123
Mercury	124348-02-14 01:38 G	47138277.46	47138277.57	47138277.68	0.0141	0.0100
Mercury	124348-05-12 06:41 G	47138365.66	47138365.78	47138365.92	0.0141	0.0078
Mercury	124348-08-08 11:57 G	47138453.86	47138454.00	47138454.16	0.0141	0.0055
Mercury	124348-11-04 17:29 G	47138542.08	47138542.23	47138542.39	0.0141	0.0032
Mercury	124349-01-31 23:00 G	47138630.30	47138630.46	47138630.62	0.0141	0.0008
Mercury	124349-04-30 04:31 G	47138718.53	47138718.69	47138718.85	0.0141	0.0016
Moon	124349-05-28 19:38 G	47138747.16	47138747.32	47138747.50	0.0141	0.0107
Earth	124349-05-28 20:50 G	47138747.21	47138747.37	47138747.55	0.0141	0.0106 *
Mercury	124349-07-27 10:02 G	47138806.76	47138806.92	47138807.08	0.0140	0.0039
Mercury	124349-10-23 15:33 G	47138895.01	47138895.15	47138895.30	0.0140	0.0063
Mercury	124350-01-19 20:50 G	47138983.26	47138983.37	47138983.51	0.0140	0.0088
Mercury	124350-04-18 02:36 G	47139071.52	47139071.61	47139071.72	0.0140	0.0111
Earth	124350-06-02 16:31 G	47139116.93	47139117.19	47139117.44	0.0140	0.0011
Moon	124350-06-02 16:45 G	47139116.95	47139117.20	47139117.44	0.0140	0.0015 *
Mercury	124350-07-15 08:07 G	47139159.82	47139159.84	47139159.90	0.0140	0.0136
Moon	124351-06-07 11:00 G	47139486.75	47139486.96	47139487.17	0.0140	0.0087
Earth	124351-06-07 11:00 G	47139486.77	47139486.96	47139487.18	0.0140	0.0082 *
Mars	124361-07-08 00:12 G	47143170.27	47143170.51	47143170.80	0.0137	0.0082
Venus	124379-04-29 02:50 G	47149674.53	47149674.62	47149674.74	0.0135	0.0117
Venus	124379-12-11 07:38 G	47149900.67	47149900.82	47149900.98	0.0135	0.0092
Venus	124380-07-24 12:12 G	47150126.84	47150127.01	47150127.21	0.0136	0.0068

Venus	124381-03-07 17:00 G	47150353.02	47150353.21	47150353.42	0.0136	0.0043
Venus	124381-10-19 21:48 G	47150579.20	47150579.41	47150579.63	0.0136	0.0018
Venus	124382-06-03 02:36 G	47150805.40	47150805.61	47150805.82	0.0136	0.0008
Venus	124383-01-15 07:09 G	47151031.60	47151031.80	47151032.02	0.0136	0.0033
Venus	124383-08-29 12:12 G	47151257.82	47151258.01	47151258.21	0.0136	0.0058
Venus	124384-04-11 17:00 G	47151484.05	47151484.21	47151484.39	0.0136	0.0083
Venus	124384-11-23 22:17 G	47151710.30	47151710.43	47151710.56	0.0136	0.0107
Venus	124385-07-08 03:05 G	47151936.59	47151936.63	47151936.69	0.0136	0.0132
Mercury	124390-11-25 01:09 G	47153902.50	47153902.55	47153902.60	0.0137	0.0129
Mercury	124391-02-21 05:43 G	47153990.65	47153990.74	47153990.84	0.0137	0.0108
Mercury	124391-05-20 10:31 G	47154078.82	47154078.94	47154079.06	0.0137	0.0087
Mercury	124391-08-16 15:05 G	47154167.00	47154167.13	47154167.27	0.0137	0.0067
Mercury	124391-11-12 19:38 G	47154255.18	47154255.32	47154255.47	0.0137	0.0046
Mercury	124392-02-09 00:12 G	47154343.36	47154343.51	47154343.66	0.0137	0.0025
Mercury	124392-05-07 04:45 G	47154431.55	47154431.70	47154431.85	0.0137	0.0005
Mercury	124392-08-03 09:05 G	47154519.73	47154519.88	47154520.04	0.0137	0.0017
Mercury	124392-10-30 13:38 G	47154607.93	47154608.07	47154608.22	0.0138	0.0036
Moon	124392-11-23 22:02 G	47154632.24	47154632.42	47154632.63	0.0138	0.0084
Earth	124392-11-23 23:00 G	47154632.25	47154632.46	47154632.66	0.0138	0.0079 *
Mercury	124393-01-26 17:57 G	47154696.12	47154696.25	47154696.39	0.0138	0.0057
Mercury	124393-04-24 22:31 G	47154784.32	47154784.44	47154784.56	0.0138	0.0077
Mercury	124393-07-22 02:50 G	47154872.52	47154872.62	47154872.73	0.0138	0.0097
Mercury	124393-10-18 06:55 G	47154960.72	47154960.79	47154960.88	0.0138	0.0117
Earth	124393-11-28 10:45 G	47155001.70	47155001.95	47155002.20	0.0138	0.0008
Moon	124393-11-28 11:57 G	47155001.74	47155002.00	47155002.26	0.0138	0.0008 *
Mercury	124394-01-14 11:14 G	47155048.97	47155048.97	47155049.00	0.0138	0.0137
Moon	124394-12-02 22:31 G	47155371.27	47155371.44	47155371.62	0.0138	0.0097
Earth	124394-12-02 23:14 G	47155371.29	47155371.47	47155371.66	0.0138	0.0095 *
Jupiter	124400-07-30 06:55 G	47157437.34	47157437.79	47157438.29	0.0139	0.0043
Venus	124420-11-05 08:07 G	47164840.81	47164840.84	47164840.89	0.0142	0.0140

Venus	124421-06-19 21:05 G	47165067.25	47165067.38	47165067.53	0.0142	0.0110
Venus	124422-02-01 10:02 G	47165293.74	47165293.92	47165294.11	0.0142	0.0079
Venus	124422-09-15 23:00 G	47165520.25	47165520.46	47165520.67	0.0142	0.0049
Venus	124423-04-30 11:43 G	47165746.77	47165746.99	47165747.21	0.0142	0.0018
Venus	124423-12-13 00:26 G	47165973.30	47165973.52	47165973.74	0.0142	0.0012
Venus	124424-07-26 12:55 G	47166199.84	47166200.04	47166200.26	0.0142	0.0043
Venus	124425-03-10 01:38 G	47166426.39	47166426.57	47166426.77	0.0142	0.0073
Venus	124425-10-22 14:07 G	47166652.95	47166653.09	47166653.25	0.0142	0.0103
Venus	124426-06-06 02:36 G	47166879.55	47166879.61	47166879.70	0.0142	0.0133
Mercury	124431-09-10 22:02 G	47168802.41	47168802.42	47168802.43	0.0141	0.0140
Mercury	124431-12-08 03:05 G	47168890.55	47168890.63	47168890.72	0.0141	0.0118
Mercury	124432-03-05 08:21 G	47168978.74	47168978.85	47168978.97	0.0141	0.0095
Mercury	124432-06-01 13:53 G	47169066.94	47169067.08	47169067.22	0.0141	0.0072
Mercury	124432-08-28 19:09 G	47169155.15	47169155.30	47169155.45	0.0141	0.0049
Mercury	124432-11-25 00:41 G	47169243.37	47169243.53	47169243.69	0.0141	0.0026
Mercury	124433-02-21 05:57 G	47169331.59	47169331.75	47169331.91	0.0141	0.0003
Mercury	124433-05-20 11:29 G	47169419.82	47169419.98	47169420.14	0.0141	0.0021
Earth	124433-05-29 05:29 G	47169428.57	47169428.73	47169428.92	0.0141	0.0103
Moon	124433-05-29 09:33 G	47169428.75	47169428.90	47169429.06	0.0141	0.0110 *
Mercury	124433-08-16 17:00 G	47169508.06	47169508.21	47169508.36	0.0140	0.0045
Mercury	124433-11-12 22:17 G	47169596.30	47169596.43	47169596.58	0.0140	0.0069
Mercury	124434-02-09 03:48 G	47169684.55	47169684.66	47169684.80	0.0140	0.0093
Mercury	124434-05-08 09:19 G	47169772.82	47169772.89	47169773.00	0.0140	0.0117
Moon	124434-06-02 22:02 G	47169798.16	47169798.42	47169798.67	0.0140	0.0004
Earth	124434-06-03 01:24 G	47169798.31	47169798.56	47169798.82	0.0140	0.0009 *
Mercury	124434-08-04 15:19 G	47169861.14	47169861.14	47169861.15	0.0140	0.0140
Earth	124435-06-07 20:07 G	47170168.14	47170168.34	47170168.54	0.0140	0.0084
Moon	124435-06-07 23:14 G	47170168.28	47170168.47	47170168.68	0.0140	0.0084 *
Venus	124462-12-27 12:41 G	47180232.98	47180233.03	47180233.11	0.0135	0.0128
Venus	124463-08-10 17:14 G	47180459.11	47180459.22	47180459.38	0.0136	0.0104

Venus	124464-03-23 22:02 G	47180685.26	47180685.42	47180685.61	0.0136	0.0079
Venus	124464-11-05 02:50 G	47180911.43	47180911.62	47180911.82	0.0136	0.0054
Venus	124465-06-19 07:38 G	47181137.62	47181137.82	47181138.03	0.0136	0.0029
Venus	124466-01-31 12:26 G	47181363.81	47181364.02	47181364.23	0.0136	0.0004
Venus	124466-09-14 17:14 G	47181590.01	47181590.22	47181590.43	0.0136	0.0022
Venus	124467-04-28 22:02 G	47181816.22	47181816.42	47181816.62	0.0136	0.0047
Venus	124467-12-11 02:50 G	47182042.45	47182042.62	47182042.81	0.0136	0.0072
Venus	124468-07-24 07:53 G	47182268.69	47182268.83	47182268.99	0.0136	0.0097
Venus	124469-03-07 12:55 G	47182494.96	47182495.04	47182495.15	0.0136	0.0122
Mercury	124474-12-15 08:07 G	47184603.78	47184603.84	47184603.91	0.0137	0.0124
Mercury	124475-03-13 12:41 G	47184691.94	47184692.03	47184692.14	0.0137	0.0103
Mercury	124475-06-09 17:29 G	47184780.11	47184780.23	47184780.36	0.0137	0.0082
Mercury	124475-09-05 22:02 G	47184868.29	47184868.42	47184868.56	0.0137	0.0061
Mercury	124475-12-03 02:36 G	47184956.47	47184956.61	47184956.76	0.0137	0.0041
Mercury	124476-02-29 07:09 G	47185044.65	47185044.80	47185044.96	0.0137	0.0021
Mercury	124476-05-27 11:43 G	47185132.84	47185132.99	47185133.15	0.0137	0.0004
Mercury	124476-08-23 16:17 G	47185221.03	47185221.18	47185221.33	0.0138	0.0021
Mercury	124476-11-19 20:50 G	47185309.22	47185309.37	47185309.51	0.0138	0.0042
Moon	124476-11-24 04:45 G	47185313.51	47185313.70	47185313.92	0.0138	0.0082
Earth	124476-11-24 08:50 G	47185313.66	47185313.87	47185314.08	0.0138	0.0075 *
Mercury	124477-02-16 01:09 G	47185397.42	47185397.55	47185397.69	0.0138	0.0062
Mercury	124477-05-15 05:43 G	47185485.62	47185485.74	47185485.86	0.0138	0.0082
Mercury	124477-08-11 10:02 G	47185573.82	47185573.92	47185574.02	0.0138	0.0102
Mercury	124477-11-07 14:21 G	47185662.03	47185662.10	47185662.17	0.0138	0.0122
Earth	124477-11-28 20:36 G	47185683.11	47185683.36	47185683.61	0.0138	0.0012
Moon	124477-11-28 23:57 G	47185683.25	47185683.50	47185683.75	0.0138	0.0019 *
Moon	124478-12-03 05:14 G	47186052.55	47186052.72	47186052.93	0.0138	0.0092
Earth	124478-12-03 09:05 G	47186052.72	47186052.88	47186053.06	0.0138	0.0099 *
Mars	124488-05-22 04:17 G	47189510.40	47189510.68	47189510.97	0.0141	0.0002
Venus	124505-02-18 02:07 G	47195625.49	47195625.59	47195625.71	0.0142	0.0124

Venus	124505-10-02 14:50 G	47195851.97	47195852.12	47195852.30	0.0142	0.0094
Venus	124506-05-17 04:02 G	47196078.47	47196078.67	47196078.87	0.0142	0.0063
Venus	124506-12-29 16:45 G	47196304.98	47196305.20	47196305.42	0.0142	0.0032
Venus	124507-08-13 05:29 G	47196531.51	47196531.73	47196531.96	0.0142	0.0004
Venus	124508-03-26 18:12 G	47196758.05	47196758.26	47196758.48	0.0142	0.0030
Venus	124508-11-08 06:41 G	47196984.59	47196984.78	47196984.99	0.0142	0.0060
Venus	124509-06-22 19:24 G	47197211.15	47197211.31	47197211.49	0.0142	0.0090
Venus	124510-02-04 08:07 G	47197437.73	47197437.84	47197437.96	0.0142	0.0120
Mercury	124515-10-02 04:45 G	47199503.67	47199503.70	47199503.75	0.0141	0.0135
Mercury	124515-12-29 10:17 G	47199591.84	47199591.93	47199592.02	0.0141	0.0112
Mercury	124516-03-26 15:19 G	47199680.03	47199680.14	47199680.27	0.0141	0.0090
Mercury	124516-06-22 20:50 G	47199768.23	47199768.37	47199768.51	0.0141	0.0067
Mercury	124516-09-19 02:07 G	47199856.44	47199856.59	47199856.75	0.0141	0.0044
Mercury	124516-12-16 07:38 G	47199944.66	47199944.82	47199944.98	0.0141	0.0021
Mercury	124517-03-14 12:55 G	47200032.88	47200033.04	47200033.21	0.0141	0.0004
Earth	124517-05-30 14:36 G	47200109.94	47200110.11	47200110.30	0.0140	0.0100
Moon	124517-05-30 14:36 G	47200109.96	47200110.11	47200110.30	0.0140	0.0103 *
Mercury	124517-06-10 18:26 G	47200121.11	47200121.27	47200121.43	0.0140	0.0026
Mercury	124517-09-06 23:57 G	47200209.35	47200209.50	47200209.65	0.0140	0.0050
Mercury	124517-12-04 05:29 G	47200297.59	47200297.73	47200297.87	0.0140	0.0073
Mercury	124518-03-02 11:00 G	47200385.85	47200385.96	47200386.08	0.0140	0.0097
Mercury	124518-05-29 16:31 G	47200474.12	47200474.19	47200474.28	0.0140	0.0121
Moon	124518-06-04 10:02 G	47200479.65	47200479.92	47200480.18	0.0140	0.0002
Earth	124518-06-04 10:17 G	47200479.68	47200479.93	47200480.19	0.0140	0.0006 *
Moon	124519-06-09 04:31 G	47200849.50	47200849.69	47200849.90	0.0140	0.0081
Earth	124519-06-09 05:00 G	47200849.52	47200849.71	47200849.92	0.0140	0.0087 *
Jupiter	124525-06-25 16:31 G	47203057.69	47203058.19	47203058.73	0.0138	0.0037
Mars	124528-11-23 10:02 G	47204304.63	47204304.92	47204305.22	0.0138	0.0065
Venus	124547-04-11 03:19 G	47211017.54	47211017.64	47211017.77	0.0136	0.0114
Venus	124547-11-23 08:07 G	47211243.69	47211243.84	47211244.01	0.0136	0.0090

Venus	124548-07-06 12:55 G	47211469.86	47211470.04	47211470.23	0.0136	0.0065
Venus	124549-02-17 17:43 G	47211696.04	47211696.24	47211696.45	0.0136	0.0040
Venus	124549-10-01 22:31 G	47211922.23	47211922.44	47211922.65	0.0136	0.0014
Venus	124550-05-16 03:19 G	47212148.43	47212148.64	47212148.85	0.0136	0.0011
Venus	124550-12-28 08:07 G	47212374.64	47212374.84	47212375.05	0.0136	0.0036
Venus	124551-08-11 13:09 G	47212600.86	47212601.05	47212601.24	0.0136	0.0061
Venus	124552-03-24 17:43 G	47212827.10	47212827.24	47212827.42	0.0136	0.0087
Venus	124552-11-05 22:45 G	47213053.35	47213053.45	47213053.59	0.0136	0.0112
Mercury	124559-01-05 15:05 G	47215305.06	47215305.13	47215305.21	0.0137	0.0119
Mercury	124559-04-03 19:38 G	47215393.22	47215393.32	47215393.44	0.0137	0.0098
Mercury	124559-07-01 00:26 G	47215481.40	47215481.52	47215481.65	0.0137	0.0077
Mercury	124559-09-27 05:00 G	47215569.58	47215569.71	47215569.86	0.0137	0.0057
Mercury	124559-12-24 09:48 G	47215657.76	47215657.91	47215658.06	0.0137	0.0035
Mercury	124560-03-21 14:21 G	47215745.95	47215746.10	47215746.25	0.0137	0.0015
Mercury	124560-06-17 18:55 G	47215834.14	47215834.29	47215834.44	0.0137	0.0006
Mercury	124560-09-13 23:29 G	47215922.33	47215922.48	47215922.63	0.0138	0.0027
Moon	124560-11-25 18:26 G	47215995.05	47215995.27	47215995.51	0.0138	0.0068
Earth	124560-11-25 18:12 G	47215995.06	47215995.26	47215995.49	0.0138	0.0072 *
Mercury	124560-12-11 03:48 G	47216010.52	47216010.66	47216010.80	0.0138	0.0047
Mercury	124561-03-09 08:07 G	47216098.72	47216098.84	47216098.98	0.0138	0.0068
Mercury	124561-06-05 12:26 G	47216186.92	47216187.02	47216187.15	0.0138	0.0088
Mercury	124561-09-01 16:45 G	47216275.12	47216275.20	47216275.31	0.0138	0.0108
Mercury	124561-11-28 21:05 G	47216363.34	47216363.38	47216363.45	0.0138	0.0128
Earth	124561-11-30 06:26 G	47216364.52	47216364.77	47216365.02	0.0138	0.0015
Moon	124561-11-30 06:41 G	47216364.54	47216364.78	47216365.03	0.0138	0.0013 *
Earth	124562-12-04 18:55 G	47216734.13	47216734.29	47216734.46	0.0138	0.0102
Moon	124562-12-04 19:24 G	47216734.13	47216734.31	47216734.49	0.0138	0.0100 *
Venus	124588-10-18 07:09 G	47226183.76	47226183.80	47226183.88	0.0142	0.0138
Venus	124589-06-01 20:07 G	47226410.21	47226410.34	47226410.50	0.0142	0.0107
Venus	124590-01-14 09:19 G	47226636.71	47226636.89	47226637.08	0.0142	0.0076

Venus	124590-08-28 22:17 G	47226863.22	47226863.43	47226863.64	0.0142	0.0046
Venus	124591-04-12 11:00 G	47227089.74	47227089.96	47227090.18	0.0142	0.0015
Venus	124591-11-24 23:43 G	47227316.27	47227316.49	47227316.71	0.0142	0.0016
Venus	124592-07-08 12:12 G	47227542.81	47227543.01	47227543.23	0.0142	0.0047
Venus	124593-02-20 01:09 G	47227769.37	47227769.55	47227769.74	0.0142	0.0077
Venus	124593-10-04 13:53 G	47227995.94	47227996.08	47227996.22	0.0142	0.0107
Venus	124594-05-19 02:21 G	47228222.55	47228222.60	47228222.65	0.0142	0.0137
Mercury	124599-10-22 11:43 G	47230204.94	47230204.99	47230205.06	0.0141	0.0130
Mercury	124600-01-18 17:00 G	47230293.12	47230293.21	47230293.32	0.0141	0.0107
Mercury	124600-04-16 22:31 G	47230381.31	47230381.44	47230381.57	0.0141	0.0084
Mercury	124600-07-14 03:33 G	47230469.52	47230469.65	47230469.81	0.0141	0.0062
Mercury	124600-10-10 09:05 G	47230557.73	47230557.88	47230558.04	0.0141	0.0038
Mercury	124601-01-06 14:36 G	47230645.95	47230646.11	47230646.27	0.0141	0.0015
Mercury	124601-04-04 19:53 G	47230734.17	47230734.33	47230734.50	0.0140	0.0009
Moon	124601-05-31 20:21 G	47230791.17	47230791.35	47230791.56	0.0140	0.0090
Earth	124601-05-31 23:43 G	47230791.31	47230791.49	47230791.68	0.0140	0.0097 *
Mercury	124601-07-02 01:24 G	47230822.40	47230822.56	47230822.72	0.0140	0.0032
Mercury	124601-09-28 06:41 G	47230910.64	47230910.78	47230910.94	0.0140	0.0056
Mercury	124601-12-25 12:26 G	47230998.88	47230999.02	47230999.15	0.0140	0.0079
Mercury	124602-03-23 17:57 G	47231087.14	47231087.25	47231087.36	0.0140	0.0102
Earth	124602-06-05 19:24 G	47231161.05	47231161.31	47231161.57	0.0140	0.0003
Moon	124602-06-05 23:00 G	47231161.21	47231161.46	47231161.72	0.0140	0.0009 *
Mercury	124602-06-19 23:29 G	47231175.42	47231175.48	47231175.55	0.0140	0.0126
Moon	124603-06-10 10:31 G	47231530.77	47231530.94	47231531.14	0.0140	0.0094
Earth	124603-06-10 13:52 G	47231530.90	47231531.08	47231531.29	0.0140	0.0090 *
Mars	124613-07-21 01:52 G	47235224.43	47235224.58	47235224.76	0.0137	0.0120
Venus	124630-12-10 12:40 G	47241575.97	47241576.03	47241576.12	0.0136	0.0126
Venus	124631-07-24 17:43 G	47241802.11	47241802.24	47241802.39	0.0136	0.0101
Venus	124632-03-06 22:16 G	47242028.27	47242028.43	47242028.62	0.0136	0.0076
Venus	124632-10-19 03:19 G	47242254.44	47242254.64	47242254.83	0.0136	0.0051

Venus	124633-06-02 07:52 G	47242480.63	47242480.83	47242481.04	0.0136	0.0026
Venus	124634-01-14 12:40 G	47242706.82	47242707.03	47242707.25	0.0136	0.0003
Venus	124634-08-28 17:43 G	47242933.03	47242933.24	47242933.45	0.0136	0.0025
Venus	124635-04-11 22:45 G	47243159.25	47243159.45	47243159.64	0.0136	0.0050
Venus	124635-11-24 03:19 G	47243385.48	47243385.64	47243385.83	0.0136	0.0076
Venus	124636-07-07 08:21 G	47243611.72	47243611.85	47243612.01	0.0136	0.0101
Venus	124637-02-18 13:38 G	47243838.00	47243838.07	47243838.15	0.0136	0.0126
Mercury	124642-10-30 17:28 G	47245918.21	47245918.23	47245918.25	0.0137	0.0135
Mercury	124643-01-26 22:02 G	47246006.34	47246006.42	47246006.51	0.0137	0.0114
Mercury	124643-04-25 02:36 G	47246094.51	47246094.61	47246094.73	0.0137	0.0094
Mercury	124643-07-22 07:24 G	47246182.68	47246182.81	47246182.95	0.0137	0.0072
Mercury	124643-10-18 11:57 G	47246270.86	47246271.00	47246271.15	0.0137	0.0052
Mercury	124644-01-14 16:45 G	47246359.05	47246359.20	47246359.35	0.0137	0.0031
Mercury	124644-04-11 21:19 G	47246447.24	47246447.39	47246447.54	0.0137	0.0010
Mercury	124644-07-09 01:52 G	47246535.43	47246535.58	47246535.73	0.0138	0.0011
Mercury	124644-10-05 06:12 G	47246623.62	47246623.76	47246623.91	0.0138	0.0032
Earth	124644-11-27 03:33 G	47246676.44	47246676.65	47246676.87	0.0138	0.0069
Moon	124644-11-27 06:55 G	47246676.57	47246676.79	47246677.02	0.0138	0.0063 *
Mercury	124645-01-01 10:45 G	47246711.81	47246711.95	47246712.09	0.0138	0.0052
Mercury	124645-03-30 15:19 G	47246800.01	47246800.14	47246800.27	0.0138	0.0072
Mercury	124645-06-26 19:24 G	47246888.21	47246888.31	47246888.43	0.0138	0.0093
Mercury	124645-09-22 23:43 G	47246976.42	47246976.49	47246976.59	0.0138	0.0113
Moon	124645-12-01 11:57 G	47247045.75	47247046.00	47247046.25	0.0138	0.0010
Earth	124645-12-01 15:33 G	47247045.91	47247046.15	47247046.41	0.0138	0.0018 *
Mercury	124645-12-20 04:31 G	47247064.65	47247064.69	47247064.73	0.0138	0.0132
Earth	124646-12-06 04:02 G	47247415.52	47247415.67	47247415.85	0.0138	0.0105
Moon	124646-12-06 07:52 G	47247415.68	47247415.83	47247415.97	0.0138	0.0113 *
Mars	124655-10-11 22:45 G	47250647.34	47250647.45	47250647.60	0.0140	0.0125
Venus	124673-01-31 01:52 G	47256968.47	47256968.58	47256968.70	0.0142	0.0121
Venus	124673-09-14 14:36 G	47257194.95	47257195.11	47257195.29	0.0142	0.0090

Venus	124674-04-29 03:33 G	47257421.45	47257421.65	47257421.86	0.0142	0.0059
Venus	124674-12-11 16:31 G	47257647.97	47257648.19	47257648.41	0.0142	0.0029
Venus	124675-07-26 05:14 G	47257874.50	47257874.72	47257874.94	0.0142	0.0002
Venus	124676-03-08 17:57 G	47258101.04	47258101.25	47258101.47	0.0142	0.0034
Venus	124676-10-21 06:40 G	47258327.58	47258327.78	47258327.98	0.0142	0.0064
Venus	124677-06-04 18:55 G	47258554.14	47258554.29	47258554.47	0.0142	0.0095
Venus	124678-01-17 07:38 G	47258780.73	47258780.82	47258780.94	0.0142	0.0125
Mercury	124683-11-12 18:55 G	47260906.22	47260906.29	47260906.37	0.0141	0.0124
Mercury	124684-02-08 23:57 G	47260994.41	47260994.50	47260994.62	0.0141	0.0102
Mercury	124684-05-07 05:28 G	47261082.60	47261082.73	47261082.86	0.0141	0.0079
Mercury	124684-08-03 10:45 G	47261170.81	47261170.95	47261171.10	0.0141	0.0056
Mercury	124684-10-30 16:16 G	47261259.02	47261259.18	47261259.33	0.0141	0.0033
Mercury	124685-01-26 21:33 G	47261347.24	47261347.40	47261347.56	0.0140	0.0010
Mercury	124685-04-25 02:50 G	47261435.46	47261435.62	47261435.79	0.0140	0.0014
Moon	124685-06-01 06:55 G	47261472.60	47261472.79	47261473.00	0.0140	0.0093
Earth	124685-06-01 09:04 G	47261472.70	47261472.88	47261473.08	0.0140	0.0093 *
Mercury	124685-07-22 08:21 G	47261523.70	47261523.85	47261524.01	0.0140	0.0037
Mercury	124685-10-18 13:52 G	47261611.93	47261612.08	47261612.23	0.0140	0.0061
Mercury	124686-01-14 19:24 G	47261700.18	47261700.31	47261700.44	0.0140	0.0084
Mercury	124686-04-13 00:55 G	47261788.44	47261788.54	47261788.65	0.0140	0.0108
Earth	124686-06-06 04:45 G	47261842.45	47261842.70	47261842.96	0.0140	0.0002
Moon	124686-06-06 06:12 G	47261842.51	47261842.76	47261843.01	0.0140	0.0004 *
Mercury	124686-07-10 06:26 G	47261876.73	47261876.77	47261876.83	0.0140	0.0132
Moon	124687-06-10 22:02 G	47262212.25	47262212.42	47262212.61	0.0140	0.0099
Earth	124687-06-10 23:14 G	47262212.30	47262212.47	47262212.68	0.0140	0.0093 *
Venus	124715-03-25 03:19 G	47272360.54	47272360.64	47272360.77	0.0136	0.0113
Venus	124715-11-06 08:07 G	47272586.69	47272586.84	47272587.01	0.0136	0.0088
Venus	124716-06-19 12:55 G	47272812.86	47272813.04	47272813.24	0.0136	0.0063
Venus	124717-01-31 17:57 G	47273039.04	47273039.25	47273039.45	0.0136	0.0037
Venus	124717-09-14 22:45 G	47273265.24	47273265.45	47273265.66	0.0136	0.0012

Venus	124718-04-29 03:33 G	47273491.44	47273491.65	47273491.86	0.0136	0.0014
Venus	124718-12-11 08:21 G	47273717.65	47273717.85	47273718.06	0.0136	0.0039
Venus	124719-07-25 13:24 G	47273943.88	47273944.06	47273944.25	0.0136	0.0065
Venus	124720-03-07 18:26 G	47274170.12	47274170.27	47274170.43	0.0136	0.0090
Venus	124720-10-19 23:00 G	47274396.37	47274396.46	47274396.59	0.0136	0.0116
Mercury	124726-11-20 23:57 G	47276619.47	47276619.50	47276619.56	0.0137	0.0132
Mercury	124727-02-17 04:45 G	47276707.62	47276707.70	47276707.81	0.0137	0.0110
Mercury	124727-05-16 09:48 G	47276795.79	47276795.91	47276796.03	0.0137	0.0089
Mercury	124727-08-12 14:21 G	47276883.97	47276884.10	47276884.24	0.0137	0.0068
Mercury	124727-11-08 19:09 G	47276972.15	47276972.30	47276972.44	0.0137	0.0047
Mercury	124728-02-04 23:43 G	47277060.34	47277060.49	47277060.64	0.0137	0.0026
Mercury	124728-05-03 04:16 G	47277148.53	47277148.68	47277148.83	0.0137	0.0005
Mercury	124728-07-30 08:50 G	47277236.72	47277236.87	47277237.02	0.0138	0.0016
Mercury	124728-10-26 13:09 G	47277324.91	47277325.05	47277325.20	0.0138	0.0036
Earth	124728-11-28 12:26 G	47277357.81	47277358.02	47277358.25	0.0138	0.0066
Moon	124728-11-28 13:52 G	47277357.89	47277358.08	47277358.31	0.0138	0.0072 *
Mercury	124729-01-22 17:43 G	47277413.10	47277413.24	47277413.38	0.0138	0.0057
Mercury	124729-04-20 22:16 G	47277501.30	47277501.43	47277501.55	0.0138	0.0077
Mercury	124729-07-18 02:36 G	47277589.51	47277589.61	47277589.72	0.0138	0.0097
Mercury	124729-10-14 07:09 G	47277677.72	47277677.80	47277677.87	0.0138	0.0117
Moon	124729-12-02 23:43 G	47277727.24	47277727.49	47277727.75	0.0138	0.0022
Earth	124729-12-03 00:40 G	47277727.29	47277727.53	47277727.79	0.0138	0.0021 *
Mercury	124730-01-10 11:28 G	47277765.97	47277765.98	47277765.99	0.0138	0.0137
Earth	124730-12-07 13:09 G	47278096.91	47278097.05	47278097.22	0.0138	0.0108
Moon	124730-12-07 14:36 G	47278096.98	47278097.11	47278097.27	0.0138	0.0109 *
Mars	124740-06-06 11:14 G	47281565.70	47281565.97	47281566.24	0.0141	0.0039
Venus	124756-10-01 07:24 G	47287526.75	47287526.81	47287526.88	0.0142	0.0135
Venus	124757-05-15 19:52 G	47287753.20	47287753.33	47287753.50	0.0142	0.0105
Venus	124757-12-28 09:04 G	47287979.70	47287979.88	47287980.08	0.0142	0.0073
Venus	124758-08-11 22:02 G	47288206.21	47288206.42	47288206.64	0.0142	0.0042

Venus	124759-03-26 11:00 G	47288432.73	47288432.96	47288433.18	0.0142	0.0011
Venus	124759-11-07 23:28 G	47288659.27	47288659.48	47288659.71	0.0142	0.0020
Venus	124760-06-21 12:12 G	47288885.81	47288886.01	47288886.23	0.0142	0.0051
Venus	124761-02-03 00:55 G	47289112.37	47289112.54	47289112.73	0.0142	0.0082
Venus	124761-09-17 13:24 G	47289338.94	47289339.06	47289339.21	0.0142	0.0112
Mercury	124767-09-06 20:50 G	47291519.37	47291519.37	47291519.38	0.0141	0.0141
Mercury	124767-12-04 01:52 G	47291607.51	47291607.58	47291607.68	0.0141	0.0119
Mercury	124768-03-01 07:09 G	47291695.69	47291695.80	47291695.92	0.0141	0.0096
Mercury	124768-05-28 12:40 G	47291783.89	47291784.03	47291784.16	0.0141	0.0073
Mercury	124768-08-24 17:43 G	47291872.10	47291872.24	47291872.40	0.0141	0.0051
Mercury	124768-11-20 23:14 G	47291960.31	47291960.47	47291960.63	0.0141	0.0027
Mercury	124769-02-17 04:31 G	47292048.53	47292048.69	47292048.85	0.0140	0.0005
Mercury	124769-05-16 10:02 G	47292136.76	47292136.92	47292137.08	0.0140	0.0019
Earth	124769-06-02 18:26 G	47292154.08	47292154.27	47292154.48	0.0140	0.0090
Moon	124769-06-02 21:19 G	47292154.22	47292154.39	47292154.60	0.0140	0.0098 *
Mercury	124769-08-12 15:19 G	47292224.99	47292225.14	47292225.30	0.0140	0.0043
Mercury	124769-11-08 20:50 G	47292313.23	47292313.37	47292313.52	0.0140	0.0066
Mercury	124770-02-05 02:07 G	47292401.48	47292401.59	47292401.73	0.0140	0.0091
Mercury	124770-05-04 07:38 G	47292489.74	47292489.82	47292489.93	0.0140	0.0114
Moon	124770-06-07 11:28 G	47292523.73	47292523.98	47292524.23	0.0140	0.0010
Earth	124770-06-07 14:21 G	47292523.84	47292524.10	47292524.35	0.0140	0.0004 *
Mercury	124770-07-31 13:38 G	47292578.04	47292578.07	47292578.10	0.0140	0.0138
Earth	124771-06-12 08:50 G	47292893.70	47292893.87	47292894.07	0.0140	0.0096
Moon	124771-06-12 12:26 G	47292893.83	47292894.02	47292894.22	0.0140	0.0093 *
Mars	124780-12-06 10:02 G	47296358.61	47296358.92	47296359.26	0.0137	0.0031
Venus	124798-11-22 12:40 G	47302918.97	47302919.03	47302919.13	0.0136	0.0125
Venus	124799-07-06 17:28 G	47303145.11	47303145.23	47303145.39	0.0136	0.0100
Venus	124800-02-17 22:45 G	47303371.27	47303371.45	47303371.63	0.0136	0.0074
Venus	124800-10-01 03:19 G	47303597.45	47303597.64	47303597.84	0.0136	0.0049
Venus	124801-05-15 08:07 G	47303823.64	47303823.84	47303824.05	0.0136	0.0023

Venus	124801-12-27 13:09 G	47304049.83	47304050.05	47304050.26	0.0136	0.0003
Venus	124802-08-10 17:57 G	47304276.05	47304276.25	47304276.46	0.0136	0.0028
Venus	124803-03-24 22:45 G	47304502.26	47304502.45	47304502.65	0.0136	0.0054
Venus	124803-11-06 03:33 G	47304728.49	47304728.65	47304728.84	0.0136	0.0079
Venus	124804-06-19 08:50 G	47304954.73	47304954.87	47304955.00	0.0136	0.0104
Venus	124805-01-31 13:24 G	47305181.02	47305181.06	47305181.14	0.0136	0.0130
Mercury	124810-12-11 06:55 G	47307320.74	47307320.79	47307320.86	0.0137	0.0127
Mercury	124811-03-09 11:43 G	47307408.90	47307408.99	47307409.10	0.0137	0.0106
Mercury	124811-06-05 16:31 G	47307497.07	47307497.19	47307497.32	0.0137	0.0084
Mercury	124811-09-01 21:04 G	47307585.25	47307585.38	47307585.53	0.0137	0.0064
Mercury	124811-11-29 01:52 G	47307673.44	47307673.58	47307673.73	0.0137	0.0042
Mercury	124812-02-25 06:26 G	47307761.62	47307761.77	47307761.93	0.0137	0.0022
Mercury	124812-05-23 11:00 G	47307849.81	47307849.96	47307850.12	0.0138	0.0005
Mercury	124812-08-19 15:33 G	47307938.00	47307938.15	47307938.31	0.0138	0.0020
Mercury	124812-11-15 20:07 G	47308026.20	47308026.34	47308026.49	0.0138	0.0041
Moon	124812-11-28 18:12 G	47308039.05	47308039.26	47308039.48	0.0138	0.0069
Earth	124812-11-28 21:19 G	47308039.17	47308039.39	47308039.62	0.0138	0.0063 *
Mercury	124813-02-12 00:40 G	47308114.39	47308114.53	47308114.66	0.0138	0.0061
Mercury	124813-05-11 05:00 G	47308202.59	47308202.71	47308202.84	0.0138	0.0082
Mercury	124813-08-07 09:19 G	47308290.80	47308290.89	47308291.00	0.0138	0.0102
Mercury	124813-11-03 13:52 G	47308379.02	47308379.08	47308379.15	0.0138	0.0122
Earth	124813-12-03 09:33 G	47308408.65	47308408.90	47308409.15	0.0138	0.0023
Moon	124813-12-03 12:12 G	47308408.77	47308409.01	47308409.27	0.0138	0.0031 *
Moon	124814-12-07 18:55 G	47308778.14	47308778.29	47308778.47	0.0138	0.0103
Earth	124814-12-07 22:31 G	47308778.29	47308778.44	47308778.59	0.0138	0.0111 *
Venus	124841-01-13 01:24 G	47318311.45	47318311.56	47318311.69	0.0142	0.0119
Venus	124841-08-27 14:21 G	47318537.94	47318538.10	47318538.29	0.0142	0.0088
Venus	124842-04-11 03:19 G	47318764.44	47318764.64	47318764.85	0.0142	0.0057
Venus	124842-11-23 16:02 G	47318990.96	47318991.17	47318991.40	0.0142	0.0026
Venus	124843-07-08 05:00 G	47319217.49	47319217.71	47319217.93	0.0142	0.0006

Venus	124844-02-19 17:43 G	47319444.03	47319444.24	47319444.46	0.0142	0.0037
Venus	124844-10-03 06:26 G	47319670.58	47319670.77	47319670.97	0.0142	0.0068
Venus	124845-05-17 18:55 G	47319897.14	47319897.29	47319897.46	0.0142	0.0099
Venus	124845-12-30 07:24 G	47320123.73	47320123.81	47320123.91	0.0142	0.0129
Mercury	124851-09-27 04:02 G	47322220.63	47322220.67	47322220.71	0.0141	0.0135
Mercury	124851-12-24 09:04 G	47322308.79	47322308.88	47322308.98	0.0141	0.0113
Mercury	124852-03-21 14:07 G	47322396.98	47322397.09	47322397.22	0.0141	0.0091
Mercury	124852-06-17 19:38 G	47322485.18	47322485.32	47322485.46	0.0141	0.0068
Mercury	124852-09-14 00:55 G	47322573.39	47322573.54	47322573.69	0.0141	0.0045
Mercury	124852-12-11 06:12 G	47322661.60	47322661.76	47322661.92	0.0140	0.0022
Mercury	124853-03-09 11:43 G	47322749.83	47322749.99	47322750.15	0.0140	0.0003
Earth	124853-06-03 04:16 G	47322835.47	47322835.68	47322835.88	0.0140	0.0086
Moon	124853-06-03 06:40 G	47322835.58	47322835.78	47322835.97	0.0140	0.0087 *
Mercury	124853-06-05 17:00 G	47322838.05	47322838.21	47322838.37	0.0140	0.0025
Mercury	124853-09-01 22:31 G	47322926.29	47322926.44	47322926.59	0.0140	0.0048
Mercury	124853-11-29 03:48 G	47323014.53	47323014.66	47323014.81	0.0140	0.0072
Mercury	124854-02-25 09:33 G	47323102.78	47323102.90	47323103.02	0.0140	0.0096
Mercury	124854-05-24 15:04 G	47323191.05	47323191.13	47323191.21	0.0140	0.0119
Moon	124854-06-07 21:04 G	47323205.12	47323205.38	47323205.65	0.0140	0.0011
Earth	124854-06-07 23:57 G	47323205.24	47323205.50	47323205.75	0.0140	0.0007 *
Earth	124855-06-12 18:26 G	47323575.10	47323575.27	47323575.46	0.0140	0.0099
Moon	124855-06-12 20:50 G	47323575.19	47323575.37	47323575.55	0.0140	0.0093 *
Venus	124883-03-06 03:48 G	47333703.55	47333703.66	47333703.79	0.0135	0.0111
Venus	124883-10-18 08:36 G	47333929.70	47333929.86	47333930.03	0.0136	0.0086
Venus	124884-05-31 13:09 G	47334155.87	47334156.05	47334156.25	0.0136	0.0061
Venus	124885-01-12 18:12 G	47334382.06	47334382.26	47334382.47	0.0136	0.0035
Venus	124885-08-26 23:14 G	47334608.26	47334608.47	47334608.68	0.0136	0.0009
Venus	124886-04-10 04:02 G	47334834.46	47334834.67	47334834.88	0.0136	0.0016
Venus	124886-11-22 08:50 G	47335060.67	47335060.87	47335061.07	0.0136	0.0042
Venus	124887-07-06 13:38 G	47335286.89	47335287.07	47335287.26	0.0136	0.0068

Venus	124888-02-17 18:12 G	47335513.13	47335513.26	47335513.43	0.0136	0.0094
Venus	124888-09-30 23:28 G	47335739.39	47335739.48	47335739.59	0.0136	0.0119
Mercury	124894-12-31 13:52 G	47338022.02	47338022.08	47338022.16	0.0137	0.0122
Mercury	124895-03-29 18:55 G	47338110.18	47338110.29	47338110.39	0.0137	0.0101
Mercury	124895-06-25 23:28 G	47338198.36	47338198.48	47338198.61	0.0137	0.0080
Mercury	124895-09-22 04:16 G	47338286.54	47338286.68	47338286.82	0.0137	0.0058
Mercury	124895-12-19 08:50 G	47338374.72	47338374.87	47338375.02	0.0137	0.0037
Mercury	124896-03-16 13:24 G	47338462.91	47338463.06	47338463.22	0.0137	0.0017
Mercury	124896-06-12 18:12 G	47338551.10	47338551.26	47338551.41	0.0138	0.0006
Mercury	124896-09-08 22:31 G	47338639.30	47338639.44	47338639.60	0.0138	0.0026
Moon	124896-11-29 04:16 G	47338720.46	47338720.68	47338720.93	0.0138	0.0055
Earth	124896-11-29 06:26 G	47338720.56	47338720.77	47338721.01	0.0138	0.0060 *
Mercury	124896-12-06 03:04 G	47338727.49	47338727.63	47338727.78	0.0138	0.0046
Mercury	124897-03-04 07:38 G	47338815.69	47338815.82	47338815.95	0.0138	0.0066
Mercury	124897-05-31 11:57 G	47338903.89	47338904.00	47338904.12	0.0138	0.0087
Mercury	124897-08-27 16:16 G	47338992.10	47338992.18	47338992.29	0.0138	0.0107
Mercury	124897-11-23 20:50 G	47339080.32	47339080.37	47339080.43	0.0138	0.0127
Earth	124897-12-03 18:40 G	47339090.04	47339090.28	47339090.54	0.0138	0.0027
Moon	124897-12-03 21:04 G	47339090.15	47339090.38	47339090.63	0.0138	0.0024 *
Moon	124898-12-08 05:14 G	47339459.59	47339459.72	47339459.89	0.0138	0.0113
Earth	124898-12-08 07:38 G	47339459.68	47339459.82	47339459.97	0.0138	0.0114 *
Mars	124907-10-26 01:52 G	47342702.38	47342702.58	47342702.81	0.0140	0.0093
Venus	124924-09-13 06:12 G	47348869.71	47348869.76	47348869.86	0.0142	0.0134
Venus	124925-04-27 19:09 G	47349096.16	47349096.30	47349096.47	0.0142	0.0103
Venus	124925-12-10 08:07 G	47349322.66	47349322.84	47349323.05	0.0142	0.0072
Venus	124926-07-24 21:04 G	47349549.18	47349549.38	47349549.61	0.0142	0.0040
Venus	124927-03-08 10:16 G	47349775.71	47349775.93	47349776.15	0.0142	0.0008
Venus	124927-10-20 23:00 G	47350002.24	47350002.46	47350002.68	0.0142	0.0023
Venus	124928-06-03 11:28 G	47350228.78	47350228.98	47350229.20	0.0142	0.0054
Venus	124929-01-16 00:12 G	47350455.34	47350455.51	47350455.70	0.0142	0.0085

Venus	124929-08-30 12:40 G	47350681.92	47350682.03	47350682.17	0.0142	0.0116
Mercury	124935-10-18 11:00 G	47352921.91	47352921.96	47352922.02	0.0141	0.0130
Mercury	124936-01-14 16:02 G	47353010.08	47353010.17	47353010.28	0.0141	0.0108
Mercury	124936-04-11 21:33 G	47353098.27	47353098.40	47353098.52	0.0141	0.0085
Mercury	124936-07-09 02:36 G	47353186.47	47353186.61	47353186.76	0.0141	0.0062
Mercury	124936-10-05 07:52 G	47353274.68	47353274.83	47353274.99	0.0141	0.0040
Mercury	124937-01-01 13:24 G	47353362.90	47353363.06	47353363.22	0.0140	0.0016
Mercury	124937-03-30 18:40 G	47353451.12	47353451.28	47353451.44	0.0140	0.0007
Moon	124937-06-04 11:43 G	47353516.79	47353516.99	47353517.21	0.0140	0.0075
Earth	124937-06-04 13:24 G	47353516.86	47353517.06	47353517.28	0.0140	0.0082 *
Mercury	124937-06-27 00:12 G	47353539.35	47353539.51	47353539.67	0.0140	0.0031
Mercury	124937-09-23 05:28 G	47353627.58	47353627.73	47353627.88	0.0140	0.0054
Mercury	124937-12-20 11:00 G	47353715.83	47353715.96	47353716.10	0.0140	0.0078
Mercury	124938-03-18 16:31 G	47353804.08	47353804.19	47353804.30	0.0140	0.0101
Earth	124938-06-09 09:19 G	47353886.63	47353886.89	47353887.14	0.0140	0.0011
Moon	124938-06-09 11:57 G	47353886.73	47353887.00	47353887.26	0.0140	0.0005 *
Mercury	124938-06-14 21:48 G	47353892.35	47353892.41	47353892.50	0.0140	0.0126
Moon	124939-06-14 02:07 G	47354256.43	47354256.59	47354256.75	0.0140	0.0107
Earth	124939-06-14 04:16 G	47354256.51	47354256.68	47354256.85	0.0140	0.0102 *
Venus	124966-11-04 13:24 G	47364261.98	47364262.06	47364262.15	0.0135	0.0123
Venus	124967-06-18 17:57 G	47364488.12	47364488.25	47364488.41	0.0135	0.0098
Venus	124968-01-30 22:45 G	47364714.28	47364714.45	47364714.64	0.0136	0.0073
Venus	124968-09-13 03:48 G	47364940.47	47364940.66	47364940.86	0.0136	0.0047
Venus	124969-04-27 08:36 G	47365166.65	47365166.86	47365167.07	0.0136	0.0021
Venus	124969-12-09 13:24 G	47365392.85	47365393.06	47365393.28	0.0136	0.0005
Venus	124970-07-23 18:12 G	47365619.06	47365619.26	47365619.48	0.0136	0.0031
Venus	124971-03-06 23:00 G	47365845.28	47365845.46	47365845.66	0.0136	0.0057
Venus	124971-10-19 04:02 G	47366071.50	47366071.67	47366071.84	0.0136	0.0082
Venus	124972-06-01 08:36 G	47366297.75	47366297.86	47366298.00	0.0136	0.0108
Venus	124973-01-13 13:38 G	47366524.04	47366524.07	47366524.12	0.0136	0.0133

Mercury	124979-01-21 20:50 G	47368723.30	47368723.37	47368723.46	0.0137	0.0117
Mercury	124979-04-20 01:38 G	47368811.47	47368811.57	47368811.69	0.0137	0.0096
Mercury	124979-07-17 06:26 G	47368899.64	47368899.77	47368899.90	0.0137	0.0075
Mercury	124979-10-13 11:14 G	47368987.83	47368987.97	47368988.11	0.0137	0.0054
Mercury	124980-01-09 15:48 G	47369076.01	47369076.16	47369076.31	0.0137	0.0033
Mercury	124980-04-06 20:21 G	47369164.20	47369164.35	47369164.51	0.0137	0.0012
Mercury	124980-07-04 01:09 G	47369252.39	47369252.55	47369252.70	0.0138	0.0010
Mercury	124980-09-30 05:43 G	47369340.59	47369340.74	47369340.89	0.0138	0.0030
Earth	124980-11-30 15:33 G	47369401.94	47369402.15	47369402.40	0.0138	0.0057
Moon	124980-11-30 17:57 G	47369402.02	47369402.25	47369402.50	0.0138	0.0052 *
Mercury	124980-12-27 10:02 G	47369428.78	47369428.92	47369429.07	0.0138	0.0051
Mercury	124981-03-25 14:36 G	47369516.98	47369517.11	47369517.24	0.0138	0.0071
Mercury	124981-06-21 19:09 G	47369605.19	47369605.30	47369605.41	0.0138	0.0091
Mercury	124981-09-17 23:14 G	47369693.40	47369693.47	47369693.57	0.0138	0.0112
Moon	124981-12-05 01:38 G	47369771.33	47369771.57	47369771.81	0.0138	0.0023
Earth	124981-12-05 04:02 G	47369771.43	47369771.67	47369771.92	0.0138	0.0030 *
Mercury	124981-12-15 03:48 G	47369781.63	47369781.66	47369781.71	0.0138	0.0132
Earth	124982-12-09 16:45 G	47370141.07	47370141.20	47370141.34	0.0138	0.0116
Moon	124982-12-09 19:09 G	47370141.18	47370141.30	47370141.41	0.0138	0.0124 *
Mars	124992-06-19 12:26 G	47373620.79	47373621.02	47373621.28	0.0141	0.0074